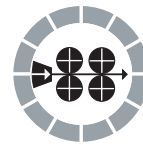




# PRODUCT CATALOGUE AUTOMATION



2022





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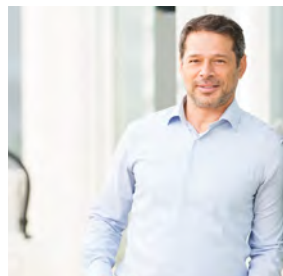
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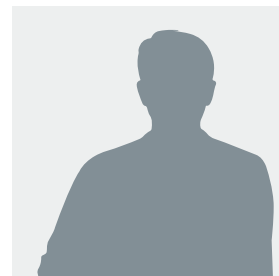
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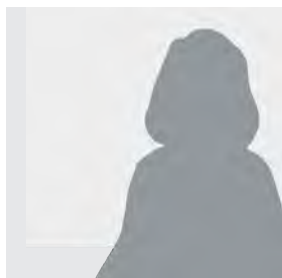
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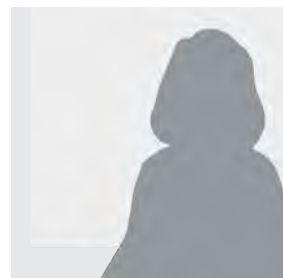
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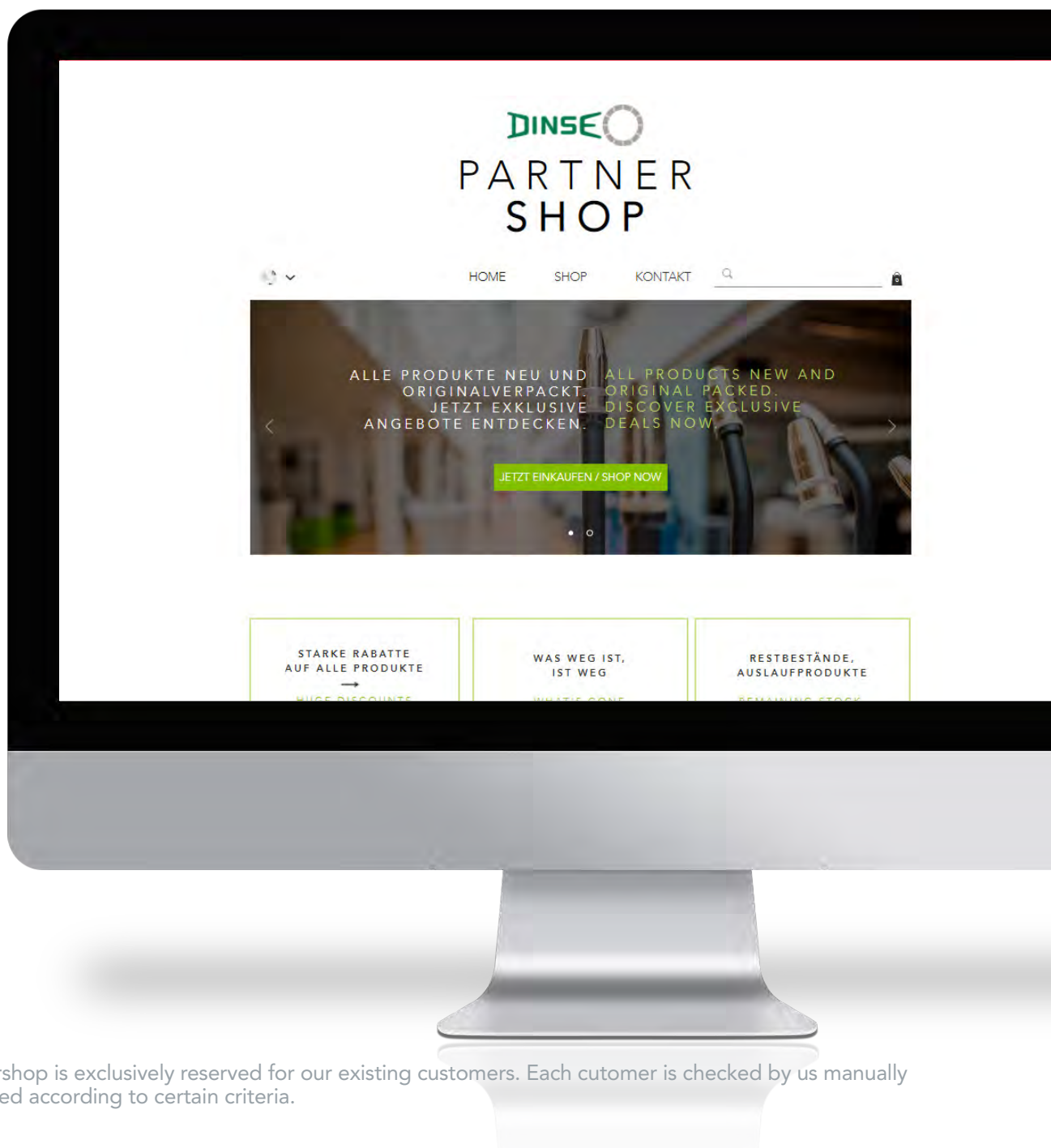
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Torch set M.FLEX  
Art.-Nr. WF1732



Torch sets gas cooled DINSE BY TREGASKISS  
Art.-Nr. WF1882



Torch head DIX MBTZ 54xx  
Art.-Nr. WF1402



Overview torch heads - THE FANTASTIC EIGHT  
Art.-Nr. WF1822



Torch head DIX METZ 52x - THE SLIM ONE  
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Torch head DIX METZ 54x - THE CLASSIC ONE  
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Torch head DIX METZ 59x - THE ACCESSIBLE ONE  
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Torch head DIX METZ 55xx - THE POWERFUL ONE  
Art.-Nr. WF1852



Torch head DIX METZ 56x - THE COOL ONE  
Art.-Nr. WF1792



Torch head DIX METZ 58xx - THE PRECISE ONE  
Art.-Nr. WF1862



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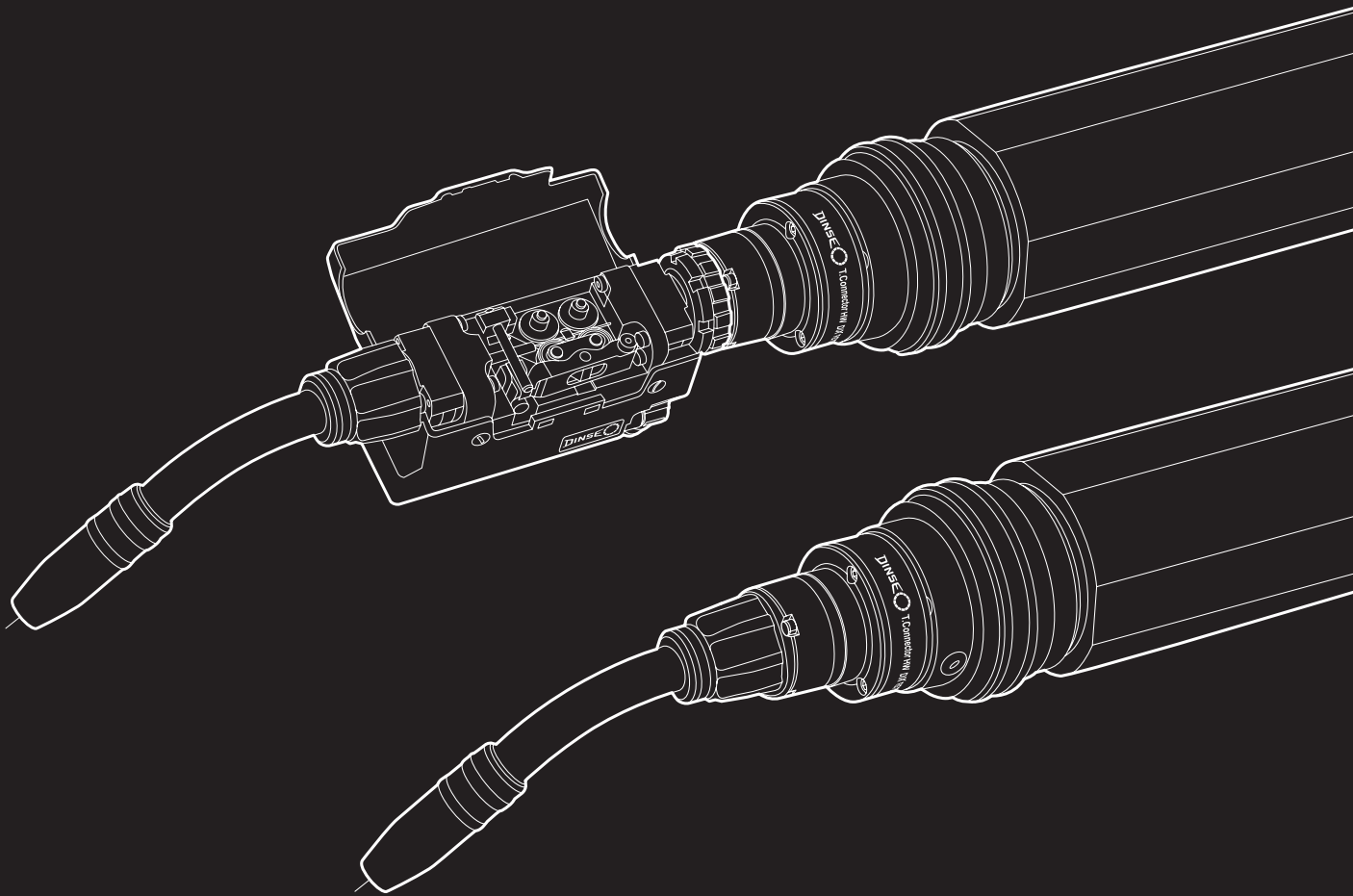


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# HIGHEST PRECISION FOR HOLLOW-WRIST ROBOTS



## T.CONNECTOR HW & HWD

### Totally convincing:

- ▶ Perfect connection to the robot
- ▶ Easy installation
- ▶ Slim design and low weight
- ▶ Maximum flexibility through +/- 260° rotation
- ▶ Optional front drive: Single Feed, PUSH-PUSH and PUSH-PULL
- ▶ Optional wire brake available

**WITH SHOCK  
SENSOR**



01

MIG/MAG  
SEPARABLE

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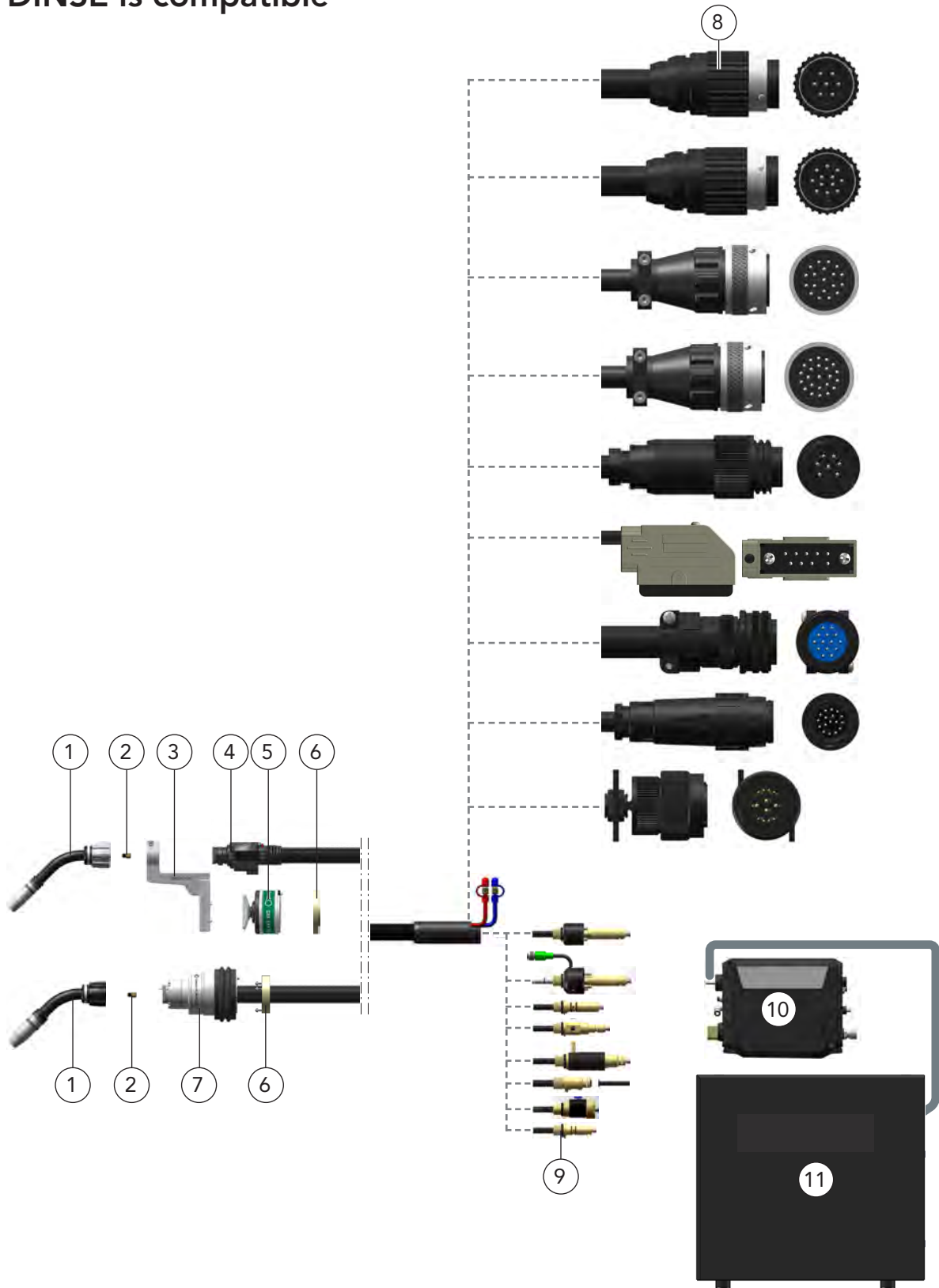
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Description

- 1 Torch head, see from
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- 3 Torch bracket, see from
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- 5 Shock sensor, see from
- 6 Flange, see from
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- 8 Control wire plug
- 9 Power Pin, see from
- 10 Wire feeder
- 11 Power source



# DINSE is compatible



1

DINSE welding components are compatible with systems of many manufacturers. The control line connectors and power pins can be configured to meet your welding job.

Due to the large number of possibilities, please contact your DINSE consultant.

Among other things, connection options for wire feed systems from the following manufacturers are available:

Air Liquide	CEA Tecnorobot
Cebora	Cloos
ESAB	EWM
Fronius	Kemppi
Lincoln	Lorch
Magra	Merkle
Migatronic	Miller
Motoman Yaskawa	Motoman (Mataverk)
Motoweld	OTC (Daihen)
Panasonic	Selco
Sigmaweld	SKS
Tregaskiss	Tweco

MIG/MAG

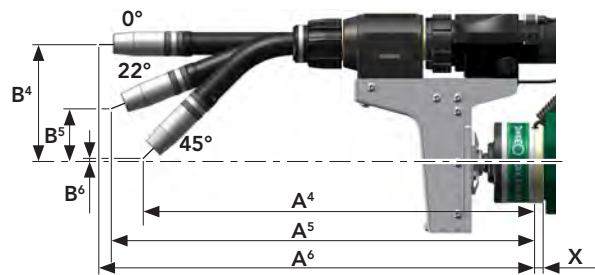
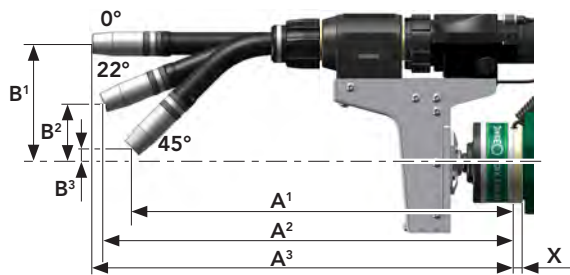
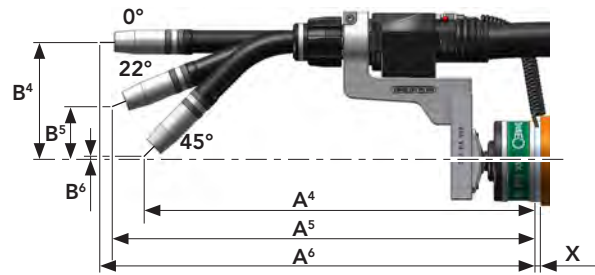
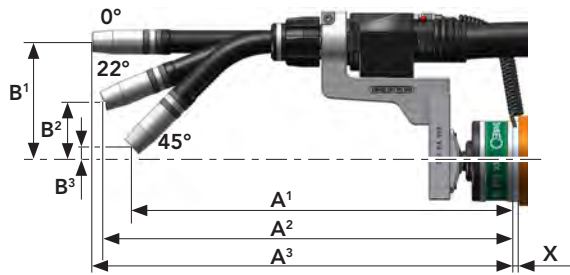
PUSH + PUSH-PULL



# TCP Dimensions torch heads MIG/MAG automation

## Conventional robots

### Torch bracket PHF 100, MEP 200



The TCP values result from:  
 $A^X + X \times B^X$   
 "A" dimensions up to the adapter flange.

X indicates the thickness of the adapter flange, which depends on the robot type. Please refer to the X dimension tables for the value from page 26

TCP dimensions for torch heads at standard robotic applications with bracket DIX PHF 100 or DIX MEP 200

Torch head	A <sup>1</sup> 45°	B <sup>1</sup>	A <sup>2</sup> 22°	B <sup>2</sup>	A <sup>3</sup> 0°	B <sup>3</sup>
MET 35x	386.2	13.8	414.2	58.1	425	116
MET 39x	427	68	441.3	93.9	445.3	116
MET 32xx	386.2	13.8	414.6	58.1	429	116
MET 37xx	386.2	13.8	414.2	58.1	429	116
MET 39xx	427	68	441.2	93.9	449.3	116
METZ 52x	386.2	13.8	414.2	58.1	425	116
METZ 52x L	456.2	13.8	484.2	58.1	495	116
METZ 52x XL	536.2	13.8	564.2	58.1	575	116
METZ 58xx	455.8	63.3	471.6	92.3	476	116
METZ 58xx L	525.8	63.3	541.6	92.3	546	116
METZ 58xx XL	605.8	63.3	621.6	92.3	626	116
METZ 59x	427	68	441.2	93.9	445.3	116
METZ 59x L	497	68	511.2	93.9	515.3	116
METZ 59x XL	577	68	591.2	93.9	595.3	116
METZ 54x	386.2	13.8	414.2	58.1	425	116
METZ 54x L	456.2	13.8	484.2	58.1	495	116
METZ 54x XL	536.2	13.8	564.2	58.1	575	116
METZ 64xx	386.2	13.8	414.2	58.1	425	116
METZ 64xx L	456.2	13.8	484.2	58.1	495	116
METZ 64xx XL	536.2	13.8	564.2	58.1	575	116
METZ 56x	386.9	13.1	415.1	57.7	426	116
METZ 56x L	456.9	13.1	485.1	57.7	496	116
METZ 56x XL	536.9	13.1	565.1	57.7	576	116
METZ 57x	386.9	13.1	415.1	57.8	426	116
METZ 57x L	456.9	13.1	485.1	57.8	496	116
METZ 57x XL	536.9	13.1	565.1	57.8	576	116
METZ 55xx	386.2	13.8	414.1	57.9	424.5	116
METZ 55xx L	456.2	13.8	484.1	57.9	494.5	116
METZ 55xx XL	536.2	13.8	564.1	57.9	574.5	116

TCP dimensions with 15 mm stickout for torch heads at standard robotic applications with bracket DIX PHF 100 or DIX MEP 200

Torch head	A <sup>4</sup> 45°	B <sup>4</sup>	A <sup>5</sup> 22°	B <sup>5</sup>	A <sup>6</sup> 0°	B <sup>6</sup>
MET 35x	396.8	3.2	428.1	52.5	440	116
MET 39x	437.6	57.4	455.2	88.3	460.3	116
MET 32xx	396.8	3.2	428.5	52.5	444	116
MET 37xx	396.8	3.2	428.1	52.5	444	116
MET 39xx	437.6	57.4	455.1	88.3	464.3	116
METZ 52x	396.8	3.2	428.1	52.5	440	116
METZ 52x L	466.8	3.2	498.1	52.5	510	116
METZ 52x XL	546.8	3.2	578.1	52.5	590	116
METZ 58xx	466.4	52.7	485.5	86.7	491	116
METZ 58xx L	536.4	52.7	555.5	86.7	561	116
METZ 58xx XL	616.4	52.7	635.5	86.7	641	116
METZ 59x	437.6	57.4	455.1	88.3	460.3	116
METZ 59x L	507.6	57.4	525.1	88.3	530.3	116
METZ 59x XL	587.6	57.4	605.1	88.3	610.3	116
METZ 54x	396.8	3.2	428.1	52.5	440	116
METZ 54x L	466.8	3.2	498.1	52.5	510	116
METZ 54x XL	546.8	3.2	578.1	52.5	590	116
METZ 64xx	396.8	3.2	428.1	52.5	440	116
METZ 64xx L	466.8	3.2	498.1	52.5	510	116
METZ 64xx XL	546.8	3.2	578.1	52.5	590	116
METZ 56x	397.5	2.5	429	52.1	441	116
METZ 56x L	467.5	2.5	499	52.1	511	116
METZ 56x XL	547.5	2.5	579	52.1	591	116
METZ 57x	397.5	2.5	429	52.2	441	116
METZ 57x L	467.5	2.5	499	52.2	511	116
METZ 57x XL	547.5	2.5	579	52.2	591	116
METZ 55xx	396.8	3.2	428	52.3	439.5	116
METZ 55xx L	466.8	3.2	498	52.3	509.5	116
METZ 55xx XL	546.8	3.2	578	52.3	589.5	116

All length designation in mm.

MIG/MAG

PUSH + PUSH-PULL



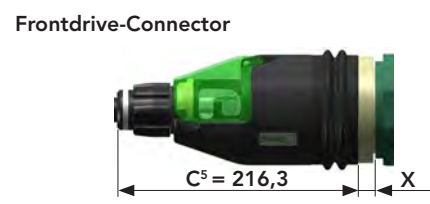
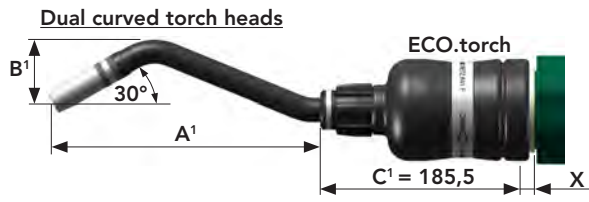
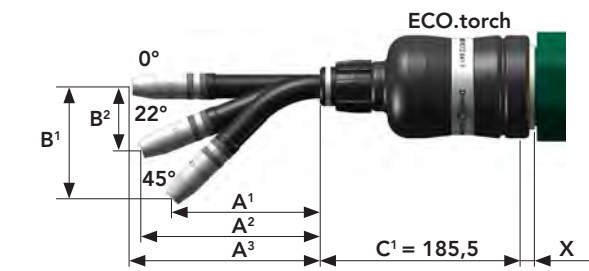




# TCP Dimensions torch heads MIG/MAG automation

## Hollow wrist robots

### ECO.torch, LITE.torch, T.Connector HW, Frontdrive-Connector



TCP dimensions for torch heads at hollow wrist robotic application with rotary interface  
ECO.torch, LITE.torch, T.Connector HW(D) or Frontdrive-Connector

Torch head	45°		22°		0°
	A¹	B¹	A²	B²	A³
MET 35x	141.2	102.2	169.1	57.9	180
METR 35x	176.7	102.2	204.6	57.9	215.5
MET 39x	182.0	47.4	196.2	21.3	200.3
METR 39x	217.5	47.4	231.7	21.3	235.8
MET 32xx	145.5	102.5	173.1	58.0	184.0
MET 37xx	145.5	102.5	173.1	58.0	184.0
MET 39xx	186.0	48.0	200.2	22.1	204.3
METZ 52x	141.2	102.2	169.1	57.9	180.0
METZ 52x L	211.2	102.2	239.1	57.9	250.0
METZ 52x XL	291.2	102.2	319.1	57.9	330.0
METZ 58xx	211.0	52.8	226.3	24.9	231.0
METZ 58xx L	281.0	52.8	296.3	24.9	301.0
METZ 58xx XL	361.0	52.8	376.3	24.9	381.0
METZ 59x	182.0	48.0	196.2	22.1	200.3
METZ 59x L	252.0	48.0	266.2	22.1	270.3
METZ 59x XL	332.0	48.0	346.2	22.1	350.3
METZ 54x	141.2	102.2	169.1	57.9	180.0
METZ 54x L	211.2	102.2	239.1	57.9	250.0
METZ 54x XL	291.2	102.2	319.1	57.9	330.0
METZ 64xx	141.2	102.2	169.1	57.9	180.0
METZ 64xx L	211.2	102.2	239.1	57.9	250.0
METZ 64xx XL	291.2	102.2	319.1	57.9	330.0
METZ 56x	141.9	102.9	170.1	58.2	181.0
METZ 56x L	231.9	102.9	240.1	58.2	251.0
METZ 56x XL	311.9	102.9	320.1	58.2	331.0
METZ 57x	141.9	102.9	170.1	58.2	181.0
METZ 57x L	231.9	102.9	240.1	58.2	251.0
METZ 57x XL	311.9	102.9	320.1	58.2	331.0
METZ 55xx	140.9	101.9	168.6	57.9	179.5
METZ 55xx L	210.9	101.9	238.6	57.9	249.5
METZ 55xx XL	290.9	101.9	318.6	57.9	329.5

Torch head	45°		22°		0°
	A¹	B¹	A²	B²	A³
<b>Dual curved torch heads</b>					
MET 358*	279.5	56.6			
MET 398*	279.5	43.4			
METZ 528*	244.0	57.3			
METZ 598*	244.0	43.4			
METZ 548*	244.0	61.9			
METZ 568*	244.0	70.4			
METZ 578*	244.0	60.8			

\*The center point of the sixth robot axis will be cut with a stickout of 15 mm.

● The TCP values result from:  
 $A^x + C^x + X \times B^x$   
 "C" dimensions up to the adapter flange.  
 X indicates the thickness of the adapter flange, which depends on the robot type.  
 Please refer to the X dimension tables for the value from page 26



# TCP-dimensions torch heads MIG/MAG automation (dimension X)

ADF(D) for SAS 100(200); ADFR for LITE.torch, ADFRD for ECO.torch, ADFL for T.Connector HW(D)(S)

1

MIG/MAG  
PUSH + PUSH-PULL

Robot manufacturer	Type of robot	Adapter flange	Dim. X
ABB	IRB 1200	DIX ADF 6002	5 mm
ABB	IRB 6	DIX ADF 6012	5 mm
ABB	IRB 140, center outside Ø 50	DIX ADF 6012	5 mm
ABB	IRB 1000	DIX ADF 6012	5 mm
ABB	IRB 1400, center outside Ø 50	DIX ADF 6012	5 mm
ABB	IRB 1410	DIX ADF 6012	5 mm
ABB	IRB 1500	DIX ADF 6012	5 mm
ABB	IRB 1600, center outside Ø 50	DIX ADF 6012	5 mm
ABB	IRB 2000	DIX ADF 6012	5 mm
ABB	IRB 2400/2400L	DIX ADF 6012	5 mm
ABB	IRB 2500	DIX ADF 6012	5 mm
ABB	IRB 6400	DIX ADF 6017	6 mm
ABB	IRB 6400 R	DIX ADF 6017	6 mm
ABB	IRB 640 M98	DIX ADF 6017	6 mm
ABB	IRB 2400/10	DIX ADF 6018	5 mm
ABB	IRB 2400/16	DIX ADF 6018	5 mm
ABB	IRB 2600	DIX ADF 6018	5 mm
ABB	IRB 2600-12/1,65	DIX ADF 6018	5 mm
ABB	IRB 2600-12/1,85	DIX ADF 6018	5 mm
ABB	IRB 2600-20/1,65	DIX ADF 6018	5 mm
ABB	IRB 4400/L10	DIX ADF 6018	5 mm
ABB	IRB 4600-20	DIX ADF 6018	5 mm
ABB	IRB 6640	DIX ADF 6035	5 mm
ABB	IRB 6600	DIX ADF 6035	5 mm
ABB	IRB 6700	DIX ADF 6035	5 mm
ABB	IRB 140, center inside Ø 25	DIX ADF 6042	5 mm
ABB	IRB 1400, center inside Ø 25	DIX ADF 6042	5 mm
ABB	IRB 1600, center inside Ø 25	DIX ADF 6042	5 mm
ABB	IRB 4400/45	DIX ADF 6086	5 mm
ABB	IRB 4400/60	DIX ADF 6086	5 mm
ABB	IRB 4400/L30	DIX ADF 6086	5 mm
ABB	IRB 4450/5	DIX ADF 6086	5 mm
ABB	IRB 4600-40	DIX ADF 6086	5 mm
ABB	IRB 4600-45	DIX ADF 6086	5 mm
ABB	IRB 4600-60	DIX ADF 6086	5 mm
ABB	IRB 1520 ID	DIX ADFR 6302	17.5 mm
ABB	IRB 1600 ID	DIX ADFR 6302	17.5 mm
ABB	IRB 1600 ID 4-155	DIX ADFR 6311	19.5 mm
ABB	IRB 1600 ID 6-155	DIX ADFR 6311	19.5 mm
ABB	IRB 1660 ID 6-155	DIX ADFR 6311	19.5 mm
ABB	IRB 2600 ID 15/1,85	DIX ADFR 6311	19.5 mm
ABB	IRB 2600 ID 8/2,00	DIX ADFR 6311	19.5 mm
ABB	IRB 1520 ID	DIX ADFRD 6302	22.5 mm
ABB	IRB 1600 ID	DIX ADFRD 6302	22.5 mm
ABB	IRB 1600 ID 4-155	DIX ADFRD 6311	19.5 mm
ABB	IRB 1600 ID 6-155	DIX ADFRD 6311	19.5 mm
ABB	IRB 1660 ID 6-155	DIX ADFRD 6311	19.5 mm
ABB	IRB 2600 ID 15/1,85	DIX ADFRD 6311	19.5 mm
ABB	IRB 2600 ID 8/2,00	DIX ADFRD 6311	19.5 mm
ABB	IRB 1520 ID	DIX ADFL 6302	25 mm
ABB	IRB 1600 ID	DIX ADFL 6302	25 mm
ABB	IRB 1600 ID 4-155	DIX ADFL 6311	22 mm
ABB	IRB 1600 ID 6-155	DIX ADFL 6311	22 mm
ABB	IRB 1660 ID 6-155	DIX ADFL 6311	22 mm
ABB	IRB 2600 ID 8/2,00	DIX ADFL 6311	22 mm
ABB	IRB 2600 ID 15/1,85	DIX ADFL 6311	22 mm
Arcman	RON mk II	DIX ADF 6316	5 mm
Cloos	Romat 56	DIX ADF 6031	5 mm
Cloos	Romat 75/76	DIX ADF 6032	5 mm
Cloos	Romat 310	DIX ADF 6033	5 mm
Cloos	Romat 320	DIX ADF 6033	5 mm
Cloos	Romat 350	DIX ADF 6033	5 mm
Cloos	Romat 410	DIX ADF 6033	5 mm
Cloos	QRC 350 E	DIX ADF 6033	5 mm
Comau	Smart 5 SIX 6 1.4	DIX ADF 6042	5 mm
Comau	Smart S4	DIX ADF 6221	5 mm
Comau	Smart NS 12-1.85 ARC	DIX ADF 6221	5 mm

Robot manufacturer	Type of robot	Adapter flange	Dim. X
Comau	Smart NS 16-1.65 ARC	DIX ADF 6221	5 mm
Comau	Smart NM 16-3.1	DIX ADF 6221	5 mm
Commercy	CY 906/2006	DIX ADF 6113	5 mm
CRP	RH-14-10-W	DIX ADFR 6303	14.5 mm
CRP	RH-14-10-W	DIX ADFRD 6303	14.5 mm
CRP	RH-14-10-W	DIX ADFL 6303	17 mm
Fanuc	50il	DIX ADF 6002	5 mm
Fanuc	ARC Mate 0iA	DIX ADF 6002	5 mm
Fanuc	ARC Mate 0iB	DIX ADF 6002	5 mm
Fanuc	LR Mate 200 IC	DIX ADF 6002	5 mm
Fanuc	LR Mate 200 iB	DIX ADF 6002	5 mm
Fanuc	LR Mate 200 iB/3L	DIX ADF 6002	5 mm
Fanuc	LR Mate 200 iD/7L	DIX ADF 6002	5 mm
Fanuc	ARC Mate 100i	DIX ADF 6012	5 mm
Fanuc	120il	DIX ADF 6012	5 mm
Fanuc	100	DIX ADF 6012	5 mm
Fanuc	100 RJ 3	DIX ADF 6012	5 mm
Fanuc	RJ2S12	DIX ADF 6012	5 mm
Fanuc	M-710iC/20L*	DIX ADF 6012	5 mm
Fanuc	S 500 iB*	DIX ADF 6012	5 mm
Fanuc	R 2000iA 165 F/R/L	DIX ADF 6017	6 mm
Fanuc	R 2000iA 125L	DIX ADF 6017	6 mm
Fanuc	R 2000iA 210 F/R/L	DIX ADF 6017	6 mm
Fanuc	ARC Mate 100 iC	DIX ADF 6024	5 mm
Fanuc	ARC Mate 100 iC/6L	DIX ADF 6024	5 mm
Fanuc	ARC Mate 120 iC	DIX ADF 6024	5 mm
Fanuc	ARC Mate 120 iC/10L	DIX ADF 6024	5 mm
Fanuc	100 RJ 3 iC	DIX ADF 6024	5 mm
Fanuc	M10 iA/10S	DIX ADF 6024	5 mm
Fanuc	M20 iA	DIX ADF 6024	5 mm
Fanuc	100 RJ 3	DIX ADF 6042	5 mm
Fanuc	ARC Mate 100 iB	DIX ADF 6042	5 mm
Fanuc	ARC Mate 120 iB	DIX ADF 6042	5 mm
Fanuc	M-6iB/2 HS	DIX ADF 6042	5 mm
Fanuc	M 16 iB	DIX ADF 6042	5 mm
Fanuc	100/M-6	DIX ADF 6042	5 mm
Fanuc	S500	DIX ADF 6150	5 mm
Fanuc	710iC/12L	DIX ADFR 6303	14.5 mm
Fanuc	ARC Mate 100iC	DIX ADFR 6303	14.5 mm
Fanuc	ARC Mate 100iC/6L	DIX ADFR 6303	14.5 mm
Fanuc	ARC Mate 100iC/7L	DIX ADFR 6303	14.5 mm
Fanuc	ARC Mate 100iC/8L	DIX ADFR 6303	14.5 mm
Fanuc	ARC Mate 100iC/12	DIX ADFR 6303	14.5 mm
Fanuc	ARC Mate 100iC/12S	DIX ADFR 6303	14.5 mm
Fanuc	ARC Mate 120iC	DIX ADFR 6303	14.5 mm
Fanuc	ARC Mate 120iC/10L	DIX ADFR 6303	14.5 mm
Fanuc	ARC Mate 120iC/12L	DIX ADFR 6303	14.5 mm
Fanuc	M 10 iA	DIX ADFR 6303	14.5 mm
Fanuc	M 10 iA/8L	DIX ADFR 6303	14.5 mm
Fanuc	M 10 iA/12S	DIX ADFR 6303	14.5 mm
Fanuc	M 20 iA	DIX ADFR 6303	14.5 mm
Fanuc	Am100iD/8L	DIX ADFR 6307	14.5 mm
Fanuc	ARC Mate 100iD	DIX ADFR 6307	14.5 mm
Fanuc	ARC Mate 100iD/10L	DIX ADFR 6307	14.5 mm
Fanuc	M-10iD	DIX ADFR 6307	14.5 mm
Fanuc	M-10iD/12	DIX ADFR 6307	14.5 mm
Fanuc	ARC Mate 100iB For Solution Arm	DIX ADFR 6310	8.5 mm
Fanuc	ARC Mate 100iBe For Solution Arm	DIX ADFR 6310	8.5 mm
Fanuc	ARC Mate 120iB For Solution Arm	DIX ADFR 6310	8.5 mm
Fanuc	ARC Mate 120iBe For Solution Arm	DIX ADFR 6310	8.5 mm
Fanuc	710iC/12L	DIX ADFRD 6303	14.5 mm
Fanuc	ARC Mate 100iC	DIX ADFRD 6303	14.5 mm
Fanuc	ARC Mate 100iC/6L	DIX ADFRD 6303	14.5 mm
Fanuc	ARC Mate 100iC/7L	DIX ADFRD 6303	14.5 mm
Fanuc	ARC Mate 100iC/8L	DIX ADFRD 6303	14.5 mm
Fanuc	ARC Mate 100iC/12	DIX ADFRD 6303	14.5 mm
Fanuc	ARC Mate 100iC/12S	DIX ADFRD 6303	14.5 mm
Fanuc	ARC Mate 120iC	DIX ADFRD 6303	14.5 mm
Fanuc	ARC Mate 120iC/10L	DIX ADFRD 6303	14.5 mm



# TCP-dimensions torch heads MIG/MAG automation (dimension X)

ADF(D) for SAS 100(200); ADFR for LITE.torch, ADFRD for ECO.torch, ADFL for T.Connector HW(D)(S)



MIG/MAG  
PUSH + PUSH-PULL



Robot manufacturer	Type of robot	Adapter flange	Dim. X
Fanuc	ARC Mate 120iC/12L	DIX ADFRD 6303	14.5 mm
Fanuc	710iC/12L (HW)	DIX ADFRD 6303	14.5 mm
Fanuc	M 10 iA	DIX ADFRD 6303	14.5 mm
Fanuc	M 10 iA/8L	DIX ADFRD 6303	14.5 mm
Fanuc	M 10 iA/12S	DIX ADFRD 6303	14.5 mm
Fanuc	M 20 iA	DIX ADFRD 6303	14.5 mm
Fanuc	AM100iD/8L	DIX ADFRD 6307	14.5 mm
Fanuc	ARC Mate 100iD	DIX ADFRD 6307	14.5 mm
Fanuc	ARC Mate 100iD/10L	DIX ADFRD 6307	14.5 mm
Fanuc	M-10iD	DIX ADFRD 6307	14.5 mm
Fanuc	M-10iD/12	DIX ADFRD 6307	14.5 mm
Fanuc	710iC/12L	DIX ADFL 6303	17 mm
Fanuc	ARC Mate 100iC	DIX ADFL 6303	17 mm
Fanuc	ARC Mate 100iC/6L	DIX ADFL 6303	17 mm
Fanuc	ARC Mate 100iC/7L	DIX ADFL 6303	17 mm
Fanuc	ARC Mate 100iC/8L	DIX ADFL 6303	17 mm
Fanuc	ARC Mate 100iC/12	DIX ADFL 6303	17 mm
Fanuc	ARC Mate 100iC/12S	DIX ADFL 6303	17 mm
Fanuc	ARC Mate 120iC	DIX ADFL 6303	17 mm
Fanuc	ARC Mate 120iC/10L	DIX ADFL 6303	17 mm
Fanuc	ARC Mate 120iC/12L	DIX ADFL 6303	17 mm
Fanuc	710iC/12L (HW)	DIX ADFL 6303	17 mm
Fanuc	M 10 iA	DIX ADFL 6303	17 mm
Fanuc	M 10 iA/8L	DIX ADFL 6303	17 mm
Fanuc	M 10 iA/12S	DIX ADFL 6303	17 mm
Fanuc	M 20 iA	DIX ADFL 6303	17 mm
Fanuc	AM100iD/8L	DIX ADFL 6307	17 mm
Fanuc	ARC Mate 100iD	DIX ADFL 6307	17 mm
Fanuc	ARC Mate 100iD/10L	DIX ADFL 6307	17 mm
Fanuc	M-10iD	DIX ADFL 6307	17 mm
Fanuc	M-10iD/12	DIX ADFL 6307	17 mm
Hitachi	M6100	DIX ADF 6025	5 mm
Hitachi	MR 6060	DIX ADF 6042	5 mm
Hyundai	HA006L	DIX ADF 6012	5 mm
Hyundai	HA006	DIX ADF 6028	5 mm
Hyundai	HH020	DIX ADF 6028	5 mm
Hyundai	HR006/015	DIX ADF 6028	5 mm
Hyundai	010L/030L/050	DIX ADF 6028	5 mm
Kawasaki	RS 30N	DIX ADFD 6037	10 mm
Kawasaki	RS 50N	DIX ADFD 6037	10 mm
Kawasaki	FA 06 E	DIX ADF 6042	5 mm
Kawasaki	FS 06	DIX ADF 6042	5 mm
Kawasaki	JS 6	DIX ADF 6042	5 mm
Kawasaki	JS 10	DIX ADF 6042	5 mm
Kawasaki	RA006L(FE40)	DIX ADF 6042	5 mm
Kawasaki	RA010N / RS010N	DIX ADF 6042	5 mm
Kawasaki	RS06L	DIX ADF 6042	5 mm
Kawasaki	FA 10 L	DIX ADF 6221	5 mm
Kawasaki	RA010L	DIX ADF 6221	5 mm
Kawasaki	RA020N	DIX ADF 6221	5 mm
Kawasaki	RS010L	DIX ADF 6221	5 mm
Kawasaki	RS015X	DIX ADF 6221	5 mm
Kawasaki	RS 20N	DIX ADF 6221	5 mm
Kawasaki	BA006L	DIX ADFR 6313	14.5 mm
Kawasaki	BA006N	DIX ADFR 6313	14.5 mm
Kawasaki	BA006L	DIX ADFRD 6313	14.5 mm
Kawasaki	BA006N	DIX ADFRD 6313	14.5 mm
Kawasaki	BA006L	DIX ADFL 6313	17 mm
Kawasaki	BA006N	DIX ADFL 6313	17 mm
Kobelco	S4	DIX ADF 6316	5 mm
Kobelco	S5	DIX ADF 6316	5 mm
Kobelco	S6	DIX ADF 6316	5 mm
Kuka	KR 5 R1400	DIX ADF 6002	5 mm
Kuka	KR 6 R700	DIX ADF 6002	5 mm
Kuka	KR 6 R900 sixx	DIX ADF 6002	5 mm
Kuka	KR 6 R1820	DIX ADF 6002	5 mm
Kuka	KR 8 R1620	DIX ADF 6002	5 mm
Kuka	KR 10 R900-2	DIX ADF 6002	5 mm
Kuka	KR 10 R1100 sixx	DIX ADF 6002	5 mm
Kuka	KR 10 R1420	DIX ADF 6002	5 mm

Robot manufacturer	Type of robot	Adapter flange	Dim. X
Kuka	KR 10 R1440-2	DIX ADF 6002	5 mm
Kuka	KR 16-2 For In-line wrist 6 kg	DIX ADF 6012	5 mm
Kuka	KR 120 R3100-2	DIX ADF 6017	6 mm
Kuka	KR 120 R3900 ultra	DIX ADF 6017	6 mm
Kuka	KR 210 R2700 extra	DIX ADF 6017	6 mm
Kuka	KR 210 R3300 K ultra	DIX ADF 6017	6 mm
Kuka	KR 240 R3100 K ultra	DIX ADF 6017	6 mm
Kuka	KR 270 R2900 K ultra	DIX ADF 6017	6 mm
Kuka	KR 16 arc HW	DIX ADF 6026	5 mm
Kuka	KR 5	DIX ADF 6029	5 mm
Kuka	KR 5 ARC HW	DIX ADF 6029	5 mm
Kuka	KR 8 R1420 HW	DIX ADF 6029	5 mm
Kuka	KR 8 R2100	DIX ADF 6029	5 mm
Kuka	KR 16 L8 arc HW	DIX ADF 6029	5 mm
Kuka	KR 5 ARC	DIX ADF 6042	5 mm
Kuka	KR 6 ARC	DIX ADF 6042	5 mm
Kuka	KR 16-L6 ARC	DIX ADF 6042	5 mm
Kuka	KR 6	DIX ADF 6042	5 mm
Kuka	KR 6-2 For In-line wrist 6 kg	DIX ADF 6042	5 mm
Kuka	KR 16-2 For In-line wrist 6 kg	DIX ADF 6042	5 mm
Kuka	KR 16-2 For In-line wrist 16 kg	DIX ADF 6084	5 mm
Kuka	KR 6-2	DIX ADF 6084	5 mm
Kuka	KR 8 R2010-2	DIX ADF 6084	5 mm
Kuka	KR 12 R1810-2	DIX ADF 6084	5 mm
Kuka	KR 15-2	DIX ADF 6084	5 mm
Kuka	KR 15 L6/2	DIX ADF 6084	5 mm
Kuka	KR 16	DIX ADF 6084	5 mm
Kuka	KR 16 L	DIX ADF 6084	5 mm
Kuka	KR 16 R2010	DIX ADF 6084	5 mm
Kuka	KR 20 R1810	DIX ADF 6084	5 mm
Kuka	KR 20 R1810F	DIX ADF 6084	5 mm
Kuka	KR 22 R1610	DIX ADF 6084	5 mm
Kuka	KR 22 R1610-2	DIX ADF 6084	5 mm
Kuka	KR 30L16	DIX ADF 6084	5 mm
Kuka	KR IR 364/8	DIX ADF 6084	5 mm
Kuka	KR 125-2	DIX ADF 6085	24 mm
Kuka	KR 125-3	DIX ADF 6085	24 mm
Kuka	KR 125 L90-2	DIX ADF 6085	24 mm
Kuka	KR 125 L 100-2	DIX ADF 6085	24 mm
Kuka	KR 150-2	DIX ADF 6085	24 mm
Kuka	KR 150 L 110-2	DIX ADF 6085	24 mm
Kuka	KR 150 L 130-2	DIX ADF 6085	24 mm
Kuka	KR 180-2	DIX ADF 6085	24 mm
Kuka	KR 180 L150-2	DIX ADF 6085	24 mm
Kuka	KR 180 L130-2	DIX ADF 6085	24 mm
Kuka	KR 200 L140	DIX ADF 6085	24 mm
Kuka	KR 210-2	DIX ADF 6085	24 mm
Kuka	KR 210 L180-2	DIX ADF 6085	24 mm
Kuka	KR 210 L150-2	DIX ADF 6085	24 mm
Kuka	KR 210 R3100 ultra	DIX ADF 6085	24 mm
Kuka	KR 240-2	DIX ADF 6085	24 mm
Kuka	KR 240 L210-2	DIX ADF 6085	24 mm
Kuka	KR 240 L180-2	DIX ADF 6085	24 mm
Kuka	KR 240 R2900 ultra	DIX ADF 6085	24 mm
Kuka	KR 270 R2700 ultra	DIX ADF 6085	24 mm
Kuka	KR 300 R2500 ultra	DIX ADF 6085	24 mm
Kuka	KR 30/2	DIX ADF 6086	5 mm
Kuka	KR 30-3	DIX ADF 6086	5 mm
Kuka	KR 60-3	DIX ADF 6086	5 mm
Kuka	KR 30 HA	DIX ADF 6086	5 mm
Kuka	KR 60 HA	DIX ADF 6086	5 mm
Kuka	KR 60 L45-3	DIX ADF 6086	5 mm
Kuka	KR 60 L30-3	DIX ADF 6086	5 mm
Kuka	KR 60 L45 HA	DIX ADF 6086	5 mm
Kuka	KR 60 L30 HA	DIX ADF 6086	5 mm
Kuka	KR 16/2 For In-line wrist 16 kg	DIX ADF 6103	5 mm
Kuka	KR 5 arc HW	DIX ADFR 6304	14.5 mm
Kuka	KR 6 R1820 arc HW	DIX ADFR 6304	14.5 mm
Kuka	KR 8 R1420 arc HW	DIX ADFR 6304	14.5 mm
Kuka	KR 8 R1620 arc HW	DIX ADFR 6304	14.5 mm



# TCP-dimensions torch heads MIG/MAG automation (dimension X)

ADF(D) for SAS 100(200); ADFR for LITE.torch, ADFRD for ECO.torch, ADFL for T.Connector HW(D)(S)

Robot manufacturer	Type of robot	Adapter flange	Dim. X
Kuka	KR 8 R2100 arc HW	DIX ADFR 6304	14.5 mm
Kuka	KR 16 L8 arc HW	DIX ADFR 6304	14.5 mm
Kuka	KR 5 arc HW	DIX ADFRD 6304	14.5 mm
Kuka	KR 6 R1820 arc HW	DIX ADFRD 6304	14.5 mm
Kuka	KR 8 R1420 arc HW	DIX ADFRD 6304	14.5 mm
Kuka	KR 8 R1620 arc HW	DIX ADFRD 6304	14.5 mm
Kuka	KR 8 R2100 arc HW	DIX ADFRD 6304	14.5 mm
Kuka	KR 16 L8 arc HW	DIX ADFRD 6304	14.5 mm
Kuka	KR 16 arc HW	DIX ADFRD 6305	14.5 mm
Kuka	KR 5 arc HW	DIX ADFL 6304	17 mm
Kuka	KR 6 R1820 arc HW	DIX ADFL 6304	17 mm
Kuka	KR 8 R1420 arc HW	DIX ADFL 6304	17 mm
Kuka	KR 8 R1620 arc HW	DIX ADFL 6304	17 mm
Kuka	KR 8 R2100 arc HW	DIX ADFL 6304	17 mm
Kuka	KR 16 L8 arc HW	DIX ADFL 6304	17 mm
Kuka	KR 16 arc HW	DIX ADFL 6305	17 mm
Manutec	R3	DIX ADF 6070	5 mm
Manutec	R15	DIX ADF 6070	5 mm
Manutec	R15 D	DIX ADF 6070	5 mm
Mitsubishi	RV 12 S	DIX ADF 6042	5 mm
Mitsubishi	RV 12 SL	DIX ADF 6042	5 mm
Nachi	MC 20	DIX ADF 6012	5 mm
Nachi	NV 6	DIX ADF 6012	5 mm
OTC Daihen	FD-V6	DIX ADF 6012	5 mm
OTC Daihen	FD-V8L	DIX ADF 6012	5 mm
OTC Daihen	V 01	DIX ADF 6012	5 mm
OTC Daihen	V 6	DIX ADF 6012	5 mm
OTC Daihen	V 10	DIX ADF 6012	5 mm
OTC Daihen	AX M H3	DIX ADF 6012	5 mm
OTC Daihen	V 6L	DIX ADF 6012	5 mm
OTC Daihen	AX V6	DIX ADF 6012	5 mm
OTC Daihen	A2 V6	DIX ADF 6012	5 mm
OTC Daihen	FD-V20	DIX ADF 6042	5 mm
OTC Daihen	IRB 471	DIX ADF 6089	5 mm
OTC Daihen	G01 SAF	DIX ADF 6094	5 mm
OTC Daihen	6800/IRB 481	DIX ADF 6094	5 mm
OTC Daihen	AX-V4 AP	DIX ADFR 6301	8.5 mm
OTC Daihen	AX-V4 LAP	DIX ADFR 6301	8.5 mm
OTC Daihen	AII-B4	DIX ADFR 6306	8.5 mm
OTC Daihen	AII-B4L	DIX ADFR 6306	8.5 mm
OTC Daihen	AX-V4	DIX ADFR 6306	8.5 mm
OTC Daihen	AX-V4L	DIX ADFR 6306	8.5 mm
OTC Daihen	FD-4L	DIX ADFR 6306	8.5 mm
OTC Daihen	FD-B4LS	DIX ADFR 6306	8.5 mm
OTC Daihen	FD-B4s	DIX ADFR 6306	8.5 mm
OTC Daihen	FD-B4 Bore pattern 45° rotated	DIX ADFR 6306/1	8.5 mm
OTC Daihen	FD-B4L Bore pattern 45° rotated	DIX ADFR 6306/1	8.5 mm
OTC Daihen	AII-B4	DIX ADFRD 6306	13.5 mm
OTC Daihen	AII-B4L	DIX ADFRD 6306	13.5 mm
OTC Daihen	AX-V4	DIX ADFRD 6306	13.5 mm
OTC Daihen	AX-V4L	DIX ADFRD 6306	13.5 mm
OTC Daihen	FD-4L	DIX ADFRD 6306	13.5 mm
OTC Daihen	FD-B4LS	DIX ADFRD 6306	13.5 mm
OTC Daihen	FD-B4s	DIX ADFRD 6306	13.5 mm
OTC Daihen	FD-B4 Bore pattern 45° rotated	DIX ADFRD 6306/1	13.5 mm
OTC Daihen	FD-B4L Bore pattern 45° rotated	DIX ADFRD 6306/1	13.5 mm
OTC Daihen	FD-B6	DIX ADFRD 6315	23.5 mm
OTC Daihen	FD-B6L	DIX ADFRD 6315	23.5 mm
OTC Daihen	AII-B4	DIX ADFL 6306	13.2 mm
OTC Daihen	AII-B4L	DIX ADFL 6306	13.2 mm
OTC Daihen	AX-V4	DIX ADFL 6306	13.2 mm
OTC Daihen	AX-V4L	DIX ADFL 6306	13.2 mm
OTC Daihen	FD-4L	DIX ADFL 6306	13.2 mm
OTC Daihen	FD-B4LS	DIX ADFL 6306	13.2 mm
OTC Daihen	FD-B4s	DIX ADFL 6306	13.2 mm
OTC Daihen	FD-B4 Bore pattern 45° rotated	DIX ADFL 6306/1	13.2 mm
OTC Daihen	FD-B4L Bore pattern 45° rotated	DIX ADFL 6306/1	13.2 mm

Robot manufacturer	Type of robot	Adapter flange	Dim. X
OTC Daihen	FD-B6	DIX ADFL 6315	23.5 mm
OTC Daihen	FD-B6L	DIX ADFL 6315	23.5 mm
Panasonic	AW 550	DIX ADF 6160	5 mm
Panasonic	AW 0660	DIX ADF 6160	5 mm
Panasonic	AW 8010	DIX ADF 6160	5 mm
Panasonic	VR 006AL 1; 2	DIX ADF 6161	5 mm
Panasonic	VR 008	DIX ADF 6161	5 mm
Panasonic	TA 1400	DIX ADF 6161	5 mm
Panasonic	TA 1600	DIX ADF 6161	5 mm
Panasonic	TA 1800	DIX ADF 6161	5 mm
Panasonic	TA 1900	DIX ADF 6161	5 mm
Panasonic	TB 1800	DIX ADF 6161	5 mm
Panasonic	TL 2000	DIX ADF 6161	5 mm
Panasonic	TM 1100	DIX ADFD 6312	11.5 mm
Panasonic	TM 1400	DIX ADFD 6312	11.5 mm
Panasonic	TM 1800	DIX ADFD 6312	11.5 mm
Panasonic	TB 1800	DIX ADFR 6309	20 mm
Panasonic	TM 1100	DIX ADFR 6312	24.5 mm
Panasonic	TM 1400	DIX ADFR 6312	24.5 mm
Panasonic	TM 1600 WG III	DIX ADFR 6312	24.5 mm
Panasonic	TM 1800	DIX ADFR 6312	24.5 mm
Panasonic	TM 2000	DIX ADFR 6312	24.5 mm
Panasonic	TB 1800	DIX ADFRD 6309	20 mm
Panasonic	TM 1100	DIX ADFRD 6312	24.5 mm
Panasonic	TM 1400	DIX ADFRD 6312	24.5 mm
Panasonic	TM 1600 WG III	DIX ADFRD 6312	24.5 mm
Panasonic	TM 1800	DIX ADFRD 6312	24.5 mm
Panasonic	TM 2000	DIX ADFRD 6312	24.5 mm
Reis	RV40	DIX ADF 6086	5 mm
Reis	RV40S	DIX ADF 6086	5 mm
Reis	RV40XL	DIX ADF 6086	5 mm
Reis	RVL40	DIX ADF 6086	5 mm
Reis	RV60	DIX ADF 6086	5 mm
Reis	RVL60	DIX ADF 6086	5 mm
Reis	RV60L	DIX ADF 6086	5 mm
Reis	RVL60L	DIX ADF 6086	5 mm
Reis	RV60LS	DIX ADF 6086	5 mm
Reis	RH40	DIX ADF 6086	5 mm
Reis	RP40	DIX ADF 6086	5 mm
Reis	RP80	DIX ADF 6086	5 mm
Reis	RP150	DIX ADF 6086	5 mm
Reis	RL50-A4NC	DIX ADF 6086	5 mm
Reis	RL50-A5NC	DIX ADF 6086	5 mm
Reis	RL80-A4NC	DIX ADF 6086	5 mm
Reis	RL80-A5NC	DIX ADF 6086	5 mm
Reis	RL80-A5NC+A6NC	DIX ADF 6086	5 mm
Reis	RL130-A5NC+A6NC	DIX ADF 6086	5 mm
Reis	RV 6	DIX ADF 6103	5 mm
Reis	RV 6L	DIX ADF 6103	5 mm
Reis	RV 10-6	DIX ADF 6103	5 mm
Reis	RV 20-6	DIX ADF 6103	5 mm
Reis	SRV 6L	DIX ADF 6103	5 mm
Reis	RV20-6HW	DIX ADF 6106	5 mm
Reis	RV20-10HW	DIX ADF 6106	5 mm
Reis	RV30-10HW	DIX ADF 6106	5 mm
Reis	RV 12	DIX ADF 6221	5 mm
Reis	RV 12L	DIX ADF 6221	5 mm
Reis	RV 15	DIX ADF 6221	5 mm
Reis	RV 16	DIX ADF 6221	5 mm
Reis	RV 20-16	DIX ADF 6221	5 mm
Reis	RV 30-16	DIX ADF 6221	5 mm
Reis	RV20-6HW	DIX ADFR 6308	14.5 mm
Reis	RV20-10HW	DIX ADFR 6308	14.5 mm
Reis	RV30-10HW	DIX ADFR 6308	14.5 mm
Reis	RV20-6HW	DIX ADFRD 6308	14.5 mm
Reis	RV20-10HW	DIX ADFRD 6308	14.5 mm

MIG/MAG PUSH + PUSH-PULL



# TCP-dimensions torch heads MIG/MAG automation (dimension X)

ADF(D) for SAS 100(200); ADFR for LITE.torch, ADFRD for ECO.torch, ADFL for T.Connector HW(D)(S)



Robot manufacturer	Type of robot	Adapter flange	Dim. X
Reis	RV30-10HW	DIX ADFRD 6308	14.5 mm
Reis	RV20-6HW	DIX ADFL 6308	17 mm
Reis	RV20-10HW	DIX ADFL 6308	17 mm
Reis	RV30-10HW	DIX ADFL 6308	17 mm
SEF	SR25/A2	DIX ADF 6221	5 mm
Stäubli	TX 60	DIX ADF 6002	5 mm
Stäubli	TX 60L	DIX ADF 6002	5 mm
Stäubli	TX 90	DIX ADF 6103	5 mm
Stäubli	TX 90L	DIX ADF 6103	5 mm
Stäubli	TX 90XL	DIX ADF 6103	5 mm
Universal	UR-3	DIX ADF 6103	5 mm
Universal	UR-10	DIX ADF 6103	5 mm
Yaskawa Motoman	HP 3 C	DIX ADF 6002	5 mm
Yaskawa Motoman	HP 3 J	DIX ADF 6002	5 mm
Yaskawa Motoman	HP 5	DIX ADF 6002	5 mm
Yaskawa Motoman	MH 5	DIX ADF 6002	5 mm
Yaskawa Motoman	MH 12F	DIX ADF 6024	5 mm
Yaskawa Motoman	ES 165	DIX ADF 6036	5 mm
Yaskawa Motoman	L 106	DIX ADF 6040	5 mm
Yaskawa Motoman	YRFL-NN D10G	DIX ADF 6040	5 mm
Yaskawa Motoman	K 6S	DIX ADF 6042	5 mm
Yaskawa Motoman	K 10S	DIX ADF 6042	5 mm
Yaskawa Motoman	K 20SS	DIX ADF 6042	5 mm
Yaskawa Motoman	SRC 6	DIX ADF 6042	5 mm
Yaskawa Motoman	JS 6	DIX ADF 6042	5 mm
Yaskawa Motoman	3S 10	DIX ADF 6042	5 mm
Yaskawa Motoman	SK 6	DIX ADF 6042	5 mm
Yaskawa Motoman	SK 10	DIX ADF 6042	5 mm
Yaskawa Motoman	SK 16 (X)	DIX ADF 6042	5 mm
Yaskawa Motoman	HP20/UP 20	DIX ADF 6042	5 mm
Yaskawa Motoman	HP 6 UP 6	DIX ADF 6042	5 mm
Yaskawa Motoman	HP 50-20	DIX ADF 6042	5 mm
Yaskawa Motoman	YRUP 20-A00	DIX ADF 6042	5 mm
Yaskawa Motoman	YRUP 50N-A00	DIX ADF 6042	5 mm
Yaskawa Motoman	MH6	DIX ADF 6042	5 mm
Yaskawa Motoman	MH50-20	DIX ADF 6042	5 mm
Yaskawa Motoman	Bore pattern 35° rotated	DIX ADF 6042/1	5 mm
Yaskawa Motoman	EA 1400N	DIX ADF 6047	5 mm
Yaskawa Motoman	EA 1800N	DIX ADF 6047	5 mm
Yaskawa Motoman	EA 1900N	DIX ADF 6047	5 mm
Yaskawa Motoman	MA 1400	DIX ADF 6047	5 mm
Yaskawa Motoman	MA 1800	DIX ADF 6047	5 mm
Yaskawa Motoman	MA 1900	DIX ADF 6047	5 mm
Yaskawa Motoman	MA 3100	DIX ADF 6047	5 mm
Yaskawa Motoman	DX 100	DIX ADF 6047	5 mm
Yaskawa Motoman	GP7	DIX ADF 6112	5 mm
Yaskawa Motoman	MH5LS II	DIX ADF 6112	5 mm
Yaskawa Motoman	MH5S II	DIX ADF 6112	5 mm
Yaskawa Motoman	HC10-B10-EM	DIX ADF 6221	5 mm
Yaskawa Motoman	HC10-B12	DIX ADF 6221	5 mm
Yaskawa Motoman	HC10-DT-IP-67	DIX ADF 6221	5 mm
Yaskawa Motoman	HC10-F13	DIX ADF 6221	5 mm
Yaskawa Motoman	EH80	DIX ADF 6314	5 mm
Yaskawa Motoman	UP50N-35	DIX ADF 6314	5 mm
Yaskawa Motoman	HC10	DIX ADF 6318	5 mm
Yaskawa Motoman	HC10 A00	DIX ADF 6318	5 mm
Yaskawa Motoman	HC10-DT	DIX ADF 6319	5 mm
Yaskawa Motoman	MH50-35II	DIX ADFD 6037	10 mm
Yaskawa Motoman	EA 1400 N	DIX ADFR 6300	7.5 m
Yaskawa Motoman	EA 1800 N	DIX ADFR 6300	7.5 m
Yaskawa Motoman	EA 1900 N	DIX ADFR 6300	7.5 m
Yaskawa Motoman	MA 1400	DIX ADFR 6300	7.5 m
Yaskawa Motoman	MA 1550	DIX ADFR 6300	7.5 m
Yaskawa Motoman	MA 1800 N	DIX ADFR 6300	7.5 m
Yaskawa Motoman	MA 1900 N	DIX ADFR 6300	7.5 m
Yaskawa Motoman	MA 3100	DIX ADFR 6300	7.5 m
Yaskawa Motoman	SSA 2000	DIX ADFR 6300	7.5 m
Yaskawa Motoman	VA 1400	DIX ADFR 6300	7.5 m
Yaskawa Motoman	AR 2010	DIX ADFR 6303	14.5 mm
Yaskawa Motoman	AR 3210	DIX ADFR 6303	14.5 mm

Robot manufacturer	Type of robot	Adapter flange	Dim. X
Yaskawa Motoman	GP12	DIX ADFR 6303	14.5 mm
Yaskawa Motoman	GP20HL	DIX ADFR 6303	14.5 mm
Yaskawa Motoman	MA 1440	DIX ADFR 6303	14.5 mm
Yaskawa Motoman	MA 2010	DIX ADFR 6303	14.5 mm
Yaskawa Motoman	MA 3120	DIX ADFR 6303	14.5 mm
Yaskawa Motoman	MH12	DIX ADFR 6303	14.5 mm
Yaskawa Motoman	MH24	DIX ADFR 6303	14.5 mm
Yaskawa Motoman	EA 1400 N	DIX ADFRD 6300	12.5 mm
Yaskawa Motoman	EA 1800 N	DIX ADFRD 6300	12.5 mm
Yaskawa Motoman	EA 1900 N	DIX ADFRD 6300	12.5 mm
Yaskawa Motoman	MA 1400	DIX ADFRD 6300	12.5 mm
Yaskawa Motoman	MA 1550	DIX ADFRD 6300	12.5 mm
Yaskawa Motoman	MA 1800 N	DIX ADFRD 6300	12.5 mm
Yaskawa Motoman	MA 1900 N	DIX ADFRD 6300	12.5 mm
Yaskawa Motoman	MA 3100	DIX ADFRD 6300	12.5 mm
Yaskawa Motoman	SSA 2000	DIX ADFRD 6300	12.5 mm
Yaskawa Motoman	VA 1400	DIX ADFRD 6300	12.5 mm
Yaskawa Motoman	AR 2010	DIX ADFRD 6303	14.5 mm
Yaskawa Motoman	AR 3210	DIX ADFRD 6303	14.5 mm
Yaskawa Motoman	GP12	DIX ADFRD 6303	14.5 mm
Yaskawa Motoman	GP20HL	DIX ADFRD 6303	14.5 mm
Yaskawa Motoman	MA 1440	DIX ADFRD 6303	14.5 mm
Yaskawa Motoman	MA 2010	DIX ADFRD 6303	14.5 mm
Yaskawa Motoman	MA 3120	DIX ADFRD 6303	14.5 mm
Yaskawa Motoman	MH12	DIX ADFRD 6303	14.5 mm
Yaskawa Motoman	MH24	DIX ADFRD 6303	14.5 mm
Yaskawa Motoman	EA 1400 N	DIX ADFL 6300	13 mm
Yaskawa Motoman	EA 1800 N	DIX ADFL 6300	13 mm
Yaskawa Motoman	EA 1900 N	DIX ADFL 6300	13 mm
Yaskawa Motoman	MA 1400	DIX ADFL 6300	13 mm
Yaskawa Motoman	MA 1550	DIX ADFL 6300	13 mm
Yaskawa Motoman	MA 1800 N	DIX ADFL 6300	13 mm
Yaskawa Motoman	MA 1900 N	DIX ADFL 6300	13 mm
Yaskawa Motoman	MA 3100	DIX ADFL 6300	13 mm
Yaskawa Motoman	SSA 2000	DIX ADFL 6300	13 mm
Yaskawa Motoman	VA 1400	DIX ADFL 6300	13 mm
Yaskawa Motoman	AR 2010	DIX ADFL 6303	17 mm
Yaskawa Motoman	AR 3210	DIX ADFL 6303	17 mm
Yaskawa Motoman	GP12	DIX ADFL 6303	17 mm
Yaskawa Motoman	GP20HL	DIX ADFL 6303	17 mm
Yaskawa Motoman	MA 1440	DIX ADFL 6303	17 mm
Yaskawa Motoman	MA 2010	DIX ADFL 6303	17 mm
Yaskawa Motoman	MA 3120	DIX ADFL 6303	17 mm
Yaskawa Motoman	MH12	DIX ADFL 6303	17 mm
Yaskawa Motoman	MH24	DIX ADFL 6303	17 mm

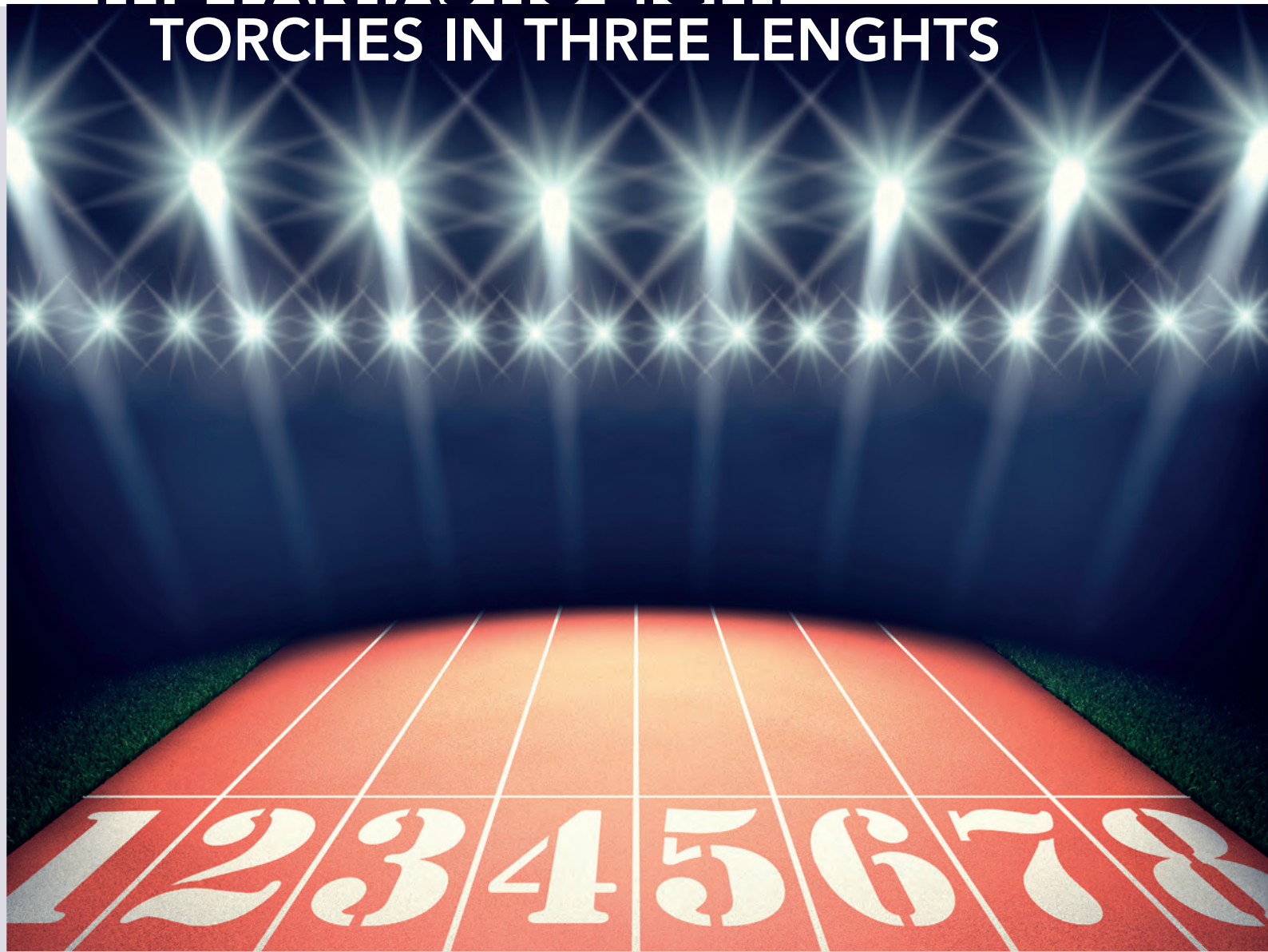
MIG/MAG PUSH + PUSH-PULL





DINSE

# THE FANTASTIC EIGHT TORCHES IN THREE LENGTHS



## Each variant hits the bull's eye:

- ▶ Torch necks in 9 different lengths and bending angles
- ▶ All models and wear parts directly available from stock
- ▶ Reduced cost compared to special solution
- ▶ Maximum flexibility when welding complex geometries



# MIG/MAG torch heads for Push and Push-Pull applications



1

## DIX METZ (gas cooled)

35 series



350 A / CO<sub>2</sub>

32 series



400 A / CO<sub>2</sub>

39 series



350 A / CO<sub>2</sub>

37 series



450 A / CO<sub>2</sub>

## DIX METZ (liquid cooled)

52 series



350 A / CO<sub>2</sub>

64 series



450 A / CO<sub>2</sub>

58 series



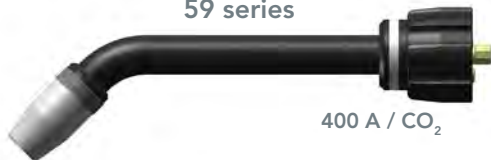
350 A / CO<sub>2</sub>

56 series



550 A / CO<sub>2</sub>

59 series



400 A / CO<sub>2</sub>

57 series



550 A / CO<sub>2</sub>

54 series



450 A / CO<sub>2</sub>

55 series



600 A / CO<sub>2</sub>

MIG/MAG

PUSH + PUSH-PULL





# Torch heads gas-cooled MIG/MAG 35 series (up to 350A)

1

PUSH + PUSH-PULL MIG/MAG

### Properties

- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ The available high-quality wear parts have a long service life thanks to the perfect cooling by the torch neck
- ▶ Wide variety of consumables available for best possible component accessibility
- ▶ Gas nozzle with trapezoid thread

### Application

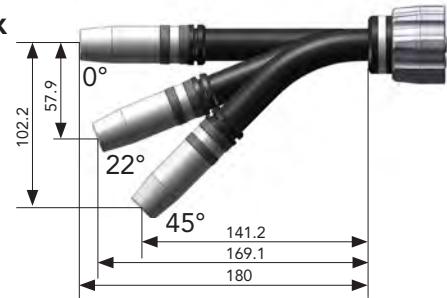
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels

### Technical data (DIN EN 60 974-7):

	duty cycle
CO <sup>2</sup> :	350A/100%
Mixed gas:	300A/100%
Wire diameter:	0.8 - 1.2 mm

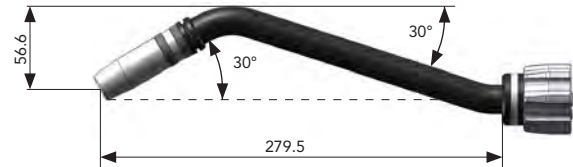
### A

#### MET 35x



### B

#### METR 358



**For ECO.torch, LITE.torch and T.Connector HW**  
The center point of the sixth robot axis will be cut with a stickout of 15 mm.

Description	Dimension	Part name	Part number
A Torch head	0°	DIX MET 350	631133008
Torch head	22°	DIX MET 352	631133009
Torch head	45°	DIX MET 354	631133010
B Torch head Swan neck	2 x 30°	DIX METR 358	631133018

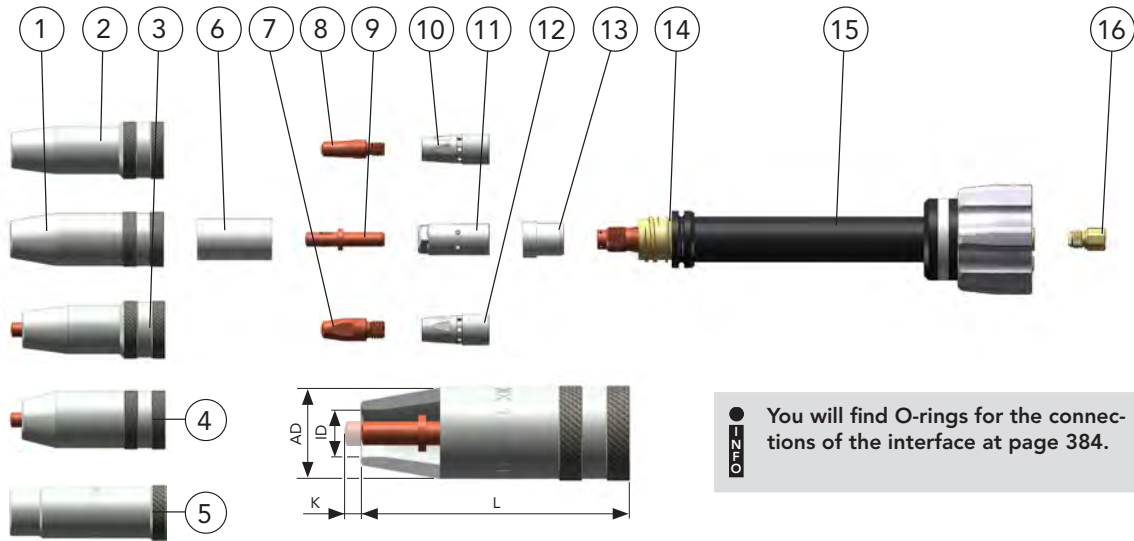
### Hint:

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.





## DIX MET 350/352/354, DIX METR 358



**MEPTZ** You will find O-rings for the connections of the interface at page 384.

Description	Dimension (mm)	Part name	Part number
1 Gas nozzle	L 68/AD 23/ID 9	DIX 1-3-5209 A*	6390152090
Gas nozzle	L 68/AD 23/ID 12	DIX 1-3-5212 A	6390152120
Gas nozzle	L 68/AD 23/ID 15	DIX 1-3-5215 A	6390152150
Gas nozzle	L 68/AD 23/ID 18	DIX 1-3-5218 A	6390152180
2 Gas nozzle	L 68/AD 20/ID 11	DIX 1-3-5211 AR*	6390152115
Gas nozzle	L 68/AD 20/ID 12	DIX 1-3-5212 AR*	6390152125
Gas nozzle	L 68/AD 20/ID 15	DIX 1-3-5215 AR*	6390152155
3 Gas nozzle	L 63/AD 20/ID 11/K 5	DIX 1-3-5211 AKR*	6390152116
Gas nozzle	L 63/AD 20/ID 12/K 5	DIX 1-3-5212 AKR*	6390152126
4 Gas nozzle	L 63/AD 23/ID 12/K 5	DIX 1-3-5212 AK	6390152121
Gas nozzle	L 63/AD 23/ID 13/K 5	DIX 1-3-5213 AK	6390152131
Gas nozzle	L 63/AD 23/ID 15/K 5	DIX 1-3-5215 AK	6390152151
5 Gas nozzle	L 68/AD 22/ID 16	DIX 1-3-5216	6390190002
6 Insulator, for pos. 1 u. 4		DIX 2-3-520	6390252000
7 Contact tip	M8 x 28	DIX 3-2-__ M8	6290301__
Contact tip	M8 x 28	DIX 3-2-__ M8 CR-ZR	6290331__
8 Contact tip	M6 x 28	DIX 3-2-__	6290300__
Contact tip	M6 x 28	DIX 3-2-__ CR-ZR	6290330__
9 Contact tip	ø 6 x 35	DIX 3-1-__ SR	6190354__
10 Tip adapter	M6	DIX GS 300 M6	629040301
11 Clamp nut		DIX CS 300	6390433000
12 Tip adapter	M8	DIX GS 300 M8	629040302
13 Insulating sleeve		DIX IH 300	6391053000
14 O - ring	(10 pcs.)		639060004
15 Torch neck	0°	DIX 6-3-350 MET	639063350
Torch neck	22°	DIX 6-3-352 MET	639063352
Torch neck	45°	DIX 6-3-354 MET	639063354
Torch neck, Swan neck	2 x 30°	DIX 6-3-358 METR	639067358
16 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

-- Enter the required wire diameter, e.g.: 08 = 0.8 mm or 10 = 1.0 mm.

➤ Standard equipment for wire diameter 1.0 mm steel with gas nozzle diameter 15 mm, DIX 1-3-5215 A, (contact tip, DIX 3-1-1.0 S, flush, clamp nut DIX CS 300. insulating sleeve DIX IH 300). Use the hook spanner DIX SLAT 4 to tighten torch heads.

➤ Variants deviating of the standard fittings on request.

➤ K - short, R - reduced — Other designs on request.

\* Gas nozzle has no insulator.





# Torch heads gas-cooled MIG/MAG 39 series (up to 350A)

1

PUSH + PUSH-PULL MIG/MAG

### Properties

- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ The available high-quality wear parts have a long service life thanks to the perfect cooling by the torch neck
- ▶ Wide variety of consumables available for best possible component accessibility
- ▶ Gas nozzle with trapezoid thread

### Improved properties MET 39xx series

- ▶ New cooling system - the gas is circulating in a cooling spindle and flows spirally around the tube to the contact tip
- ▶ Optimated heat exchange to dissipate heat effectively

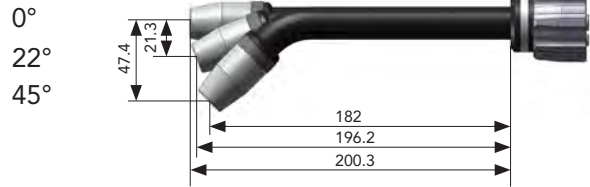
### Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels

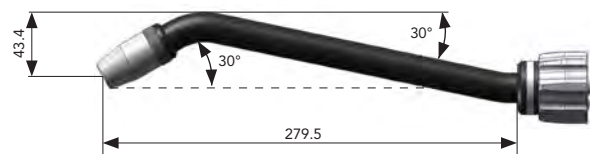
### Technical data (DIN EN 60 974-7):

Load CO <sup>2</sup> :	duty cycle 350A/100% ED
Load Mixed gas:	duty cycle 300A/100% ED
Wire diameter MET 39x:	0.8 - 1.2 mm
Wire diameter MET 39xx:	1.0 - 1.2 mm

## A DIX MET 39x

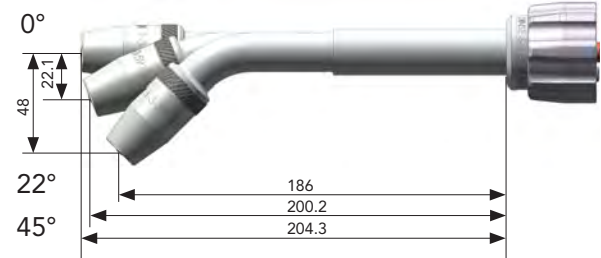


## B DIX METR 398



For ECO.torch, LITE.torch and T.Connector HW  
The center point of the sixth robot axis will be cut with a stickout of 15 mm.

## C DIX MET 39xx



Description	Dimension	Part name	Part number
A Torch head	0°	DIX MET 390	631133004
Torch head	22°	DIX MET 392	631133005
Torch head	45°	DIX MET 394	631133006
B Torch head, swan neck	2 x 30°	DIX METR 398	631133022
C Torch head	0°	DIX MET 3900	631133027
Torch head	22°	DIX MET 3922	631133028
Torch head	45°	DIX MET 3945	631133029

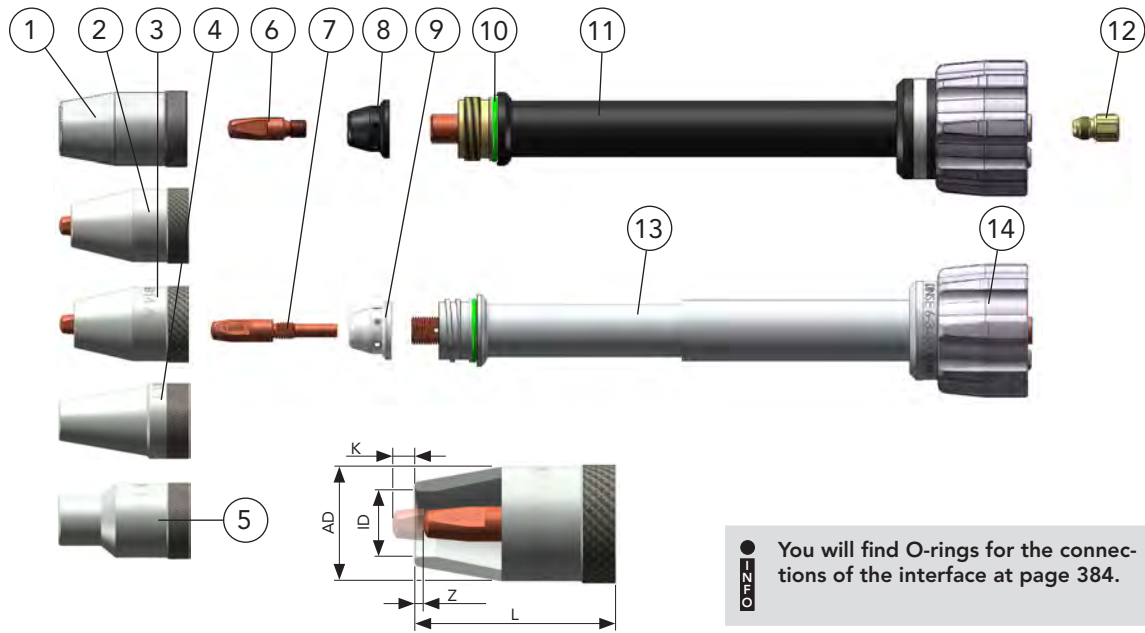
### Hint:

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



# Spare parts and wear parts

DIX MET 390/392/394 DIX METR 398 DIX MET 3900/3922/3945



**MEPTZ** You will find O-rings for the connections of the interface at page 384.

Description	Dimension (mm)	Part name	Part number
1 Gas nozzle	L 46/AD 27/ID 15/Z 2	DIX 1-3-5915 A	6390159150
Gas nozzle*	L 46/AD 27/ID 15/Z 2	DIX 1-3-5915 A SO	6390159153
Gas nozzle	L 46/AD 27/ID 18/Z 2	DIX 1-3-5918 A	6390159180
Gas nozzle	L 50/AD 27/ID 18/Z 6	DIX 1-3-5918 AL	6390159182
2 Gas nozzle	L 42/AD 27/ID 11/K 2	DIX 1-3-5911 A	6390159110
3 Gas nozzle*	L 41/AD 27/ID 14/K 3	DIX 1-3-5914 A	6390159140
Gas nozzle	L 41/AD 27/ID 14/K 3	DIX 1-3-5914	6390159149
Gas nozzle	L 37/AD 27/ID 11/K 7	DIX 1-3-5911 AK	6390159111
Gas nozzle*	L 37/AD 27/ID 11/K 7	DIX 1-3-5911 AK SO	6390159112
Gas nozzle	L 37/AD 27/ID 15/K 7	DIX 1-3-5915 AK	6390159151
4 Gas nozzle	L 46/AD 27/ID 11/Z 2	DIX 1-3-5911 SO	6390159119
5 Gas nozzle	L 46/AD 27/ID 13/Z 2	DIX 1-3-5913 AR	6390159135
6 Contact tip, for MET 39x only	M6 x 28	DIX 3-2-__	6290300__
Contact tip, for MET 39x only	M6 x 28	DIX 3-2-__ CR-ZR	6290330__
7 Contact tip, for MET 39xx only	M6 x 46	DIX 3-2-_/46	6290346__
8 Gas diffuser		DIX GVT 590	6391059001
9 Gas diffuser, ceramic	(10 pcs.)	DIX GVT 590 K	6391059003
10 O-Ring (Viton)	(10 pcs.)		629061021
11 Torch neck	0°	DIX 6-3-390 MET	639061022
Torch neck	22°	DIX 6-3-392 MET	639061023
Torch neck	45°	DIX 6-3-394 MET	639061024
Torch neck, swan neck	2 x 30°	DIX 6-3-398 METR	639067398
12 Connecting piece		DIX MES 300/500	639061500041
13 Torch neck	0°	DIX 6-3-3900 MET	6390653900
Torch neck	22°	DIX 6-3-3922 MET	6390653922
Torch neck	45°	DIX 6-3-3945 MET	6390653945
14 Screw cap, gray, for MET 39xx only		DIX 6-3 MET	629061001
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

-- Enter the required wire diameter, e.g.: 08 = 0.8 mm or 10 = 1.0 mm.

► Standard equipment for wire diameter 1.0 mm steel with gas nozzle diameter 15 mm, DIX 1-3-5915 A, (contact tip, DIX 3-2-1.0. recessed, Gas diffuser DIX GVT 590). Use the hook spanner DIX SLAT 4 to tighten torch heads. Variants deviating of the standard fittings on request.

\* without spatter protecting ring



MIG/MAG

PUSH + PUSH-PULL



# Torch heads gas-cooled MIG/MAG 32 series (up to 400A)

1

PUSH + PUSH-PULL MIG/MAG

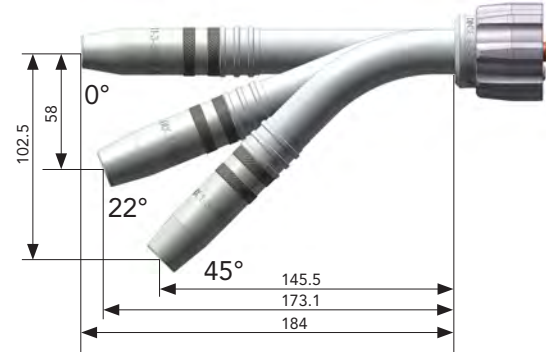
### Properties

- ▶ New cooling system - the gas is circulating in a cooling spindle and flows spirally around the tube to the contact tip
- ▶ Optimated heat exchange to dissipate heat effectively
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ The available high-quality wear parts have a long service life thanks to the perfect cooling by the torch neck
- ▶ Wide variety of consumables available for best possible component accessibility
- ▶ Gas nozzle with trapezoid thread

### Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels

### A MET 32xx



### Technical data (DIN EN 60 974-7):

CO <sub>2</sub> :	duty cycle 400A/100%
Mixed gas:	350A/100%
Wire diameter	1.0 - 1.6 mm

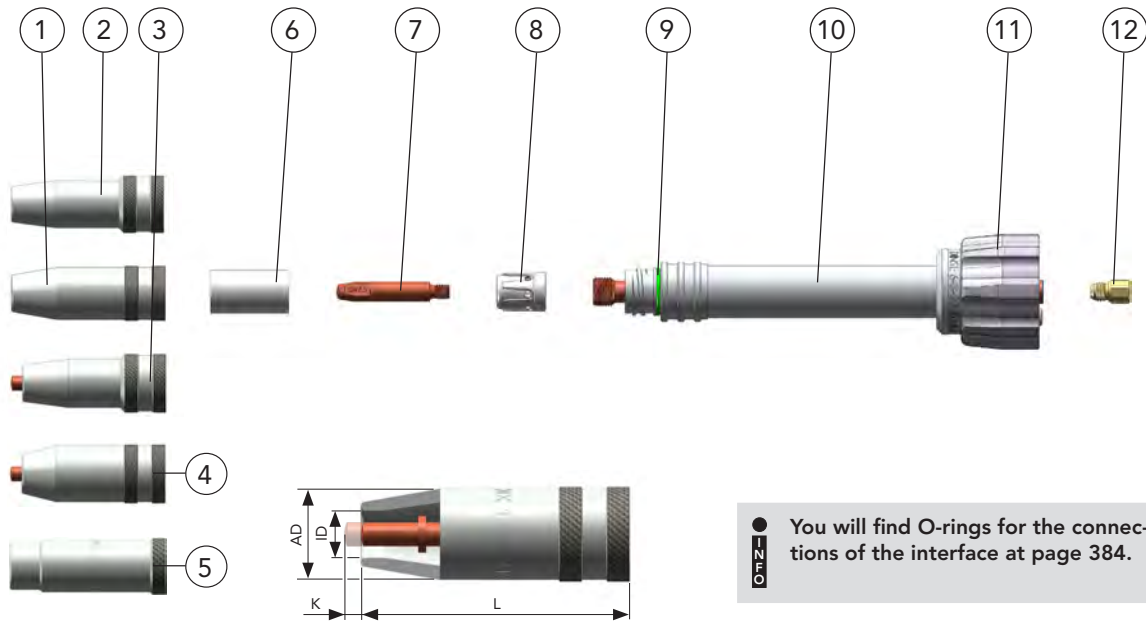
Description	Dimension	Part name	Part number
A Torch head	0°	DIX MET 3200	631133030
Torch head	22°	DIX MET 3222	631133031
Torch head	45°	DIX MET 3245	631133032

### Hint:

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



## DIX MET 3200/3222/3245



**OPTION** You will find O-rings for the connections of the interface at page 384.

MIG/MAG PUSH + PUSH-PULL

Description	Dimension (mm)	Part name	Part number
1 Gas nozzle	L 68/AD 23/ID 9	DIX 1-3-5209 A*	6390152090
Gas nozzle	L 68/AD 23/ID 12	DIX 1-3-5212 A	6390152120
Gas nozzle	L 68/AD 23/ID 15	DIX 1-3-5215 A	6390152150
Gas nozzle	L 68/AD 23/ID 18	DIX 1-3-5218 A	6390152180
2 Gas nozzle	L 68/AD 20/ID 11	DIX 1-3-5211 AR*	6390152115
Gas nozzle	L 68/AD 20/ID 12	DIX 1-3-5212 AR*	6390152125
Gas nozzle	L 68/AD 20/ID 15	DIX 1-3-5215 AR*	6390152155
3 Gas nozzle	L 63/AD 20/ID 11/K 5	DIX 1-3-5211 AKR*	6390152116
Gas nozzle	L 63/AD 20/ID 12/K 5	DIX 1-3-5212 AKR*	6390152126
4 Gas nozzle	L 63/AD 23/ID 12/K 5	DIX 1-3-5212 AK	6390152121
Gas nozzle	L 63/AD 23/ID 13/K 5	DIX 1-3-5213 AK	6390152131
Gas nozzle	L 63/AD 23/ID 15/K 5	DIX 1-3-5215 AK	6390152151
5 Gas nozzle	L 68/AD 22/ID 16	DIX 1-3-5216	6390190002
6 Insulator		DIX 2-3-520	6390252000
7 Contact tip	M6 x 47.5	DIX 3-2-_/47.5	6290342_ _
8 Gas diffuser	(10 pcs.)	DIX GVT 3200 K	6391052001
9 O-Ring (Viton)	(10 pcs.)		639060004
10 Torch neck	0°	DIX 6-3-3200 MET	6390653200
Torch neck	22°	DIX 6-3-3222 MET	6390653222
Torch neck	45°	DIX 6-3-3245 MET	6390653245
11 Screw cap, gray		DIX 6-3 MET	629061001
12 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

-- Enter the required wire diameter, e.g.: 10 = 1.0 mm or 12 = 1.2 mm.

\* Gas nozzle has no insulator.

▶ Standard equipment for wire diameter 1.0 mm steel with gas nozzle diameter 12 mm, DIX 1-3-5212 A, (contact tip, DIX 3-2-1.2/47.5. flush, Gas diffuser DIX GVT 3200 K). Use the hook spanner DIX SLAT 4 to tighten torch heads.





# Torch heads gas-cooled MIG/MAG 37 series (up to 450A)

1

PUSH + PUSH-PULL MIG/MAG

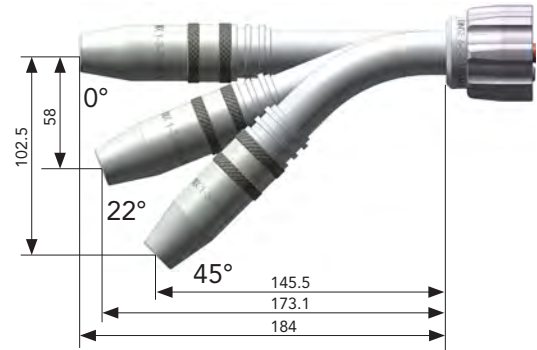
### Properties

- ▶ New cooling system - the gas is circulating in a cooling spindle and flows spirally around the tube to the contact tip
- ▶ Optimated heat exchange to dissipate heat effectively
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ The available high-quality wear parts have a long service life thanks to the perfect cooling by the torch neck
- ▶ Wide variety of consumables available for best possible component accessibility
- ▶ Gas nozzle with trapezoid thread

### Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels

## A MET 37xx



### Technical data (DIN EN 60 974-7):

	duty cycle
CO <sub>2</sub> :	450A/100%
Mixed gas:	400A/100%
Wire diameter:	1.0 - 1.6 mm

Description	Dimension	Part name	Part number
A Torch head	0°	DIX MET 3700	631133024
Torch head	22°	DIX MET 3722	631133025
Torch head	45°	DIX MET 3745	631133026

### Hint:

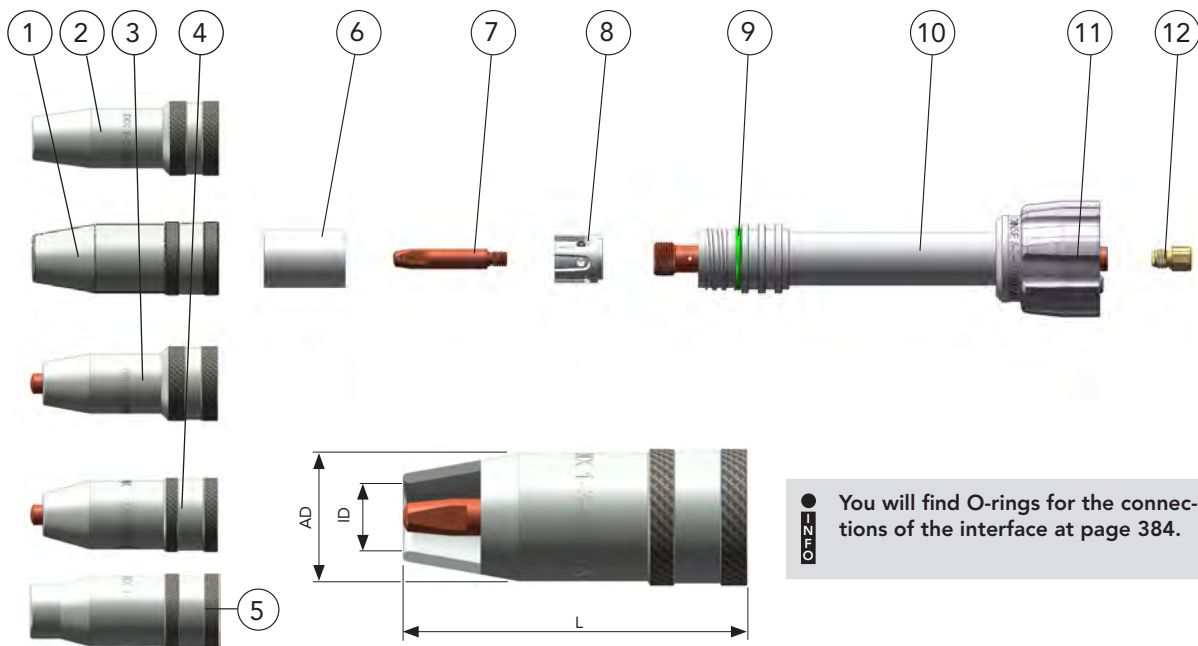
Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



# Spare parts and wear parts



## DIX MET 3700/3722/3745



**MEPTZ** You will find O-rings for the connections of the interface at page 384.

Description	Dimension (mm)	Part name	Part number
1 Gas nozzle	L 76/AD 28/ID 13	DIX 1-3-5413 A	6390154130
Gas nozzle	L 76/AD 28/ID 15	DIX 1-3-5415 A	6390154150
Gas nozzle	L 76/AD 28/ID 18	DIX 1-3-5418 A	6390154180
Gas nozzle	L 76/AD 28/ID 21	DIX 1-3-5421 A	6390154210
2 Gas nozzle	L 76/AD 24/ID 13	DIX 1-3-5413 AR*	6390154135
Gas nozzle	L 76/AD 24/ID 15	DIX 1-3-5415 AR*	6390154155
Gas nozzle	L 76/AD 24/ID 18	DIX 1-3-5418 AR*	6390154185
3 Gas nozzle	L 71/AD 24/ID 13/K 5	DIX 1-3-5413 AKR*	6390154136
Gas nozzle	L 71/AD 24/ID 15/K 5	DIX 1-3-5415 AKR*	6390154156
4 Gas nozzle	L 71/AD 28/ID 13/K 5	DIX 1-3-5413 AK	6390154131
Gas nozzle	L 71/AD 28/ID 15/K 5	DIX 1-3-5415 AK	6390154151
Gas nozzle	L 71/AD 28/ID 18/K 5	DIX 1-3-5418 AK	6390154181
5 Gas nozzle	L 76/AD 25/ID 15	DIX 1-3-5415 ARZ	6390154154
Gas nozzle	L 76/AD 28/ID 17	DIX 1-3-5417 A	6390154170
6 Insulator		DIX 2-3-500	6390250000
7 Contact tip	M6 x 47.5	DIX 3-2-../47.5	6290342_ _
8 Gas diffuser		DIX GVT 3700 K	63910916072
9 O-Ring (Viton)	(10 pcs.)		639060003
10 Torch neck	0°	DIX 6-3-3700 MET	6390653700
Torch neck	22°	DIX 6-3-3722 MET	6390653722
Torch neck	45°	DIX 6-3-3745 MET	6390653745
11 Screw cap, gray		DIX 6-3 MET	629061001
12 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

-- Enter the required wire diameter, e.g.: 10 = 1.0 mm or 12 = 1.2 mm.  
 \* Gas nozzle has no insulator.

➤ Standard equipment for wire diameter 1.0 mm steel with gas nozzle diameter 15 mm, DIX 1-3-5415 A, (contact tip, DIX 3-2-1.2/47.5. flush, Gas diffuser DIX GVT 3700 K). Use the hook spanner DIX SLAT 4 to tighten torch heads.



MIG/MAG PUSH + PUSH-PULL

# Torch heads liquid-cooled MIG/MAG 52 series (up to 350A)

## Properties

- ▶ Dual - circuit cooling system
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ Gas nozzle with trapezoid thread

## Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper-and nickel alloys

## Technical data (DIN EN 60 974-7):

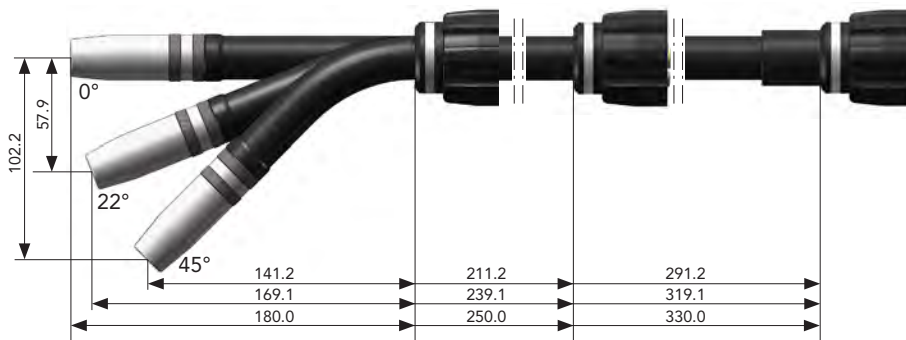
CO <sub>2</sub> :	duty cycle 350A/100%
Mixed gas:	300A/100%
Wire diameter:	0.8 - 1.2 mm

## Interface fitting for DINSE torch sets

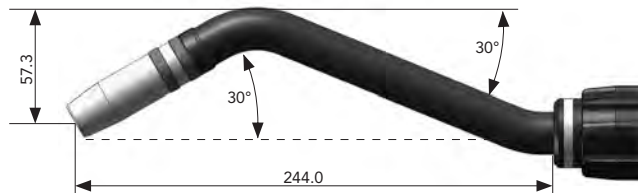
**A**  
DIX METZ 52x

**B**  
METZ 52x L

**C**  
METZ 52x XL



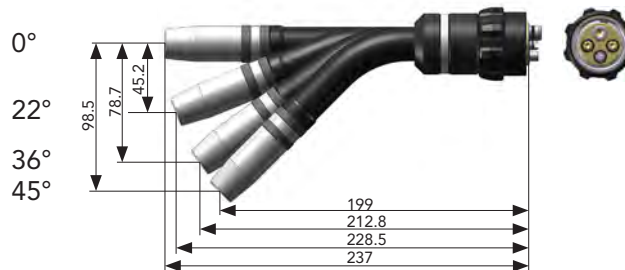
**D**  
DIX METZ 528



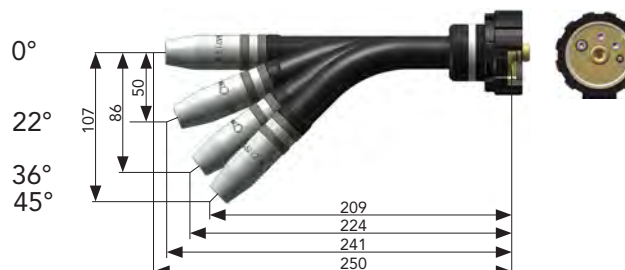
For ECO.torch, LITE.torch and T.Connector HW  
The center point of the sixth robot axis will be cut with a stickout of 15 mm.

## Interface fitting for Fronius® torch sets\*

**E**  
DIX MFTZ 52xx



**F**  
DIX MFTZ2 52xx





# Torch heads liquid-cooled MIG/MAG 52 series (up to 350A)



MIG/MAG

PUSH + PUSH-PULL



## DIX METZ 52x (L)(XL) interface fitting for DINSE torch sets

Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 520	631352001
B Torch head L	0°	DIX METZ 520 L	631152001
C Torch head XL	0°	DIX METZ 520 XL	631152004
A Torch head	22°	DIX METZ 522	631352002
B Torch head L	22°	DIX METZ 522 L	631152002
C Torch head XL	22°	DIX METZ 522 XL	631152005
A Torch head	45°	DIX METZ 524	631352003
B Torch head L	45°	DIX METZ 524 L	631152003
C Torch head XL	45°	DIX METZ 524 XL	631152006
D Torch head	2 x 30°	DIX METZ 528	631352008

## DIX MFTZ 52xx interface fitting for Fronius® torch sets\*

Description	Dimension	Part name	Part number
E Replaces Fronius® torch heads of the Robacta 300/3000 series with the same TCP			
Torch head	0°	DIX MFTZ 5200	631505200
Torch head	22°	DIX MFTZ 5222	631505222
Torch head	36°	DIX MFTZ 5236	631505236
Torch head	45°	DIX MFTZ 5245	631505245

## DIX MFTZ2 52xx interface fitting for Fronius® torch sets\*

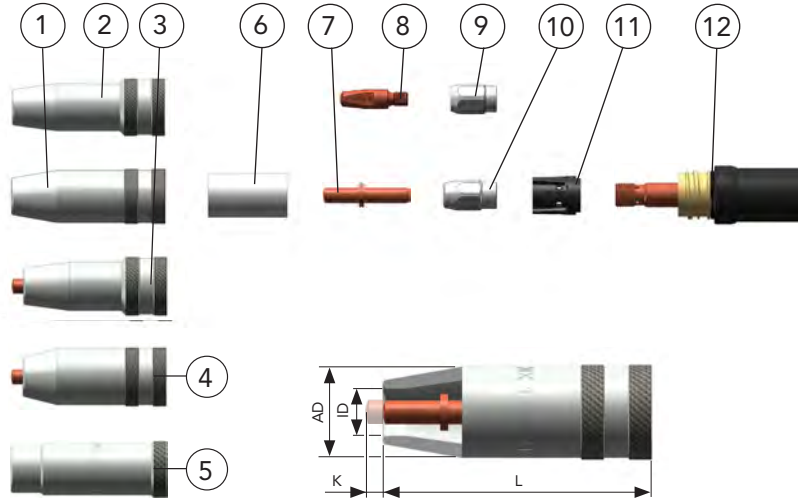
Description	Dimension	Part name	Part number
F Replaces Fronius® torch heads of the MTB 250i W R® and MTB 350i W R® series with the same TCP			
Torch head	0°	DIX MFTZ2 5200	631515200
Torch head	22°	DIX MFTZ2 5222	631515222
Torch head	36°	DIX MFTZ2 5236	631515236
Torch head	45°	DIX MFTZ2 5245	631515245

\*Fronius® is a registered trademark of Fronius International GmbH

**Hint:**

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

## 52 series



	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle	L 68/AD 23/ID 9	DIX 1-3-5209 A*	6390152090
	Gas nozzle	L 68/AD 23/ID 12	DIX 1-3-5212 A	6390152120
	Gas nozzle	L 68/AD 23/ID 15	DIX 1-3-5215 A	6390152150
	Gas nozzle	L 68/AD 23/ID 18	DIX 1-3-5218 A	6390152180
2	Gas nozzle	L 68/AD 20/ID 11	DIX 1-3-5211 AR*	6390152115
	Gas nozzle	L 68/AD 20/ID 12	DIX 1-3-5212 AR*	6390152125
	Gas nozzle	L 68/AD 20/ID 15	DIX 1-3-5215 AR*	6390152155
3	Gas nozzle	L 63/AD 20/ID 11/K 5	DIX 1-3-5211 AKR*	6390152116
	Gas nozzle	L 63/AD 20/ID 12/K 5	DIX 1-3-5212 AKR*	6390152126
4	Gas nozzle	L 63/AD 23/ID 12/K 5	DIX 1-3-5212 AK	6390152121
	Gas nozzle	L 63/AD 23/ID 13/K 5	DIX 1-3-5213 AK	6390152131
	Gas nozzle	L 63/AD 23/ID 15/K 5	DIX 1-3-5215 AK	6390152151
5	Gas nozzle	L 68/AD 22/ID 16	DIX 1-3-5216	6390190002
6	Insulator, for pos. 1 and 4		DIX 2-3-520	6390252000
7	Contact tip	∅ 6 x 35	DIX 3-1-__ SR	6190354-__
8	Contact tip	M6 x 28	DIX 3-2-__	6290300-__
	Contact tip	M6 x 28	DIX 3-2-__ CR-ZR	6290330-__
9	Tip adapter		DIX GS 1-K	618150001
10	Clamp nut		DIX 4-1-MAS	6390452000
11	Gas diffusor		DIX 10-1-MAS	6391052000
12	O - ring, 17x1,5 mm	(10 pcs.)		639060002

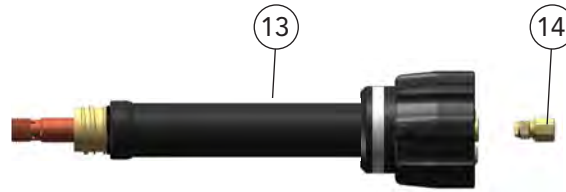
-- Enter the required wire diameter, e.g.: 08 = 0.8 mm or 10 = 1.0 mm.

▶ Standard equipment for wire diameter 1.0 mm steel with gas nozzle diameter 12 mm, DIX 1-3-5212 A, (contact tip DIX 3-1-1.0 SR, flush, clamp sleeve DIX 4-1-MAS, Gas diffusor DIX 10-1 MAS). Use the hook spanner DIX SLAT 4 to tighten torch heads.

▶ K - short, R - reduced — Other designs on request.

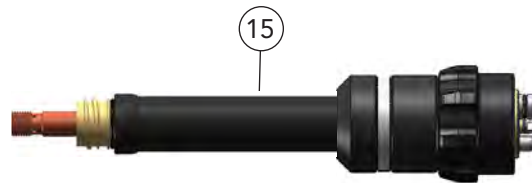
\* Gas nozzle has no insulator.

DIX METZ 520/522/524 (L)(XL) DIX METZ 528



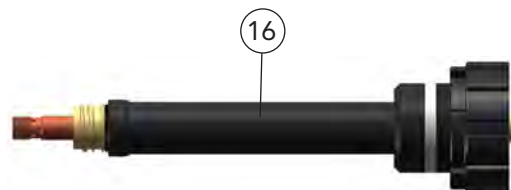
Description	Dimensions	Part name	Part number
13 Torch neck	0°	DIX 6-3-520 METZ	6390635200
Torch neck L	0°	DIX 6-3-520 L METZ	6390635202
Torch neck XL	0°	DIX 6-3-520 XL METZ	6390635205
Torch neck	22°	DIX 6-3-522 METZ	6390635220
Torch neck L	22°	DIX 6-3-522 L METZ	6390635203
Torch neck XL	22°	DIX 6-3-522 XL METZ	6390635206
Torch neck	45°	DIX 6-3-524 METZ	6390635240
Torch neck L	45°	DIX 6-3-524 L METZ	6390635204
Torch neck XL	45°	DIX 6-3-524 XL METZ	6390635207
Torch neck	2 x 30°	DIX 6-3-528 METZ	6390635280
14 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

DIX MFTZ 5200/5222/5236/5245



Description	Dimensions	Part name	Part number
15 Torch neck	0°	DIX 6-3-5200 MFTZ	6390685200
Torch neck	22°	DIX 6-3-5222 MFTZ	6390685222
Torch neck	36°	DIX 6-3-5236 MFTZ	6390685236
Torch neck	45°	DIX 6-3-5245 MFTZ	6390685245

DIX MFTZ2 5200/5222/5236/5245



Description	Dimensions	Part name	Part number
16 Torch neck	0°	DIX 6-3-5200 MFTZ 2	63906815200
Torch neck	22°	DIX 6-3-5222 MFTZ 2	63906815222
Torch neck	36°	DIX 6-3-5236 MFTZ 2	63906815236
Torch neck	45°	DIX 6-3-5245 MFTZ 2	63906815245

**O-RING** You will find O-rings for the connections of all interfaces at page 384.

MIG/MAG  
PUSH + PUSH-PULL



# Torch heads liquid-cooled MIG/MAG 58 series (up to 350A)

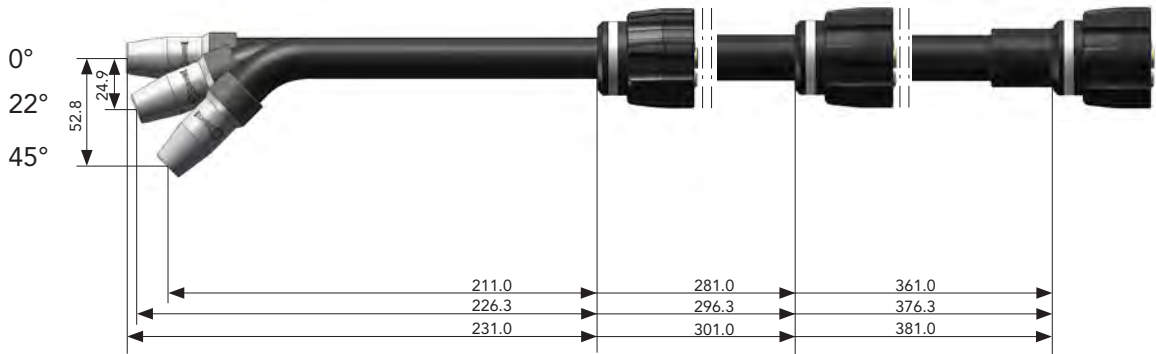
1

MIG/MAG  
PUSH + PUSH-PULL

## A DIX METZ 58xx

## B DIX METZ 58xx L

## C DIX METZ 58xx XL



### Properties

- ▶ Dual - circuit cooling system
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ Gas nozzle with trapezoid thread

### Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper-and nickel alloys

### Technical data (DIN EN 60 974-7):

CO <sub>2</sub> :	duty cycle 350A/100%
Mixed gas:	300A/100%
Wire diameter:	0.8 - 1.2 mm

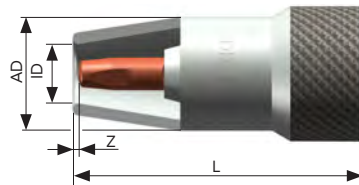
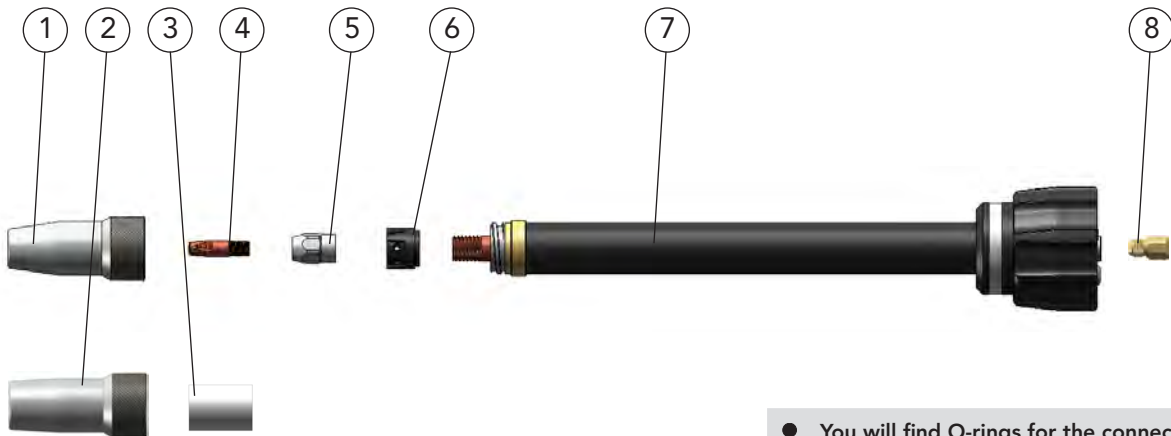
Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 5800	631315800
B Torch head L	0°	DIX METZ 5800 L	631158001
C Torch head XL	0°	DIX METZ 5800 XL	631158004
A Torch head	22°	DIX METZ 5822	631315822
B Torch head L	22°	DIX METZ 5822 L	631158002
C Torch head XL	22°	DIX METZ 5822 XL	631158005
A Torch head	45°	DIX METZ 5845	631315845
B Torch head L	45°	DIX METZ 5845 L	631158003
C Torch head XL	45°	DIX METZ 5845 XL	631158006

### Hint:

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



## DIX METZ 5800/5822/5845 (L) (XL)



**OPZ** You will find O-rings for the connections of the interface at page 384.

Description	Dimension (mm)	Part name	Part number
1 Gas nozzle	L 54/AD 21/ID 11/Z 1	DIX 1-3-5811 A	6390158110
2 Gas nozzle	L 54/AD 21/ID 15/Z 1	DIX 1-3-5815 A	6390158150
3 Insulator, for pos. 2		DIX 2-2/0560	6290290560
4 Contact tip	M6 x 24 mm	DIX 3-1-__	6190300__
5 Tip adapter		DIX GS 5800	619040560
6 Gas diffuser		DIX GVT 5800	619100560
7 Torch neck	0°	DIX 6-3-5800 METZ	6391635800
Torch neck L	0°	DIX 6-3-5800 L METZ	6391635802
Torch neck XL	0°	DIX 6-3-5800 XL METZ	6391635805
Torch neck	22°	DIX 6-3-5822 METZ	6391635822
Torch neck L	22°	DIX 6-3-5822 L METZ	6391635803
Torch neck XL	22°	DIX 6-3-5822 XL METZ	6391635806
Torch neck	45°	DIX 6-3-5845 METZ	6391635845
Torch neck L	45°	DIX 6-3-5845 L METZ	6391635804
Torch neck XL	45°	DIX 6-3-5845 XL METZ	6391635807
8 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

-- Enter the required wire diameter, e.g.: 08 = 0.8 mm or 10 = 1.0 mm.

► Standard equipment for wire diameter 1.2 mm steel with gas nozzle diameter 11 mm, DIX 1-3-5811 A, (contact tip DIX 3-1-1.2 M6. flush, tip adapter DIX GS 5800. Gas diffuser DIX GVT 5800). Use the hook spanner DIX SLAT 4 to tighten torch heads.



# Torch heads liquid-cooled MIG/MAG 59 series (up to 400A)

## Properties

- ▶ Dual - circuit cooling system
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ Gas nozzle with trapezoid thread

## Application

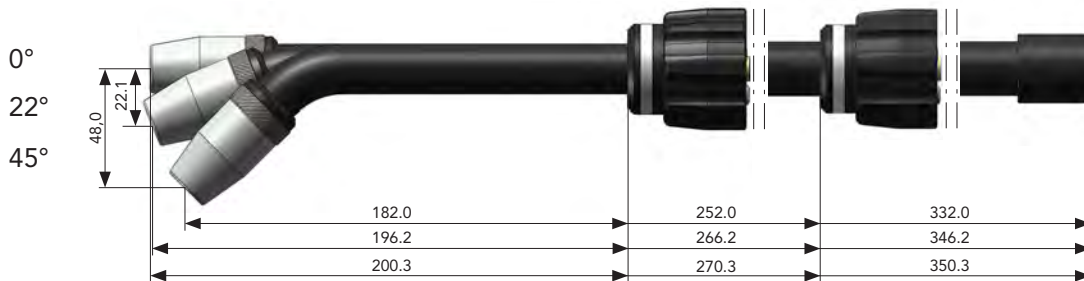
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper-and nickel alloys

## Technical data (DIN EN 60 974-7):

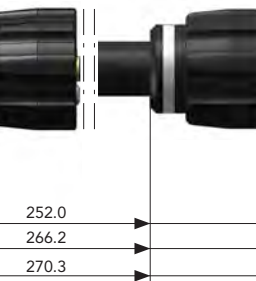
CO <sub>2</sub> :	duty cycle 400A/100%
Mixed gas:	350A/100%
Wire diameter:	0.8 - 1.2 mm

## Interface fitting for DINSE torch sets

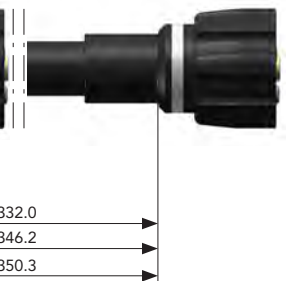
**A**  
DIX METZ 59x



**B**  
DIX METZ 59x L



**C**  
DIX METZ 59x XL



**D**  
DIX METZ 598



For ECO.torch, LITE.torch and T.Connector HW  
The center point of the sixth robot axis will be cut with a stickout of 15 mm.

## Interface fitting for Fronius® torch sets\*

**E**  
DIX MFTZ 59xx



**F**  
DIX MFTZ2 59xx



# Torch heads liquid-cooled MIG/MAG 59 series (up to 400A)



MIG/MAG

PUSH + PUSH-PULL



## DIX METZ 59x (L)(XL) interface fitting for DINSE torch sets

Description	Dimensions	Part name	Part number
A Torch head	0°	DIX METZ 590	631359001
B Torch head L	0°	DIX METZ 590 L	631159001
C Torch head XL	0°	DIX METZ 590 XL	631159004
A Torch head	22°	DIX METZ 592	631359002
B Torch head L	22°	DIX METZ 592 L	631159002
C Torch head XL	22°	DIX METZ 592 XL	631159005
A Torch head	45°	DIX METZ 594	631359003
B Torch head L	45°	DIX METZ 594 L	631159003
C Torch head XL	45°	DIX METZ 594 XL	631159006
D Torch head	2 x 30°	DIX METZ 598	631359009
A Torch head, tip adapter changeable	45°	DIX METZ 594/2593/M6	631359016
A Torch head, tip adapter changeable	45°	DIX METZ 594/2593/M8	631359022

## DIX MFTZ 59xx interface fitting for Fronius® torch sets\*

Description	Dimensions	Part name	Part number
E Replaces Fronius® torch heads of the Robacta RA 280 series with the same TCP			
Torch head	0°	DIX MFTZ 5900	631505900
Torch head	22°	DIX MFTZ 5922	631505922
Torch head	36°	DIX MFTZ 5936	631505936
Torch head	45°	DIX MFTZ 5945	631505945

## DIX MFTZ2 59xx interface fitting for Fronius® torch sets\*

Description	Dimensions	Part name	Part number
F Replaces Fronius® torch heads of the MTB 330i W R® series with the same TCP			
Torch head	0°	DIX MFTZ2 5900	631515900
Torch head	22°	DIX MFTZ2 5922	631515922
Torch head	36°	DIX MFTZ2 5936	631515936
Torch head	45°	DIX MFTZ2 5945	631515945

\*Fronius® is a registered trademark of Fronius International GmbH

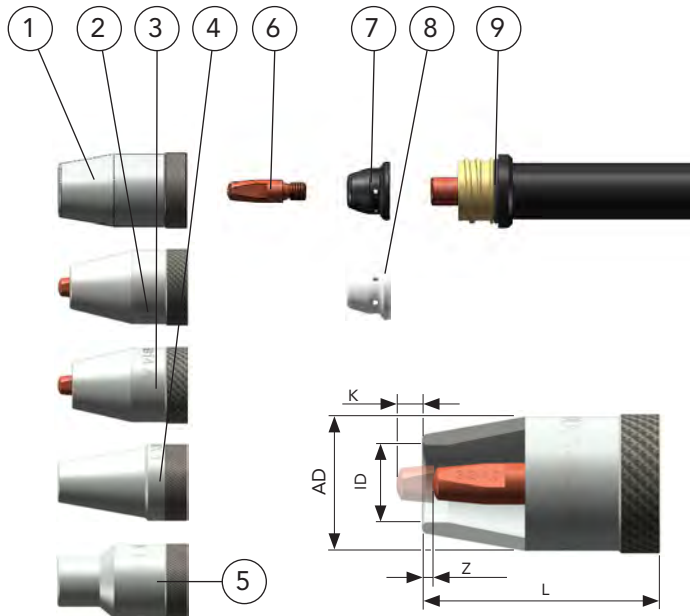
### Hint:

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

## 59 series

1

MIG/MAG  
PUSH + PUSH-PULL



	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle	L 46/AD 27/ID 15/Z 2	DIX 1-3-5915 A	6390159150
	Gas nozzle*	L 46/AD 27/ID 15/Z 2	DIX 1-3-5915 A SO	6390159153
	Gas nozzle	L 46/AD 27/ID 18/Z 2	DIX 1-3-5918 A	6390159180
	Gas nozzle	L 50/AD 27/ID 18/Z 6	DIX 1-3-5918 AL	6390159182
2	Gas nozzle	L 42/AD 27/ID 11/K 2	DIX 1-3-5911 A	6390159110
3	Gas nozzle*	L 41/AD 27/ID 14/K 3	DIX 1-3-5914 A	6390159140
	Gas nozzle	L 41/AD 27/ID 14/K 3	DIX 1-3-5914	6390159149
	Gas nozzle	L 37/AD 27/ID 11/K 7	DIX 1-3-5911 AK	6390159111
	Gas nozzle*	L 37/AD 27/ID 11/K 7	DIX 1-3-5911 AK SO	6390159112
	Gas nozzle	L 37/AD 27/ID 15/K 7	DIX 1-3-5915 AK	6390159151
4	Gas nozzle	L 46/AD 27/ID 11/Z 2	DIX 1-3-5911 SO	6390159119
5	Gas nozzle	L 46/AD 27/ID 13/Z 2	DIX 1-3-5913 AR	6390159135
6	Contact tip	M6 x 28	DIX 3-2-__	6290300__
	Contact tip	M6 x 28	DIX 3-2-__ CR-ZR	6290330__
7	Gas diffusor		DIX GVT 590	6391059001
8	Gas diffusor, ceramic	(10 pcs.)	DIX GVT 590 K	6391059003
9	O - ring, 20x1,5 mm	(10 pcs.)		639060001

-- Enter the required wire diameter, e.g.: 08 = 0.8 mm or 10 = 1.0 mm.

► Standard equipment for wire diameter 1.0 mm steel with gas nozzle diameter 15 mm, DIX 1-3-5915 A, (contact tip, DIX 3-2-1.0 , recessed, Gas diffusor DIX GVT 590). Use the hook spanner DIX SLAT 4 to tighten torch heads.

\* without spatter protecting ring



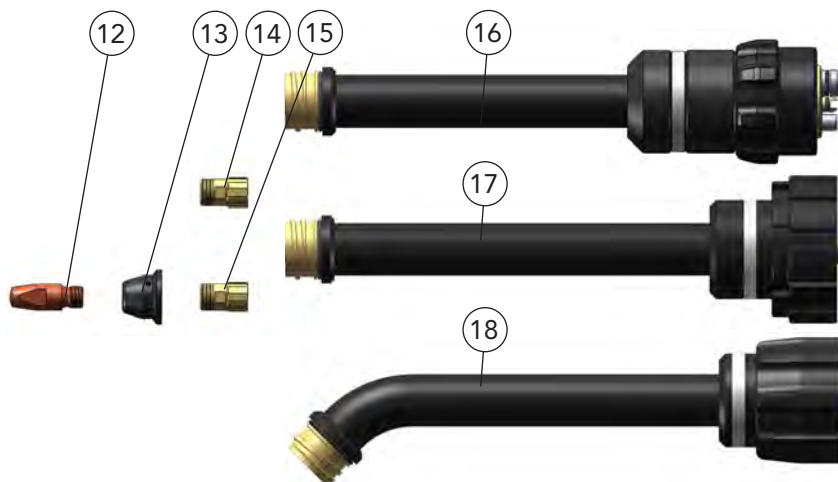


## DIX METZ 590/592/594 (L)(XL), METZ 598



Description	Dimensions	Part name	Part number
10 Torch neck	0°	DIX 6-3-590 METZ	6390635900
Torch neck L	0°	DIX 6-3-590 L METZ	6390635902
Torch neck XL	0°	DIX 6-3-590 XL METZ	6390635905
Torch neck	22°	DIX 6-3-592 METZ	6390635920
Torch neck L	22°	DIX 6-3-592 L METZ	6390635903
Torch neck XL	22°	DIX 6-3-592 XL METZ	6390635906
Torch neck	45°	DIX 6-3-594 METZ	6390635940
Torch neck L	45°	DIX 6-3-594 L METZ	6390635904
Torch neck XL	45°	DIX 6-3-594 XL METZ	6390635907
Torch neck, not shown	2 x 30°	DIX 6-3-598 METZ	6390635980
11 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

## DIX MFTZ(2) 5900/5922/5936/5945, DIX METZ 594/2593/M6(M8)



Description	Dimensions (mm)	Part name	Part number
12 Contact tip	M8 x 28	DIX 3-2-__ M8	6290301__
Contact tip	M8 x 28	DIX 3-2-__ M8 CR-ZR	6290331__
13 Gas diffuser, only in conjunction with pos. 12 and 15		DIX GVT 590/001	6391059002
14 Tip adapter	M6	DIX GS 590 M6	639069257313
15 Tip adapter, only in conjunction with pos. 12 and 13	M8	DIX GS 590 M8	639069257314
16 Torch neck	0°	DIX 6-3-5900 MFTZ	6390685900
Torch neck	22°	DIX 6-3-5922 MFTZ	6390685922
Torch neck	36°	DIX 6-3-5936 MFTZ	6390685936
Torch neck	45°	DIX 6-3-5945 MFTZ	6390685945
17 Torch neck	0°	DIX 6-3-5900 MFTZ 2	63906815900
Torch neck	22°	DIX 6-3-5922 MFTZ 2	63906815922
Torch neck	36°	DIX 6-3-5936 MFTZ 2	63906815936
Torch neck	45°	DIX 6-3-5945 MFTZ 2	63906815945
18 Torch neck	45°	DIX 6-3-594/2593 METZ	6390635940

\_\_ Enter the required wire diameter, e.g.: 08 = 0.8 mm or 10 = 1.0 mm.



MIG/MAG  
PUSH + PUSH-PULL

# Torch heads liquid-cooled MIG/MAG 54 series (up to 450A)

## Properties

- ▶ Dual - circuit cooling system
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ Gas nozzle with trapezoid thread

## Application

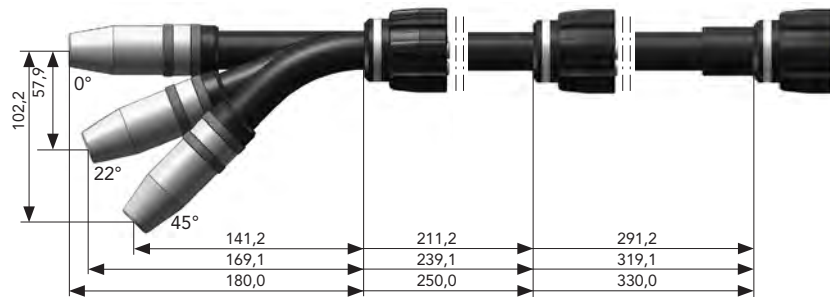
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper- and nickel alloys

## Technical data (DIN EN 60 974-7):

CO <sub>2</sub> :	duty cycle 450A/100%
Mixed gas:	400A/100%
Wire diameter:	1.0 - 1.6 mm

## Interface fitting for DINSE torch sets

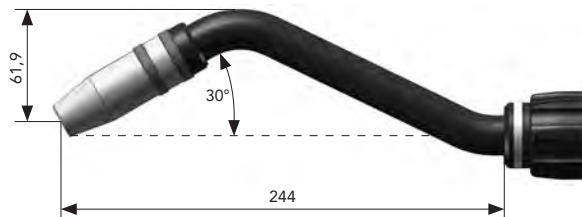
**A**  
DIX METZ 54x



**B**  
DIX METZ 54x L

**C**  
DIX METZ 54x XL

**D**  
DIX METZ 548

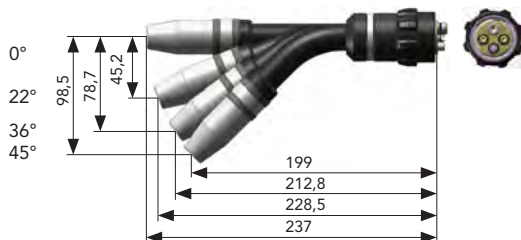


For ECO.torch, LITE.torch und T.Connector HW

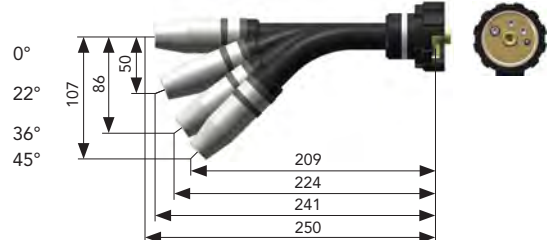
Bei einem Stickout von 15 mm wird der Mittelpunkt der sechsten Roboterachse geschnitten.

## Interface fitting for Fronius® torch sets\*

**E**  
DIX MFTZ 54xx

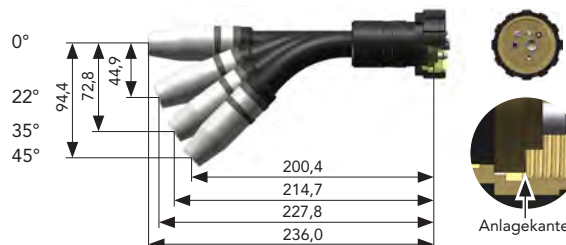


**F**  
DIX MFTZ2 54xx



## Interface fitting for Binzel® torch sets\*\*

**G**  
DIX MBTZ 54xx



# Torch heads liquid-cooled MIG/MAG 54 series (up to 450A)



MIG/MAG  
PUSH + PUSH-PULL



## DIX METZ 54x (L)(XL) interface fitting for DINSE torch sets

Description	Dimensions	Part name	Part number
A Torch head	0°	DIX METZ 540	631354001
B Torch head L	0°	DIX METZ 540 L	631154002
C Torch head XL	0°	DIX METZ 540 XL	631154005
A Torch head	22°	DIX METZ 542	631354002
B Torch head L	22°	DIX METZ 542 L	631154003
C Torch head XL	22°	DIX METZ 542 XL	631154007
A Torch head	45°	DIX METZ 544	631154001
B Torch head L	45°	DIX METZ 544 L	631154004
C Torch head XL	45°	DIX METZ 544 XL	631154008
D Torch head	30°	DIX METZ 548	631154019

## DIX MFTZ 54xx interface fitting for Fronius® torch sets\*

Description	Dimensions	Part name	Part number
E Replaces Fronius® torch heads of the Robacta 500/5000 series with the same TCP			
Torch head	0°	DIX MFTZ 5400	631505400
Torch head	22°	DIX MFTZ 5422	631505422
Torch head	36°	DIX MFTZ 5436	631505436
Torch head	45°	DIX MFTZ 5445	631505445

## DIX MFTZ2 54xx interface fitting for Fronius® torch sets\*

Description	Dimensions	Part name	Part number
F Replaces Fronius® torch heads of the MTB 400i W R® and MTB 500i W R® series with the same TCP			
Torch head	0°	DIX MFTZ2 5400	631515400
Torch head	22°	DIX MFTZ2 5422	631515422
Torch head	36°	DIX MFTZ2 5436	631515436
Torch head	45°	DIX MFTZ2 5445	631515445

\*Fronius® is a registered trademark of Fronius International GmbH

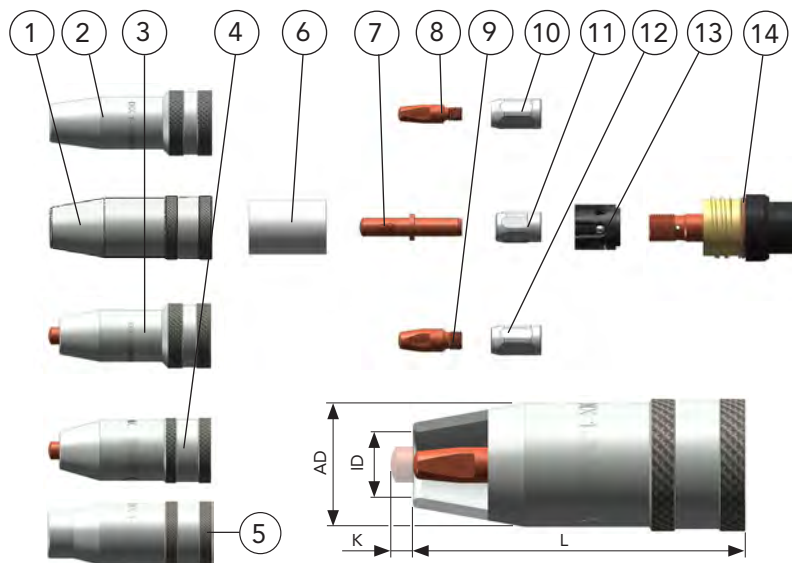
## DIX MBTZ 54xx interface fitting for Binzel® torch sets\*\*

Description	Dimensions	Part name	Part number
G Replaces BINZEL® torch heads of the ABIROB® W 500 series with the same TCP			
Torch head	0°	DIX MBTZ 5400	631315400
Torch head	22°	DIX MBTZ 5422	631315420
Torch head	35°	DIX MBTZ 5435	631315435
Torch head	45°	DIX MBTZ 5445	631315440

\*\*BINZEL®, ABIROB® is a registered trademark of Alexander Binzel Schweißtechnik GmbH & Co. KG

### Hint:

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle	L 76/AD 28/ID 13	DIX 1-3-5413 A	6390154130
	Gas nozzle	L 76/AD 28/ID 15	DIX 1-3-5415 A	6390154150
	Gas nozzle	L 76/AD 28/ID 18	DIX 1-3-5418 A	6390154180
	Gas nozzle	L 76/AD 28/ID 21	DIX 1-3-5421 A	6390154210
2	Gas nozzle	L 76/AD 24/ID 13	DIX 1-3-5413 AR*	6390154135
	Gas nozzle	L 76/AD 24/ID 15	DIX 1-3-5415 AR*	6390154155
	Gas nozzle	L 76/AD 24/ID 18	DIX 1-3-5418 AR*	6390154185
3	Gas nozzle	L 71/AD 24/ID 13/K 5	DIX 1-3-5413 AKR*	6390154136
	Gas nozzle	L 71/AD 24/ID 15/K 5	DIX 1-3-5415 AKR*	6390154156
4	Gas nozzle	L 71/AD 28/ID 13/K 5	DIX 1-3-5413 AK	6390154131
	Gas nozzle	L 71/AD 28/ID 15/K 5	DIX 1-3-5415 AK	6390154151
	Gas nozzle	L 71/AD 28/ID 18/K 5	DIX 1-3-5418 AK	6390154181
5	Gas nozzle	L 76/AD 25/ID 15	DIX 1-3-5415 ARZ	6390154154
	Gas nozzle	L 76/AD 28/ID 17	DIX 1-3-5417 A	6390154170
6	Insulator, for pos. 1 and 4		DIX 2-3-500	6390250000
7	Contact tip	ø 8 x 45	DIX 3-2-__ SR	6290354 __
8	Contact tip	M6 x 28	DIX 3-2-__	6290300 __
	Contact tip	M6 x 28	DIX 3-2-__ CR-ZR	6290330 __
9	Contact tip	M8 x 28	DIX 3-2-__ M8	6290301 __
	Contact tip	M8 x 28	DIX 3-2-__ M8 CR-ZR	6290331 __
10	Tip adapter	M6	DIX GS 2 M6	628150006
11	Clamp nut		DIX 4-2-MAS	6390454000
12	Tip adapter	M8	DIX GS 2 M8	628150008
13	Gas diffuser		DIX 10- 3-540	6391054000
14	O - ring, 22x2 mm	(10 pcs.)		639060003

-- Enter the required wire diameter, e.g.: 10 = 1.0 mm or 12 = 1.2 mm.

► Standard equipment for wire diameter 1.2 mm steel with gas nozzle diameter 15 mm, DIX 1-3-5415 A, (contact tip, DIX 3-2-1.2 SR, flush, clamp nut DIX 4-2-MAS, Gas diffuser DIX 10-3-540). Use the hook spanner DIX SLAT 4 to tighten torch heads.

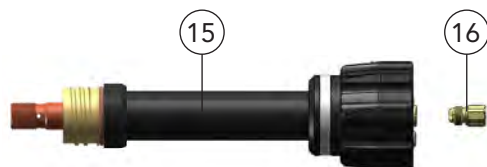
► K - short, R - reduced — Other designs on request.

\* Gas nozzle has no insulator.



## Spare parts and wear parts

### DIX METZ 540/542/544 (L)(XL), DIX METZ 548



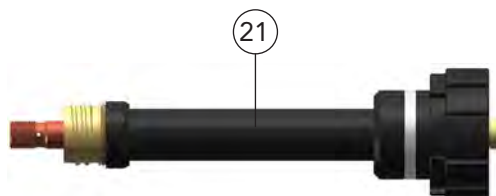
Description	Dimensions	Part name	Part number
15 Torch neck	0°	DIX 6-3-540 METZ	6390635400
Torch neck L	0°	DIX 6-3-540 L METZ	6390635402
Torch neck XL	0°	DIX 6-3-540 XL METZ	6390635405
Torch neck	22°	DIX 6-3-542 METZ	6390635420
Torch neck L	22°	DIX 6-3-542 L METZ	6390635403
Torch neck XL	22°	DIX 6-3-542 XL METZ	6390635406
Torch neck	45°	DIX 6-3-544 METZ	6390635440
Torch neck L	45°	DIX 6-3-544 L METZ	6390635404
Torch neck XL	45°	DIX 6-3-544 XL METZ	6390635407
Torch neck, not shown	30°	DIX 6-3-548 METZ	6390635480
16 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

### DIX MFTZ 5400/5422/5436/5445



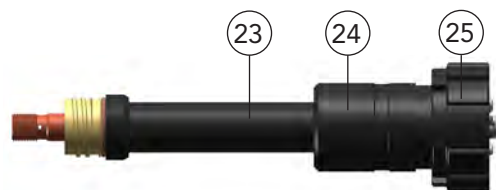
Description	Dimensions	Part name	Part number
17 Torch neck	0°	DIX 6-3-5400 MFTZ	6390685400
Torch neck	22°	DIX 6-3-5422 MFTZ	6390685422
Torch neck	36°	DIX 6-3-5436 MFTZ	6390685436
Torch neck	45°	DIX 6-3-5445 MFTZ	6390685445

### DIX MFTZ 2 / 5400/5422/5436/5445



Description	Dimensions	Part name	Part number
21 Torch neck	0°	DIX 6-3-5400 MFTZ 2	63906815400
Torch neck	22°	DIX 6-3-5422 MFTZ 2	63906815422
Torch neck	36°	DIX 6-3-5436 MFTZ 2	63906815436
Torch neck	45°	DIX 6-3-5445 MFTZ 2	63906815445

### DIX MBTZ 5400/5422/5435/5445



Description	Dimensions	Part name	Part number
23 Torch neck	0°	DIX 6-3-5400 MBTZ	639068000
Torch neck	22°	DIX 6-3-5422 MBTZ	639068001
Torch neck	35°	DIX 6-3-5435 MBTZ	639068002
Torch neck	45°	DIX 6-3-5445 MBTZ	639068003
24 Rubber cover		DIX GT 5400 MBTZ	639068029
25 Screw cap		DIX 6-3 MBTZ	639068011

MIG/MAG

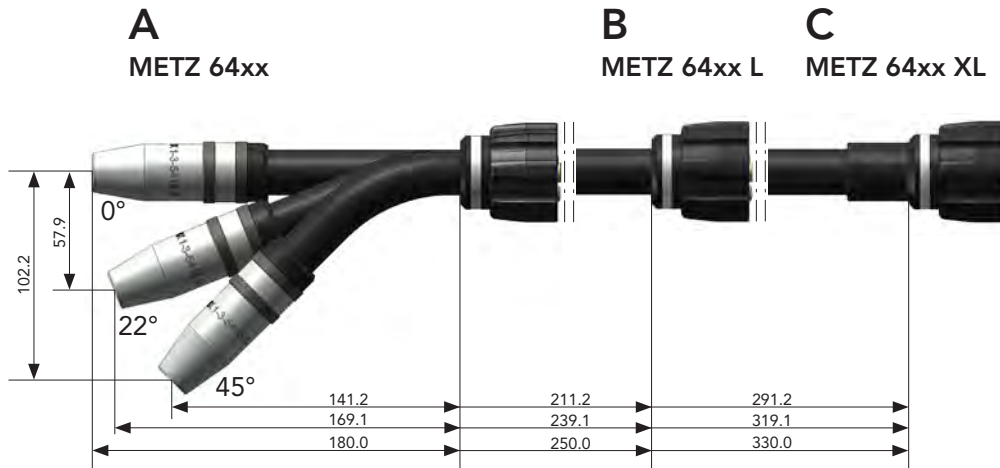
PUSH + PUSH-PULL



# Torch heads liquid-cooled MIG/MAG 64 series (up to 450A)

1

MIG/MAG  
PUSH + PUSH-PULL



### Properties

- ▶ Dual - circuit cooling system
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ Gas nozzle with trapezoid thread

### Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper-and nickel alloys

### Technical data (DIN EN 60 974-7):

	duty cycle
CO <sub>2</sub> :	450A/100%
Mixed gas:	400A/100%
Wire diameter:	1.0 - 1.6 mm

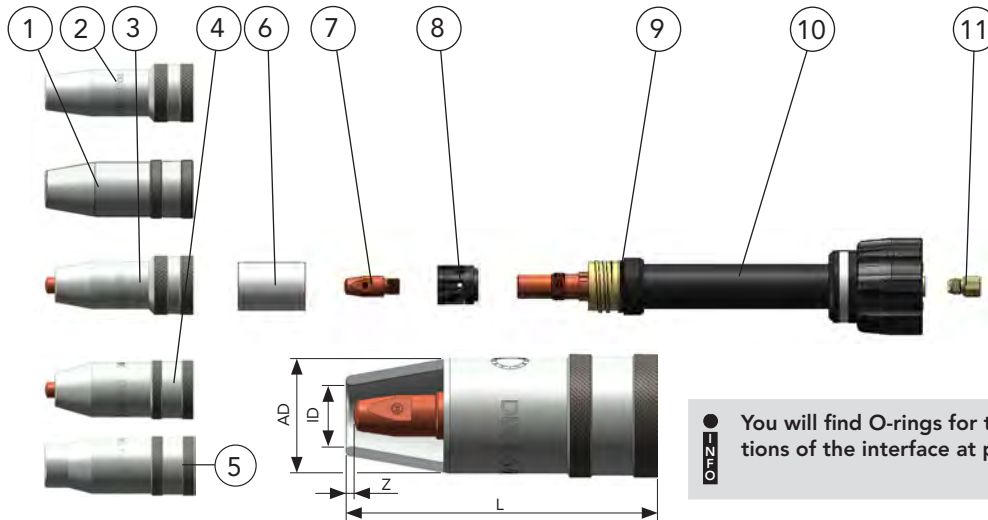
Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 6400	631136401
B Torch head L	0°	DIX METZ 6400 L	631164001
C Torch head XL	0°	DIX METZ 6400 XL	631164004
A Torch head	22°	DIX METZ 6422	631136402
B Torch head L	22°	DIX METZ 6422 L	631164002
C Torch head XL	22°	DIX METZ 6422 XL	631164005
A Torch head	45°	DIX METZ 6445	631136403
B Torch head L	45°	DIX METZ 6445 L	631164003
C Torch head XL	45°	DIX METZ 6445 XL	631164006

### Hint:

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



## DIX METZ 6400/6422/6445 (L) (XL)



**O-RING** You will find O-rings for the connections of the interface at page 384.

Description	Dimension (mm)	Part name	Part number
1 Gas nozzle	L 76/AD 28/ID 13/Z 2	DIX 1-3-5413 A	6390154130
Gas nozzle	L 76/AD 28/ID 15/Z 2	DIX 1-3-5415 A	6390154150
Gas nozzle	L 76/AD 28/ID 18/Z 2	DIX 1-3-5418 A	6390154180
Gas nozzle	L 76/AD 28/ID 13	DIX 1-3-5413 A	6390154130
2 Gas nozzle	L 76/AD 28/ID 15	DIX 1-3-5415 A	6390154150
Gas nozzle	L 76/AD 28/ID 18	DIX 1-3-5418 A	6390154180
Gas nozzle	L 76/AD 28/ID 21	DIX 1-3-5421 A	6390154210
3 Gas nozzle	L 76/AD 24/ID 13	DIX 1-3-5413 AR*	6390154135
Gas nozzle	L 76/AD 24/ID 15	DIX 1-3-5415 AR*	6390154155
4 Gas nozzle	L 76/AD 24/ID 18	DIX 1-3-5418 AR*	6390154185
Gas nozzle	L 71/AD 24/ID 13/K 5	DIX 1-3-5413 AKR*	6390154136
Gas nozzle	L 71/AD 24/ID 15/K 5	DIX 1-3-5415 AKR*	6390154156
5 Gas nozzle	L 71/AD 28/ID 13/K 5	DIX 1-3-5413 AK	6390154131
Gas nozzle	L 71/AD 28/ID 15/K 5	DIX 1-3-5415 AK	6390154151
6 Insulator	L 71/AD 28/ID 18/K 5	DIX 1-3-5418 AK	6390154181
7 Contact tip	L 76/AD 25/ID 15	DIX 1-3-5415 ARZ	6390154154
Contact tip	L 76/AD 28/ID 17	DIX 1-3-5417 A	6390154170
8 Gas diffuser		DIX 10-3-540/1607	63910916071
9 O - ring, 22x2 mm	(10 pcs.)		639060003
10 Torch neck	0°	DIX 6-3-6400 METZ	6390636400
Torch neck L	0°	DIX 6-3-6400 L METZ	6390636402
Torch neck XL	0°	DIX 6-3-6400 XL METZ	6390636405
Torch neck	22°	DIX 6-3-6422 METZ	6390636422
Torch neck L	22°	DIX 6-3-6422 L METZ	6390636403
Torch neck XL	22°	DIX 6-3-6422 XL METZ	6390636406
Torch neck	45°	DIX 6-3-6445 METZ	6390636445
Torch neck L	45°	DIX 6-3-6445 L METZ	6390636404
Torch neck XL	45°	DIX 6-3-6445 XL METZ	6390636407
11 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

-- Enter the required wire diameter, e.g.: 10 = 1.0 mm or 12 = 1.2 mm.

\* Gas nozzle has no insulator.

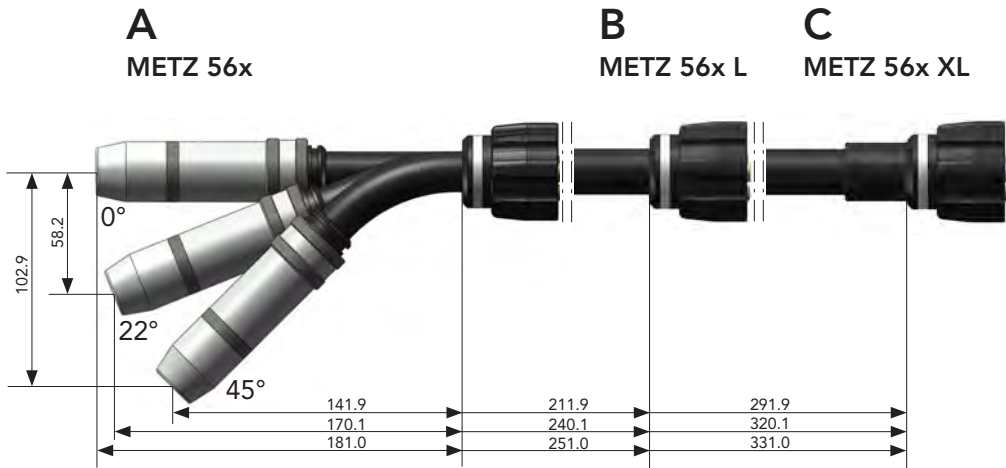
► Standard equipment for wire diameter 1.2 mm steel with gas nozzle diameter 15 mm, DIX 1-3-5415 A, (contact tip DIX 3-2-1.2 M8. recessed, gas diffussor DIX 10-3-540/1607). Use the hook spanner DIX SLAT 4 to tighten torch heads.



# Torch heads liquid-cooled MIG/MAG 56 series (up to 550A)

1

MIG/MAG  
PUSH + PUSH-PULL

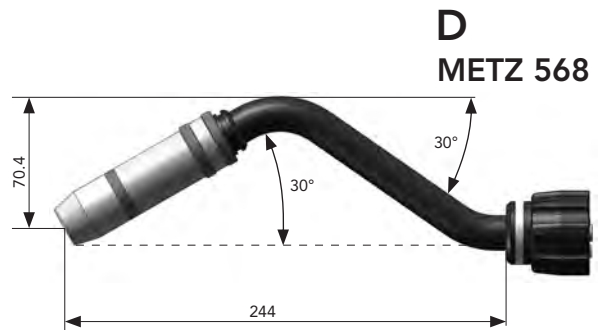


### Properties

- ▶ Dual - circuit cooling system
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ Gas nozzle with cooling jacket



Optionally with pluggable gas nozzle and clamping adapter



**For ECO.torch, LITE.torch and T.Connector HW**  
The center point of the sixth robot axis will be cut with a stickout of 15 mm.

### Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper- and nickel alloys
- ▶ Large material thicknesses

### Technical data (DIN EN 60 974-7):

CO <sub>2</sub> :	duty cycle 550A/100%
Mixed gas:	500A/100%
Wire diameter:	1.2 - 2.0 mm

Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 560	631356001
B Torch head L	0°	DIX METZ 560 L	631156001
C Torch head XL	0°	DIX METZ 560 XL	631156004
A Torch head	22°	DIX METZ 562	631356002
B Torch head L	22°	DIX METZ 562 L	631156002
C Torch head XL	22°	DIX METZ 562 XL	631156005
A Torch head	45°	DIX METZ 564	631356003
B Torch head L	45°	DIX METZ 564 L	631156003
C Torch head XL	45°	DIX METZ 564 XL	631156006
D Torch head	2 x 30°	DIX METZ 568	631356011

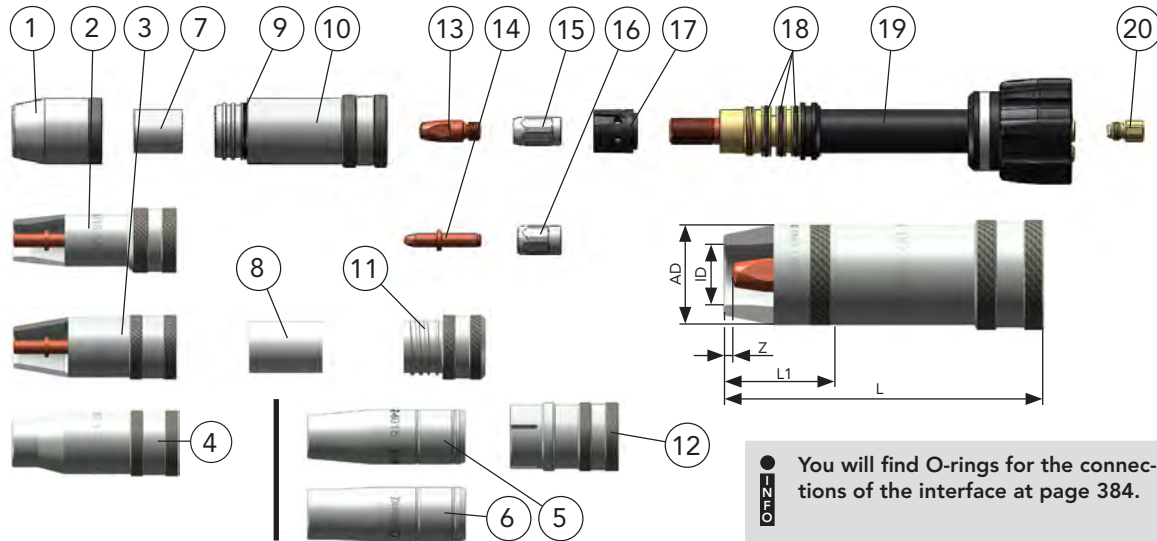
### Hint:

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.





## DIX METZ 560/562/564 (L) (XL), DIX METZ 568



Description	Dimension (mm)	Part name	Part number
1 Gas nozzle, for pos. 10	L 96/L1 32/AD 28/ID 13	DIX KMG 115 TR	628040315
Gas nozzle, for pos. 10	L 96/L1 32/AD 28/ID 18	DIX KMG 118 TR	628040318
Gas nozzle, for pos. 10	L 96/L1 32/AD 28/ID 21	DIX KMG 121 TR	628040321
2 Gas nozzle, for pos. 11	L 96/L1 76/AD 24/ID 15	DIX 1-3-5415 AR*	6390154155
Gas nozzle, for pos. 11	L 76/AD 24/ID 18	DIX 1-3-5418 AR*	6390154185
3 Gas nozzle, for pos. 11	L 96/L1 76/AD 28/ID 15	DIX 1-3-5415 A	6390154150
Gas nozzle, for pos. 11	L 96/L1 76/AD 28/ID 15	DIX 1-3-5418 A	6390154180
Gas nozzle, for pos. 11	L 76/AD 28/ID 21	DIX 1-3-5421 A	6390154210
4 Gas nozzle, for pos. 11	L 76/AD 25/ID 15	DIX 1-3-5415 ARZ	6390154154
Gas nozzle, for pos. 11	L 76/AD 28/ID 17	DIX 1-3-5417 A	6390154170
5 Gas nozzle, pluggable, for Pos. 12	ID ø 15 mm	DIX 1-2-4015	629010015
6 Gas nozzle, pluggable, for Pos. 12	ID ø 18 mm	DIX 1-2-4018	629010018
7 Cooling jacket insulator, for pos. 10		DIX KME 110	628040303
8 Insulator, for pos. 11		DIX 2-3-500	6390250000
9 O-Ring (Viton), 23x1.5 mm	(10 pcs.)	DIX KMR 100	629110904
10 Cooling jacket, complete, with o-ring, for pos. 1		DIX KM 100	628040301
11 Screw adapter, complete, with O-ring, for pos. 2 – 4		DIX SAD 2-404/540	628140000
12 Clamp sleeve, for Pos. 5+6		DIX KAD 4040	629051400
13 Contact tip	M8 x 28	DIX 3-2-__ M8	6290301__
Contact tip	M8 x 28	DIX 3-2-__ M8 CR-ZR	6290331__
14 Contact tip	ø 8 x 45	DIX 3-2-__ SR	6290354__
15 Tip adapter	M8	DIX GS 2-M8	628150008
16 Clamp nut		DIX 4-2-MAS	6390454000
17 Gas diffuser		DIX 10-3-540	6391054000
18 O - ring, 18x2 mm	(12 pcs.)		639060005
19 Torch neck	0°	DIX 6-3-560 METZ	6390635600
Torch neck L	0°	DIX 6-3-560 L METZ	6390635602
Torch neck XL	0°	DIX 6-3-560 XL METZ	6390635605
Torch neck	22°	DIX 6-3-562 METZ	6390635620
Torch neck L	22°	DIX 6-3-562 L METZ	6390635603
Torch neck XL	22°	DIX 6-3-562 XL METZ	6390635606
Torch neck	45°	DIX 6-3-564 METZ	6390635640
Torch neck L	45°	DIX 6-3-564 L METZ	6390635604
Torch neck XL	45°	DIX 6-3-564 XL METZ	6390635607
Torch neck	2 x 30°	DIX 6-3-568 METZ	6390635680
20 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

-- Enter the required wire diameter, e.g.: 12 = 1.2 mm or 16 = 1.6 mm.

► Standard equipment for wire diameter 1.2 mm steel with cooling jacket DIX KM 100. gas nozzle diameter 18 mm, DIX KMG 118 TR, (contact tip DIX 3-2-1.2 M8. flush, tip adapter DIX GS 2-M8. gas diffuser DIX 10-3-540). Use the hook spanner DIX SLAT 4 to tighten torch heads.

► R - reduced — Other designs on request.

\* Gas nozzle has no insulator.



# Torch heads liquid-cooled MIG/MAG 57 series (up to 550A)

## Properties

- ▶ Dual - circuit cooling system
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ Gas nozzle with trapezoid thread and screw adapter

## Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper-and nickel alloys

## Technical data (DIN EN 60 974-7):

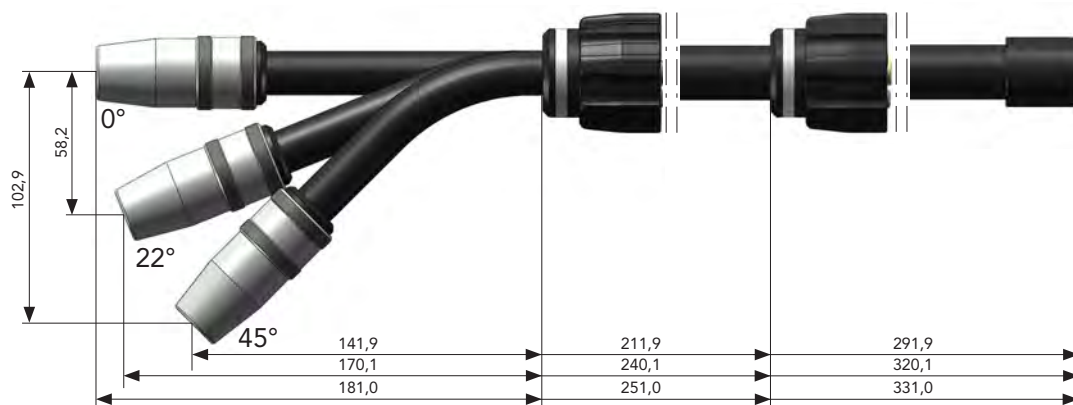
CO <sub>2</sub> :	duty cycle 550A/100%
Mixed gas:	500A/100%
Wire diameter:	1.2 - 2.0 mm



▶ The DIX SAD 5700 screw adapter has been designed to close the open cooling circuit on the carrier sleeve of the torch neck. Thus, the cooling unit does not need to be turned off before a gas nozzle is changed. The matching gas nozzles can be found in the spare parts and wear parts list on the next page.

## Interface fitting for DINSE torch sets

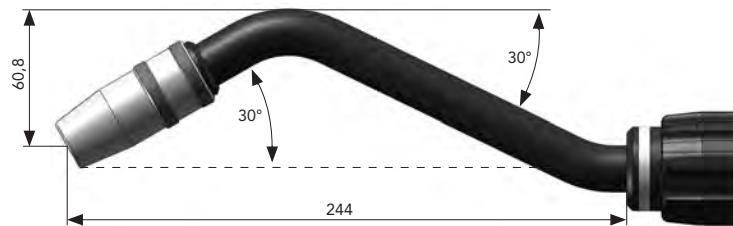
**A**  
DIX METZ 57x



**B**  
DIX METZ 57x L

**C**  
DIX METZ 57x XL

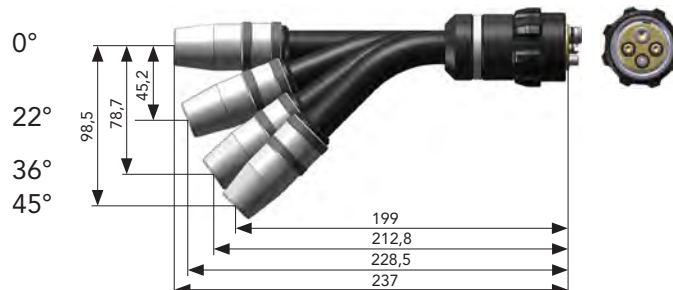
**D**  
DIX METZ 578



For ECO.torch, LITE.torch and T.Connector HW  
The center point of the sixth robot axis will be cut with a stickout of 15 mm.

## Interface fitting for Fronius® torch sets\*

**E**  
MFTZ 57xx



# Torch heads liquid-cooled MIG/MAG 57 series (up to 550A)



## DIX METZ 57x (L)(XL) interface fitting for DINSE torch sets

Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 570	631357001
B Torch head L	0°	DIX METZ 570 L	631157001
C Torch head XL	0°	DIX METZ 570 XL	631157004
A Torch head	22°	DIX METZ 572	631357002
B Torch head L	22°	DIX METZ 572 L	631157002
C Torch head XL	22°	DIX METZ 572 XL	631157005
A Torch head	45°	DIX METZ 574	631357003
B Torch head L	45°	DIX METZ 574 L	631157003
C Torch head XL	45°	DIX METZ 574 XL	631157006
D Torch head	2 x 30°	DIX METZ 578	631357005

MIG/MAG

## DIX MFTZ 57xx interface fitting for Fronius® torch sets\*

Description	Dimension	Part name	Part number
E Replaces Fronius® torch heads of the Robacta 700/7000 series with the same TCP			
Torch head	0°	DIX MFTZ 5700	631505700
Torch head	22°	DIX MFTZ 5722	631505722
Torch head	36°	DIX MFTZ 5736	631505736
Torch head	45°	DIX MFTZ 5745	631505745

PUSH + PUSH-PULL

\*Fronius® is a registered trademark of Fronius International GmbH

### Hint:

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

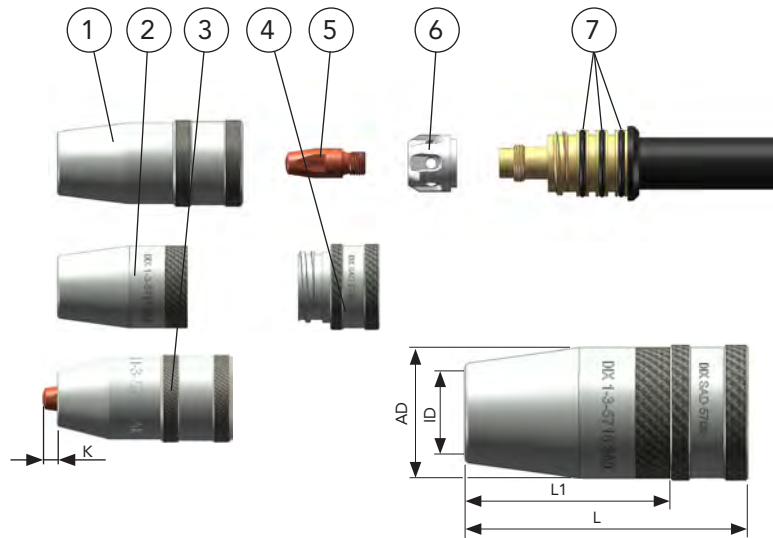


## 57 series

1

MIG/MAG

PUSH + PUSH-PULL



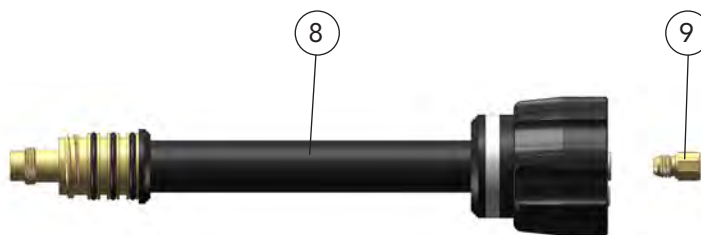
	Description	Dimension (mm)	Part name	Part number
1	Gas nozzle	L 65/AD 28/ID 15	DIX 1-3-5715 A	6390157150
	Gas nozzle	L 65/AD 28/ID 18	DIX 1-3-5718 A	6390157180
	Gas nozzle	L 65/AD 28/ID 21	DIX 1-3-5721 A	6390157210
2	Gas nozzle, for Pos. 4	L 65/L1 47/AD 28/ID 15	DIX 1-3-5715 SAD	6390257157
	Gas nozzle, for Pos. 4	L 65/L1 47/AD 28/ID 18	DIX 1-3-5718 SAD	6390257187
	Gas nozzle, for Pos. 4	L 65/L1 47/AD 28/ID 21	DIX 1-3-5721 SAD	6390257217
	Gas nozzle, oval for Pos. 4	L 65/L1 47/AD 28/ID 21	DIX 1-3-5721 SAD OVAL	6390257218
3	Gas nozzle	L 60/AD 28/ID 15/K 5	DIX 1-3-5715 AK	6390157151
4	Screw adapter, for Pos. 2		DIX SAD 5700	628145700
5	Contact tip	M8 x 28	DIX 3-2-__ M8	6290301__
	Contact tip	M8 x 28	DIX 3-2-__ M8 CR-ZR	6290331__
6	Gas diffuser		DIX 10-2-305 K	6291003051
7	O - ring, 18x2 mm	(12 pcs.)		639060005

-- Enter the required wire diameter, e.g.: 12 = 1.2 mm or 16 = 1.6 mm.

- ▶ Standard equipment for wire diameter 1.2 mm steel with gas nozzle diameter 18 mm, DIX 1-3-5718 A, (contact tip DIX 3-2-1.2 M8. flush, Gas diffuser DIX 10-2-305 K). Use the hook spanner DIX SLAT 4 to tighten torch heads.

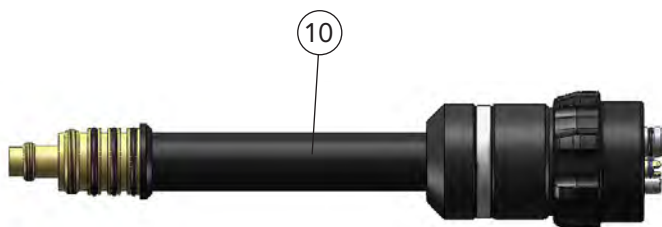


## DIX METZ 570/572/574 (L)(XL), METZ 578



Description	Dimension	Part name	Part number
8 Torch neck	0°	DIX 6-3-570 METZ	6390635700
Torch neck L	0°	DIX 6-3-570 L METZ	6390635702
Torch neck XL	0°	DIX 6-3-570 XL METZ	6390635705
Torch neck	22°	DIX 6-3-572 METZ	6390635720
Torch neck,L	22°	DIX 6-3-572 L METZ	6390635703
Torch neck XL	22°	DIX 6-3-572 XL METZ	6390635706
Torch neck	45°	DIX 6-3-574 METZ	6390635740
Torch neck L	45°	DIX 6-3-574 L METZ	6390635704
Torch neck XL	45°	DIX 6-3-574 XL METZ	6390635707
Torch neck, not shown	2 x 30°	DIX 6-3-578 METZ	6390635780
9 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

## DIX MFTZ 5700/5722/5736/5745



Description	Dimension	Part name	Part number
10 Torch neck	0°	DIX 6-3-5700 MFTZ	6390685700
Torch neck	22°	DIX 6-3-5722 MFTZ	6390685722
Torch neck	36°	DIX 6-3-5736 MFTZ	6390685736
Torch neck	45°	DIX 6-3-5745 MFTZ	6390685745



You will find O-rings for the connections of the interface at page 384.

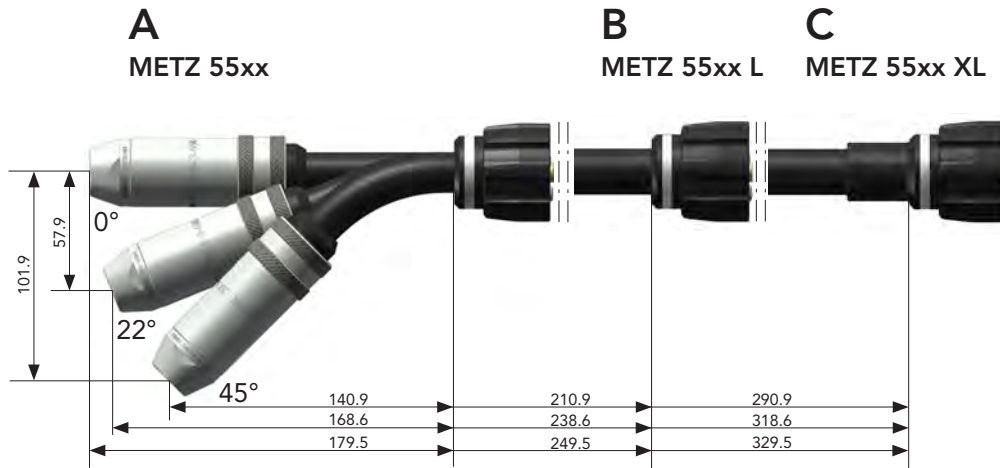
MIG/MAG  
PUSH + PUSH-PULL



# Torch heads liquid-cooled MIG/MAG 55 series (up to 600A)

1

MIG/MAG  
PUSH + PUSH-PULL



### Properties

- ▶ Dual - circuit cooling system
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of raw materials used for perfect heat and power transmission
- ▶ TCP accuracy even at high duty cycles
- ▶ After a crash, torch necks can be straighten out by using checking jig with aligning module
- ▶ Gas nozzle with cooling jacket

### Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper-and nickel alloys
- ▶ Large material thicknesses

### Technical data (DIN EN 60 974-7):

CO <sub>2</sub> :	duty cycle 600A/100%
Mixed gas:	550A/100%
Wire diameter:	1.2 - 2.4 mm

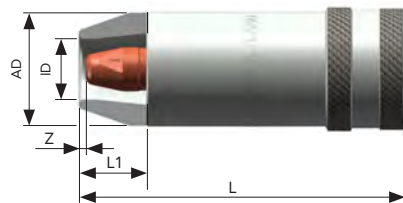
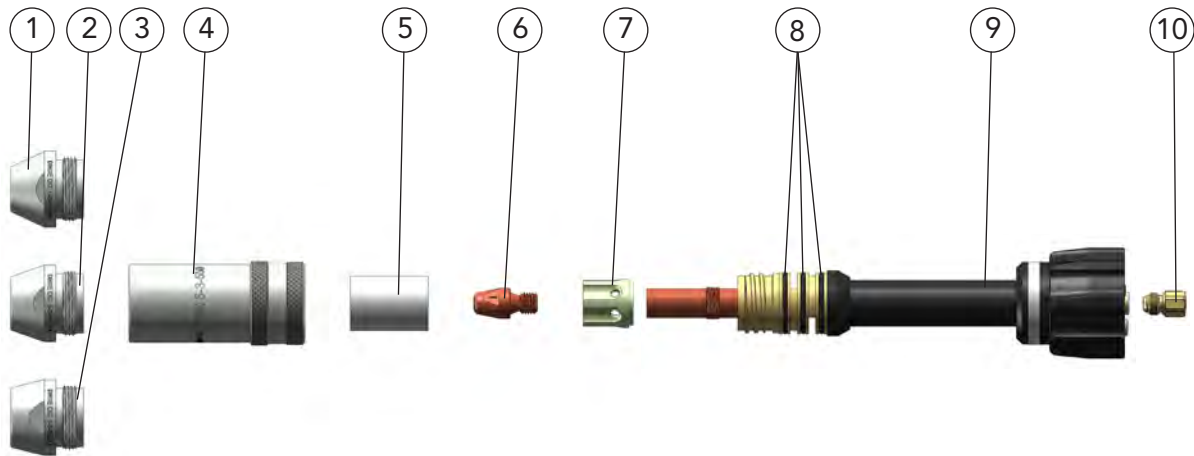
Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 5500	631355004
B Torch head L	0°	DIX METZ 5500 L	631155001
C Torch head XL	0°	DIX METZ 5500 XL	631155004
A Torch head	22°	DIX METZ 5522	631355005
B Torch head L	22°	DIX METZ 5522 L	631155002
C Torch head XL	22°	DIX METZ 5522 XL	631155005
A Torch head	45°	DIX METZ 5545	631355006
B Torch head L	45°	DIX METZ 5545 L	631155003
C Torch head XL	45°	DIX METZ 5545 XL	631155006

### Hint:

Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



## DIX METZ 5500/5522/5545 (L) (XL)



 You will find O-rings for the connections of the interface at page 384.

Description	Dimension (mm)	Part name	Part number
1 Gas nozzle	L 97/L1 20/AD 33.5/ID 15/Z 2	DIX 1-3-5515 A	6390155150
2 Gas nozzle	L 97/L1 20/AD 33.5/ID 18/Z 2	DIX 1-3-5518 A	6390155180
3 Gas nozzle	L 97/L1 20/AD 33.5/ID 21/Z 2	DIX 1-3-5521 A	6390155210
4 Cooling jacket		DIX 5-3-550	6390555000
5 Insulator		DIX 2-3-500	6390250000
6 Contact tip	M9 x 28	DIX 3-3-55_ _	63903551_0
7 Gas diffuser		DIX 10-3-550	6391055000
8 O - ring, 23x2 mm	(12 pcs.)		629900016
9 Torch neck	0°	DIX 6-3-5500 METZ	6390695500
Torch neck L	0°	DIX 6-3-5500 L METZ	6390635502
Torch neck XL	0°	DIX 6-3-5500 XL METZ	6390635505
Torch neck	22°	DIX 6-3-5522 METZ	6390695522
Torch neck L	22°	DIX 6-3-5522 L METZ	6390635503
Torch neck XL	22°	DIX 6-3-5522 XL METZ	6390635506
Torch neck	45°	DIX 6-3-5545 METZ	6390695545
Torch neck L	45°	DIX 6-3-5545 L METZ	6390635504
Torch neck XL	45°	DIX 6-3-5545 XL METZ	6390635507
10 Connecting piece		DIX MES 300/500	639061500041
Connecting piece(MEPTZ), not shown		DIX MEPS 300/500	6390665000
Clamp sleeve, not shown		DIX SH 270	629270270

-- Enter the required wire diameter, e.g.: 1 = 1.0 mm, 2 = 1.2 mm, 4 = 1.4 mm or 6 = 1.6 mm.

► Standard equipment for wire diameter 1.2 mm steel, gas diffuser 18 mm, DIX 1-3-5518 A, (contact tip DIX 3-3-5512. flush).

Use the hook spanner DIX SLAT 4 to tighten torch heads.



# Tandem Torch heads liquid cooled DIX METZ 500/007 TD (up to 2x550A)

1

MIG/MAG  
PUSH + PUSH-PULL

### Properties

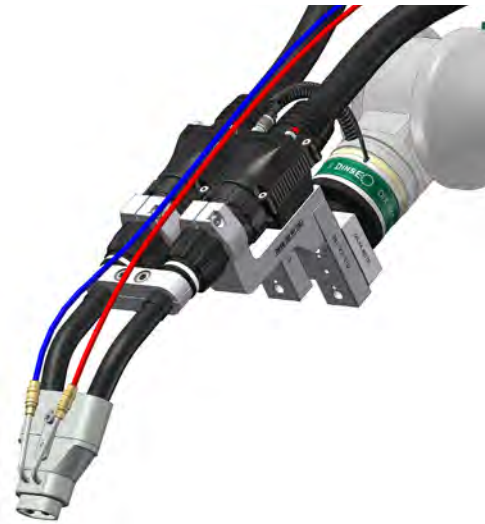
- ▶ Coordinated dual-circuit cooling system
- ▶ Extra cooled, double-walled gas nozzle
- ▶ Intelligent selection of the raw materials used for a perfect heat and power transmission
- ▶ The available wear parts have a long service life thanks to the perfect cooling by the torch necks
- ▶ Gas nozzle plugged



Tandem torch head METZ 500/007 TD with double-wall gas nozzle, nozzle sleeve and bracket

### Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper- and nickel alloys
- ▶ Large to medium material thicknesses



Tandem system DTS 601 - With torch head METZ 500/007 TD, torch bracket PHF 500 TD/004

### Technical data (DIN EN 60 974-7):

	duty cycle
CO <sub>2</sub> :	2x550/100%
Mixed gas:	2x500A/100%
Wire diameter:	1.2 - 1.6 mm

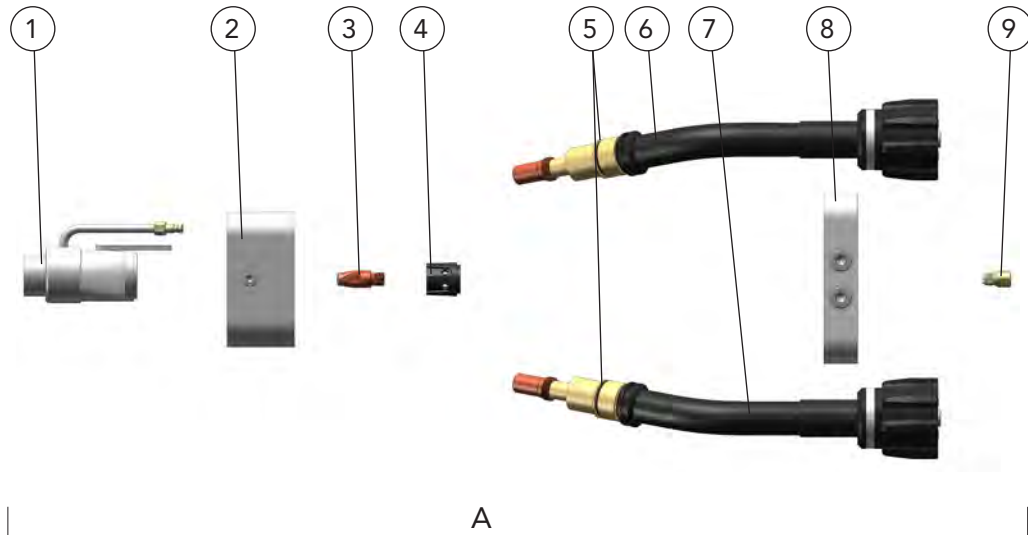


Tandem system DTS 600 - torch head METZ 500/007 TD, torch set METZ 600 SAZ, torch bracket PHF 500 TD/004 and Shock sensor SAS 200 - Application sample





## Torch head DIX METZ 500/007 TD



**METZ** You will find O-rings for the connections of the interface at page 384.

Description	Dimension	Part name	Part number
A Torch head, complete		DIX METZ 500/007 TD	631150001
1 Double-wall gas nozzle		DIX DWG 3-501 TD	639045010
2 Nozzle sleeve, compl.		DIX GDA 6-501 TD	6390635010
3 Contact tip	M8 x 28 mm	DIX 3-2-__ M8 CR-ZR	6290331__
4 Gas diffuser		DIX 10-3-540/1607	63910916071
5 O-Ring	18 x 2 mm (12 pcs.)		639060005
6 Torch neck Right-curved version	Radius 82	DIX 6-3-500/007 RTD	6390635012
7 Torch neck Left-curved version	Radius 82	DIX 6-3-500/007 LTD	6390635011
8 Bracket		DIX 6-3-500/006 TD	63906350010
9 Connecting piece		DIX MES 300/500	639061500041
Plug coupling, not shown		DIX DV-30-5	718930005

-- Standard wire diameter: 1.2 mm, 1.4 mm and 1.6 mm. Other wire diameter on request.

**Hint:**

Item 1. 2. 5. 6, 7 and 8 are used 1 piece each.  
Item 3. 4. and 9 each 2 pieces are used.



# Tandem Torch heads liquid cooled DIX METZ 500/010 TD (up to 2x550A)

1

MIG/MAG  
PUSH + PUSH-PULL

### Properties

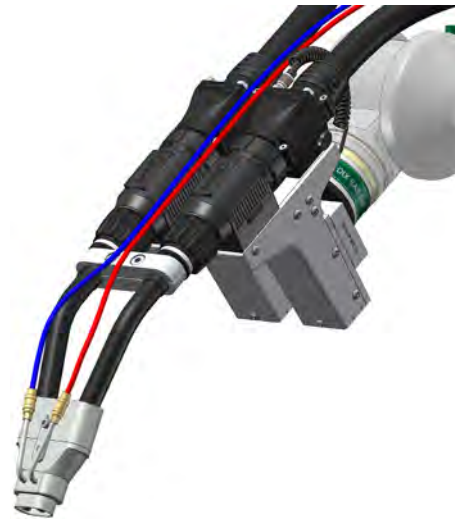
- ▶ Coordinated dual-circuit cooling system
- ▶ Extra cooled, double-walled gas nozzle
- ▶ Intelligent selection of the raw materials used for a perfect heat and power transmission
- ▶ The available wear parts have a long service life thanks to the perfect cooling by the torch necks
- ▶ Gas nozzle plugged



Tandem Torch head METZ 500/010 TD with double-wall gas nozzle, nozzle sleeve and bracket

### Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper-and nickel alloys
- ▶ Large to medium material thicknesses



Tandem system DTS 600 P - With Torch head METZ 500/010 TD, torch bracket MEP 500 TD/002

### Technical data (DIN EN 60 974-7):

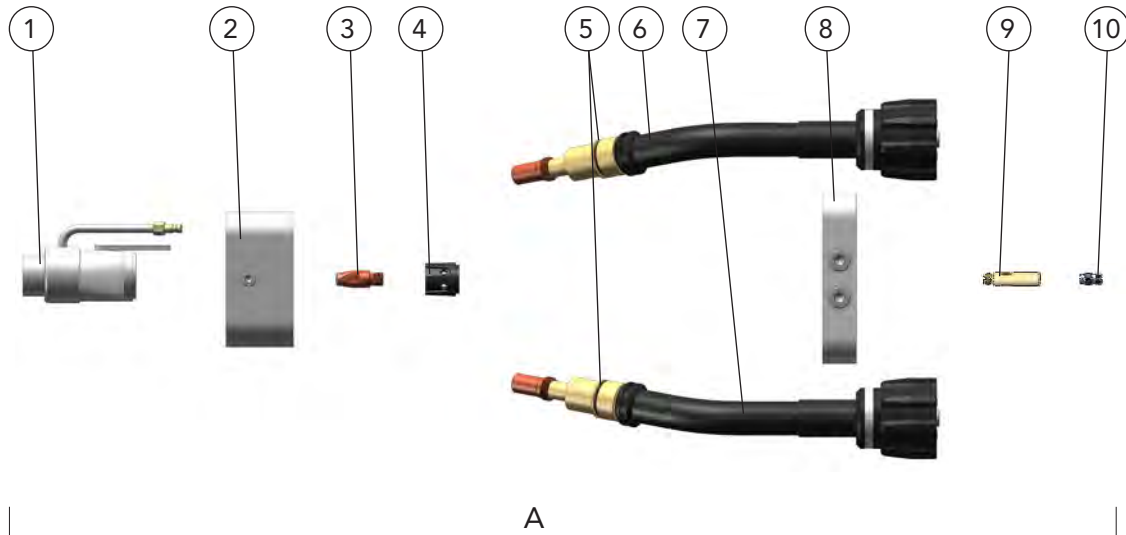
CO <sub>2</sub> :	duty cycle 2x550/100%
Mixed gas:	2x500A/100%
Wire diameter:	1.2 - 1.6 mm



Tandem system DTS 600 P - Torch head METZ 500/010 TD, torch set MEPTTZ 600 SAZ, torch bracket MEP 500 TD/002 and shock sensor SAS 200 - Application sample



## Torch head DIX METZ 500/010 TD



**O-RING** You will find O-rings for the connections of the interface at page 384.

Description	Dimension	Part name	Part number
A Torch head, complete		DIX METZ 500/010 TD	631150003
1 Double-wall gas nozzle		DIX DWG 3-501 TD	639045010
2 Nozzle sleeve, compl.		DIX GDA 6-501 TD	6390635010
3 Contact tip	M8 x 28 mm	DIX 3-2-__ M8 CR-ZR	6290331__
4 Gas diffuser		DIX 10-3-540/1607	63910916071
5 O-Ring	18 x 2 mm (12 pcs.)		639060005
6 Torch neck Right-curved version	Radius 82	DIX 6-3-500/010 RTD	6390635018
7 Torch neck Left-curved version	Radius 82	DIX 6-3-500/010 LTD	6390635017
8 Bracket		DIX 6-3-500/010 TD	63906350170
9 Connecting piece(MEPTZ)		DIX MEPS 300/500	6390665000
10 Clamp sleeve		DIX SH 270	629270270
Plug coupling, not shown		DIX DV-30-5	718930005

-- Standard wire diameter: 1.2 mm, 1.4 mm and 1.6 mm. Other wire diameter on request.

**Hint:**

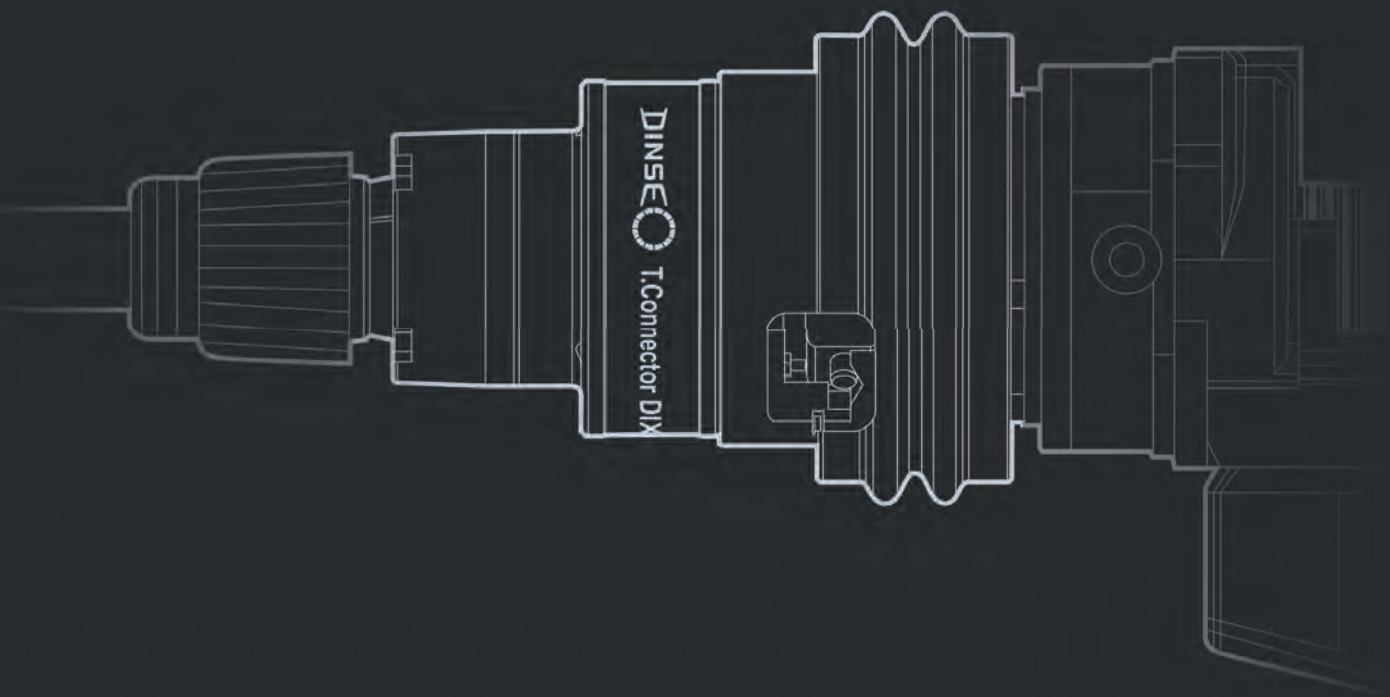
Item 1. 2. 5. 6, 7 and 8 are used 1 piece each.

Item 3. 4. 9 and 10 each 2 pieces are used.





# PERFECT CONNECTION HIGHEST PRECISION



## THE NEW T.CONNECTOR HW

### Totally convincing:

- ▶ Perfect connection to the robot
- ▶ Easy installation
- ▶ Slim design
- ▶ Low weight
- ▶ High availability
- ▶ Integrated shock sensor
- ▶ Maximum flexibility through +/- 260° rotation

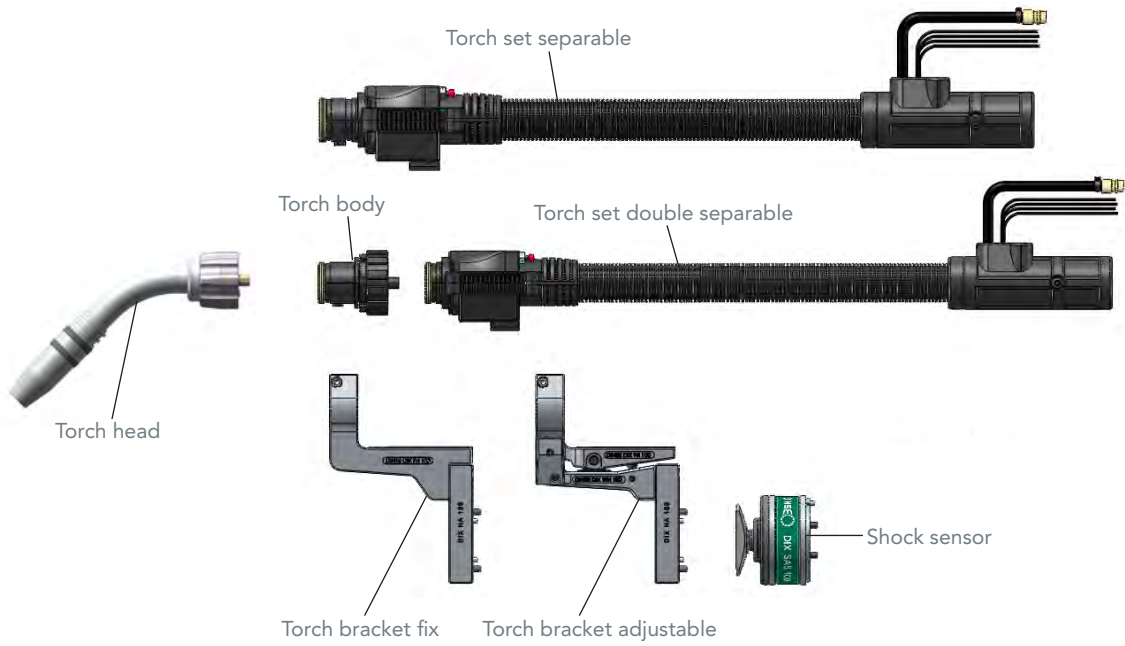
**WITH SHOCK  
SENSOR**

# MIG/MAG welding equipment for Push applications on conventional robots

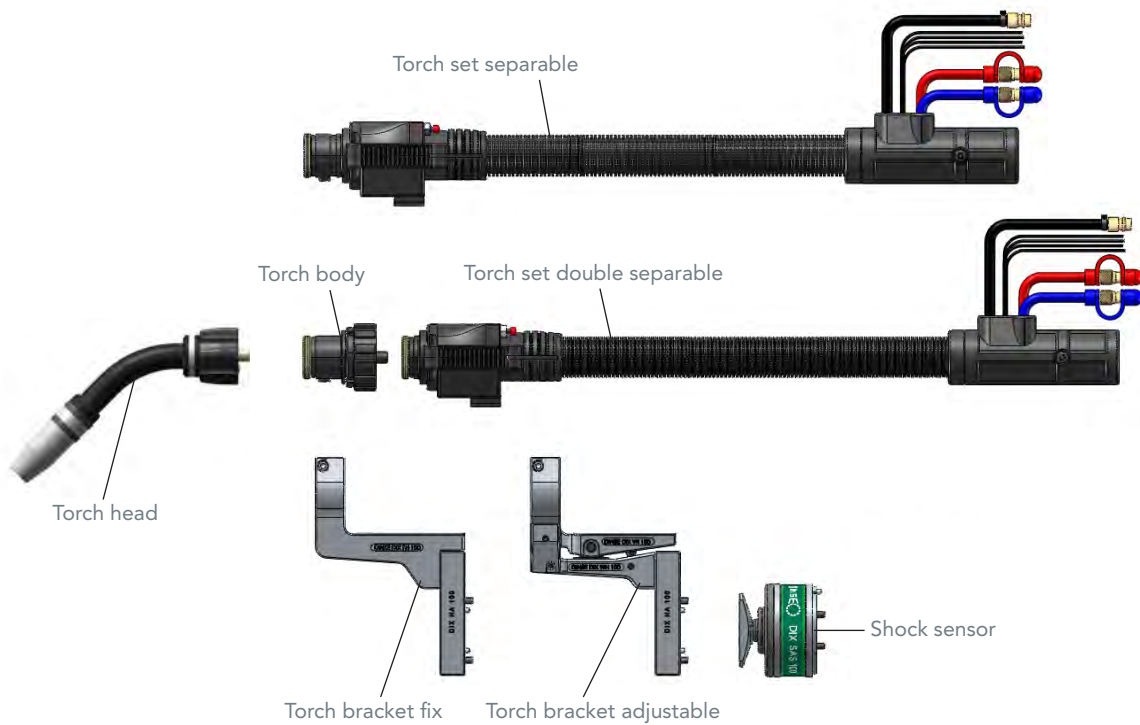


1

## DIX MET (gas cooled)



## DIX METZ (liquid cooled)



PUSH conventional robots MIG/MAG



# Torch brackets

## DIX PHF 100 / DIX PHF 130 / DIX PHF 3600

For robotic and half automation applications MIG/MAG

### Properties

- ▶ All common TCP's (different lengths and angles) with adapter flanges and further retainers attainable
- ▶ Torch brackets made of aluminum cast alloy
- ▶ High mechanical strength
- ▶ High dimension accuracy
- ▶ Low weight
- ▶ Very good corrosion resistance



### Torch bracket, fixed PHF 100

Separable and double separable version, with shock sensor DIX SAS 100 (application sample)

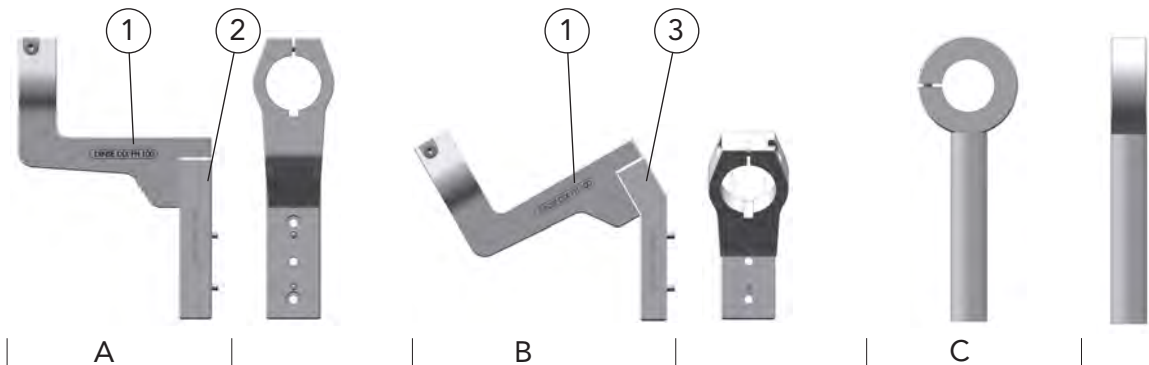
### Application

- ▶ For DINSE torch sets
  - gas cooled  
DIX MET / METT 310
  - liquid cooled  
DIX METZ / METTZ 600

### Technical data

#### Torch bracket, fixed PHF 100

TCP for torch heads, 45° without offset, with shock sensor  
DIX SAS 100: 400 mm to robotic flange



Description	Part name	Part number
A Torch bracket, fixed	DIX PHF 100	683500100
B Torch bracket, fixed 30°	DIX PHF 130	683500130
C Torch bracket, fixed	DIX PHF 3600	683503600

Spare parts and wear parts			
1 Bracket	DIX FH 100	683530100	
2 Retainer	DIX HA 100 (0°)	683510100	
3 Retainer	DIX HA 100/002 (30°)	683510130	

Hint: Service tools you will find in Chapter Tools and Accessories.



# Torch brackets

## DIX PHW 100

For robotic and half automation applications MIG/MAG



1

### Properties

- ▶ All common TCP's (different lengths and angles) with adapter flanges and further retainers attainable
- ▶ Torch brackets made of aluminum cast alloy
- ▶ High mechanical strength
- ▶ High dimension accuracy
- ▶ Low weight
- ▶ Very good corrosion resistance
- ▶ Flexible TCP adjustment by adjustable torch bracket



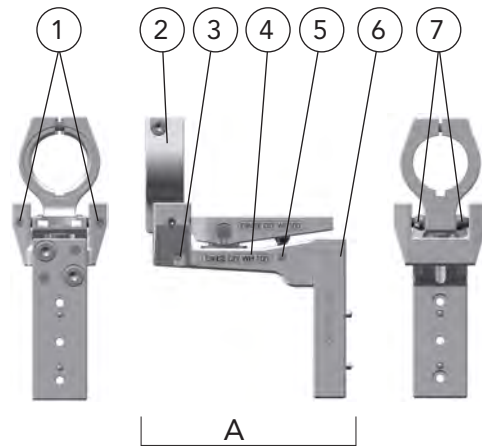
**Torch bracket, adjustable PHW 100**  
Separable and double separable version, with shock sensor DIX SAS 100 (application sample)

### Application

- ▶ For DINSE torch sets  
gas cooled  
DIX MET / METT 310  
liquid cooled  
DIX METZ / METTZ 600

### Technical data

**Torch bracket, adjustable PHW 100**  
TCP for torch heads, 45° without offset, with shock sensor  
DIX SAS 100: 400 mm to robotic flange



Description	Part name	Part number
A Torch bracket, adjustable	DIX PHW 100	683501100
<b>Spare parts and wear parts</b>		
1 Screw with tang M 6 x 8, including full ball Ø 3 mm	(10 pcs.)	683541002
2 Rocker	DIX WI 100	683551100
3 Screw with tang M 6 x 18, including full ball Ø 3 mm	(10 pcs.)	683541004
4 Adjustable bracket	DIX WH 100	683541100
5 Screw with tang M 6 x 12, including full ball Ø 3 mm	(10 pcs.)	683541003
6 Retainer	DIX HA 100 (0°)	683510100
7 Adjusting screw,	(10 pcs.) DIX WHS 100	683541001

**Hint:** Service tools you will find in Chapter Tools and Accessories.



# Torch brackets MIG/MAG

## DIX PHS 600 (torch bracket - system)

### For robotic and half automation applications

#### Properties

- ▶ All established TCP's (different lengths and angles) reachable by PH-Jointer and other PH-Retainer
- ▶ Bracket parts made of high-strength aluminum
- ▶ High mechanical strength
- ▶ High dimension accuracy
- ▶ Low weight
- ▶ Very good corrosion resistance
- ▶ Self-locking joint screw connection

#### Advantage

- ▶ High flexibility
- ▶ New clamping technique
- ▶ Mounting without PH-Jointer possible

#### Application

- ▶ For DINSE torch sets  
gas cooled  
DIX MET / METT 310  
liquid cooled  
DIX METZ / METTZ 600
- ▶ For front drive unit  
gas and liquid cooled  
DIX FD 200 M(E)



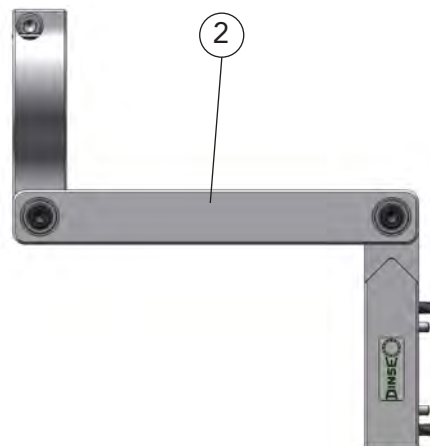
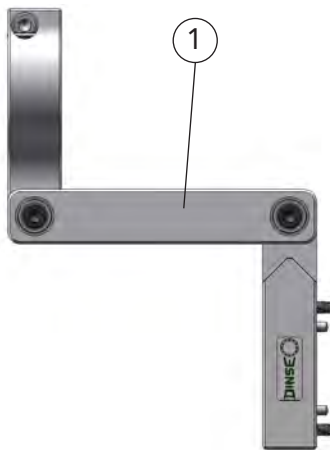
PH-System PH 600-104, with PH-Jointer PHV 600-104, Separable version, with shock sensor DIX SAS 100 (application sample)



PH-System PHS 600-129, with PH-Jointer PHV 600-129, Separable version, with shock sensor DIX SAS 100 (application sample)



Angle continuously adjustable



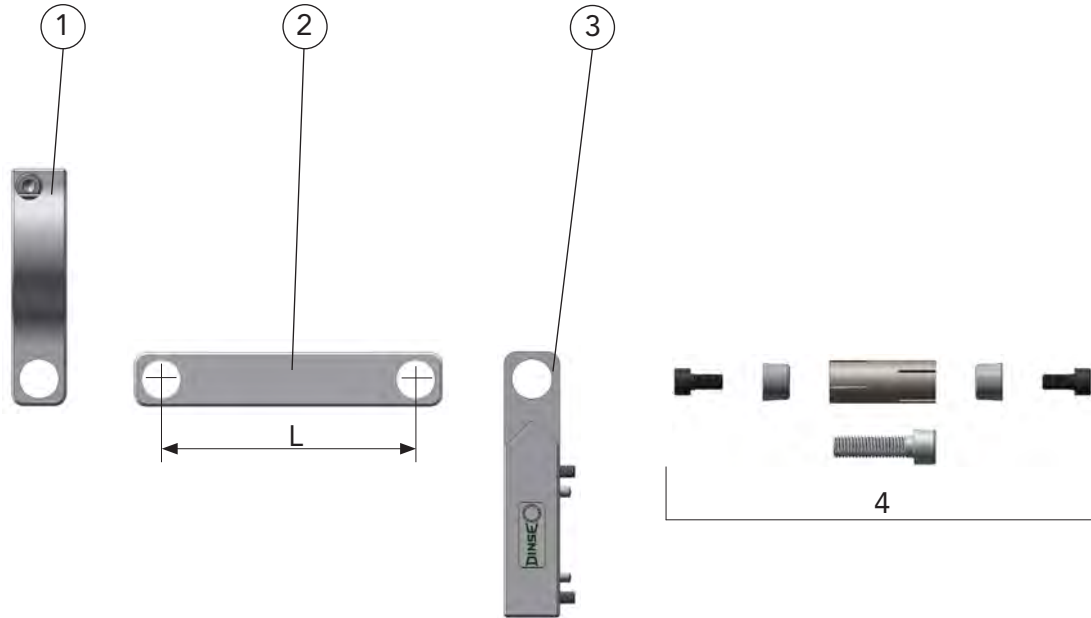
	Description	Part name	Part number
1	PH-System	DIX PHS 600-104	683500600
2	PH-System	DIX PHS 600-129	683500625

- ▶ Other torch bracket - systems on request.





## Torch bracket - system DIX PHS 600



MIG/MAG

PUSH conventional robots

	Description	Dimensions	Part name	Part number
1	PH-Torch set		DIX PHG 600	683521001
2	PH-Connector	L = 104 mm	DIX PHV 600-104	683522001
	PH-Connector	L = 129 mm	DIX PHV 600-129	683522002
3	PH-Retainer		DIX PHA 600	683523001
4	Clamp sleeve, complete		DIX SH 600	683524001

► Other PH-Jointer lengths on request.

# Torch brackets MIG/MAG

## DIX PHF 700 DD / DIX PHF 730 DD

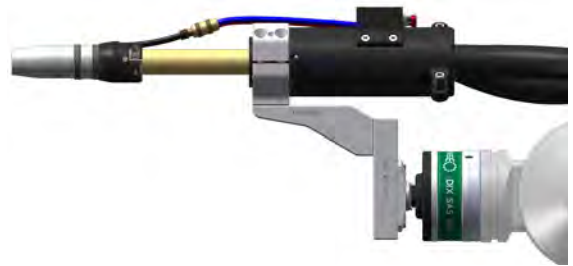
### For twin-wire system MEDD TWIN

#### Properties

- ▶ All common TCP's (different lengths and angles) with adapter flanges and further retainers attainable
- ▶ Torch brackets made of aluminum cast alloy
- ▶ High mechanical strength
- ▶ High dimension accuracy
- ▶ Low weight
- ▶ Very good corrosion resistance

#### Application

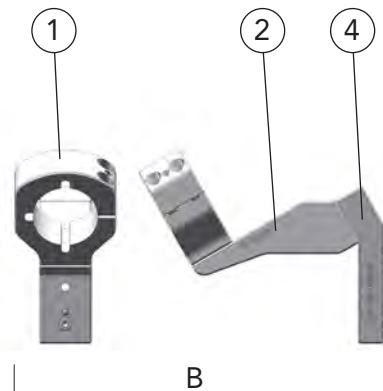
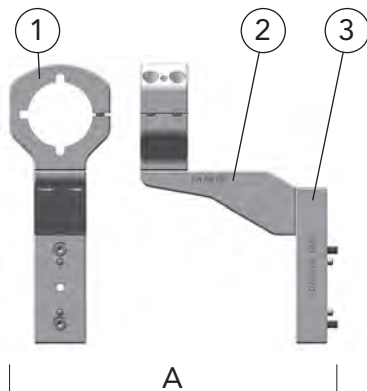
- ▶ For DINSE torch sets, liquid-cooled DIX MEDD 7xxx SAZ



**Torch bracket, fixed PHF 700 DD**  
with shock sensor DIX SAS 100/002 (sample application)



**Torch bracket, fixed PHF 730 DD**  
with shock sensor DIX SAS 100/002 (sample application)



Description	Part name	Part number
A Torch bracket, fixed	DIX PHF 700 DD	68350700
B Torch bracket, fixed 30°	DIX PHF 730 DD	68350730
<b>Spare parts and wear parts</b>		
1 Clamping block	DIX SB 700 DD	68350702
2 Bracket	DIX H 700 DD	68350703
3 Retainer	DIX HA 100 (0°)	683510100
4 Retainer	DIX HA 100/002 (30°)	683510130

**Hint:** Service tools you will find in Chapter Tools and Accessories.



# Shock sensors

## DIX SAS 100

### For robotic and half automation applications



#### Properties

- ▶ Crash-protection of robot, welding torch and welding fixture at collision in set up and automatic mode
- ▶ Quick shut down of the robot through program stop or emergency stop
- ▶ Precise reset after deflection
- ▶ Low weight

#### Application

- ▶ For DINSE torch systems  
gas cooled  
DIX MET / METT 310  
liquid cooled  
DIX METZ / METTZ 600
- ▶ For DINSE bracket systems  
DIX PHF, PHS and PHW



MIG/MAG application sample

#### Technical data (DIN EN 60 974-7):

Reset accuracy:	± 0.03 mm
400 mm to robotic flange	
Deflection range:	20°
Cut-out torque:	14.5 / 18 / 10.5 Nm
Switch class:	Normally closed
Switching capacity:	30V DC/0.5A
Dimension (D/H):	ø 78.5 / 65 mm
Weight:	660 g
Cable length:	100-850 mm
Adapter flange	DIX ADF 6xxx
Bore pattern dependent of robot type	DIX ADFD 6xxx



**Hint:** Information to the appropriate adapter flanges ADF you will find in Chapter System Components..

Description	Dimension	Part name	Part number
A Shock sensor with cut-out torque 14.5 Nm	ø 78,5 / 65 mm	DIX SAS 100	683100001
Shock sensor for FRONIUS®*adapter cable 3 pins with cut-out torque 14.5 Nm	ø 78,5 / 65 mm	DIX SAS 100/001	683100028
Shock sensor with cut-out torque 18 Nm	ø 78,5 / 65 mm	DIX SAS 100/002 VA	683100035
Shock sensor with cut-out torque 10.5 Nm	ø 78,5 / 65 mm	DIX SAS 100/003	683100038
<b>Spare parts and wear parts</b>			
1 Dust boot		DIX SAS 640	683100015
2 Switch set		DIX SAS 650	683100018

**Hint:** Service tools you will find in Chapter Tools and Accessories.

\*Fronius® is a registered trademark of Fronius International GmbH

MIG/MAG  
PUSH conventional robots

1





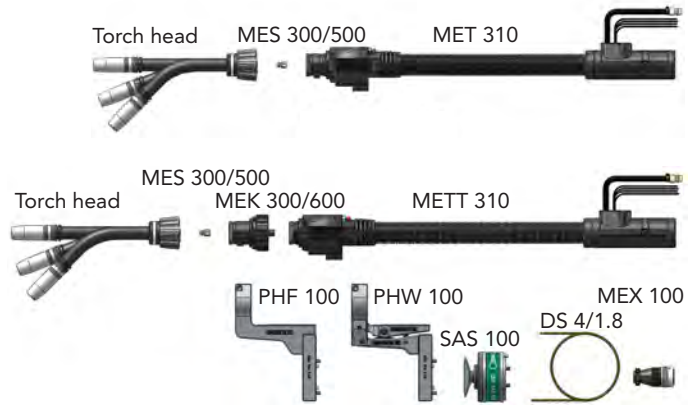
# Torch sets gas-cooled MIG/MAG for conventional robots

## DIX MET(T) 310 (SA)(N)

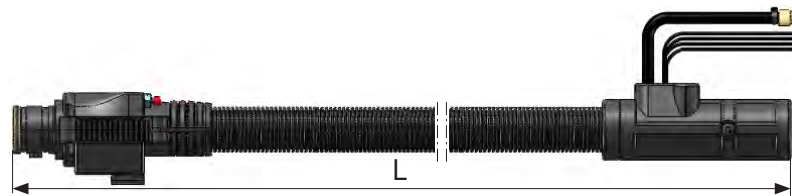
### Separable and double separable version

#### Applications

- ▶ For DINSE torch heads gas cooled  
DIX MET 35x/39x  
DIX MET 32xx/37xx/39xx
- ▶ Each length is possible as a customized solution
- ▶ We offer cable plugs and power pins for all common wire feeders

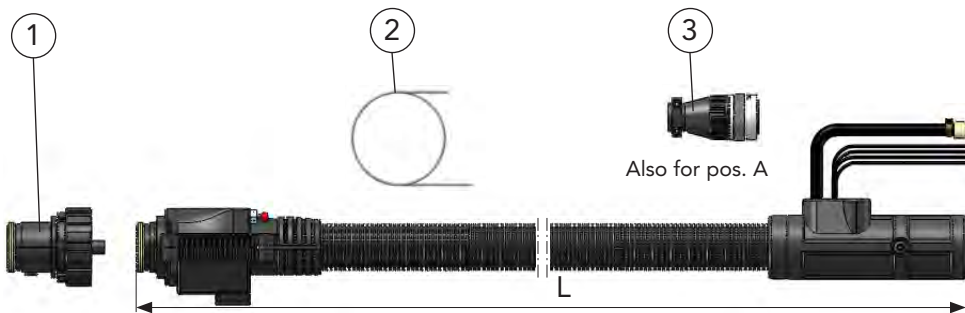


A



Separable version with DINSE connection application sample

B



Double separable version with DINSE connection application sample

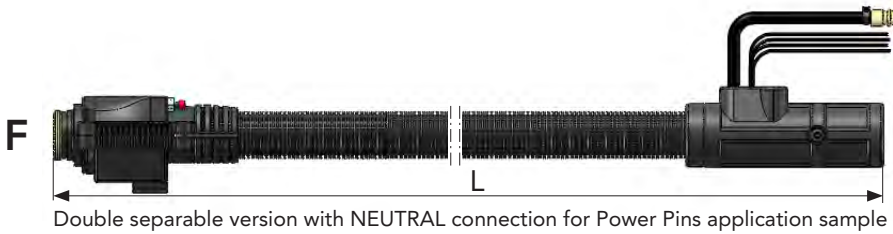
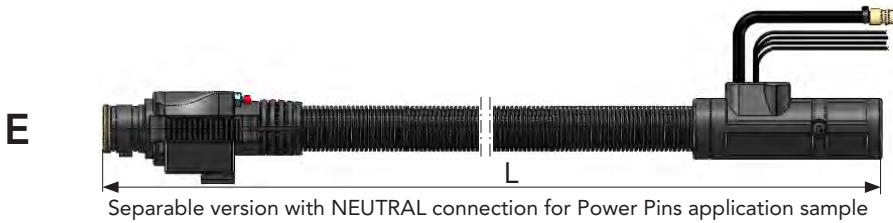
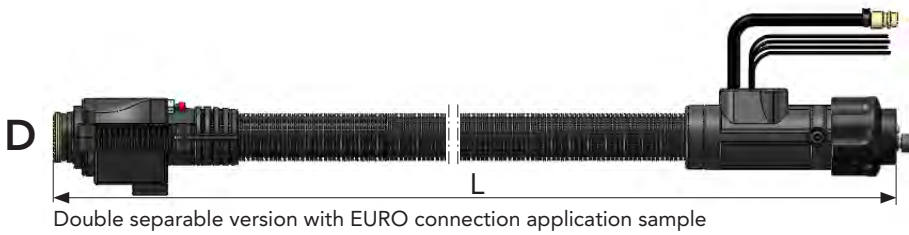
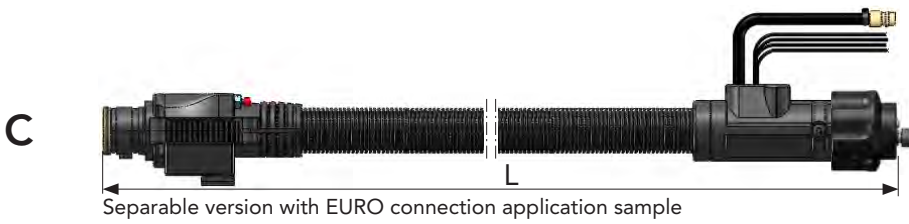
	Description	Dimensions	Part name	Part number
A	Torch set	1.2 m	DIX MET 310-1.2	630132005
	Torch set	1.4 m	DIX MET 310-1.4	630132006
	Torch set	2.0 m	DIX MET 310-2.0	630132007
B	Torch set	1.2 m	DIX METT 310-1.2	630133004
	Torch set	1.4 m	DIX METT 310-1.4	630133005
	Torch set	2.0 m	DIX METT 310-2.0	630133006
1	Torch body		DIX MEK 300/600	631015005
2	Liner __ - Standard lengths:	ø 1.8 / __ m 1.7 m, 1.9 m and 2.5 m	DIX DS 4/1.8-__	6130002__
3	Cable plug set For DINSE WD wire feeders		DIX MEX 100	639077001

\_\_ Enter the desired length of the liner, e.g.: 17 = 1.7 m or 25 = 2.5 m.

**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories. The order designation of the system components you will find in the corresponding chapter.



# Torch sets gas-cooled MIG/MAG for conventional robots DIX MET(T) 310 (SA)(N) Separable and double separable version



MIG/MAG

PUSH conventional robots

	Description	Dimensions	Part name	Part number
C	Torch set	1.2 m	DIX MET 310-1.2 SA	630132008
	Torch set	1.4 m	DIX MET 310-1.4 SA	630132009
	Torch set	2.0 m	DIX MET 310-2.0 SA	630132016
D	Torch set	1.2 m	DIX METT 310-1.2 SA	630133002
	Torch set	1.4 m	DIX METT 310-1.4 SA	630133114
	Torch set	2.0 m	DIX METT 310-2.0 SA	630133031
E	Torch set	1.2 m	DIX MET 310-1.2 N	630132146
	Torch set	1.4 m	DIX MET 310-1.4 N	630132147
	Torch set	2.0 m	DIX MET 310-2.0 N	630132148
F	Torch set	1.2 m	DIX METT 310-1.2 N	630133034
	Torch set	1.4 m	DIX METT 310-1.4 N	630133035
	Torch set	2.0 m	DIX METT 310-2.0 N	630133036

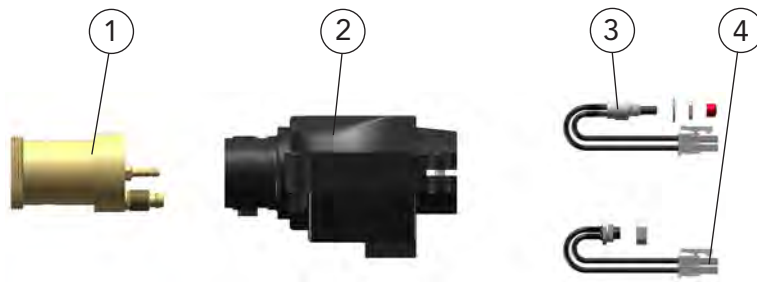
**NOTE** You need a Power Pin for the torch sets Pos. E and F.  
You will find the Power Pin that fits to your wire feeder in the Chapter System Components or you ask your DINSE consultant.



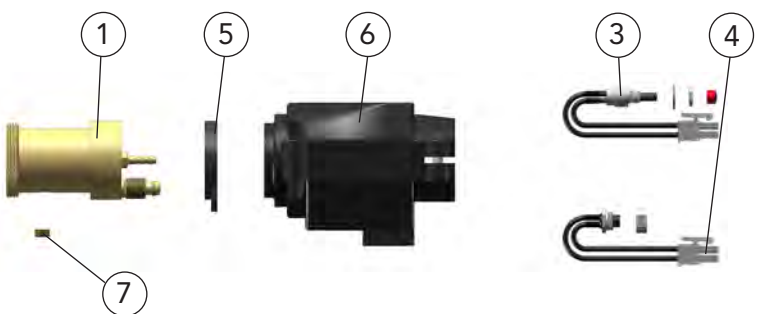


## Spare parts and wear parts

### Torch sets MET 310 (SA)(N) Connecting set for torch sets



### Torch sets METT 310 (SA)(N) Connecting set for torch sets



Description	Part name	Part number
1 Torch connection, ME	DIX ME 150	639150003
2 Housing, MET 1	DIX MET 070	639073019
3 Push button - Set, ME, for wire threading	DIX ME 080	639085001
4 Socket set, ME 1, for shock sensor	DIX ME 090	639076001
5 Housing supporting ring, METT	DIX METT 071	639073100012
6 Housing, METT 1	DIX METT 070	639073020
7 Fitting part, METT	DIX METT 072	6391530001

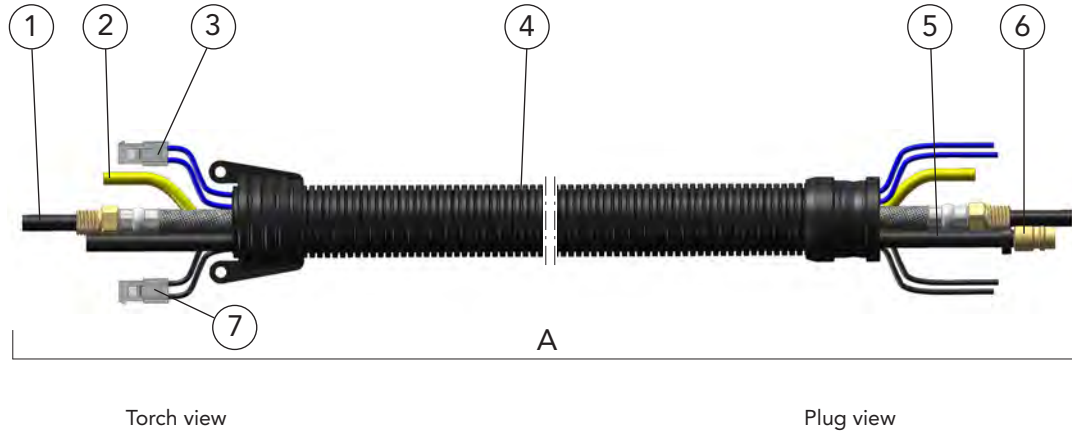
1

MIG/MAG

PUSH conventional robots



## Torch sets MET(T) 310 (SA)(N) Supply hose



Description	Part name	Part number
A Supply hose	DIX VLE 310-__	632233001__
1 Binary cable	DIX VL 2000-__	639206302__
2 Gas hose	DIX VL 180-__	639186001__
3 Control wire set, blue, for shock sensor	DIX VL 210-__	639216001__
4 Cover hose set (Can be retrofitted to bend protection DIX 25-3-601 ME)	DIX VL 230-__	639236001__
5 Air blast hose	DIX VL 240-__	639246001__
6 Air blast plug	DIX 16-3-506	6391650600
7 Control wire set, black, for set up mode	DIX VL 211-__	639216002__

-- Enter the desired length of the welding torch set, e.g.: 12 = 1.2 m or 14 = 1.4 m.  
Standard lengths: 1.2 m, 1.4 m and 2.0 m

► **Optional:**  
On request also with cover hose set DIX VL 233-\_\_, part number: 639236011\_\_  
(including bend protection DIX 25-3-601 ME, part number: 6392526001) available, see page 368.

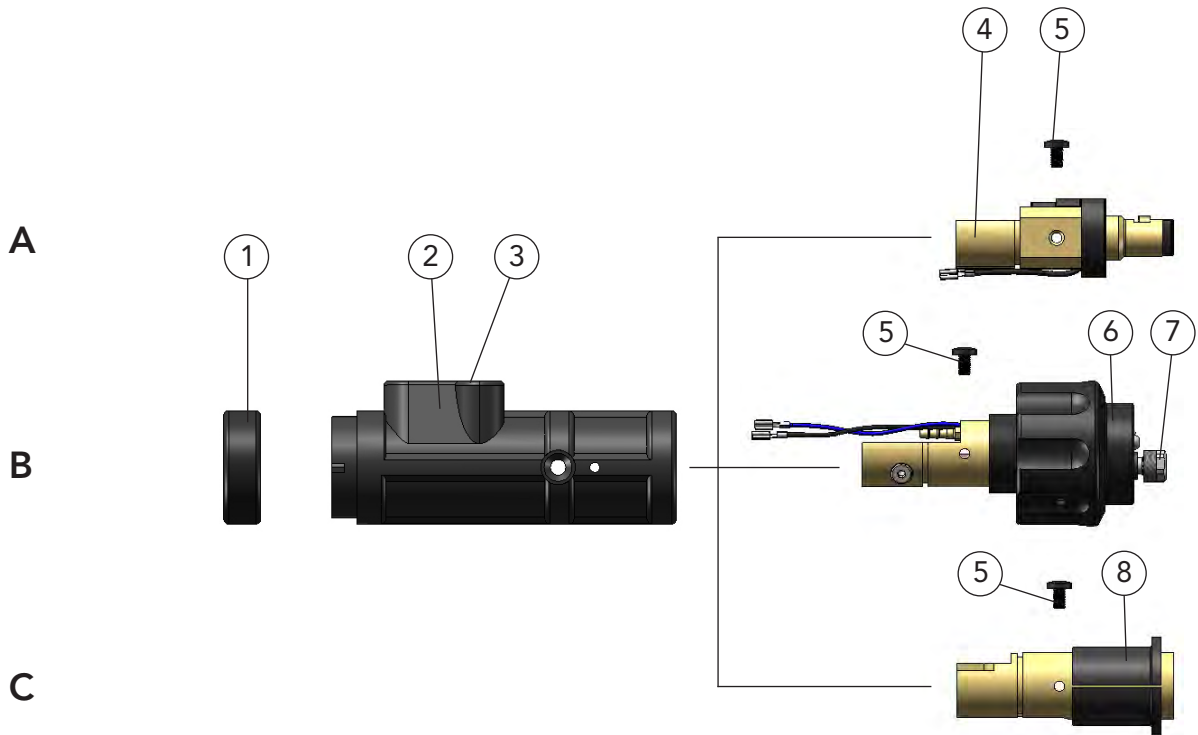


# Torch sets MET(T) 310 (SA)(N) Plug

1

MIG/MAG

PUSH conventional robots



**NOTE** You need a Power Pin for the compact plug DIX KCME 330 N (Pos. C). You will find the Power Pin that fits to your wire feeder in the Chapter System Components or you ask your DINSE consultant.

Description	Part name	Part number
A Plug	DIX KCME 300	638900026
B Plug	DIX KCME 300 SA	638900027
C Plug	DIX KCME 300 N	638900044
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG	6391250011
3 Sealing cap	DIX 12-3-510 DK	901515135
4 Plug insert	DIX ME 300 SE	639113004
5 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
6 Plug insert	DIX ME 600 SA	639116070
7 Clamp nut	DIX MEZ 113	639116007
8 Plug insert	DIX ME 300 N	639116077





# Torch sets liquid-cooled MIG/MAG for conventional robots

## DIX MET(T)Z 600 (SAZ)(N)(WB1)

### Separable and double separable version



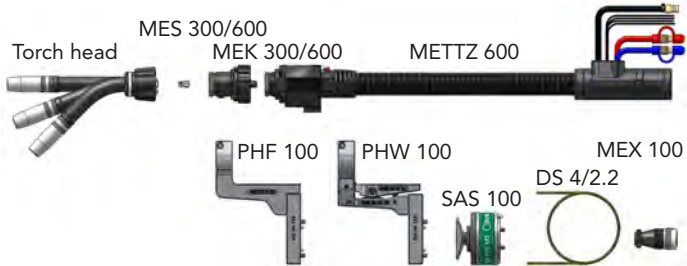
#### Applications

- For DINSE torch heads, liquid cooled  
DIX METZ 52x/59x/54x/56x/57x  
DIX METZ 58xx/64xx/55xx
- Each length is possible as a customized solution
- We offer cable plugs and power pins for all common wire feeders

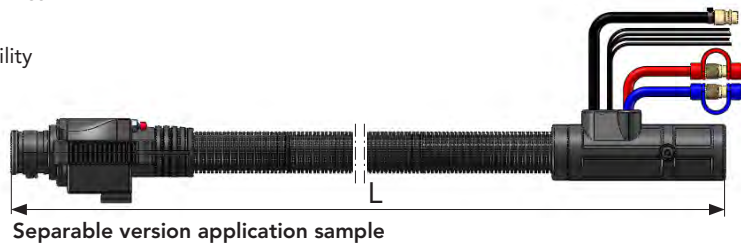


#### Torch sets with wire brake WB1

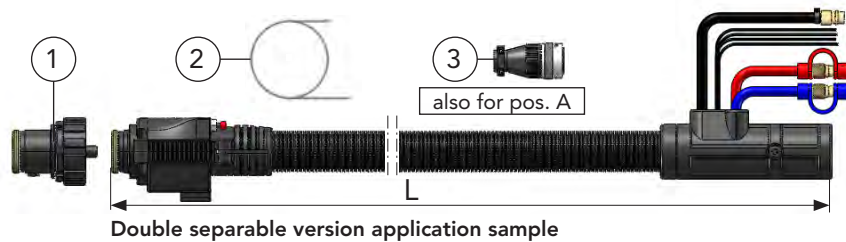
- Precise control of welding wire feed
- With free programmable braking cycles, the wire brake fixes the position of the wire
- Constant stickout
- For commonly used wires  
Ø 0.8 - 1.6 mm
- Optimum TCP reliability



**A**



**B**



	Description	Dimensions	Part name	Part number
A	Torch set	1.2 m	DIX METZ 600-1.2	630163022
	Torch set	1.4 m	DIX METZ 600-1.4	630163023
	Torch set	2.0 m	DIX METZ 600-2.0	630163024
	Torch set, with Wire brake WB1	1.2 m	DIX METZ 600-1.2 WB1	630163266
	Torch set, with Wire brake WB1	1.4 m	DIX METZ 600-1.4 WB1	630163267
	Torch set, with Wire brake WB1	2.0 m	DIX METZ 600-2.0 WB1	630163306
	B	Torch set	1.2 m	DIX METTZ 600-1.2
Torch set		1.4 m	DIX METTZ 600-1.4	630166002
Torch set		2.0 m	DIX METTZ 600-2.0	630166003
Torch set, with Wire brake WB1		1.2 m	DIX METTZ 600-1.2 WB1	630166155
Torch set, with Wire brake WB1		1.4 m	DIX METTZ 600-1.4 WB1	630166156
Torch set, with Wire brake WB1		2.0 m	DIX METTZ 600-2.0 WB1	630166157
1		Torch body		DIX MEK 300/600
2	Liner	ø 1,8 / _ _ m	DIX DS 4/1.8- _ _	6130002 _ _
	_ _ - Standard lengths:	1.7 m, 1.9 m, 2.5 m,		
2	Liner	ø 2,2 / _ _ m	DIX DS 4/2.2- _ _	6230003 _ _
	_ _ - Standard lengths:	1.7 m, 1.9 m, 2.5 m		
3	Cable plug set, for DINSE WD wire feeders		DIX MEX 100	639077001
	Wire brake valve, not shown, for "WB1" torch sets, for installation in the wire feeder or individually in the system, including hollow screw, screw-in thread G 1/8 "and plug connection for a 4mm hose		DIX DBV 101	629471101

\_ \_ Enter the desired length of the liner, e.g.: 17 = 1.7 m or 25 = 2.5 m.

#### Hint:

Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories. The order designation of the system components you will find in the corresponding chapter.

MIG/MAG

PUSH conventional robots





# Torch sets liquid-cooled MIG/MAG for conventional robots

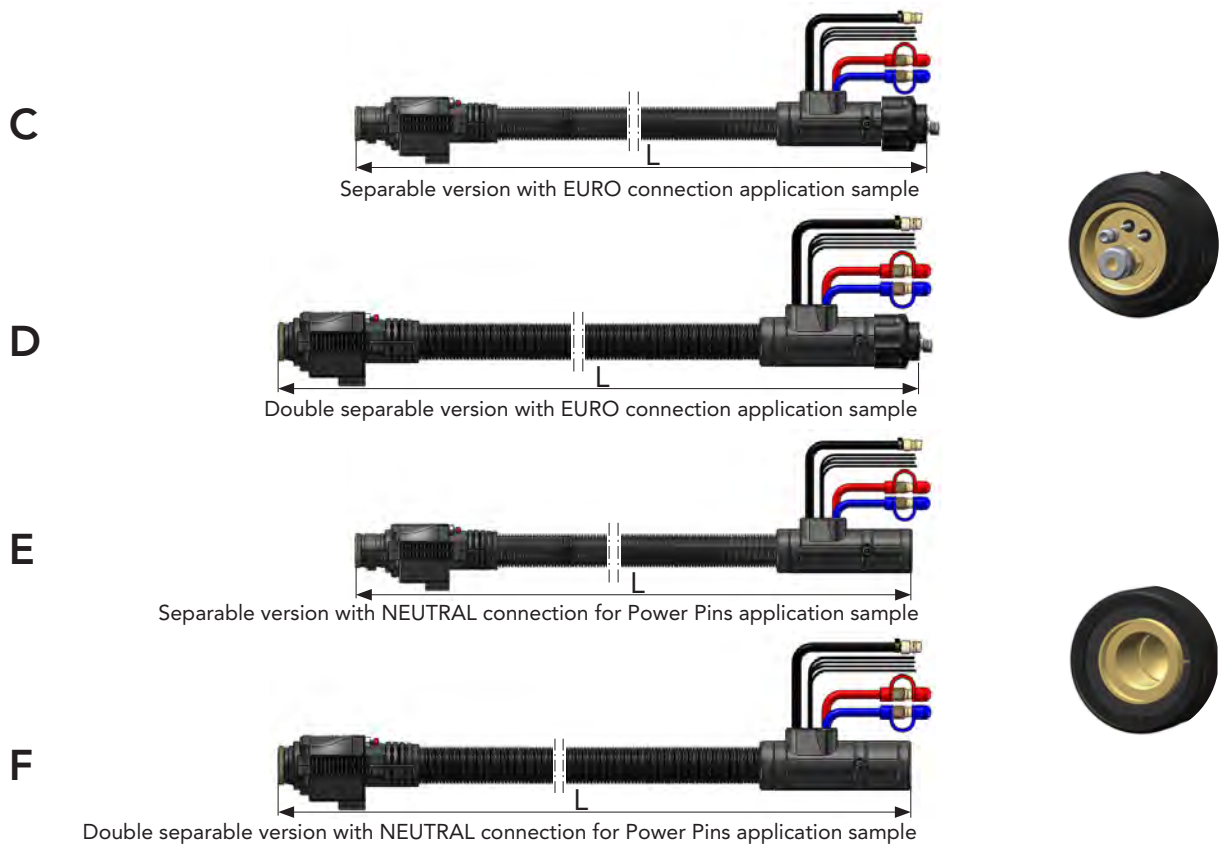
## DIX MET(T)Z 600 (SAZ)(N)

### Separable and double separable version

1

MIG/MAG

PUSH conventional robots



	Description	Dimensions	Part name	Part number
C	Torch set	1.2 m	DIX METZ 600-1.2 SAZ	630163025
	Torch set	1.4 m	DIX METZ 600-1.4 SAZ	630163026
	Torch set	2.0 m	DIX METZ 600-2.0 SAZ	630163043
	Torch set, with Wire brake WB1	1.2 m	DIX METZ 600-1.2 SAZ WB1	630163248
	Torch set, with Wire brake WB1	1.4 m	DIX METZ 600-1.4 SAZ WB1	630163249
	Torch set, with Wire brake WB1	2.0 m	DIX METZ 600-2.0 SAZ WB1	630163295
D	Torch set	1.2 m	DIX METTZ 600-1.2 SAZ	630166011
	Torch set	1.4 m	DIX METTZ 600-1.4 SAZ	630166009
	Torch set	2.0 m	DIX METTZ 600-2.0 SAZ	630166023
	Torch set, with Wire brake WB1	1.2 m	DIX METTZ 600-1.2 SAZ WB1	630166_ _
	Torch set, with Wire brake WB1	1.4 m	DIX METTZ 600-1.4 SAZ WB1	630166_ _
	Torch set, with Wire brake WB1	2.0 m	DIX METTZ 600-2.0 SAZ WB1	630166_ _
	Torch set	1.2 m	DIX METZ 600-1.2 N	630163368
	Torch set	1.4 m	DIX METZ 600-1.4 N	630163354
	Torch set	2.0 m	DIX METZ 600-2.0 N	630163408
	Torch set, with Wire brake WB1	1.2 m	DIX METZ 600-1.2 N /WB1	630163409
	Torch set, with Wire brake WB1	1.4 m	DIX METZ 600-1.4 N /WB1	630163410
	Torch set, with Wire brake WB1	2.0 m	DIX METZ 600-2.0 N /WB1	630163370
	Torch set	1.2 m	DIX METTZ 600-1.2 N	630166179
	Torch set	1.4 m	DIX METTZ 600-1.4 N	630166193
	Torch set	2.0 m	DIX METTZ 600-2.0 N	630166186
	Torch set, with Wire brake WB1	1.2 m	DIX METTZ 600-1.2 N /WB1	630166194
	Torch set, with Wire brake WB1	1.4 m	DIX METTZ 600-1.4 N /WB1	630166195
	Torch set, with Wire brake WB1	2.0 m	DIX METTZ 600-2.0 N /WB1	630166196

● You need a Power Pin for the torch sets Pos. E and F.  
 You will find the Power Pin that fits to your wire feeder in the Chapter System Components or you ask your DINSE consultant.



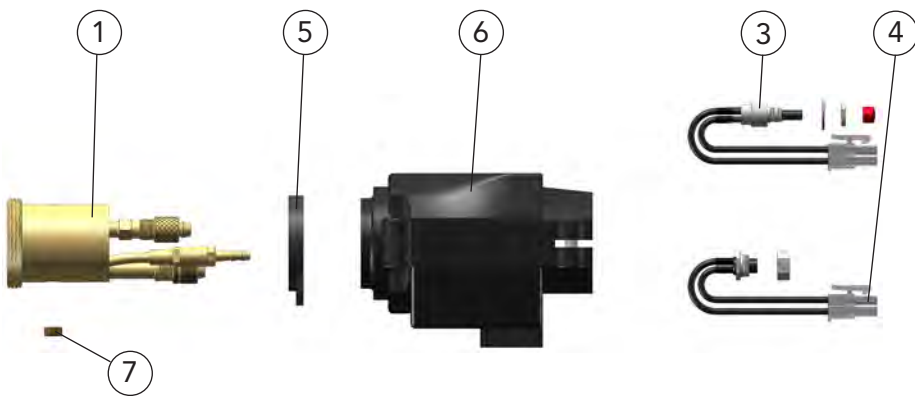
## Spare parts and wear parts



### Torch sets METZ 600 (SAZ)(N) Connecting set for torch sets



### Torch sets METTZ 600 (SAZ)(N) Connecting set for torch sets



Description	Part name	Part number
1 Torch connection, MEZ	DIX MEZ 150	6391530003
2 Housing, MET 1	DIX MET 070	639073019
3 Push button set, ME 1, for set up mode, according to equipment	DIX ME 080	639085001
4 Socket set, ME 1, for shock sensor	DIX ME 090	639076001
5 Housing supporting ring, METT	DIX METT 071	639073100012
6 Housing, METT 1	DIX METT 070	639073020
7 Fitting part, METT	DIX METT 072	6391530001

PUSH conventional robots MIG/MAG

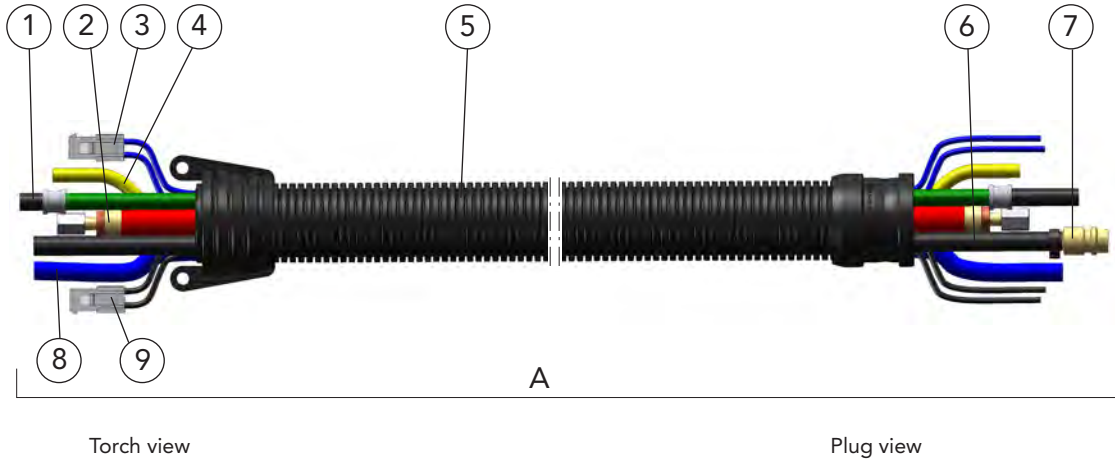


# Torch sets MET(T)Z 600 (SAZ)(N) Supply hose

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MIG/MAG

PUSH conventional robots



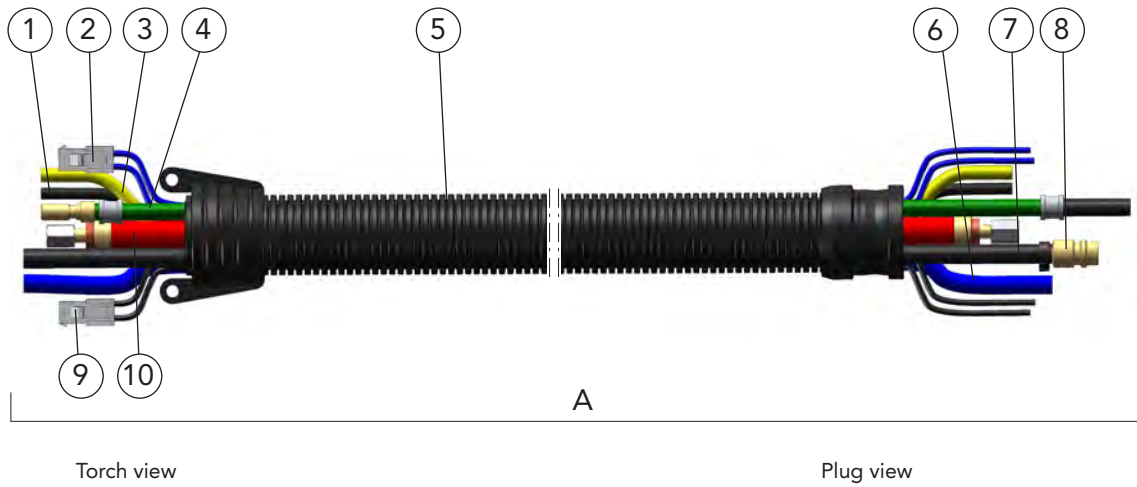
Description	Part name	Part number
A Supply hose	DIX VLEZ 600-__	632006001__
1 Conduit hose	DIX VL 2010-__	639206303__
2 Combi cable	DIX VL 220-__	639226001__
3 Control wire set, blue, for shock sensor	DIX VL 210-__	639216001__
4 Gas hose	DIX VL 180-__	639186001__
5 Cover hose set (Can be retrofitted to bend protection DIX 25-3-601 ME)	DIX VL 230-__	639236001__
6 Air blast hose	DIX VL 240-__	639246001__
7 Air blast plug	DIX 16-3-506	6391650600
8 Water hose	DIX VL 190-__	639196001__
9 Control wire set, black, for wire threading	DIX VL 211-__	639216002__

-- Enter the desired length of the welding torch set, e.g.: 12 = 1.2 m or 14 = 1.4 m.  
Standard lengths: 1.2 m, 1.4 m and 2.0 m

► **Optional:**  
On request also with cover hose set DIX VL 233-\_\_, part number: 639236011\_\_  
(including bend protection DIX 25-3-601 ME, part number: 6392526001) available, see page 368.



# Torch set with wire brake system MET(T)Z 600 (SAZ)(N) WB 1 Supply hose



MIG/MAG

PUSH conventional robots

Description	Part name	Part number
A Supply hose	DIX VLEZ 600-__ WB 1	632006003__
1 Checking gas hose, for wire brake	DIX VL 242-__	639247001__
2 Control wire set, blue, for shock sensor	DIX VL 210-__	639216001__
3 Gas hose	DIX VL 180-__	639186001__
4 Conduit hose	DIX VL 2010-__ WB	639206311__
5 Cover hose set (Can be retrofitted to bend protection DIX 25-3-601 ME)	DIX VL 230-__	639236001__
6 Water hose	DIX VL 190-__	639196001__
7 Air blast hose	DIX VL 240-__	639246001__
8 Air blast plug	DIX 16-3-506	6391650600
9 Control wire set, black, for wire threading	DIX VL 211-__	639216002__
10 Combi cable	DIX VL 220-__	639226001__

-- Enter the desired length of the welding torch set, e.g.: 12 = 1.2 m or 14 = 1.4 m.  
Standard lengths: 1.2 m, 1.4 m, 2.0 m

► **Optional:**  
On request also with cover hose set DIX VL 233-\_\_, part number: 639236011\_\_  
(including bend protection DIX 25-3-601 ME, part number: 6392526001) available, see page 368.

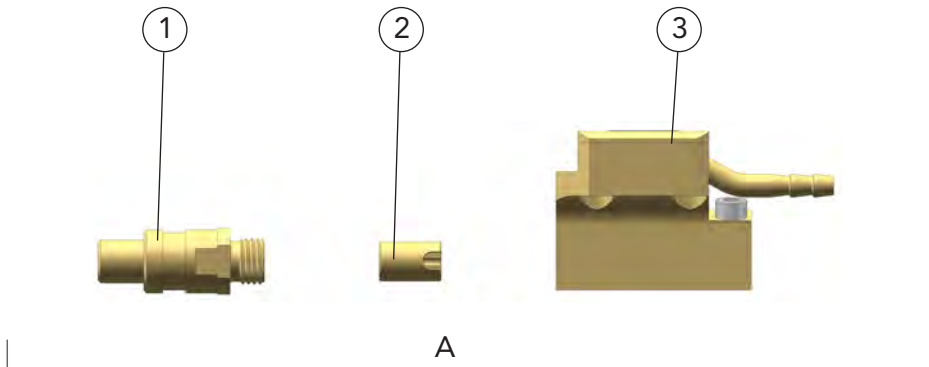


Wire brake WB1  
Wire brake valve DBV 101

1

MIG/MAG

PUSH conventional robots



Description	Part name	Part number
A Wire brake system, for wire- $\varnothing$ 0.8-1.6 mm	DIX WB 1	629470100
1 Adapter	DIX DBA 100	62947010016
2 Guide sleeve	DIX DBF 100	62947010024
3 Wire brake unit	DIX DBE 100	62947010010

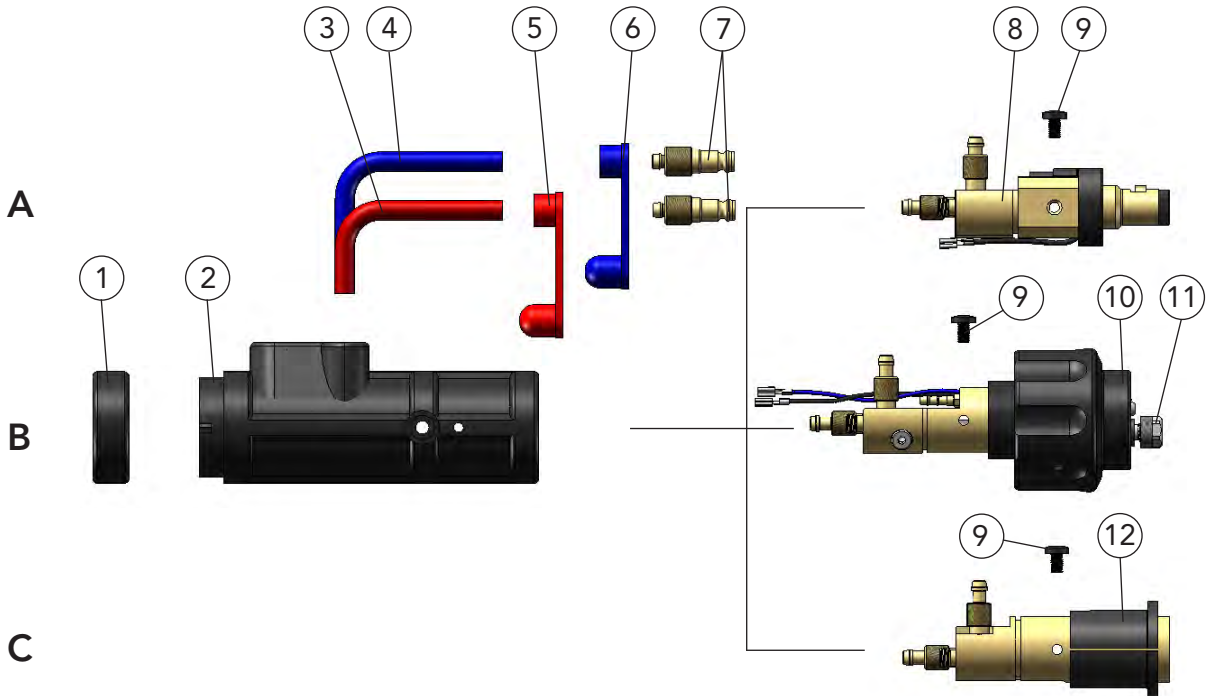
Technical data (DIN EN 60 974-7):	
Control voltage:	24 V.DC
Circuit:	3/2 way
Function:	Normally closed (NC)
Ventilation:	M5
Pressure input:	Side, $\varnothing$ 4 mm
Output:	$\varnothing$ 4 mm
Weight:	135 g
Protection class:	IP 65
Temperature range:	-20°C bis +50°C
Media:	Oiled and unoled filtered compressed air, neutral gases
Power consumption direct current:	6 W
Operating pressure:	0-10 bar



Description	Part name	Part number
B Wire brake valve, for „WB1“-Torch sets, for installation in the wire feeder or individually in the system, incl. banjo bolt G 1/8" screw-in thread and plug-in connection for a 4 mm hose	DIX DBV 101	629471101



# Torch sets MET(T)Z 600 (SAZ)(N)(WB1) Plug



**OPTIZ** You need a Power Pin for the compact plug DIX KCZME 600 N (Pos. C). You will find the Power Pin that fits to your wire feeder in the Chapter System Components or you ask your DINSE consultant.

Description	Part name	Part number
A Plug	DIX KCZME 600	638900024
B Plug	DIX KCZME 600 SAZ	638900025
C Plug	DIX KCZME 600 N	638900045
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG	6391250011
3 Connection hose, red	DIX VL 171 ROT	629171004
4 Connection hose, blue	DIX VL 170 BLAU	629171003
5 Cap, red	DIX VL 173	629172002
6 Cap, blue	DIX VL 172	629172001
7 Water plug	DIX 16-2	629160000
8 Plug insert	DIX ME 300 SEZ	639116064
9 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
10 Plug insert	DIX ME 600 SAZ	639116068
11 Clamp nut	DIX MEZ 113	639116007
12 Plug insert	DIX ME 600 N	639116076

MIG/MAG PUSH conventional robots



Für Ihre Notizen:

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# MIG/MAG welding equipment for Push applications on hollow wrist robots



1

DIX RET (gas cooled)

DIX RETZ (liquid cooled)

LITE.torch rotary interface without shock sensor with integrated torch set



Torch head



Power Pin

T.Connector HW rotary interface with shock sensor with integrated torch set



Torch head



Power Pin

ECO.torch rotary interface with/without shock sensor with separated torch set



Torch head



Power Pin

MIG/MAG

PUSH hollow wrist robots





# Torch sets MIG/MAG for hollow wrist robots LITE.torch

## DIX RET 362 N(WB) with power pin connection

## DIX RET 362 NE(/WB) with power pin connection

### System definition

#### Properties

- ▶ For common hollow wrist robots.
- ▶ For DINSE torch heads, gas cooled  
DIX MET 35x/39x  
DIX MET 32xx/37xx/39xx



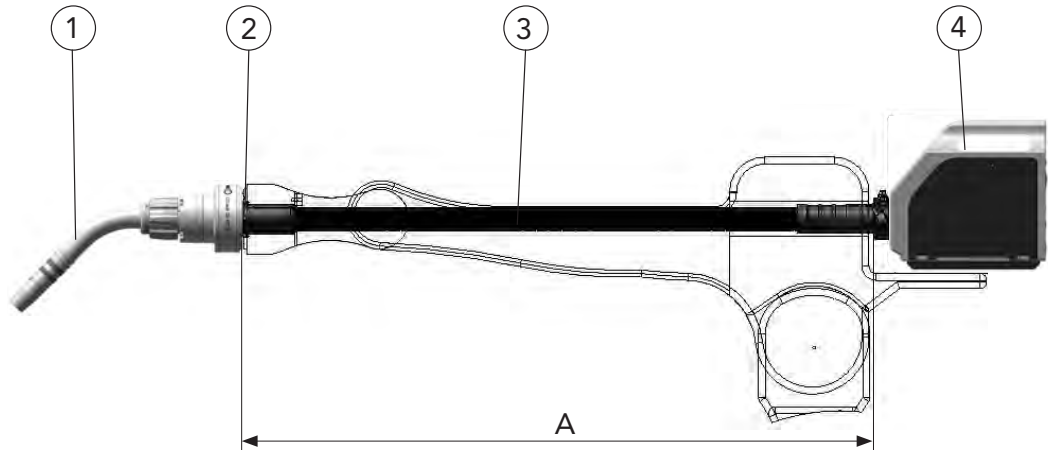
MET 35x and MES 300/500



MET 32xx and MES 300/500

#### Hint:

Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation Torch heads.



**ON** Only with power pin connection available.  
Please ask your DINSE consultant.

#### Description

A Length depends on the robot type and position of the wire feeder

1 Torch head

2 Adapter flange, ADFR  
Depends on the robot type

3 Rotary interface with integrated torch set  
Without deflection

4 Wire feeder

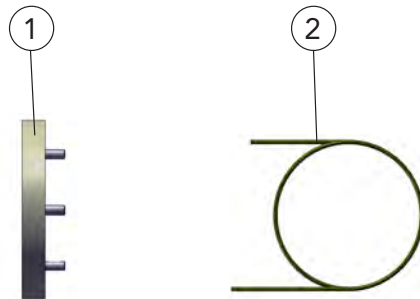
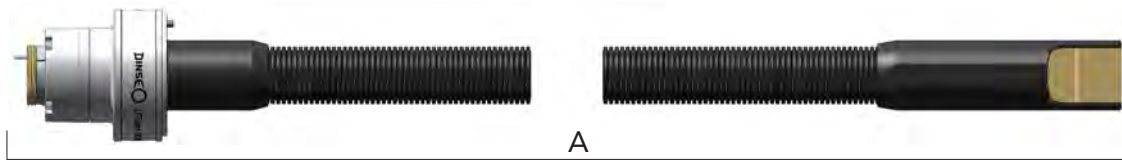
- ▶ Variants deviating of the standard fittings on request.

**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

The order designation of the system components you will find in the corresponding chapter.



# Torch sets MIG/MAG for hollow wrist robots LITE.torch DIX RET 362 N(WB) with power pin connection DIX RET 362 NE(WB) with power pin connection System components without wire feeder



PUSH hollow wrist robots MIG/MAG

**NOTE** The suitable power pin for your wire feeder you will find in Chapter System Components. Please ask your DINSE consultant.

Description	Dimension	Part name	Part number
A Rotary interface LITE with torch set Rigid version, without deflection The torch set length [ _ _ ] depends on the robot type and the wire feeder position		DIX RET 362-__ N	687425__
Rotary interface LITE with torch set and wire brake system Rigid version, without deflection The torch set length [ _ _ ] depends on the robot type and the wire feeder position		DIX RET 362-__ N/WB	687431__
Rotary interface LITE with torch set (external gas supply) Rigid version, without deflection The torch set length [ _ _ ] depends on the robot type and the wire feeder position		DIX RET 362-__ NE	687432__
Rotary interface LITE with torch set and wire brake system (external gas supply) Rigid version, without deflection The torch set length [ _ _ ] depends on the robot type and the wire feeder position		DIX RET 362-__ NE/WB	687433__
1 Adapter flange The adapter flange [ _ _ ] depends on the robot type		DIX ADFR 63__	6870033__
2 Liner	ø 2.2 mm/2.5 m	DIX DS 4/2.2-2.5	623000325
Wire brake valve, not shown, for "WB" torch sets, for installation in the wire feeder or individually in the system, including hollow screw, screw-in thread G 1/8 "and plug connection for a 4mm hose		DIX DBV 101	629471101

► Variants deviating of the standard fittings on request. For all common wire feeder systems.

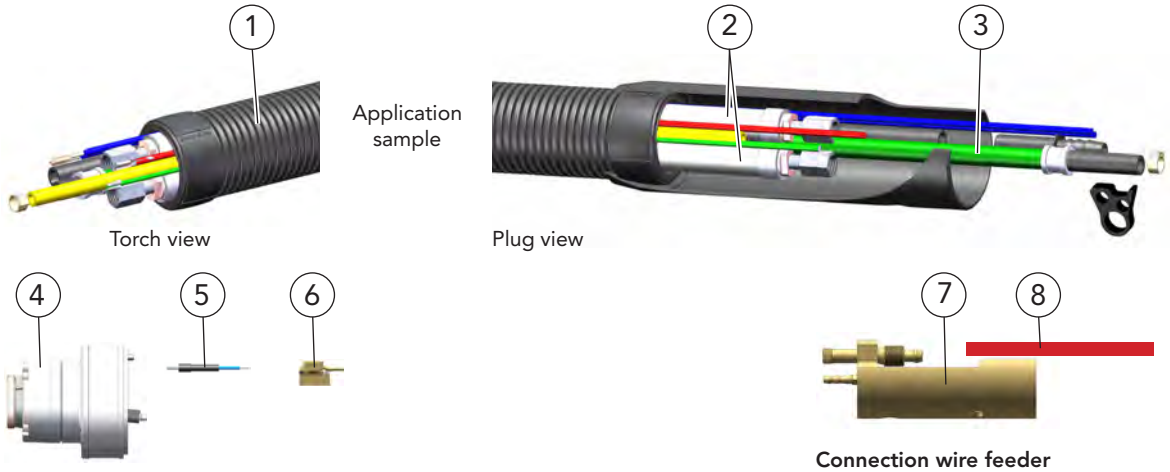




# Torch sets MIG/MAG for hollow wrist robots LITE.torch LITE.torch, DIX RET 362 N(/WB), DIX RET 362 NE(/WB) Spare parts and wear parts Repair set

1

MIG/MAG  
PUSH hollow wrist robots



Description	Part name	Part number
A Repair set - Hoses For gas- and liquid cooled torch set length up to 3.0 m	DIX TS 360-663	687400028
<b>Content/ Piece:</b>		
Air blast hose, DIX VL 240-__	4.2 m	Cap, blue, DIX VL 172 1 pcs.
Air blast plug, DIX 16-3-506	1 pcs.	Cap, red, DIX VL 173 1 pcs.
Water plug, DIX 16-2	2 pcs.	Gas hose, VL 182-__ 4.2 m
Water hose red, DIX VL 191-__	1.3 m	Water hose blue, DIX VL 190-__ 4.2 m
Checking gas hose, DIX VL 243-__	4.2 m	
Only for wire brake		
1 Cover hose set	DIX VLLITE 230-__	639231009-__
2 Binary cable, 2 pcs.	DIX VLLITE 221-__	639226011-__
3 Conduit hose	DIX VLLITE 2010-__	639206441-__
Conduit hose, not shown	DIX VLLITE 2010-__ WB	639206442-__
Only for wire brake		
<b>Connection torch view:</b>		
4 Connection set	DIX RET 362	687400048
5 Contact set For gas nozzle sensor function, not for wire brake	DIX 15-2 MAPT	62915004014
6 Wire brake system, for wire- $\varnothing$ 0.8-1.6 mm	DIX WB 1	629470100
<b>Connection wire feeder:</b>		
7 Plug insert, for power pin version	DIX RET 110 N/LITE	639112009
8 Water hose, red	DIX VL 191-1.5	63919600215

► The suitable power pin for your wire feeder are found in Chapter System Components. Please ask your DINSE consultant. Other connecting mandrel depends on the wire feed type available on request.

-- Length depends on the torch set description.



# Torch sets MIG/MAG for hollow wrist robots LITE.torch DIX RETZ 662 N(/WB) with power pin connection DIX RETZ 662 NE(/WB) with power pin connection System definition

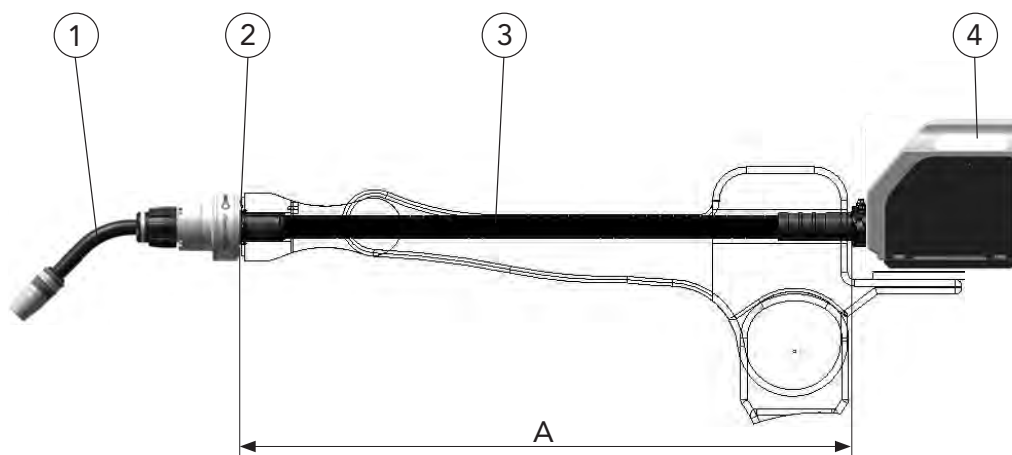
## Properties

- ▶ For common hollow wrist robots.
- ▶ For DINSE torch heads, liquid cooled  
DIX METZ 52x/59x/54x/56x/57x  
DIX METZ 58xx/64xx/55xx



Torch head METZ and MES 300/500 Application sample

**Hint:**  
Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation Torch heads.



**NOTE** Only with power pin connection available. Please ask your DINSE consultant.

Description	
A	Length depends on the robot type and position of the wire feeder
1	Torch head
2	Adapter flange, ADFR Depends on the robot type
3	Rotary interface with integrated torch set Without deflection
4	Wire feeder

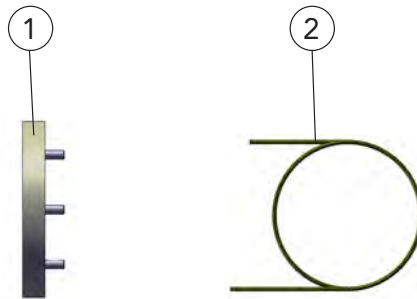
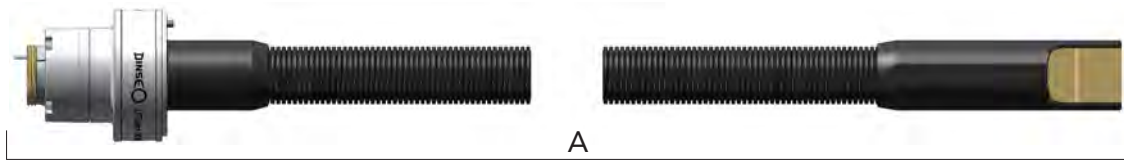
- ▶ Variants deviating of the standard fittings on request.

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories. The order designation of the system components you will find in the corresponding chapter.

# Torch sets MIG/MAG for hollow wrist robots LITE.torch DIX RETZ 662 N(/WB) with power pin connection DIX RETZ 662 NE(/WB) with power pin connection System components without wire feeder

1

PUSH hollow wrist robots MIG/MAG



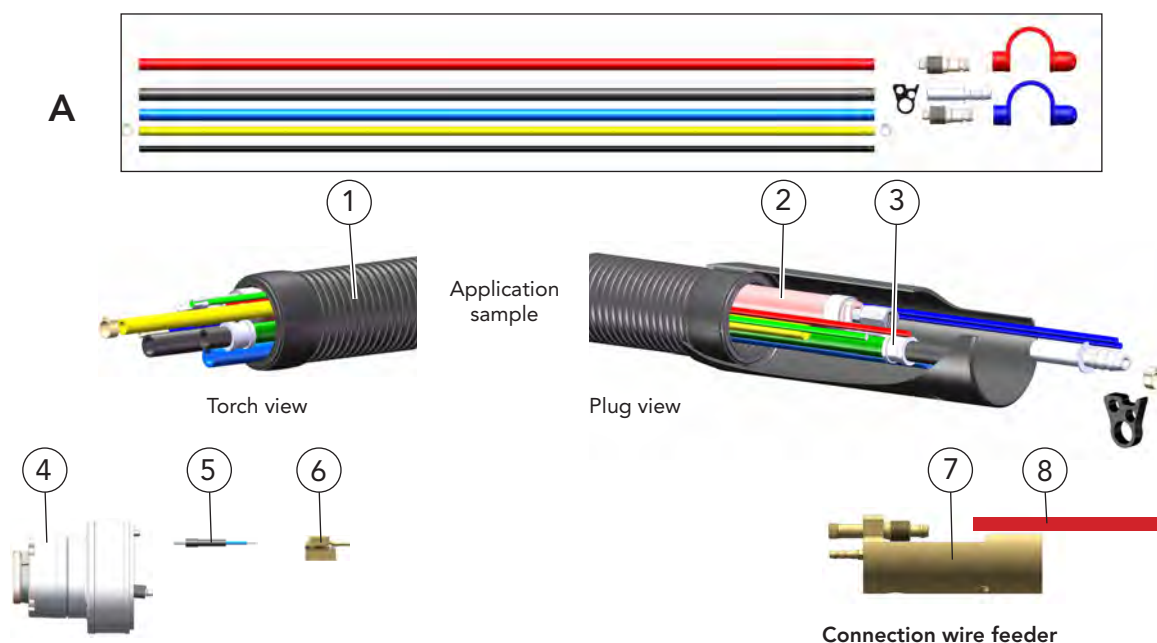
**NOTE** The suitable power pin for your wire feeder you will find in Chapter System Components. Please ask your DINSE consultant.

Description	Dimension	Part name	Part number
A Rotary interface LITE with torch set Rigid version, without deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RETZ 662-__ N	687419__
Rotary interface LITE with torch set and wire brake system Rigid version, without deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RETZ 662-__ N/WB	687434__
Rotary interface LITE with torch set (external gas supply) Rigid version, without deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RETZ 662-__ NE	687420__
Rotary interface LITE with torch set and wire brake system (external gas supply) Rigid version, without deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RETZ 662-__ NE/WB	687435__
1 Adapter flange The adapter flange [ _ ] depends on the robot type		DIX ADFR 63__	6870033__
2 Liner	ø 2.2 mm/2.5 m	DIX DS 4/2.2-2.5	623000325
Wire brake valve, not shown, for "WB" torch sets, for installation in the wire feeder or individually in the system, including hollow screw, screw-in thread G 1/8 "and plug connection for a 4mm hose		DIX DBV 101	629471101

► Variants deviating of the standard fittings on request. For all common wire feeder systems.



# Torch sets MIG/MAG for hollow wrist robots LITE.torch LITE.torch, DIX RETZ 662 N(/WB), DIX RETZ 662 NE(/WB) Spare parts and wear parts Repair set



Description	Part name	Part number
A Repair set - Hoses For gas- and liquid cooled torch set length up to 3.0 m	DIX TS 360-663	687400028
<b>Content/ Piece:</b>		
Air blast hose, DIX VL 240_	4.2 m Cap, blue, DIX VL 172	1 pcs.
Air blast plug, DIX 16-3-506	1 pcs. Cap, red, DIX VL 173	1 pcs.
Water plug, DIX 16-2	2 pcs. Gas hose, VL 182_	4.2 m
Water hose red, DIX VL 191_	1.3 m Water hose blue, DIX VL 190_	4.2 m
Checking gas hose, DIX VL 243_	4.2 m	
Only for wire brake		
1 Cover hose set	DIX VLLITE 230_	639231009_ _
2 Combi cable	DIX VLLITE 220_	639226102_ _
3 Conduit hose	DIX VLLITE 2010_	639206441_ _
Conduit hose, not shown Only for wire brake	DIX VLLITE 2010_ WB	639206442_ _
<b>Connection torch view:</b>		
4 Connection set	DIX RETZ 662	687400049
5 Contact set For gas nozzle sensor function, not for wire brake	DIX 15-2 MAPT	62915004014
6 Wire brake system, for wire- $\varnothing$ 0.8-1.6 mm	DIX WB 1	629470100
<b>Connection wire feeder:</b>		
7 Plug insert, for power pin version	DIX RETZ 110 N	639112007
8 Water hose, red	DIX VL 191-1,5 ROT	63919600215

► The suitable power pin for your wire feeder are found in Chapter System Components. Please ask your DINSE consultant. Other connecting mandrel depends on the wire feed type available on request.

-- Length depends on the torch set description.

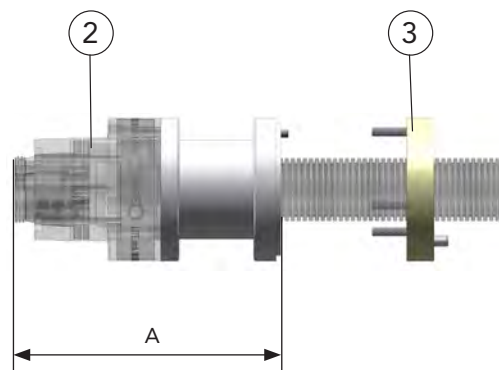


# Torch sets MIG/MAG for hollow wrist robots LITE.torch LITE.torch, DIX RET 362 N(NE), DIX RETZ 662 N(NE), LITE.torch, DIX RET 362 N/WB (NE/WB), DIX RETZ 662 N/WB (NE/WB) Accessories

1

MIG/MAG

PUSH hollow wrist robots



Application sample



Information on the ADFRD flanges can be found in the chapter System components.  
Ask your DINSE consultant.

Description	Part name	Part number
A Modification of the TCP with the adapter sleeve DIX ADH 6600.		
1 Adapter sleeve To adapt to the length of ECO.torch Only mounting in conjunction with adapter flange ADFRD	DIX ADH 6600	687413002
2 Rotary interface with integrated torch set, with or without wire brake		
3 Flange	DIX ADFRD 63_ _	6870034_ _

**Hint:**

The same TCP as "ECO.torch" torch sets with rotary interface RET 341 F/S (WB) or RETZ 641 F/S (WB).





# Torch sets MIG/MAG for hollow wrist robots T.Connector HW DIX RET 363 N(/WB) with power pin connection DIX RET 363 NE(/WB) with power pin connection System definition



## Properties

- ▶ For common hollow wrist robots.
- ▶ For all DINSE torch heads, gas cooled



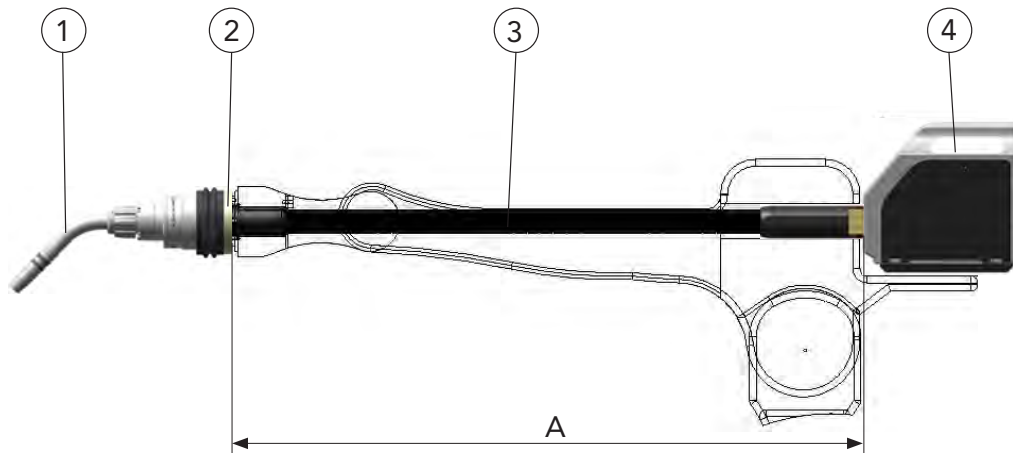
MET 35x and MES 300/500



MET 32xx and MES 300/500

### Hint:

Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation Torch heads.



**DINSE** Standard version with power pin connection. For other connections, ask your DINSE consultant.

## Description

A Length depends on the robot type and position of the wire feeders

1 Torch head

2 Adapter flange, ADFL  
Depends on the robot type

3 Rotary interface with integrated torch set  
Flexible version with maximum 7° deflection, rotation +/- 260°

4 Wire feeder

- ▶ Special (custom) components may be available upon request.

### Hint:

Liners, capillary liners and service tools are found in Chapter Wear Parts respectively Tools and Accessories. The order designation of the system components are found in the corresponding chapter.

PUSH hollow wrist robots MIG/MAG



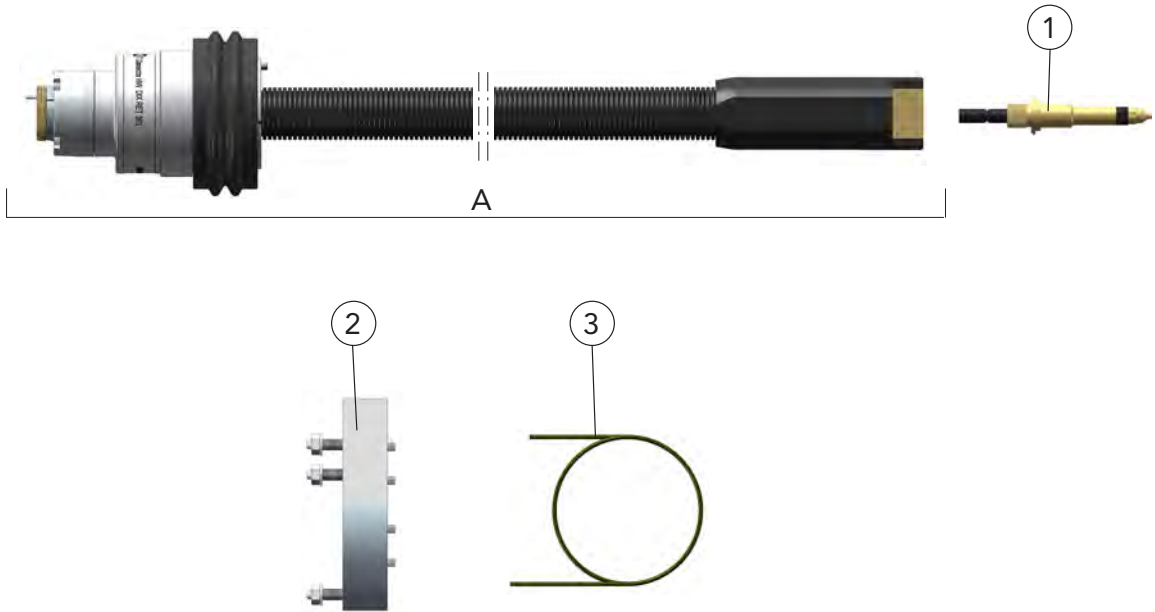


# Torch sets MIG/MAG for hollow wrist robots T.Connector HW DIX RET 363 N(/WB) with power pin connection DIX RET 363 NE(/WB) with power pin connection System components without wire feeder

1

MIG/MAG

PUSH hollow wrist robots



**NOTE** You will find the power pin that fits your wire feeder and the adapter flange that fits your robot in the chapter System Components. Please ask your DINSE consultant.

Description	Dimension	Part name	Part number
A Rotary interface with torch set (Gas supply internally via power-pin) Flexible version with maximum 7° deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RET 363-__ N	687414-__
Rotary interface with torch set (Gas supply internally via power-pin) Flexible version with maximum 7° deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RET 363-__ N/WB	687423-__
Rotary interface with torch set (external gas supply) Flexible version with maximum 7° deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RET 363-__ NE	687415-__
Rotary interface with torch set (external gas supply) Flexible version with maximum 7° deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RET 363-__ NE/WB	687424-__
1 Power Pin Depends on the wire feeder type		DIX PP 1-__	639118-__
2 Adapter flange The adapter flange [ _ ] depends on the robot type		DIX ADFL 63-__	6870035-__
3 Liner	ø 2.2 mm / 2.5 m	DIX DS 4/2.2-2.5	623000325
Wire brake valve, not shown, for "WB" torch sets, for installation in the wire feeder or individually in the system, including hollow screw, screw-in thread G 1/8 "and plug connection for a 4mm hose		DIX DBV 101	629471101

► For all common wire feeder systems.  
Special (custom) components may be available upon request.



# Torch sets MIG/MAG for hollow wrist robots T.Connector HW

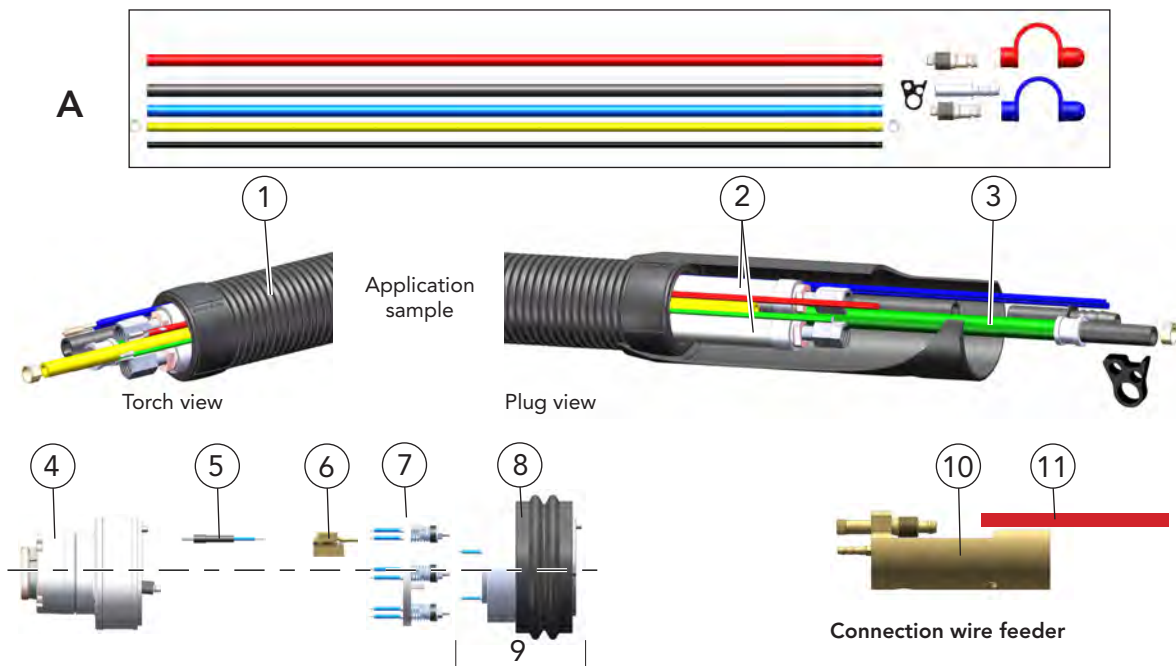
## T.Connector HW, RET 363 N(/WB) and T.Connector HW, RET 363 NE(/WB)

### Spare parts and wear parts

### Repair set



1



Description	Part name	Part number
A Repair set - Hoses For gas- and liquid cooled torch set length up to 3.0 m	DIX TS 360-663	687400028
<b>Content/ Piece:</b>		
Air blast hose, DIX VL 240_	4.2 m	Cap, blue, DIX VL 172 1 pcs.
Air blast plug, DIX 16-3-506	1 pcs.	Cap, red, DIX VL 173 1 pcs.
Water plug, DIX 16-2	2 pcs.	Gas hose, VL 182_ 4.2 m
Water hose red, DIX VL 191_	1.3 m	Water hose blue, DIX VL 190_ 4.2 m
Checking gas hose, DIX VL 243_	4.2 m	
Only for wire brake		
1 Cover hose set	DIX VLLITE 231_	639231007_ _ _
2 Binary cable, 2 pcs.	DIX VLLITE 222_	639226013_ _ _
3 Conduit hose	DIX VL 2030_	639206444_ _ _
Conduit hose, not shown Only for wire brake	DIX VL 2010_ WB	639206442_ _ _
<b>Connection torch view:</b>		
4 Connection set	DIX RET 362	687400048
5 Contact set For gas nozzle sensor function, not for wire brake	DIX 15-2 MAPT	62915004014
6 Wire brake system, for wire- $\varnothing$ 0.8-1.6 mm	DIX WB 1	629470100
7 Control ring, for shock sensor	DIX SR 361	687400024
8 Dust boot	DIX MAN 361	687400016
9 Disconnection, with pos. 7 and 8	DIX ABSC 361	687400023
<b>Connection wire feeder:</b>		
10 Plug insert, for power pin version	DIX RET 110 N/LITE	639112009
11 Water hose, red	DIX VL 191-1.5 ROT	63919600215

► The suitable power pin for your wire feeder are found in Chapter System Components. Please ask your DINSE consultant. Other connecting mandrel depends on the wire feed type available on request.

\_ \_ Length depends on the torch set description.

MIG/MAG PUSH hollow wrist robots





# Torch sets MIG/MAG for hollow wrist robots T.Connector HW DIX RET 363 SA

## System definition

### Properties

- ▶ For common hollow wrist robots.
- ▶ For all DINSE torch heads, gas-cooled
- ▶ Integrated electrical shock sensor



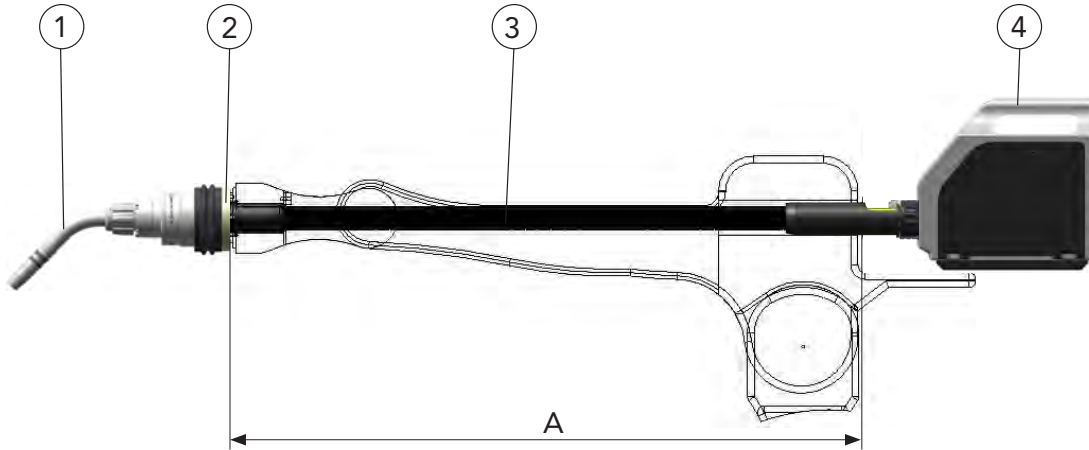
MET 35x and MES 300/500



MET 32xx and MES 300/500

### Hint:

Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation Torch heads.



Application sample

Description	
A	Length depends on the robot type and position of the wire feeder
1	Torch head
2	Adapter flange, ADFL Depends on the robot type
3	T. Connector HW Rotary interface with integrated torch set flexible version with maximum 7° deflection, rotation +/- 260°
4	Wire feeder

- ▶ Variants deviating of the standard fittings on request.

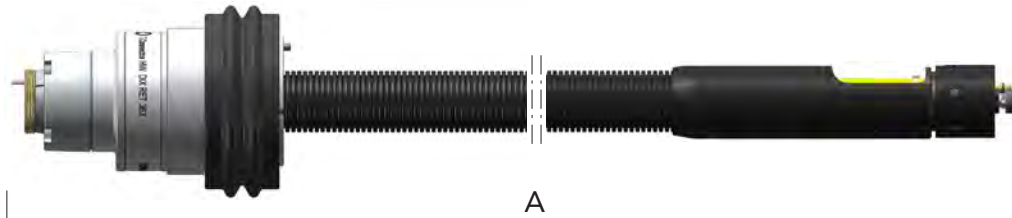
**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

The order designation of the system components you will find in the corresponding chapter.

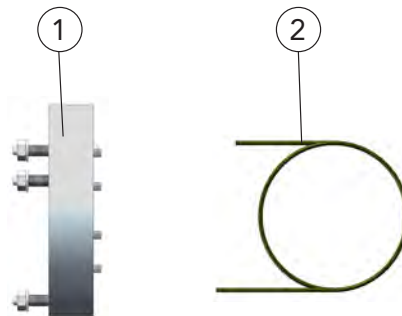


# Torch sets MIG/MAG for hollow wrist robots T.Connector HW DIX RET 363 SA

## System components without wire feeder



Application sample



PUSH hollow wrist robots MIG/MAG

Description	Dimension	Part name	Part number
A T.Connector HW, gas supply internally, flexible version, maximum 7° deflection, the torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RET 363-__ SA	687438-__
1 Adapter flange The adapter flange [ _ ] depends on the robot type		DIX ADFL 63-__	6870035-__
2 Liner	ø 2.2 mm/2.5 m	DIX DS 4/2.2-2.5	623000325

- Variants deviating of the standard fittings on request. Adapterflange are found in Chapter System Components. For all common wire feeder systems.





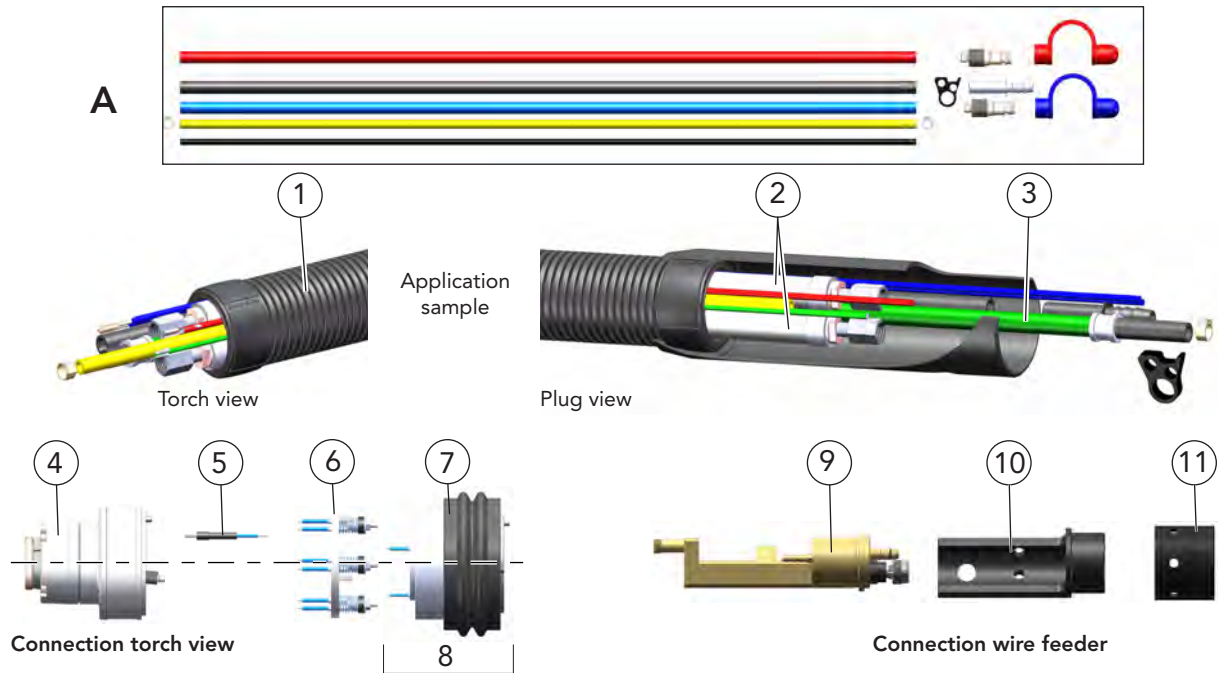
# Torch sets MIG/MAG for hollow wrist robots T.Connector HW

## T.Connector HW, DIX RET 363 SA

Spare parts and wear parts  
Repair set

1

MIG/MAG  
PUSH hollow wrist robots



Description	Part name	Part number
A Repair set - Hoses For gas- and liquid cooled torch set length up to 3.0 m	DIX TS 360-663	687400028

**Content/ Piece:**

Air blast hose, DIX VL 240-__	4.2 m	Cap, blue, DIX VL 172	1 pcs.
Air blast plug, DIX 16-3-506	1 pcs.	Cap, red, DIX VL 173	1 pcs.
Water plug, DIX 16-2	2 pcs.	Gas hose, VL 182-__	4.2 m
Water hose red, DIX VL 191-__	1.3 m	Water hose blue, DIX VL 190-__	4.2 m
Checking gas hose, DIX VL 243-__	4.2 m		
Only for wire brake			

1 Cover hose set	DIX VLLITE 232-__	639231010__ __
2 Binary cable, 2 pcs.	DIX VLLITE 224-__	639226014__ __
3 Conduit hose	DIX VLLITE 2050-__	639206447__ __

**Connection torch view:**

4 Connection set	DIX RET 362	687400048
5 Contact set For gas nozzle sensor function, not for wire brake	DIX 15-2 MAPT	62915004014
6 Control ring, for shock sensor	DIX SR 361	687400024
7 Dust boot	DIX MAN 361	687400016
8 Disconnection, with Pos. 6 and 7	DIX ABSC 361	687400023

**Connection wire feeder:**

9 Plug insert	DIX RET 363 SA	639112011
10 Adapter sleeve	DIX RETZ 663 SAZ	629900215
11 Screw cap	DIX RETZ 663	629900216

-- Length depends on the torch set description.





# Torch sets MIG/MAG for hollow wrist robots T.Connector HW DIX RETZ 663 N(/WB) with Power-Pin connection DIX RETZ 663 NE(/WB) with Power-Pin connection System definition

## Properties

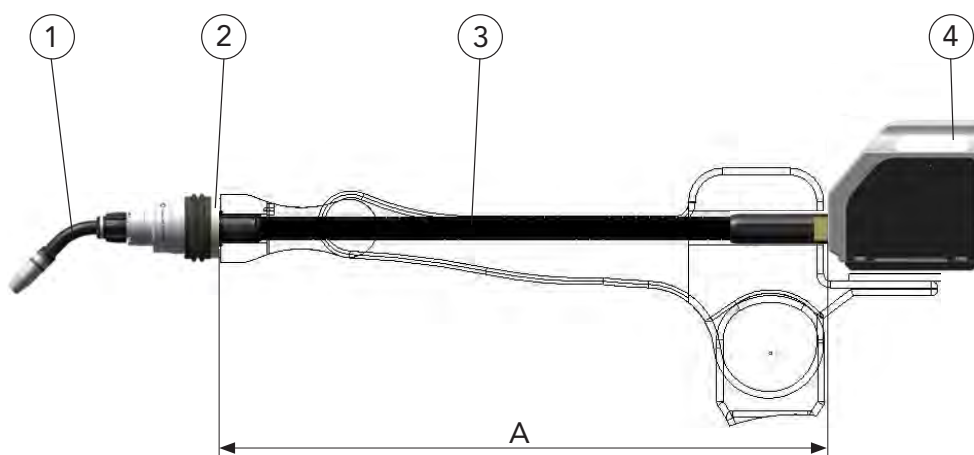
- ▶ For common hollow wrist robots.
- ▶ For all DINSE torch heads, liquid cooled



Torch head METZ (L) (XL) and MES 300/500 Application sample

### Hint:

Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation Torch heads.



**OPTIONAL** Standard version with power pin connection available. Please ask your DINSE consultant.

Description	
A	Length depends on the robot type and position of the wire feeders
1	Torch head
2	Adapter flange, ADFL Depends on the robot type
3	Rotary interface with integrated torch set Flexible version with maximum 7° deflection, rotation +/- 260°
4	Wire feeder

- ▶ Special (custom) components may be available upon request.

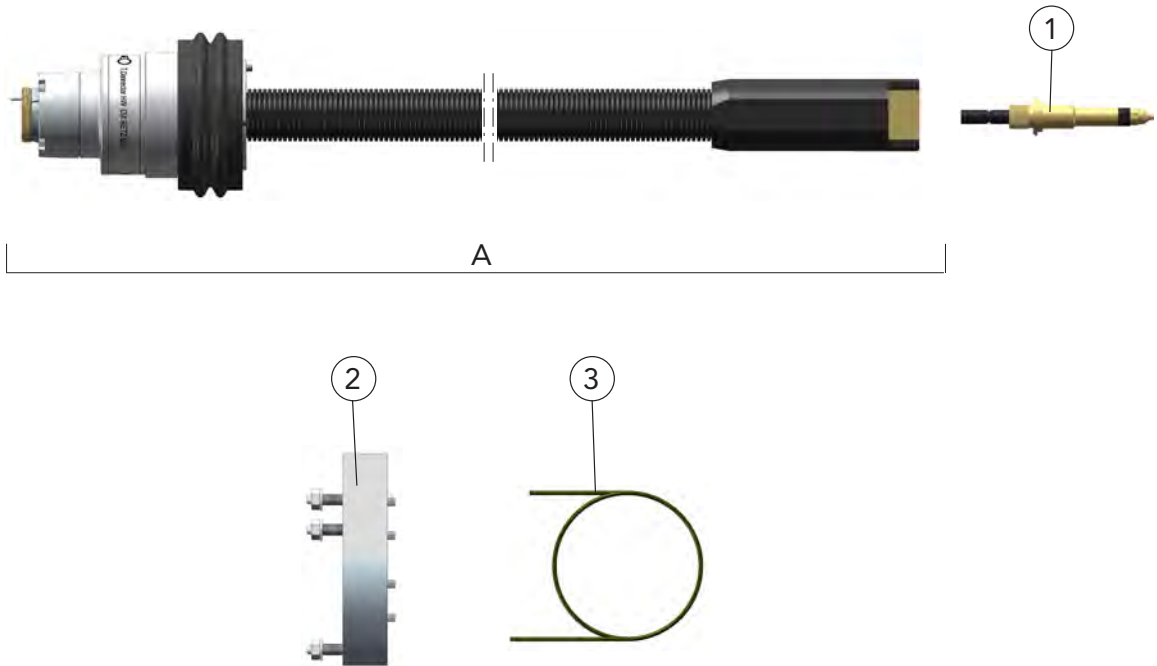
**Hint:** Liners, capillary liners and service tools are found in Chapter Wear Parts respectively Tools and Accessories. The order designation of the system components are found in the corresponding chapter.

# Torch sets MIG/MAG for hollow wrist robots T.Connector HW DIX RETZ 663 N(/WB) with Power-Pin connection DIX RETZ 663 NE(/WB) with Power-Pin connection System components without wire feeder

1

MIG/MAG

PUSH hollow wrist robots



The suitable power pin for your wire feeder you will find in Chapter System components. Please ask your DINSE consultant.

Description	Dimension	Part name	Part number
A Rotary interface with torch set (Gas supply internally via power-pin) Flexible version with maximum 7° deflection The torch set length [ _ _ ] depends on the robot type and the wire feeder position		DIX RETZ 663-__ N	687418-__
Rotary interface with torch set (Gas supply internally via power-Pin) Flexible version with maximum 7° deflection The torch set length [ _ _ ] depends on the robot type and the wire feeder position		DIX RETZ 663-__ N/WB	687421-__
Rotary interface with torch set (external gas supply) Flexible version with maximum 7° deflection The torch set length [ _ _ ] depends on the robot type and the wire feeder position		DIX RETZ 663-__ NE	687417-__
Rotary interface with torch set (external gas supply) Flexible version with maximum 7° deflection The torch set length [ _ _ ] depends on the robot type and the wire feeder position		DIX RETZ 663-__ NE/WB	687422-__
1 Power Pin Depends on the wire feeder type		DIX PP 1-__	639118-__
2 Adapter flange The adapter flange [ _ _ ] depends on the robot type		DIX ADFL 63-__	6870035-__
3 Liner Wire brake valve, not shown, for "WB" torch sets, for installation in the wire feeder or individually in the system, including hollow screw, screw-in thread G 1/8" and plug connection for a 4mm hose	ø 2.2 mm / 2.0 m	DIX DS 4/2.2-2.0 DIX DBV 101	623000320 629471101

► Special (custom) components may be available upon request. Flange and Power-Pins are found in Chapter System Components. For all common wire feeder systems.



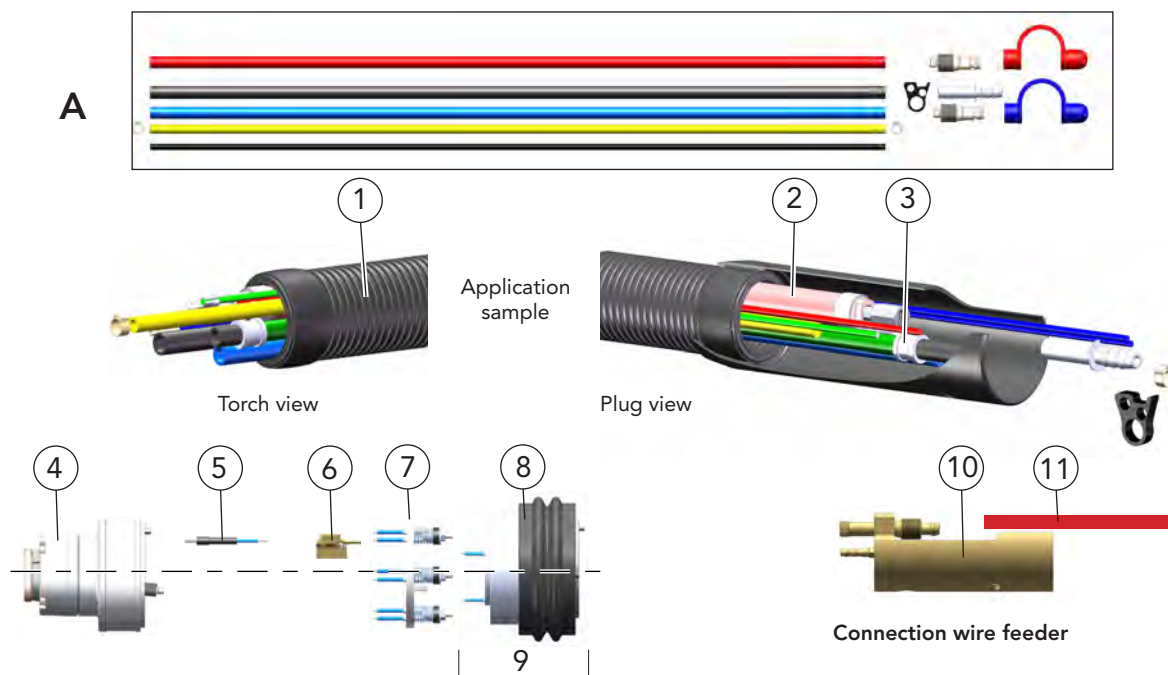


# Torch sets MIG/MAG for hollow wrist robots T.Connector HW

## T.Connector HW, RETZ 663 N(/WB) and T.Connector HW, RETZ 663 NE(/WB)

### Spare parts and wear parts

### Repair set



MIG/MAG PUSH hollow wrist robots

Description	Part name	Part number
A Repair set - Hoses For gas- and liquid cooled torch set length up to 3.0 m	DIX TS 360-663	687400028
<b>Content/ Piece:</b>		
Air blast hose, DIX VL 240-__	4.2 m	Cap, blue, DIX VL 172
Air blast plug, DIX 16-3-506	1 pcs.	Cap, red, DIX VL 173
Water plug, DIX 16-2	2 pcs.	Gas hose, VL 182-__
Water hose red, DIX VL 191-__	1.3 m	Water hose blue, DIX VL 190-__
Checking gas hose, DIX VL 243-__	4.2 m	
Only for wire brake		
1 Cover hose set	DIX VLLITE 231-__	639231007-__
2 Combi cable	DIX VLLITE 220-__	639226102-__
3 Conduit hose	DIX VLLITE 2030-__	639206444-__
Conduit hose, not shown Only for wire brake	DIX VL 2020-__ WB	639206445-__
<b>Connection torch view:</b>		
4 Connection set	DIX RETZ 662	687400049
5 Contact set For gas nozzle sensor function, not for wire brake	DIX 15-2 MAPT	62915004014
6 Wire brake system, for wire- $\varnothing$ 0.8-1.6 mm	DIX WB 1	629470100
7 Control ring, for shock sensor	DIX SR 361	687400024
8 Dust boot	DIX MAN 361	687400016
9 Disconnection, with pos. 7 and 8	DIX ABSC 361	687400023
<b>Connection wire feeder:</b>		
10 Plug insert, for power pin version	DIX RETZ 110 N	639112007
11 Water hose, red	DIX VL 191-1.5 ROT	63919600215

► The suitable power pin for your wire feeder are found in Chapter System Components. Please ask your DINSE consultant. Other connecting mandrel depends on the wire feed type available on request.

-- Length depends on the torch set description.



# Torch sets MIG/MAG for hollow wrist robots T.Connector HW DIX RETZ 663 SAZ (WB)

## System definition

### Properties

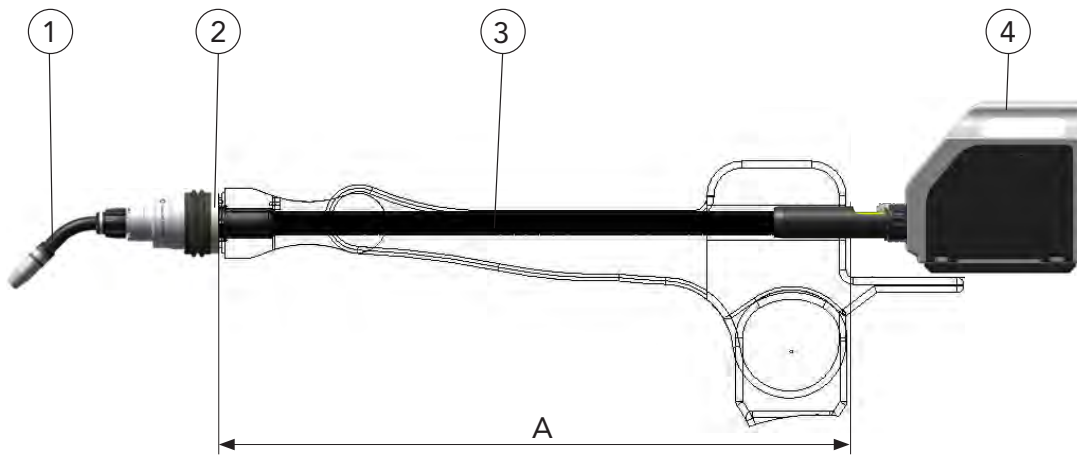
- ▶ For common hollow wrist robots.
- ▶ For all DINSE torch heads, liquid-cooled
- ▶ Electrical shock sensor integrated



Torch head METZ (L) (XL) and MES 300/500 application sample

**Hint:**

Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation Torch heads.



Application sample

Description	
A	Length depends on the robot type and position of the wire feeder
1	Torch head
2	Adapter flange, ADFL, Depends on the robot type
3	T.Connector HW Rotary interface with integrated torch set flexible version with maximum 7° deflection, rotation +/- 260°
4	Wire feeder

- ▶ Variants deviating of the standard fittings on request.

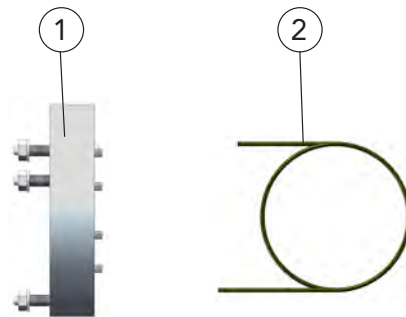
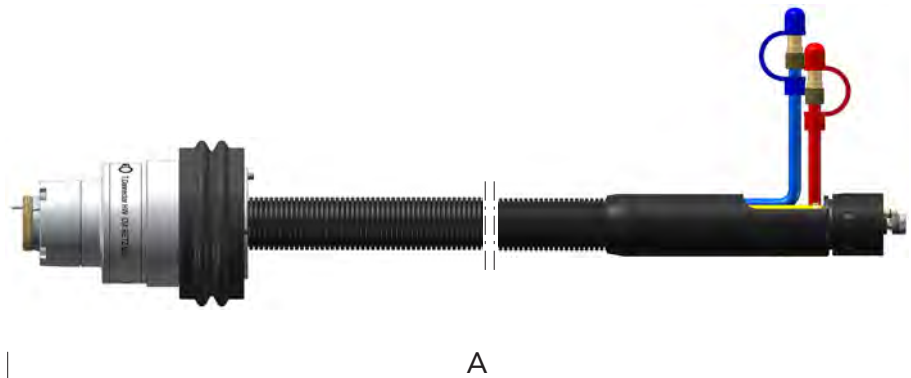
**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

The order designation of the system components you will find in the corresponding chapter.



# Torch sets MIG/MAG for hollow wrist robots T.Connector HW DIX RETZ 663 SAZ (WB)

## System components without wire feeder



MIG/MAG

PUSH hollow wrist robots

Description	Dimension	Part name	Part number
A T.Connector HW Rotary interface with torch set, gas supply internally, flexible version, maximum 7° deflection, the torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RETZ 663-__ SAZ	687443-__
T.Connector HW Rotary interface with torch set, gas supply internally, flexible version, maximum 7° deflection, the torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RETZ 663-__ SAZ WB	687437-__
1 Adapter flange The adapter flange [ _ ] depends on the robot type		DIX ADFL 63-__	6870035-__
2 Liner	ø 2.2 mm/2.5 m	DIX DS 4/2.2-2.5	623000325
Wire brake valve, not shown, for "WB" torch sets, for installation in the wire feeder or individually in the system, including hollow screw, screw-in thread G 1/8 "and plug connection for a 4mm hose		DIX DBV 101	629471101

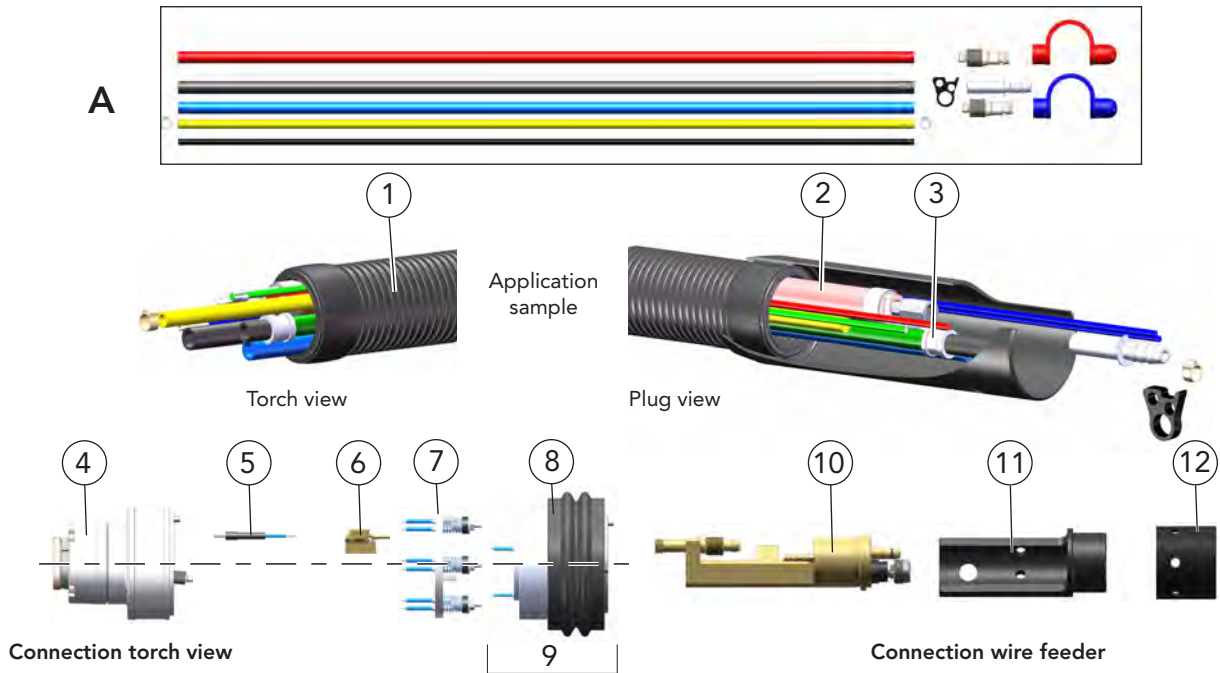
- ▶ Variants deviating of the standard fittings on request.  
Adapterflange are found in Chapter System Components.  
For all common wire feeder systems.



# Torch sets MIG/MAG for hollow wrist robots T.Connector HW(D) DIX RETZ 663 SAZ (WB) Spare parts and wear parts Repair set

1

MIG/MAG  
PUSH hollow wrist robots



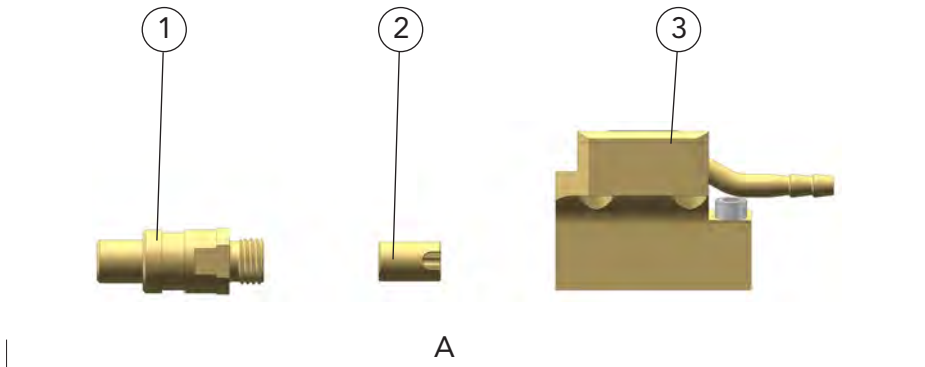
Description	Part name	Part number
A Repair set - Hoses For gas- and liquid cooled torch set length up to 3.0 m	DIX TS 360-663	687400028
<b>Content/ Piece:</b>		
Air blast hose, DIX VL 240-__	4.2 m	Cap, blue, DIX VL 172
Air blast plug, DIX 16-3-506	1 pcs.	Cap, red, DIX VL 173
Water plug, DIX 16-2	2 pcs.	Gas hose, VL 182-__
Water hose red, DIX VL 191-__	1.3 m	Water hose blue, DIX VL 190-__
Checking gas hose, DIX VL 243-__	4.2 m	
Only for wire brake		
1 Cover hose set	DIX VLLITE 232-__	639231010-__
2 Combi cable	DIX VLLITE 223-__	639231011-__
3 Conduit hose	DIX VLLITE 2040-__	639206448-__
Conduit hose, not shown Only for wire brake	DIX VL 2040-__ WB	639206446-__
<b>Connection torch view:</b>		
4 Connection set	DIX RETZ 662	687400049
5 Contact set For gas nozzle sensor function, not for wire brake	DIX 15-2 MAPT	62915004014
6 Wire brake system, for wire-ø 0.8-1.6 mm	DIX WB 1	629470100
7 Control ring, for shock sensor	DIX SR 361	687400024
8 Dust boot	DIX MAN 361	687400016
9 Disconnection, with pos. 7 and 8	DIX ABSC 361	687400023
<b>Connection wire feeder:</b>		
10 Plug insert	DIX ME 600 RETZ	639112010
11 Adapter sleeve	DIX RETZ 663 SAZ	629900215
12 Screw cap	DIX RETZ 663	629900216

-- Length depends on the torch set description.



# Wire brake WB1

## Wire brake valve DBV 101



Description	Part name	Part number
A Wire brake system, for wire- $\varnothing$ 0.8-1.6 mm	DIX WB 1	629470100
1 Adapter	DIX DBA 100	62947010016
2 Guide sleeve	DIX DBF 100	62947010024
3 Wire brake unit	DIX DBE 100	62947010010

Technical data (DIN EN 60 974-7):	
Control voltage:	24 V.DC
Circuit:	3/2 way
Function:	Normally closed (NC)
Ventilation:	M5
Pressure input:	Side, $\varnothing$ 4 mm
Output:	$\varnothing$ 4 mm
Weight:	135 g
Protection class:	IP 65
Temperature range:	-20°C bis +50°C
Media:	Oiled and unoled filtered compressed air, neutral gases
Power consumption direct current:	6 W
Operating pressure:	0-10 bar



Description	Part name	Part number
B Wire brake valve, for „WB1“-Torch sets, for installation in the wire feeder or individually in the system, incl. banjo bolt G 1/8" screw-in thread and plug-in connection for a 4 mm hose	DIX DBV 101	629471101



# Rotary interfaces gas-cooled MIG/MAG ECO.torch DIX RET 341 F(S) ECO.torch system components

## Properties

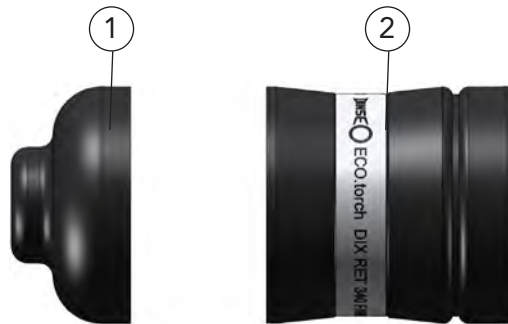
- ▶ For common hollow wrist robots
- ▶ Flexible version (F) with maximum 15° deflection
- ▶ Rigid version (S) without deflection
- ▶ **Attention!**  
Mounting with adapter flange ADFRD only
- ▶ With rotation of +/-260° at the sixth robot axis



## Application

- ▶ For DINSE torch sets, gas cooled  
DIX RET 330-\_\_ N(NE)
- ▶ Compatibel with DINSE torch heads gas cooled  
DIX MET 35x/39x/32xx/37xx/39xx

**Hint:**  
Information to the appropriate adapter flanges ADFRD you will find in Chapter 5 TOOLS and ACCESSORIES.



Description	Part name	Part number
A Rotary interface Flexible version, maximum 15° deflection	DIX RET 341 F	687242001
Rotary interface Rigid version, without deflection	DIX RET 341 S	687232001
<b>Spare parts and wear parts</b>		
1 Dust boot	DIX RET 072	687001002
2 Housing, complete	DIX RET 078 F	687212004
Housing, complete	DIX RET 078 S	687212005

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



# Rotary interfaces gas-cooled MIG/MAG ECO.torch DIX RET 341 F(S) WB 1 ECO.torch system components with wire brake system



## Properties

- ▶ For common hollow wrist robots
- ▶ Rotary interface with integrated wire brake system
- ▶ Flexible version (F) with maximum 15° deflection
- ▶ Rigid version (S) without deflection
- ▶ **Attention!**  
Mounting with adapter flange ADFRD only
- ▶ With rotation of +/-260° at the sixth robot axis

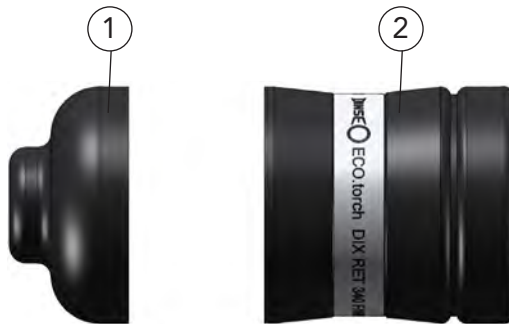


## Application

- ▶ For DINSE torch sets, gas cooled  
DIX RET 330-\_\_ N(NE)/WB 1
- ▶ Compatibel with DINSE torch heads gas cooled  
DIX MET 35x/39x/32xx/37xx/39xx

### Hint:

Information to the appropriate adapter flanges ADFRD you will find in Chapter 5 TOOLS and ACCESSORIES.



	Description	Part name	Part number
A	Rotary interface Flexible version, maximum 15° deflection For wire diameter 0.8-1.6 mm	DIX RET 341 F/WB 1	687241000
	Rotary interface Rigid version, without deflection For wire diameter 0.8-1.6 mm	DIX RET 341 S/WB 1	687231100
<b>Spare parts and wear parts</b>			
1	Dust boot	DIX RET 072	687001002
2	Housing, complete	DIX RET 078 F/WB 1	687221002
	Housing, complete	DIX RET 078 S/WB 1	687221003

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



MIG/MAG

PUSH hollow wrist robots

1

# Torch sets gas-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RET 330 N(NE) with power pin connection ECO.torch system definition

## Properties

- ▶ For common hollow wrist robots.
- ▶ For DINSE torch heads, gas cooled  
DIX MET 35x/39x  
DIX MET 32xx/37xx/39xx
- ▶ For Rotary interfaces, gas cooled  
RET 341 F(S)



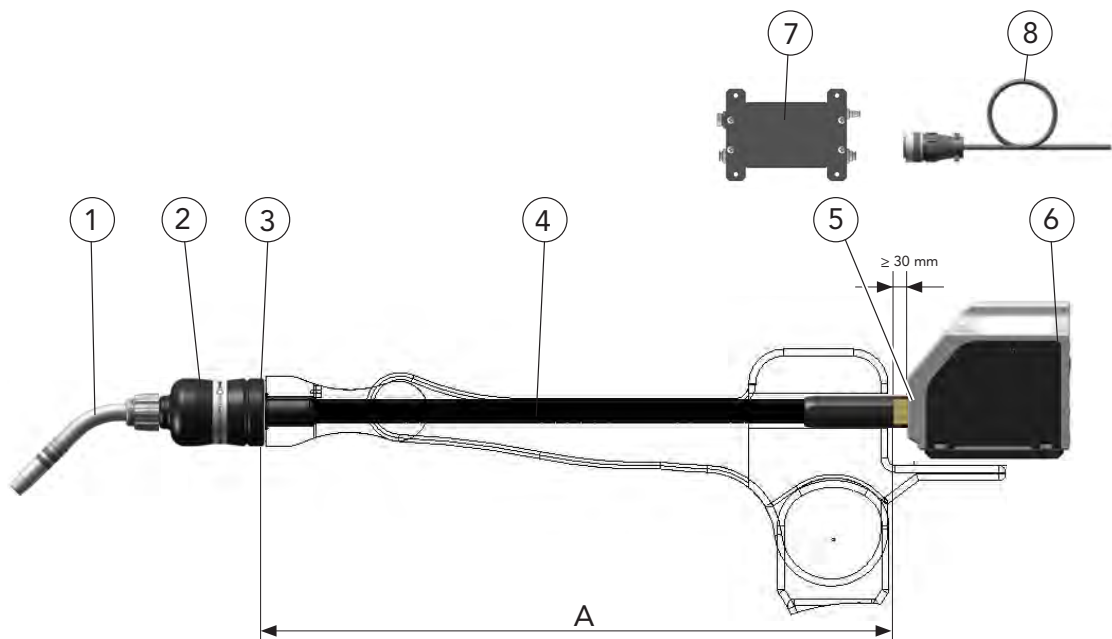
MET 35x and MES 300/500



MET 32xx and MES 300/500

### Hint:

Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation - Torch heads.



## Description

A Length depends on the position of the wire feeder

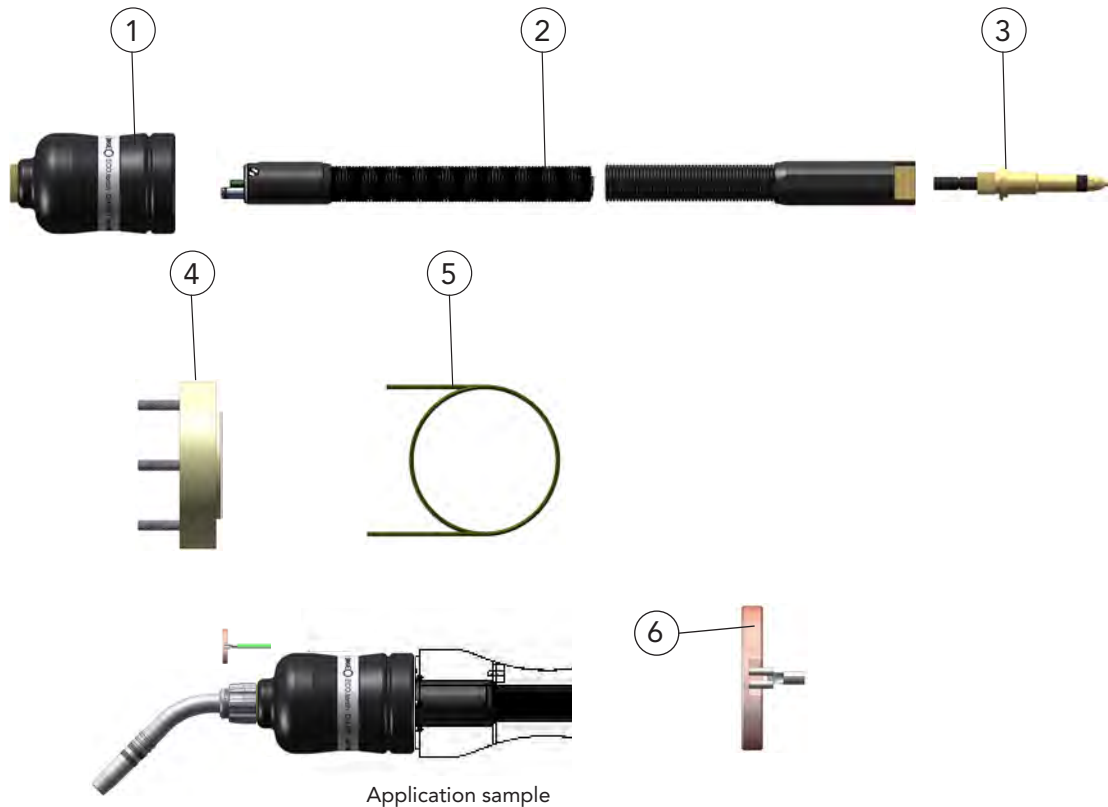
- 1 Torch head
- 2 Rotary interface  
F with deflection / S without deflection
- 3 Adapter flange, ADFRD  
Depends on the robot type
- 4 Torch set
- 5 Connection set, REMA PP 1\_ \_ (for installing into the wire feeder)  
Depends on the power pin and the wire feeder
- 6 Wire feeder
- 7 Protection modul, REMO
- 8 Connection cable, REAK

- ▶ Variants deviating of the standard fittings on request.

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories. The order designation of the system components you will find in the corresponding chapter.



# Torch sets gas-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RET 330 N(NE) with power pin connection ECO.torch system components without wire feeder



MIG/MAG

PUSH hollow wrist robots

Description	Dimension	Part name	Part number
1 Rotary interface Flexible version, maximum 15° deflection		DIX RET 341 F	687242001
Rotary interface Rigid version, without deflection		DIX RET 341 S	687232001
2 Torch set The torch set length [ _ ] depends on the robot type		DIX RET 330-__ N	630143000-__
Torch set (external gas supply) The torch set length [ _ ] depends on the robot type		DIX RET 330-__ NE	630140000-__
3 Power-Pin Depends on the wire feeder		DIX PP 1-__	639118-__
4 Adapter flange The adapter flange type [ _ ] depends on the robot type		DIX ADFRD 63-__	6870034-__
5 Liner	ø 2.2 mm/2.0 m	DIX DS 4/2.2-2.0	623000320
<b>Options:</b>			
Protection modul For wire feeder DIX WF 50 HP(HE)-L(R) with integrated shock sensor, only assembled, not shown		DIX REMO 100	719283100
Protection modul For shock sensor in external housing, not shown		DIX REMO 101	719283103
Connection cable, not shown		DIX REAK 100-10	738090110
<b>Accessories:</b>			
6 Contact clamp Fitting for robotic and automatic torch sets with sensor function through gas nozzle.		DIX K 180 ME	687311011

► Variants deviating of the standard fitting on request.  
For all common wire feeder systems.





# Torch sets gas-cooled MIG/MAG for hollow wrist robots ECO.torch

## DIX RET 330 N(NE) with power pin connection

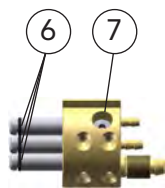
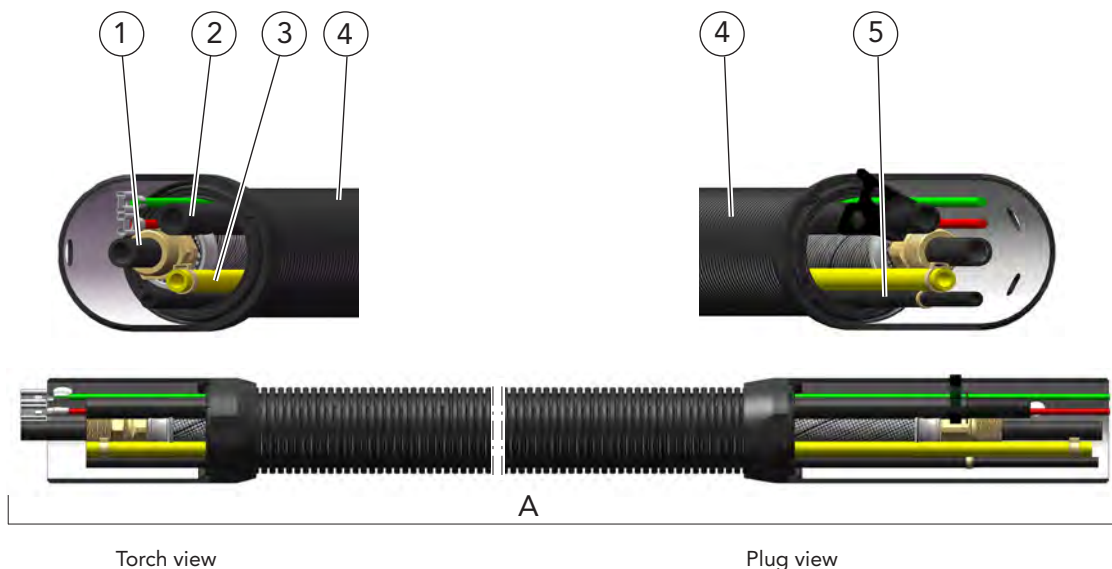
### ECO.torch supply hose

### Spare parts and wear parts

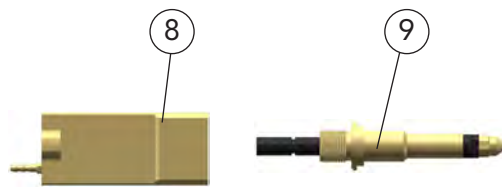
1

MIG/MAG

PUSH hollow wrist robots



Connection rotary interface



Connection wire feeder

Description	Part name	Part number
A Supply hose	DIX VLECO 330-__ N	632133001_--
1 Binary cable	DIX VLECO 2000-__ N	639206340_--
2 Air blast hose	DIX VL 240-__	639246001_--
3 Gas hose	DIX VL 182-__	629900015_--
4 Cover hose set	DIX VLECO 234-__ N	639234000_--
5 Checking gas hose	DIX VLRET 242-__	639247101_--
6 O ring (10 pcs.)		629061018
7 ECO - connection	DIX RETECO 150	639151013
8 Plug insert	DIX RET 110 N	639112006
9 Power-Pin Depends on the wire feeder	DIX PP 1_--	639118_--

-- Length depends on the torch set description.



# Torch sets gas-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RET 330 N(NE) WB with power pin connection ECO.torch with wire brake system, system definition



1

## Properties

- ▶ For common hollow wrist robots.
- ▶ For DINSE torch heads, gas cooled  
DIX MET 35x/39x  
DIX MET 32xx/37xx/39xx
- ▶ Rotary interface with integrated wire brake system
- ▶ For rotary interfaces, gas cooled  
RET 341 F(S)WB1



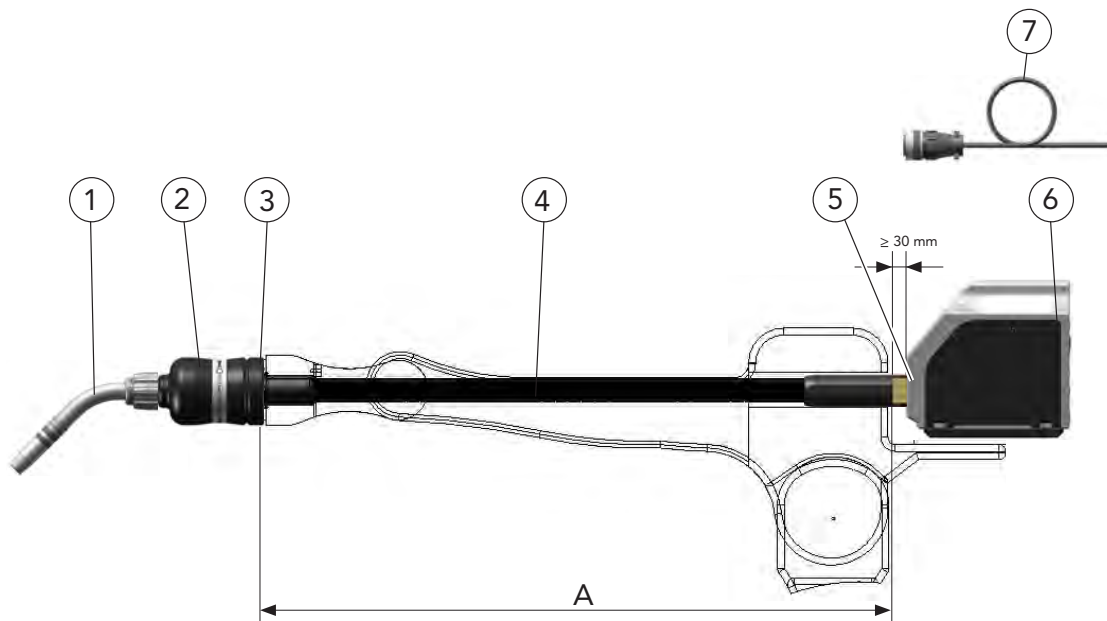
MET 35x and MES 300/500



MET 32xx and MES 300/500

### Hint:

Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation - Torch heads.



MIG/MAG  
PUSH hollow wrist robots

## Description

A Length depends on the position of the wire feeder

- 1 Torch head
- 2 Rotary interface with wire brake system  
F with deflection / S without deflection
- 3 Adapter flange, ADFRD  
Depends on the robot type
- 4 Torch set for rotary interface with wire brake system
- 5 Connection set, REMA PP 1\_ \_ (for installing into the wire feeder)  
Depends on the power pin and the wire feeder
- 6 Wire feeder
- 7 Connection cable, REAK  
Protection modul, REMO 100  
Integrated into the DINSE wire feeder

- ▶ Variants deviating of the standard fittings on request.

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories. The order designation of the system components you will find in the corresponding chapter.



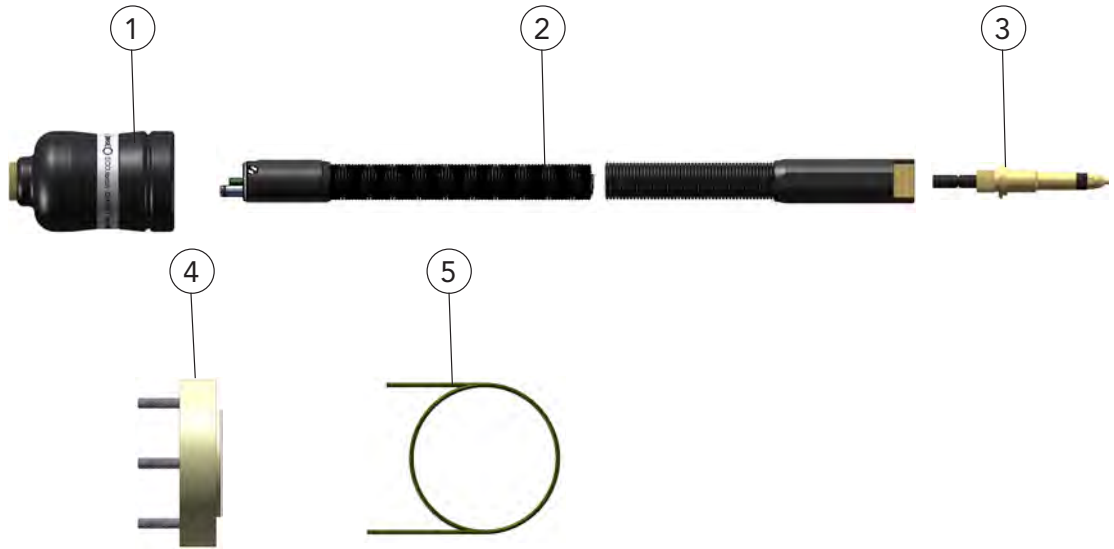


# Torch sets gas-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RET 330 N(NE) WB with power pin connection ECO.torch with wire brake system, system components without wire feeder

1

MIG/MAG

PUSH hollow wrist robots

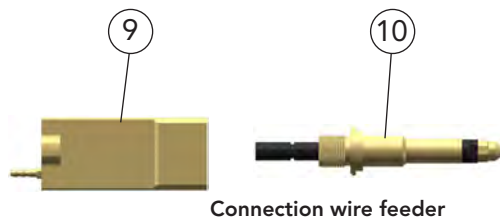
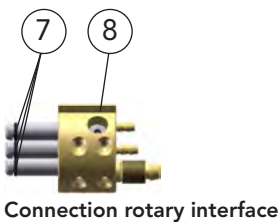
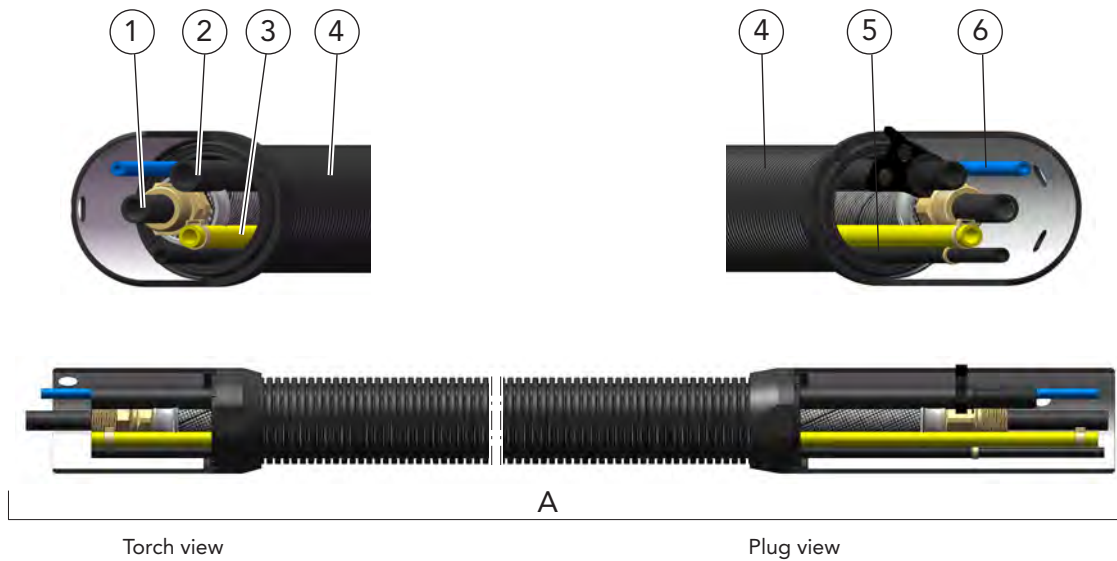


Description	Dimension	Part name	Part number
1 Rotary interface, for wire diameter 0.8-1.6 mm Flexible version, maximum 15° deflection		DIX RET 341 F/WB 1	687241000
Rotary interface, for wire diameter 0.8-1.6 mm Rigid version, without deflection		DIX RET 341 S/WB 1	687241100
2 Torch set The torch set length [ _ _ ] depends on the wire feeder and the robot type		DIX RET 330-__ N /WB	630147000 _ _ _
Torch set (external gas supply) The torch set length [ _ _ ] depends on the wire feeder and the robot type		DIX RET 330-__ NE /WB	630142000 _ _ _
3 Power-Pin Depends on the wire feeder		DIX PP 1 __	639118 __ _
4 Adapter flange The adapter flange [ _ _ ] depends on the robot type		DIX ADFRD 63 __	6870034 __ _
5 Liner	ø 2.2 mm/2.0 m	DIX DS 4/2.2-2.0	623000320
<b>Options:</b>			
Protection modul For shock sensor in external housing, not shown		DIX REMO 103	719283110
Connection cable, not shown		DIX REAK 100-10	738090110



► Variants deviating of the standard fitting on request.  
For all common wire feeder systems.

# Torch sets gas-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RET 330 N(NE) with power pin connection ECO.torch with wire brake system supply hose Spare parts and wear parts



MIG/MAG  
PUSH hollow wrist robots

Description	Part name	Part number
A Supply hose	DIX VLECO 330-__ N /WB	632134001-__
1 Binary cable	DIX VLECO 2000-__ N /WB	639206341-__
2 Air blast hose	DIX VL 240-__	639246001-__
3 Gas hose	DIX VL 182-__	629900015-__
4 Cover hose set	DIX VLECO 234-__ N	639234000-__
5 Checking gas hose	DIX VLRET 242-__	639247101-__
6 Pressure hose, blue For wire brake	DIX VLRET 244-__	719280015-__
7 O ring (10 pcs.)		629061018
8 ECO - connection	DIX RETECO 150	639151013
9 Plug insert	DIX RET 110 N	639112006
10 Power-Pin Depends on the wire feeder.	DIX PP 1-__	639118-__

-- Length depends on the torch set description.





# Rotary interfaces liquid-cooled MIG/MAG ECO.torch DIX RETZ 641 F(S) ECO.torch system components

## Properties

- ▶ For common hollow wrist robots
- ▶ Flexible version (F) with maximum 15° deflection
- ▶ Rigid version (S) without deflection
- ▶ **Attention!**  
Mounting with adapter flange ADFRD only
- ▶ With rotation of +/-260° at the sixth robot axis

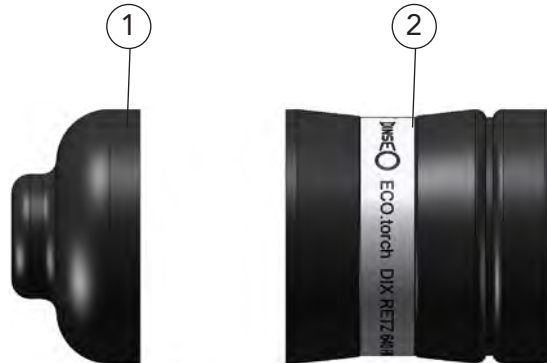


## Application

- ▶ For DINSE torch sets, liquid cooled  
DIX RETZ 630-\_\_ N(NE)
- ▶ Compatibel with DINSE torch heads,  
liquid cooled  
DIX METZ 52x/54x/56x/57x/59x  
DIX METZ 58xx/64xx/55xx

### Hint:

Information to the appropriate adapter flanges ADFRD you will find in Chapter 5 TOOLS and ACCESSORIES.



	Description	Part name	Part number
A	Rotary interface Flexible version, maximum 15° deflection	DIX RETZ 641 F	687342001
	Rotary interface Rigid version, without deflection	DIX RETZ 641 S	687332001
<b>Spare parts and wear parts</b>			
1	Dust boot	DIX RET 072	687001002
2	Housing, complete	DIX RETZ 079 F	687312004
	Housing, complete	DIX RETZ 079 S	687312005

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



# Rotary interfaces liquid-cooled MIG/MAG ECO.torch DIX RETZ 641 F(S) WB 1 ECO.torch system components with wire brake system



## Properties

- ▶ For common hollow wrist robots
- ▶ Rotary interface with integrated wire brake system
- ▶ Flexible version (F) with maximum 15° deflection
- ▶ Rigid version (S) without deflection
- ▶ **Attention!**  
Mounting with adapter flange ADFRD only
- ▶ With rotation of +/-260° at the sixth robot axis

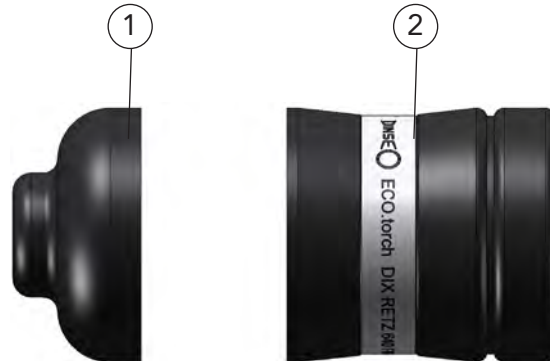


## Application

- ▶ For DINSE torch sets, liquid cooled  
DIX RETZ 630-\_\_ N(NE)/WB 1
- ▶ Compatibel with DINSE torch heads,  
liquid cooled  
DIX METZ 52x/54x/56x/57x/59x  
DIX METZ 58xx/64xx/55xx

### Hint:

Information to the appropriate adapter flanges ADFRD you will find in Chapter 5 TOOLS and ACCESSORIES.



	Description	Part name	Part number
A	Rotary interface Flexible version, maximum 15° deflection For wire diameter 0.8-1.6 mm	DIX RETZ 641 F/WB 1	687341001
	Rotary interface Rigid version, without deflection For wire diameter 0.8-1.6 mm	DIX RETZ 641 S/WB 1	687331100
<b>Spare parts and wear parts</b>			
1	Dust boot	DIX RET 072	687001002
2	Housing, complete	DIX RETZ 079 F/WB 1	687321103
	Housing, complete	DIX RETZ 079 S/WB 1	687321102

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



MIG/MAG

PUSH hollow wrist robots

# Torch sets liquid-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RETZ 630 N(NE) with power pin connection ECO.torch system definition

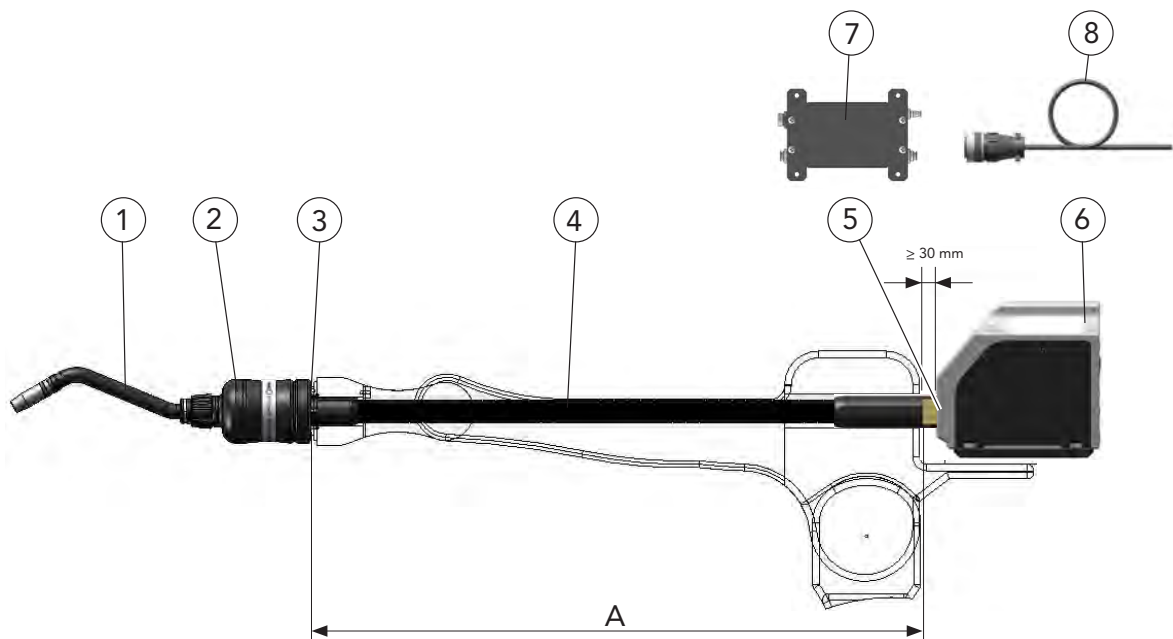
## Properties

- ▶ For common hollow wrist robots.
- ▶ For DINSE torch heads, liquid cooled  
DIX METZ 52x/59x/54x/56x/57x  
DIX METZ 58xx/64xx/55xx
- ▶ For Rotary interfaces, liquid cooled  
RETZ 641 F(S)



Torch head METZ and MES 300/500  
Application sample

**Hint:**  
Information to the appropriate torch heads you will find in Chapter 2  
MIG/MAG Automation - Torch heads.



## Description

A Length depends on the position of the wire feeder

- 1 Torch head
- 2 Rotary interface  
F with deflection / S without deflection
- 3 Adapter flange, ADFRD  
Depends on the robot type
- 4 Torch set
- 5 Connection set, REMA PP 1\_ \_ (for installing into the wire feeder)  
Depends on the power pin and the wire feeder
- 6 Wire feeder
- 7 Protection modul, REMO
- 8 Connection cable, REAK

- ▶ Variants deviating of the standard fittings on request.

**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.  
The order designation of the system components you will find in the corresponding chapter.

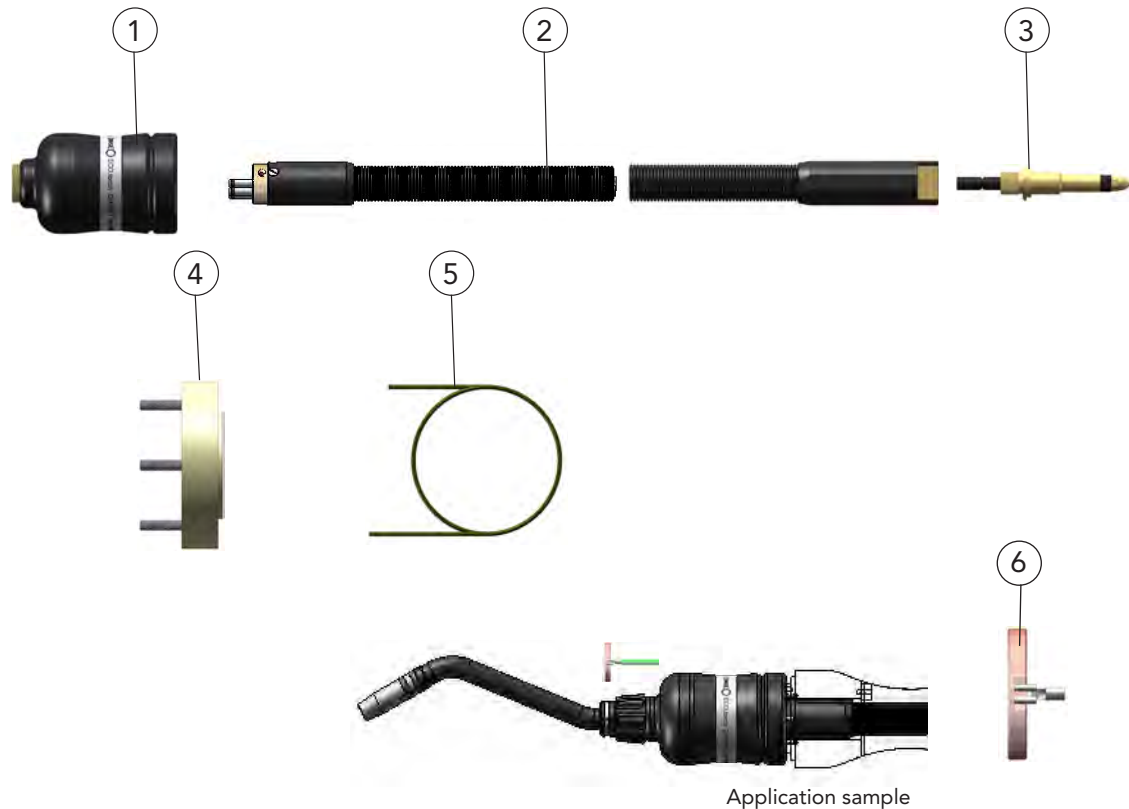




# Torch sets liquid-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RETZ 630 N(NE) with power pin connection ECO.torch system components without wire feeder



1



MIG/MAG  
PUSH hollow wrist robots

Description	Dimension	Part name	Part number
1 Rotary interface Flexible version, maximum 15° deflection		DIX RETZ 641 F	687342001
Rotary interface Rigid version, without deflection		DIX RETZ 641 S	687332001
2 Torch set The torch set length [ _ _ ] depends on the robot type		DIX RETZ 630- _ _ N	630144000 _ _ _
Torch set (external gas supply) The torch set length [ _ _ ] depends on the robot type		DIX RETZ 630- _ _ NE	630139000 _ _ _
3 Power-Pin Depends on the wire feeder		DIX PP 1 _ _	639118 _ _ _
4 Adapter flange The adapter flange [ _ _ ] depends on the robot type		DIX ADFRD 63 _ _	6870034 _ _
5 Liner	ø 2.2 mm/2.0 m	DIX DS 4/2.2-2.0	623000320
<b>Options:</b>			
Protection modul For wire feeder DIX WF 50 HP(HE)-L(R) with integrated shock sensor, only assembled, not shown		DIX REMO 100	719283100
Protection modul For shock sensor in external housing, not shown		DIX REMO 101	719283103
Connection cable, not shown		DIX REAK 100-10	738090110
<b>Accessories:</b>			
5 Contact clamp Fitting for robotic and automatic torch sets with sensor function through gas nozzle.		DIX K 180 ME	687311011

► Variants deviating of the standard fitting on request.  
For all common wire feeder systems.

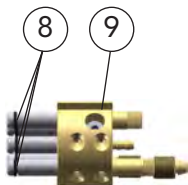
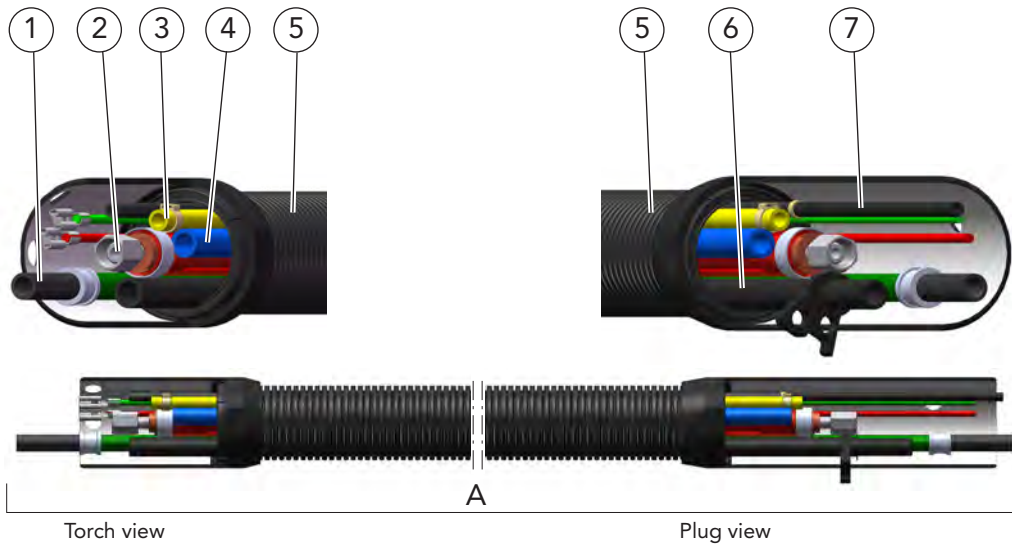


# Torch sets liquid-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RETZ 630 N(NE) with power pin connection ECO.torch spare parts and wear parts Supply hose

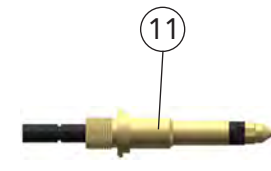
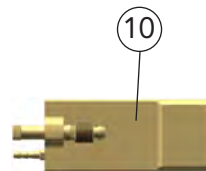
1

MIG/MAG

PUSH hollow wrist robots



Connection rotary interface



Connection wire feeder

Description	Part name	Part number
A Supply hose	DIX VLECO 630-__ N	632164000__
1 Conduit hose	DIX VLECO 2050-__ N	639206443__
2 Combi cable	DIX VLECO 224-__ N	639226108__
3 Gas hose	DIX VL 182-__	629900015__
4 Water hose	DIX VL 190-__	639196001__
5 Cover hose set	DIX VLECO 234-__ N	639234000__
6 Air blast hose	DIX VL 240-__	639246001__
7 Checking gas hose	DIX VLRET 242-__	639247101__
8 O ring (10 pcs.)		629061018
9 ECO - connection	DIX RETZECO 150	639151012
10 Plug insert	DIX RETZ 110 N	639112007
11 Power-Pin Depends on the wire feeder	DIX PP 1__	639118__

-- Length depends on the torch set description.



# Torch sets liquid-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RETZ 630 N(NE) WB with power pin connection ECO.torch with wire brake system, system definition

## Properties

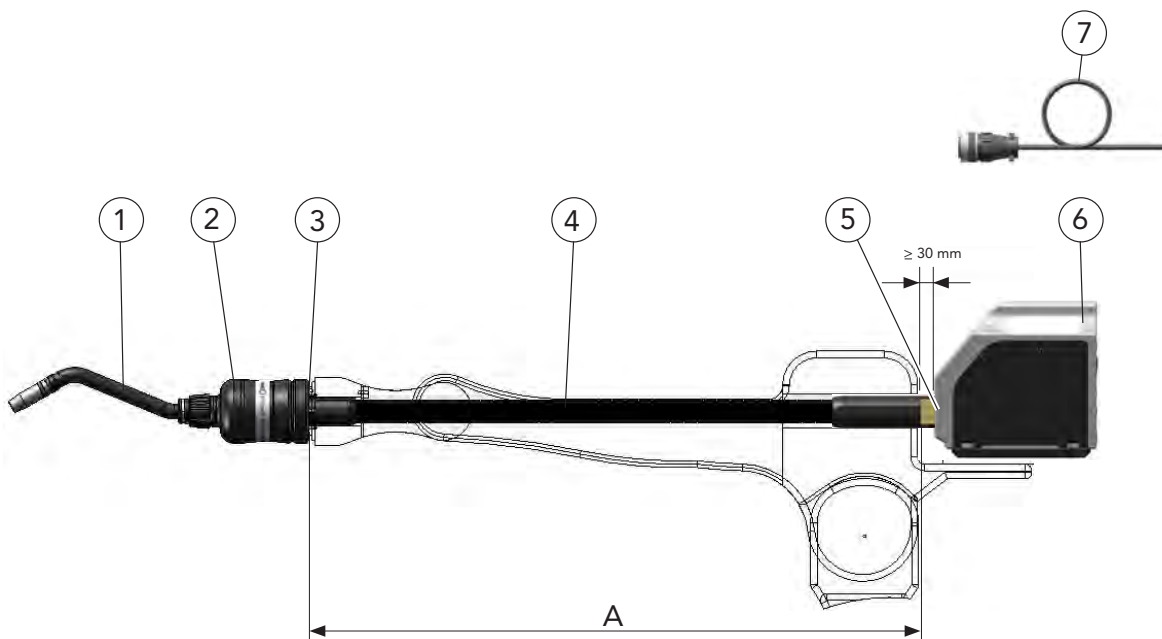
- ▶ For common hollow wrist robots.
- ▶ For DINSE torch heads, liquid cooled  
DIX METZ 52x/59x/54x/56x/57x  
DIX METZ 58xx/64xx/55xx
- ▶ Rotary interface with integrated wire brake system
- ▶ For rotary interfaces, liquid cooled  
RETZ 641 F(S)WB1



Torch head METZ and MES 300/500 Application sample

### Hint:

Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation - Torch heads.



## Description

- A Length depends on the position of the wire feeder
- 1 Torch head
- 2 Rotary interface with wire brake system  
F with deflection / S without deflection
- 3 Adapter flange, ADFRD  
Depends on the robot type
- 4 Torch set for rotary interface with wire brake system
- 5 Connection set, REMA PP 1\_ \_ (for installing into the wire feeder)  
Depends on the power pin and the wire feeder
- 6 Wire feeder
- 7 Connection cable, REAK

▶ Variants deviating of the standard fittings on request.

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories. The order designation of the system components you will find in the corresponding chapter.



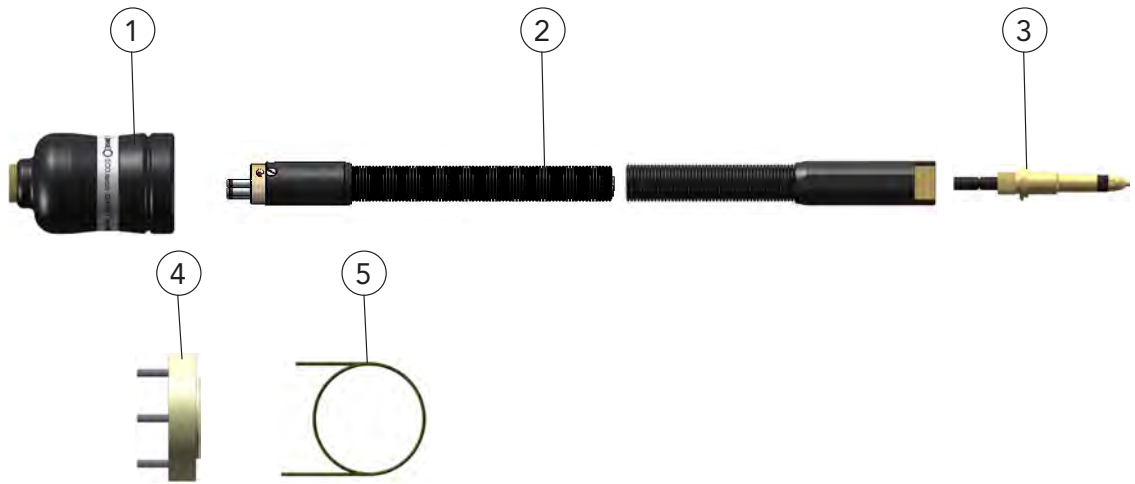


# Torch sets liquid-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RETZ 630 N(NE) WB with power pin connection ECO.torch with wire brake system, system components without wire feeder

1

MIG/MAG

PUSH hollow wrist robots



Description	Dimension	Part name	Part number
1 Rotary interface, for wire diameter 0.8-1.6 mm Flexible version, maximum 15° deflection		DIX RETZ 641 F/WB 1	687341001
Rotary interface, for wire diameter 0.8-1.6 mm Rigid version, without deflection		DIX RETZ 641 S/WB 1	687331100
2 Torch set The torch set length [ ] depends on the wire feeder and robot type		DIX RETZ 630-__ N /WB	630145000-__
Torch set (external gas supply) The torch set length [ ] depends on the wire feeder and robot type		DIX RETZ 630-__ NE /WB	630141000-__
3 Power-Pin Depends on the wire feeder		DIX PP 1-__	639118-__
4 Adapter flange The adapter flange [ ] depends on the robot type		DIX ADFRD 63-__	6870034-__
5 Liner	ø 2.2 mm/2.0 m	DIX DS 4/2,2-2,0	623000320
<b>Options:</b>			
Protection modul For shock sensor in external housing, not shown		DIX REMO 103	719283110
Connection cable, not shown		DIX REAK 100-10	738090110

► Variants deviating of the standard fitting on request.  
For all common wire feeder systems.



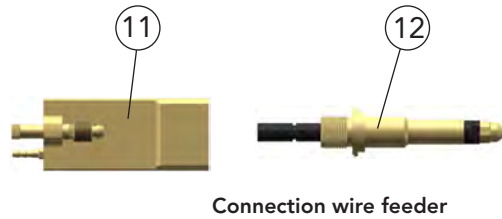
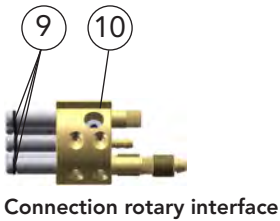
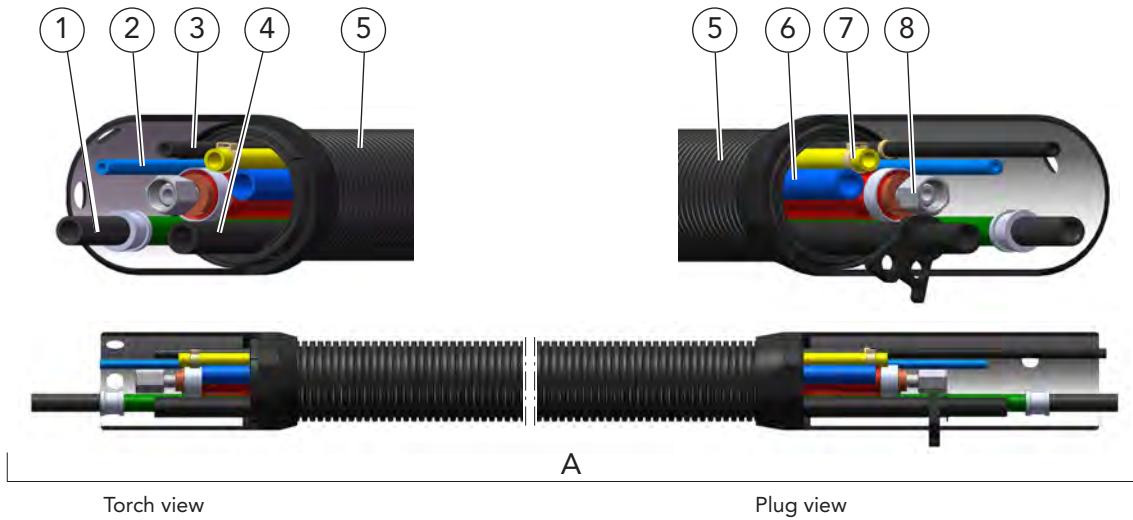
# Torch sets liquid-cooled MIG/MAG for hollow wrist robots ECO.torch DIX RETZ 630 N(NE) WB with power pin connection ECO.torch with wire brake system spare parts and wear parts Supply hose



1

MIG/MAG

PUSH hollow wrist robots



Description	Part name	Part number
A Supply hose	DIX VLECO 630-__ N /WB	632163000-__
1 Conduit hose	DIX VLECO 2040-__ WB	639206440-__
2 Pressure hose, blue For wire brake	DIX VLRET 244-__	719280015-__
3 Checking gas hose	DIX VLRET 242-__	639247101-__
4 Air blast hose	DIX VL 240-__	639246001-__
5 Cover hose set	DIX VLECO 234-__ N	639234000-__
6 Water hose	DIX VL 190-__	639196001-__
7 Gas hose	DIX VL 182-__	629900015-__
8 Combi cable	DIX VLECO 224-__ N	639226108-__
9 O ring (10 pcs.)		629061018
10 ECO - connection	DIX RETZECO 150	639151012
11 Plug insert	DIX RETZ 110 N	639112007
12 Power-Pin Depends on the wire feeder	DIX PP 1-__	639118-__

-- Length depends on the torch set description.



# Protection moduls

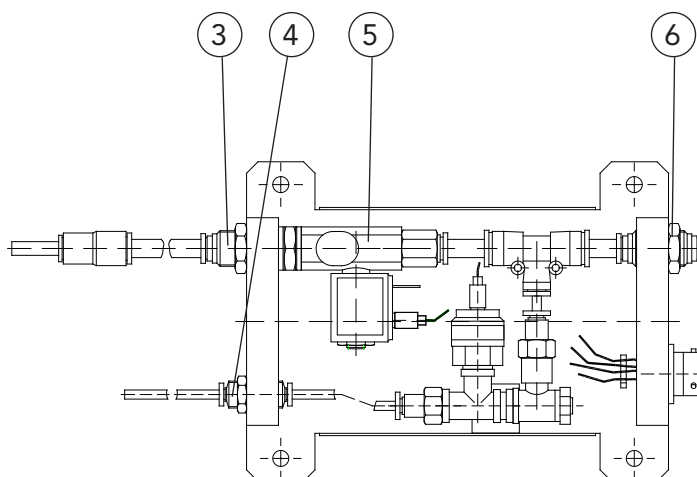
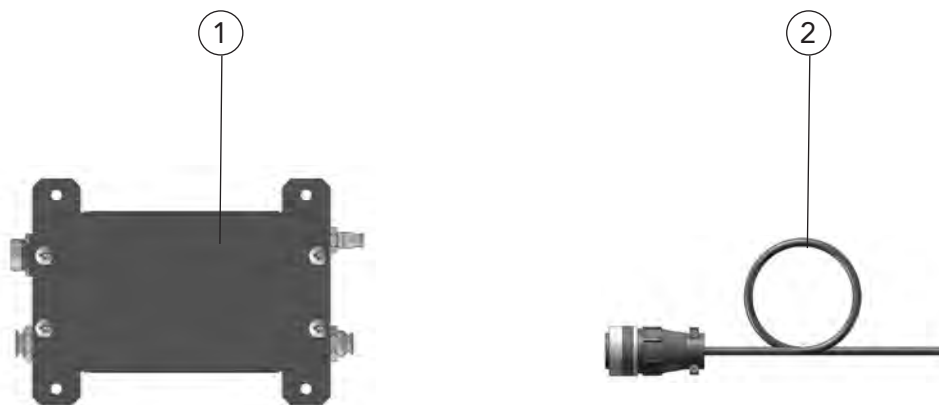
## DIX REMO 100 (101) (103)

### ECO.torch and REVO.torch system application

1

MIG/MAG

PUSH hollow wrist robots



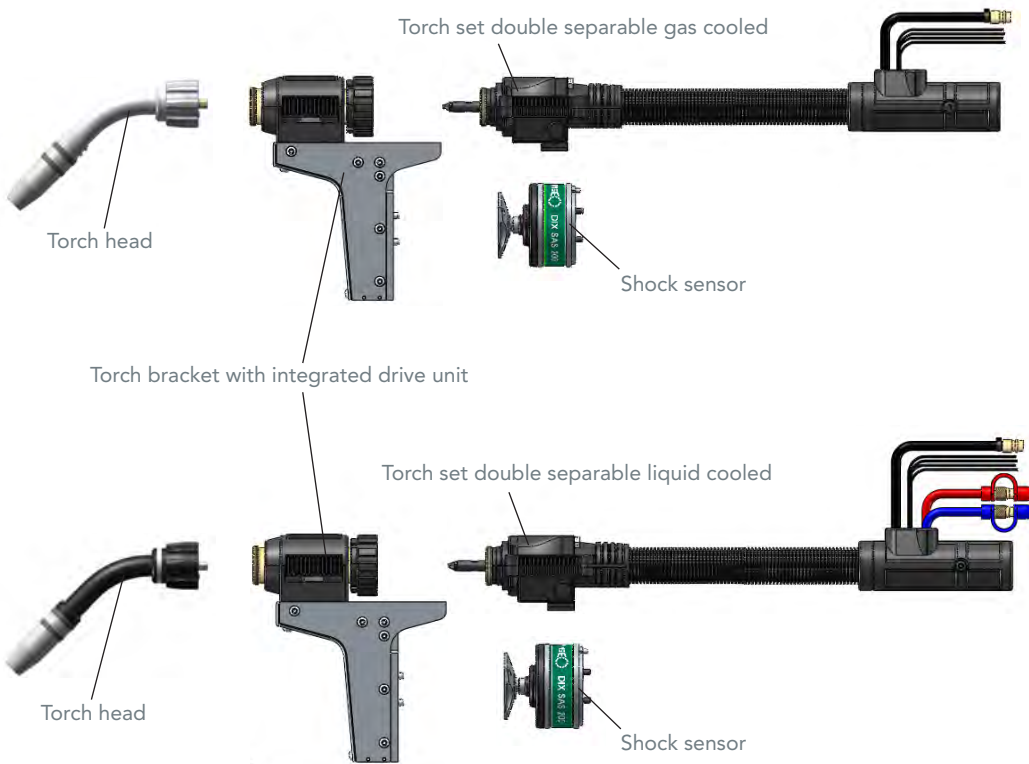
Description	Part name	Part number
1 Protection modul Special equipment for other wire feeders	DIX REMO 101	719283103
2 Connection cable	DIX REAK 100-10	738090110
Protection modul For wire feeder DIX WD 650 X with integrated shock sensor, only assembled, not shown	DIX REMO 100	719283100
Protection modul Only for rotary interfaces with wire brake WB 1, not shown	DIX REMO 103	719283110
<b>Spare parts and wear parts</b>		
3 Threaded joint, complete (5 pcs.)	DIX SSV-G1/4-8	719283105
4 Threaded joint, complete (5 pcs.)	DIX SSV-4-4	719283106
5 Solenoid valve, complete	DIX GMV-24-1/DC	719283104
6 Threaded joint, complete (5 pcs.)	DIX SSV-8-8	719283107



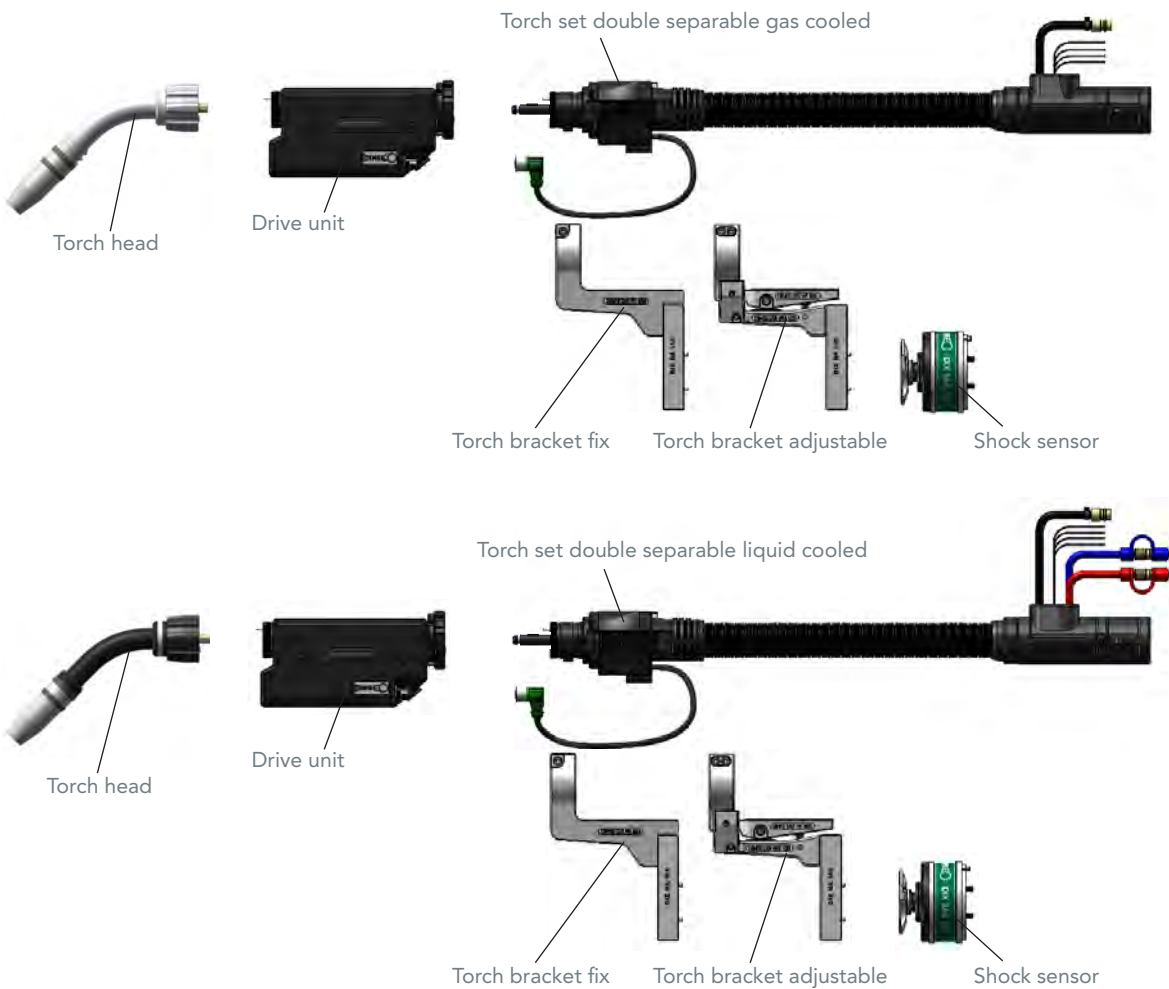
# MIG/MAG welding equipment for Push-Pull(Push) applications on conventional robots



## DIX MEP 200



## DIX FD 200



MIG/MAG

PUSH-PULL conventional robots



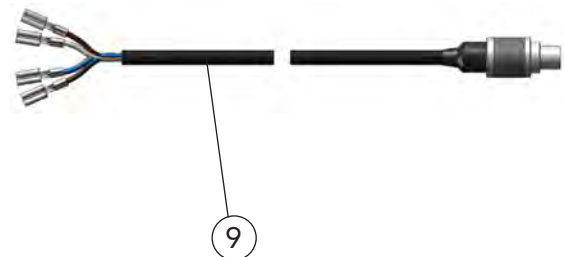
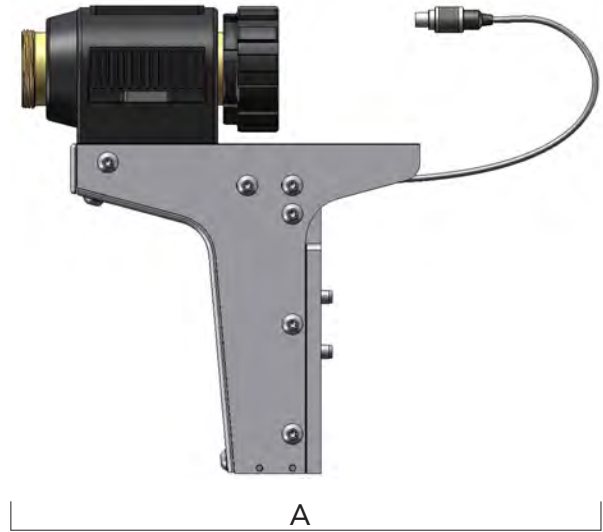
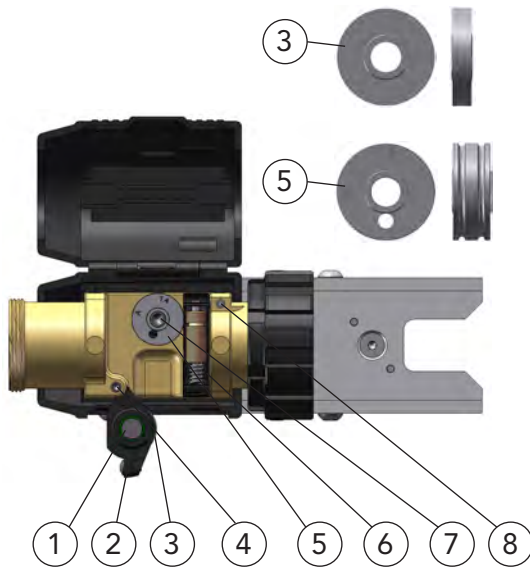
# Front drive units/torch sets MIG/MAG for conventional robots

## DIX MEP 200 (E) (T) (/K)

For PUSH-PULL and PUSH-PUSH applications

### Application

- ▶ For DINSE torch systems, gas cooled  
DIX MEPTT 310  
liquid cooled  
DIX MEPTTZ 600
- ▶ Torch bracket with integrated wire feeder  
(Delivery without drive rolls)
- ▶ Supply voltage 42 Vbc



**OFF** For detailed information on the Front drive MEP 200 (E)(T) (/K) in a singlefeed application, please contact your DINSE consultant.

Description	Part name	Part number
A Torch bracket	DIX MEP 200	631620010
Torch bracket, Encoder	DIX MEP 200 E	631620014
Torch bracket, Tacho	DIX MEP 200 T	631620012
Torch bracket, with contact set	DIX MEP 200 /K	631620016
<b>Spare parts and wear parts</b>		
1 Pressure system, with pos. 2 and 3	DIX MEP 310	6393116000
2 Pressure housing, without pressure roll	DIX MEP 311	639311001
3 Pressure roll	DIX MEP 312	639311600011
4 Screw axle	DIX MEP 351	639350600037
5 Drive roll, for aluminium alloy	DIX MEP 321-__ A	639321__00
Drive roll, for steel	DIX MEP 322-__ S	639322__00
6 Stirrup lock	DIX MEP 340	639340001
Pivot bearing, for stirrup lock, not shown	DIX MEP 341	639340002
7 Flange screw		683216020
8 Threaded pin		6390601400022
9 Control wire	DIX MEP 442	639446004

-- Enter the required wire diameter, e.g.: 08 = 0.8 mm, 12 = 1.2 mm, or 16 = 1.6 mm  
Standard diameter: 0.8 mm, 1.0 mm, 1.2 mm and 1.6 mm.  
Other wire diameters on request.

**Hint:** Service tools you will find in Chapter Tools and Accessories.





# Shock sensors

## DIX SAS 200

### For robotic and half automation applications



1

#### Properties

- ▶ Crash-protection of robot, welding torch and welding fixture at collision in set up and automatic mode
- ▶ Quick shut down of the robot through program stop or emergency stop
- ▶ Precise reset after deflection
- ▶ Low weight



MIG/MAG application sample

#### Application

- ▶ For DINSE torch systems
  - gas cooled
  - DIX MEPTT 310
  - liquid cooled
  - DIX MEPTTZ 600
- ▶ For DINSE torch brackets
  - DIX MEP 200(E)(T)/(K)

#### Technical data (DIN EN 60 974-7):

Reset accuracy:	± 0.03 mm
400 mm to robotic flange	
Deflection range:	20°
Switch class:	Normally closed
Cut-out torque:	18.0 / 27 / 14.5 Nm
Switching capacity:	30V DC/0,5A
Dimension (D/H):	ø 78.5 / 65 mm
Weight:	660 g
Cable length:	100-850 mm
Adapter flange	DIX ADF 6xxx
Bore pattern dependent of robot type	DIX ADFD 6xxx



**Hint:** Information to the appropriate adapter flanges ADF you will find in Chapter System Components..

Description	Dimension	Part name	Part number
A Shock sensor with cut-out torque 18 Nm	ø 78,5 / 65 mm	DIX SAS 200	683100200
Shock sensor for FRONIUS®* adapter cable 3 pins with cut-out torque 18 Nm	ø 78,5 / 65 mm	DIX SAS 200/001	683100029
Shock sensor with cut-out torque 27 Nm	ø 78,5 / 65 mm	DIX SAS 200/002	683100040
Shock sensor with cut-out torque 14.5 Nm	ø 78,5 / 65 mm	DIX SAS 200/003	683100041
Shock sensor with reinforced attachment (M5)	ø 78,5 / 65 mm	DIX SAS 200/004	683100047

#### Spare parts and wear parts

1	Dust boot	DIX SAS 640	683100015
2	Switch set	DIX SAS 650	683100018

**Hint:** Service tools you will find in Chapter Tools and Accessories.

\*Fronius® is a registered trademark of Fronius International GmbH

MIG/MAG PUSH-PULL conventional robots





# Torch sets gas-cooled MIG/MAG for conventional robots

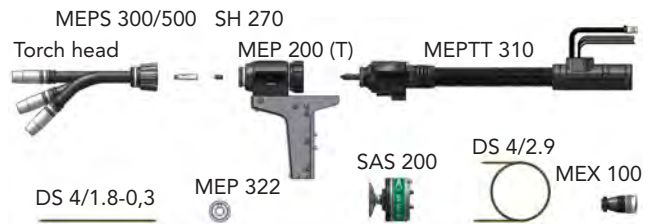
## DIX MEPTT 310 (SA)(N) (for PUSH-PULL and PUSH-PUSH)

### Double separable version

#### Properties

- ▶ For DINSE torch heads gas cooled  
DIX MET 35x/39x  
DIX MET 32xx/37xx/39xx
- ▶ Torch bracket MEP 200 for PUSH-PULL applications (if you are using a DIX PI power source you need the MEP 200 E torch bracket)  
Torch bracket, tacho MEP 200 T for PUSH-PUSH applications
- ▶ Each length is possible as a customized solution
- ▶ We offer cable plugs and power pins for all common wire feeders

● For detailed information on the torch set MEPTT 310 in a singlefeed application, please contact your DINSE consultant.

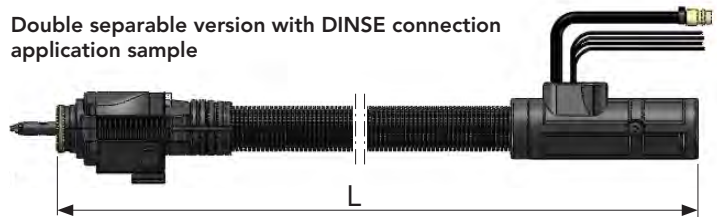


Double separable version for PUSH-PULL and PUSH-PUSH application sample



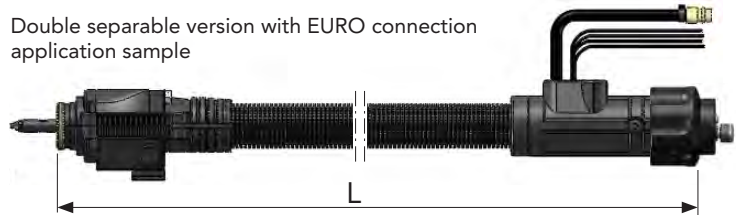
Double separable version with DINSE connection application sample

A



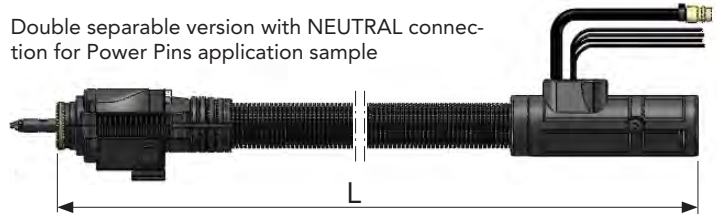
Double separable version with EURO connection application sample

B



Double separable version with NEUTRAL connection for Power Pins application sample

C



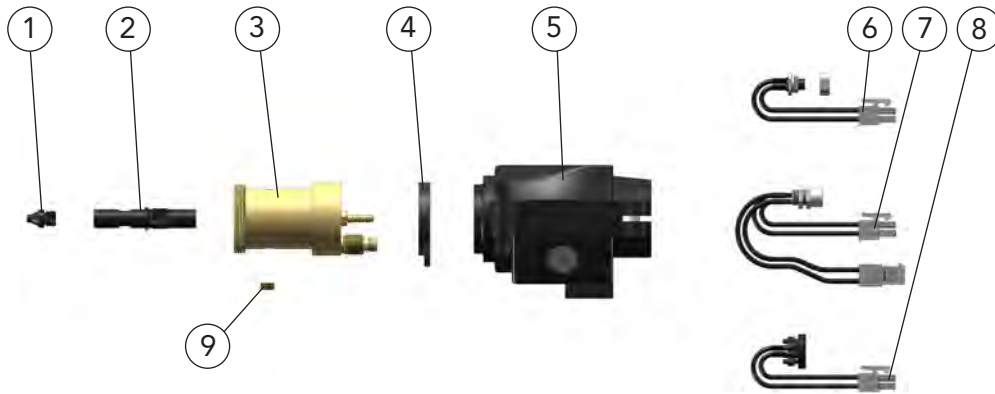
	Description	Dimension		Part name	Part number
A	Torch set, for PUSH-PULL	1.2 m	DIX	MEPTT 310-1.2	630631001
	Torch set, for PUSH-PULL	1.4 m	DIX	MEPTT 310-1.4	630631002
	Torch set, for PUSH-PULL	2.0 m	DIX	MEPTT 310-2.0	630631003
	Torch set, for PUSH-PUSH	5.0 m	DIX	MEPTT 310-5.0	630631004
	Torch set, for PUSH-PUSH	7.0 m	DIX	MEPTT 310-7.0	630631005
B	Torch set, for PUSH-PULL	1.2 m	DIX	MEPTT 310-1.2 SA	630631015
	Torch set, for PUSH-PULL	1.4 m	DIX	MEPTT 310-1.4 SA	630631011
	Torch set, for PUSH-PULL	2.0 m	DIX	MEPTT 310-2.0 SA	630631008
	Torch set, for PUSH-PUSH	5.0 m	DIX	MEPTT 310-5.0 SA	630631012
	Torch set, for PUSH-PUSH	7.0 m	DIX	MEPTT 310-7.0 SA	630631010
C	Torch set, for PUSH-PULL	1.2 m	DIX	MEPTT 310-1.2 N	630631023
	Torch set, for PUSH-PULL	1.4 m	DIX	MEPTT 310-1.4 N	630631024
	Torch set, for PUSH-PULL	2.0 m	DIX	MEPTT 310-2.0 N	630631025
	Torch set, for PUSH-PUSH	5.0 m	DIX	MEPTT 310-5.0 N	630631026
	Torch set, for PUSH-PUSH	7.0 m	DIX	MEPTT 310-7.0 N	630631027
1	Liner Standard lengthst:	ø 2.9 / _ _ m 1.7 m, 1.9 m, 2.5 m, 5.5 m und 7.5 m	DIX	DS 4/2.9- _ _	6230005_ _
2	Cable plug set, for DINSE WD wire feeders		DIX	MEX 100	639077001

\_ \_ Enter the desired length of the liner, e.g.: 17 = 1.7 m oder 25 = 2.5 m.

**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories. The order designation of the system components you will find in the corresponding chapter.



## Torch sets MEPTT 310 (SA)(N) Connecting set for torch sets



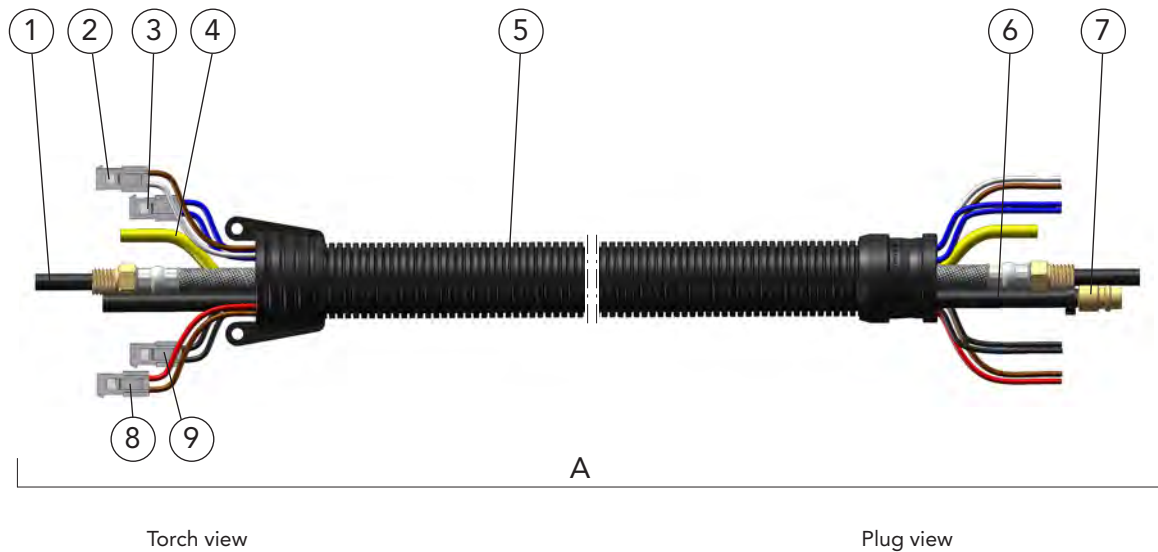
	Description	Part name	Part number
1	Intake nozzle	DIX MEP 152	6391536005
2	Connecting piece, MEP	DIX MEP 151	6391536003
3	Drive connection, MEP	DIX MEP 150	639150004
4	Housing supporting ring, METT	DIX METT 071	639073100012
5	Housing, METT 2	DIX METT 073	639073021
6	Socket set, ME 1 For shock sensor	DIX ME 090	639076001
7	Socket set, ME 2 For gear motor and tacho	DIX ME 091	639076002
8	Push button, ME 2 For set up mode	DIX ME 081	639085002
9	Fitting part, METT	DIX METT 072	6391530001

# Torch sets MEPTT 310 (SA)(N) Supply hose

1

MIG/MAG

PUSH-PULL conventional robots



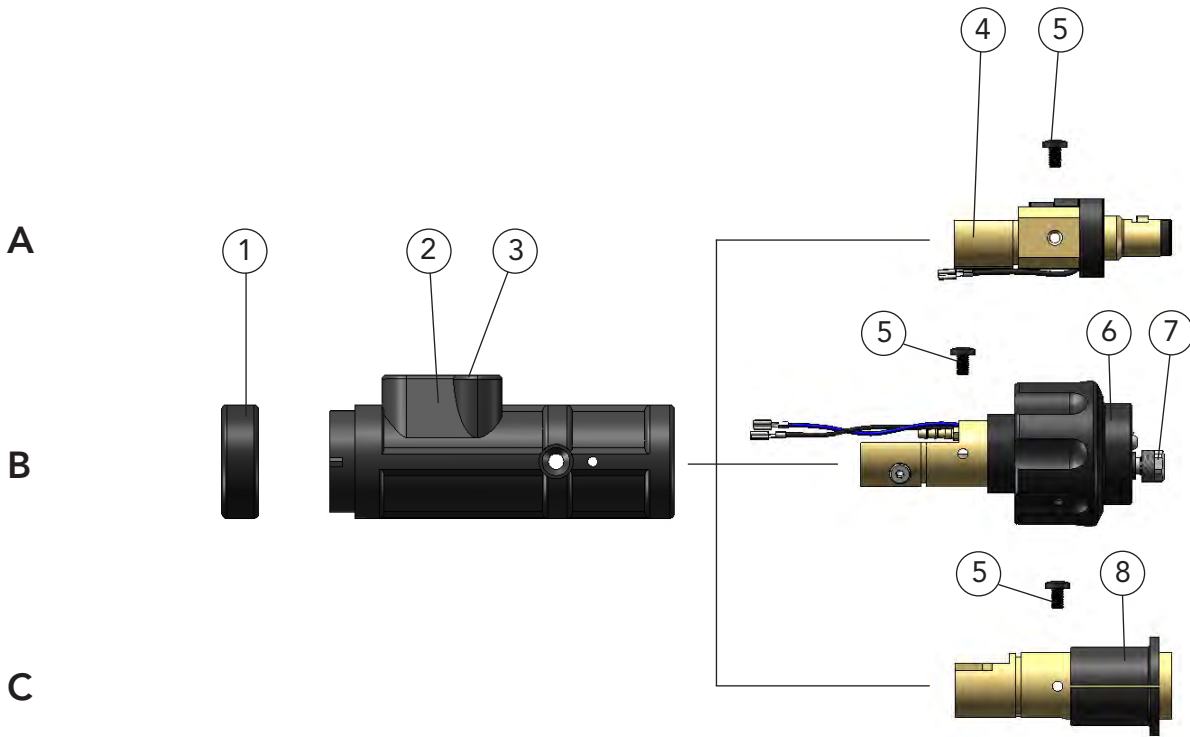
Description	Part name	Part number
A Supply hose	DIX VLEP 310-__	632631001__
1 Binary cable	DIX VL 2000-__	639206302__
2 Control wire set, white / brown For tachometer	DIX VL 213-__	639216004__
3 Control wire set, blue For shock sensor	DIX VL 210-__	639216001__
4 Gas hose	DIX VL 180-__	639186001__
5 Cover hose set (Can be retrofitted to bend protection DIX 25-3-601 ME)	DIX VL 230-__	639236001__
6 Air blast hose	DIX VL 240-__	639246001__
7 Air blast plug	DIX 16-3-506	6391650600
8 Control wire set, brown / red For gear motor	DIX VL 212-__	639216003__
9 Control wire set, black For set up mode	DIX VL 211-__	639216002__

-- Enter the desired length of the welding torch set, e.g.: 12 = 1.2 m or 14 = 1.4 m.  
Standard lengths: 1.2 m, 1.4 m, 2.0 m, 5.0 m and 7.0 m

► **Optional:**  
On request also with cover hose set DIX VL 233-\_\_, part number: 639236011\_\_  
(including bend protection DIX 25-3-601 ME, part number: 6392526001) available, see Seite 368.



# Torch sets MEPTT 310 (SA)(N) Plug



**!** You need a Power Pin for the compact plug DIX KCMEP 300 N (Pos. C). You will find the Power Pin that fits to your wire feeder in the Chapter System Components or you ask your DINSE consultant.

Description	Part name	Part number
A Plug	DIX KCMEP 300	638900032
B Plug	DIX KCMEP 300 SA	638900033
C Plug	DIX KCMEP 300 N	638900048
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG-EC	6391250015
3 Sealing cap	DIX 12-3-510 DK	901515135
4 Plug insert	DIX ME 300 SE	639113004
5 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
6 Plug insert	DIX ME 600 SA	639116070
7 Clamp nut	DIX MEZ 113	639116007
8 Plug insert	DIX ME 300 N	639116077

MIG/MAG  
PUSH-PULL conventional robots



# Torch sets liquid-cooled MIG/MAG for conventional robots DIX MEPTTZ 600 (SAZ)(N) (for PUSH-PULL and PUSH-PUSH) Double separable version

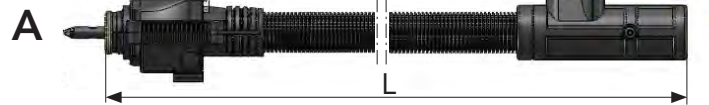
## Applications

- ▶ For DINSE torch heads, liquid cooled DIX METZ 52x/59x/54x/56x/57x DIX METZ 58xx/64xx/55xx
- ▶ Torch bracket MEP 200 for PUSH-PULL applications (if you are using a DIX PI power source you need the MEP 200 E torch bracket) Torch bracket, tacho MEP 200 T for PUSH-PUSH applications
- ▶ Each length is possible as a customized solution
- ▶ We offer cable plugs and power pins for all common wire feeders

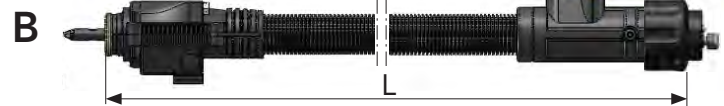


Double separable version for PUSH-PULL and PUSH-PUSH application sample

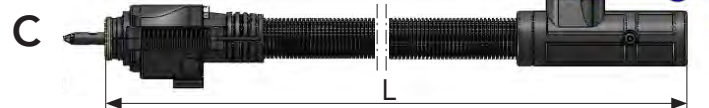
Double separable version with DINSE connection application sample



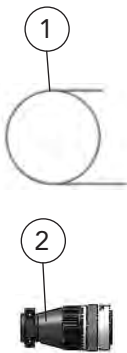
Double separable version with EURO connection application sample



Double separable version with NEUTRAL connection for Power Pins application sample



● For detailed information on the torch set MEPTTZ 600 in a singlefeed application, please contact your DINSE consultant.



Description	Dimension	Part name	Part number
A Torch set, for PUSH-PULL	1.2 m	DIX MEPTTZ 600-1.2	630664001
Torch set, for PUSH-PULL	1.4 m	DIX MEPTTZ 600-1.4	630664002
Torch set, for PUSH-PULL	2.0 m	DIX MEPTTZ 600-2.0	630664003
Torch set, for PUSH-PUSH	5.0 m	DIX MEPTTZ 600-5.0	630664010
Torch set, for PUSH-PUSH	7.0 m	DIX MEPTTZ 600-7.0	630664011
B Torch set, for PUSH-PULL	1.2 m	DIX MEPTTZ 600-1.2 SAZ	630664014
Torch set, for PUSH-PULL	1.4 m	DIX MEPTTZ 600-1.4 SAZ	630664005
Torch set, for PUSH-PULL	2.0 m	DIX MEPTTZ 600-2.0 SAZ	630664004
Torch set, for PUSH-PUSH	5.0 m	DIX MEPTTZ 600-5.0 SAZ	630664025
Torch set, for PUSH-PUSH	7.0 m	DIX MEPTTZ 600-7.0 SAZ	630664026
C Torch set, for PUSH-PULL	1.2 m	DIX MEPTTZ 600-1.2 N	630664228
Torch set, for PUSH-PULL	1.4 m	DIX MEPTTZ 600-1.4 N	630664231
Torch set, for PUSH-PULL	2.0 m	DIX MEPTTZ 600-2.0 N	630664232
Torch set, for PUSH-PUSH	5.0 m	DIX MEPTTZ 600-5.0 N	630664233
Torch set, for PUSH-PUSH	7.0 m	DIX MEPTTZ 600-7.0 N	630664234
1 Liner Standard lengths:	ø 2.9 / __ m 1.7 m, 1.9 m, 2.5 m, 5.5 m and 7.5 m	DIX DS 4/2.9-__	6230005_ _
2 Cable plug set For DINSE WD wire feeders		DIX MEX 100	639077001

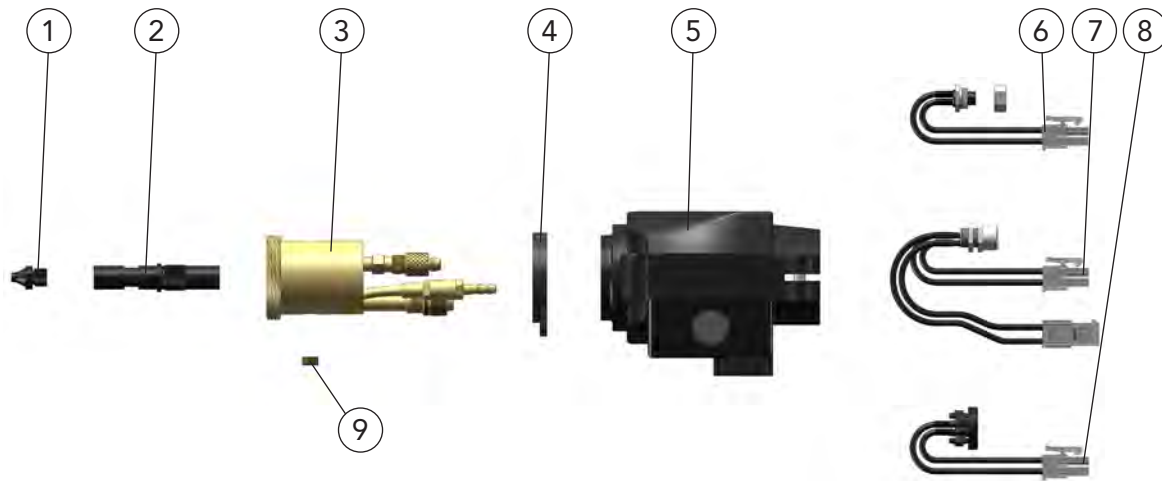
**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

The order designation of the system components you will find in the corresponding chapter..



## Torch sets MEPTTZ 600 (SAZ)(N) Connecting set for torch sets

1



MIG/MAG

PUSH-PULL conventional robots

Description	Part name	Part number
1 Intake nozzle	DIX MEP 152	6391536005
2 Connecting piece, MEP	DIX MEP 151	6391536003
3 Drive connection, MEPZ	DIX MEPZ 150	6391536001
4 Housing supporting ring, METT	DIX METT 071	639073100012
5 Housing, METT 2	DIX METT 073	639073021
6 Socket set, ME 1 For shock sensor	DIX ME 090	639076001
7 Socket set, ME 2 For gear motor and tacho	DIX ME 091	639076002
8 Push button set, ME 2 For set up mode	DIX ME 081	639085002
9 Fitting part, METT	DIX METT 072	6391530001

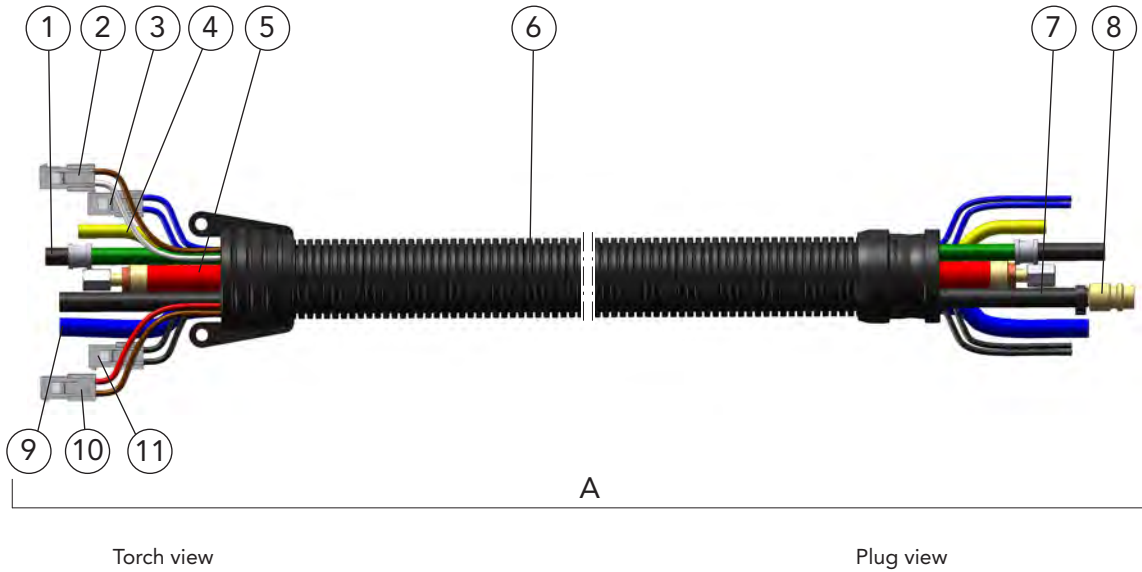


# Torch sets MEPTTZ 600 (SAZ)(N) Supply hose

1

MIG/MAG

PUSH-PULL conventional robots



	Description	Part name	Part number
A	Supply hose	DIX VLEPZ 600-__	632663001__
1	Conduit hose	DIX VL 2010-__	639206303__
2	Control wire set, white / brown For tacho	DIX VL 213-__	639216004__
3	Control wire set, blue For shock sensor	DIX VL 210-__	639216001__
4	Gas hose	DIX VL 180-__	639186001__
5	Combi cable	DIX VL 220-__	639226001__
6	Cover hose set (Can be retrofitted to bend protection DIX 25-3-601 ME)	DIX VL 230-__	639236001__
7	Air blast hose	DIX VL 240-__	639246001__
8	Air blast plug	DIX 16-3-506	6391650600
9	Water hose	DIX VL 190-__	639196001__
10	Control wire set, brown / red For gear motor	DIX VL 212-__	639216003__
11	Control wire set, black For set up mode	DIX VL 211-__	639216002__

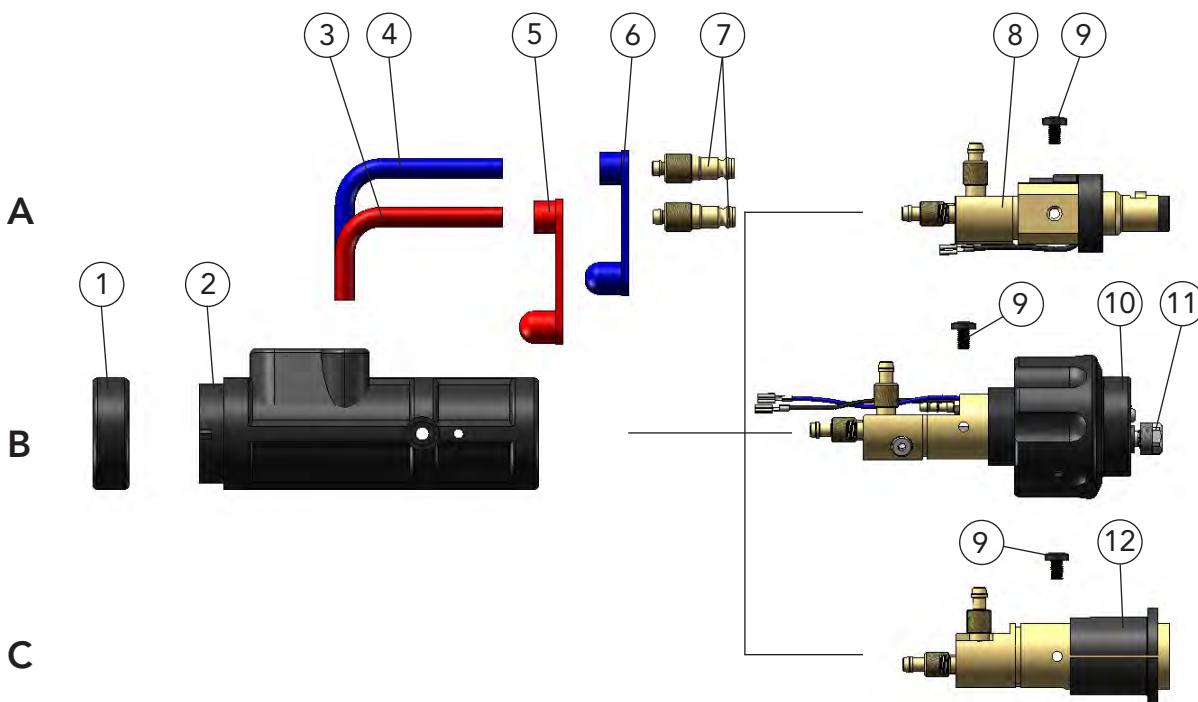
-- Enter the desired length of the welding torch set, e.g.: 12 = 1.2 m or 14 = 1.4 m.  
Standard lengths: 1.2 m, 1.4 m, 2.0 m, 5.0 m and 7.0 m

► **Optional:**  
On request also with cover hose set DIX VL 233-\_\_, part number: 639236011\_\_  
(including bend protection DIX 25-3-601 ME, part number: 6392526001) available, see Seite 368.





# Torch sets MEPTTZ 600 (SAZ)(N) Plug



**NOTE** You need a Power Pin for the compact plug DIX KCZMEP 600 N (Pos. C). You will find the Power Pin that fits to your wire feeder in the Chapter System Components or you ask your DINSE consultant.

	Description	Part name	Part number
A	Plug	DIX KCZMEP 600	638900028
B	Plug	DIX KCZMEP 600 SAZ	638900029
C	Plug	DIX KCZMEP 600 N	638900047
1	Fixing ring	DIX 12-3-510 HR	6391250013
2	Plug housing	DIX 12-3-510 SG-EC	6391250015
3	Connection hose, red	DIX VL 171 ROT	629171004
4	Connection hose, blue	DIX VL 170 BLAU	629171003
5	Cap, red	DIX VL 173	629172002
6	Cap, blue	DIX VL 172	629172001
7	Water plug	DIX 16-2	629160000
8	Plug insert	DIX ME 300 SEZ	639116064
9	Holding screw (10 pcs.)	DIX ME 300 HS	629070005
10	Plug insert	DIX ME 600 SAZ	639116068
11	Clamp nut	DIX MEZ 113	639116007
12	Plug insert	DIX ME 600 N	639116076

MIG/MAG  
PUSH-PULL conventional robots



# Front drive units/torch sets MIG/MAG for conventional robots

## DIX FD 200 M (ME)

For robotic- and automatic applications

Technical data (IEC 60974-5):	
Drive unit For PUSH-PULL	FD 200 M
Drive unit with encoder e.g. for PUSH-PUSH*	FD 200 ME
Wire feed speed:	0.4 - 17 m/min
Wire diameter:	ø 0.4 - 1.6 mm
Supply voltage FD 200 M(E) FD 200 ME 004	48Vdc 36 Vdc
Dimension (L/W/H):	181/70.5/94.5 mm
Weight:	1.650 kg



Drive unit DIX FD200 M(E)

### Advantage

- ▶ Rugged and compact construction
- ▶ Powerful 4-roll drive
- ▶ Low weight
- ▶ Quickly change of the spare parts and wear parts
- ▶ For Hollow wrist robots or DINSE torch bracket-systems with shock sensor DIX SAS 100/002 VA
- ▶ Compatible with gas nozzle sensor
- ▶ Integrated wire feed button



Hollow wrist robot with torch head, drive unit and T.Connector HWD, application sample

### Eigenschaften

- ▶ For PUSH-PULL and PUSH-PUSH\* mode
- ▶ Applications at thin and kink-sensitive wire electrodes
- ▶ Constant wire feeding over long distance of welding torch sets
- ▶ Special contour of the profile roll for aluminum welding



Robot - automatic application with torch head, drive unit, shock sensor and torch bracket-system, application sample

\* PUSH-PUSH mode only with compatible power sources possible.  
Please contact your DINSE consultant.

Other supply voltages on request.



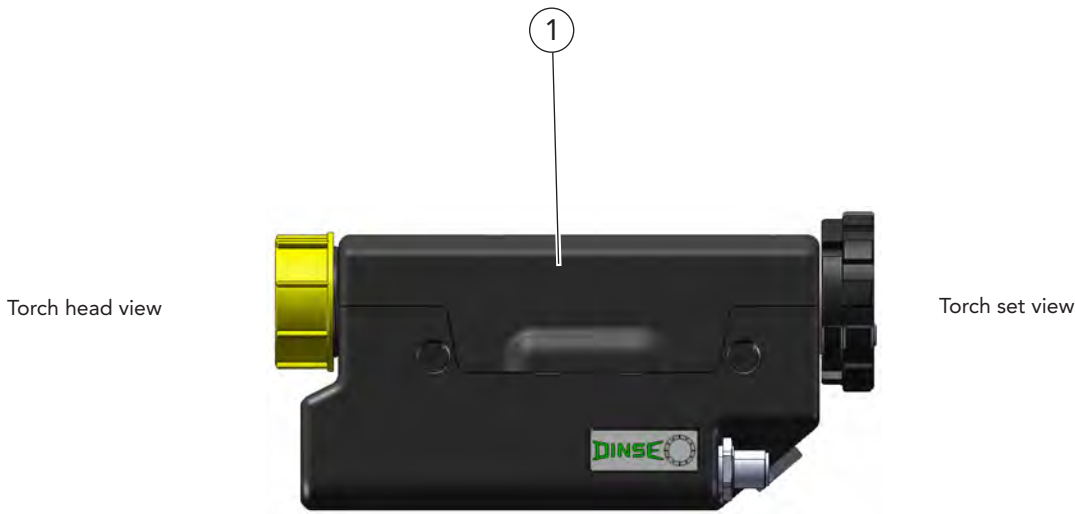
# Front drive units/torch sets MIG/MAG for conventional robots

## DIX FD 200 M (ME)

For robotic- and automatic applications



1



	Description	Part name	Part number
1	Drive unit For PUSH-PULL	DIX FD200 M	7430040000
	Drive unit with encoder e.g. for PUSH-PUSH	DIX FD200 ME	7430040001
	Drive unit with encoder supply voltage 36 Vdc*	DIX FD200 ME 004	7430040068

► Variants deviating of the standard fittings on request.

\* no wire feed button

● For detailed information on the Front drive FD 200 M in a singlefeed application, please contact your DINSE consultant.

MIG/MAG

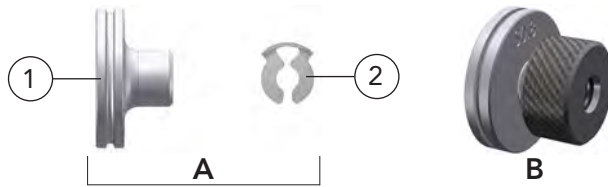
PUSH-PULL conventional robots



## Accessories

### Drive unit FD 100 LS(-WB), FD 200 M, (ME)

#### Profile roll sets



Optionally use the proven profile rolls with KL - safeguard or the profile rolls with a captive locknut for tool-free change of the profile rolls.  
The profile rolls are fully compatible

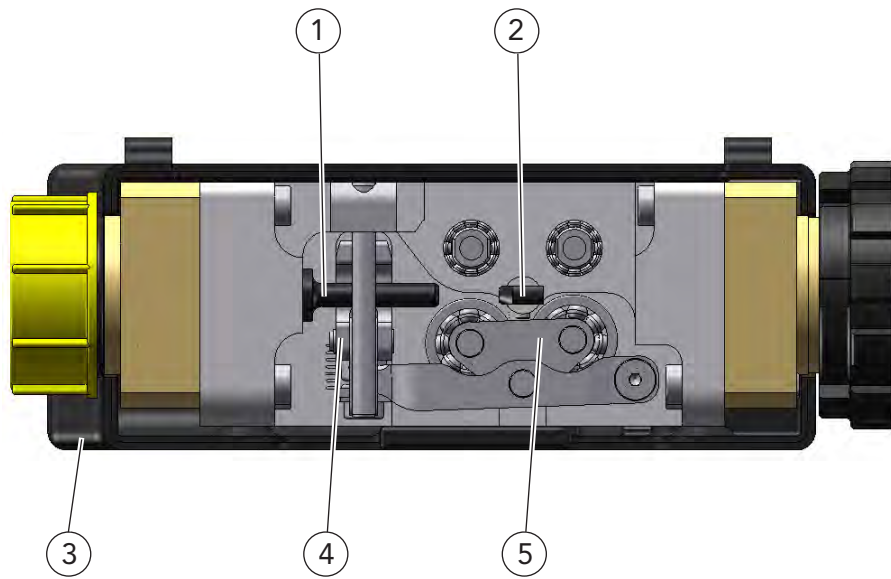
Description	Dimension	Part name		Part number
<b>A Profile roll set for welding wire steel:</b>				
All sets are equipped with two profile rolls and four KL - safeguard.				
Profile roll sets	Draht-ø 0,4 mm	DIX	FD100 RS-04 S	7430030184
Profile roll sets	Draht-ø 0,6 mm	DIX	FD100 RS-06 S	7430030122
Profile roll sets	Draht-ø 0,8 mm	DIX	FD100 RS-08 S	7430030098
Profile roll sets	Draht-ø 1,0 mm	DIX	FD100 RS-10 S	7430030091
Profile roll sets	Draht-ø 1,2 mm	DIX	FD100 RS-12 S	7430030092
Profile roll sets	Draht-ø 1,6 mm	DIX	FD100 RS-16 S	7430030099
1 Profile roll	Draht-ø 0,4 mm	DIX	FD100 WFR-04 S	7430030183
Profile roll	Draht-ø 0,6 mm	DIX	FD100 WFR-06 S	7430030075
Profile roll	Draht-ø 0,8 mm	DIX	FD100 WFR-08 S	7430030072
Profile roll	Draht-ø 1,0 mm	DIX	FD100 WFR-10 S	7430030070
Profile roll	Draht-ø 1,2 mm	DIX	FD100 WFR-12 S	7430030071
Profile roll	Draht-ø 1,6 mm	DIX	FD100 WFR-16 S	7430030073
2 KL - safeguard	VPE 10 pcs.	DIX	FD100 WFR-C	7430030095
<b>B Profile roll sets with locknuts for welding wire steel:</b>				
All sets are equipped with two profile rolls and two captive locknuts.				
Profile roll sets	Draht-ø 0,4 mm	DIX	FD RSL-04 S	7430030305
Profile roll sets	Draht-ø 0,6 mm	DIX	FD RSL-06 S	7430030297
Profile roll sets	Draht-ø 0,8 mm	DIX	FD RSL-08 S	7430030195
Profile roll sets	Draht-ø 1,0 mm	DIX	FD RSL-10 S	7430030196
Profile roll sets	Draht-ø 1,2 mm	DIX	FD RSL-12 S	7430030197
Profile roll sets	Draht-ø 1,6 mm	DIX	FD RSL-16 S	7430030198
<b>A Profile roll set for welding wire aluminum alloys:</b>				
All sets are equipped with two profile rolls and four KL - safeguard.				
Profile roll sets	Draht-ø 0,4 mm	DIX	FD100 RS-04 A	7430030288
Profile roll sets	Draht-ø 0,6 mm	DIX	FD100 RS-06 A	7430030286
Profile roll sets	Draht-ø 0,8 mm	DIX	FD100 RS-08 A	7430030096
Profile roll sets	Draht-ø 1,0 mm	DIX	FD100 RS-10 A	7430030093
Profile roll sets	Draht-ø 1,2 mm	DIX	FD100 RS-12 A	7430030094
Profile roll sets	Draht-ø 1,6 mm	DIX	FD100 RS-16 A	7430030097
1 Profile roll	Draht-ø 0,4 mm	DIX	FD100 WFR-04 A	7430030289
Profile roll	Draht-ø 0,6 mm	DIX	FD100 WFR-06 A	7430030287
Profile roll	Draht-ø 0,8 mm	DIX	FD100 WFR-08 A	7430030082
Profile roll	Draht-ø 1,0 mm	DIX	FD100 WFR-10 A	7430030080
Profile roll	Draht-ø 1,2 mm	DIX	FD100 WFR-12 A	7430030081
Profile roll	Draht-ø 1,6 mm	DIX	FD100 WFR-16 A	7430030083
2 KL - safeguard	VPE 10 pcs.	DIX	FD100 WFR-C	7430030095
<b>B Profile roll sets with locknuts for welding wire aluminum alloys:</b>				
All sets are equipped with two profile rolls and two captive locknuts.				
Profile roll sets	Draht-ø 0,4 mm	DIX	FD RSL-04 A	7430030303
Profile roll sets	Draht-ø 0,6 mm	DIX	FD RSL-06 A	7430030302
Profile roll sets	Draht-ø 0,8 mm	DIX	FD RSL-08 A	7430030199
Profile roll sets	Draht-ø 1,0 mm	DIX	FD RSL-10 A	7430030200
Profile roll sets	Draht-ø 1,2 mm	DIX	FD RSL-12 A	7430030201
Profile roll sets	Draht-ø 1,6 mm	DIX	FD RSL-16 A	7430030202

► Other diameters on request.



# Spare parts and wear parts

## Drive unit FD 200 M (ME)



Description	Dimension	Part name		Part number
1 Wire guide		DIX	FD100 WG-AS	7430030049
2 Wire guide		DIX	FD100 WG-PS	7430030015
3 Housing, complete		DIX	FD200 FC	7430040030
4 Tension unit		DIX	FD100 TU	7430030019
5 Pressure system		DIX	FD100 PS	7430030026
Hose set, not shown		DIX	FD200 HS	7430040046
Pressure spring, not shown		DIX	FD100 TU-S	7430030025
Flange plug, not shown For Drive unit FD 200 M		DIX	FD200 CL-C	7430040058
Flange plug, not shown For Drive unit FD 200 ME		DIX	FD200 CL-CE	7430040059
Push-button set, ME 2, not shown		DIX	ME 081	639085002
Screw, not shown (10 pcs.)	M5 x 7 mm			629061006



MIG/MAG

PUSH-PULL conventional robots

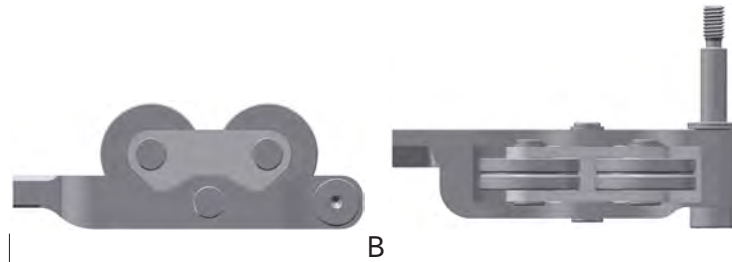
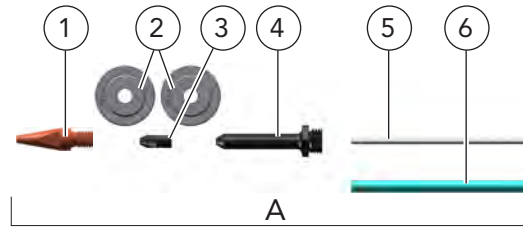


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## Accessories

### Drive unit FD 200 M (ME)

#### Retro fitting set, pressure systems



Description	Dimension	Part name	Part number
A Retro fitting set, for wire feeding of welding wire with wire-Ø 0.4 mm, cutting length of the PTFE-hose and the capillary liner is 2.5 m		DIX FD100 WG-RT 04S	7430030296
B Pressure system, with contoured pressure rolls for aluminium welding wires wire-Ø 1,0 mm		DIX FD100 PS A 1,0	7430030294
Pressure system, with contoured pressure rolls for aluminium welding wires wire-Ø 1,2 mm		DIX FD100 PS A 1,2	7430030292
Pressure system, with contoured pressure rolls for aluminium welding wires wire-Ø 1,6 mm		DIX FD100 PS A 1,6	7430030290
1 Contact tip		DIX 3-2-0.4 /KD	629030067
2 Profil roll kpl.		DIX FD WFRL-04S	7430030299
3 Wire guide		DIX FD100 WG-PS 04	7430030209
4 Wire guide		DIX FD100 WG-AS 04	7430030210
5 Fluidflon PTFE-hose, ID 0,5 mm, OD 1,6 mm, package = 25 m			7430030208
6 Capillary liner		DIX DSK 2- 2,5	623002025

► Variants deviating of the asseccories on request.

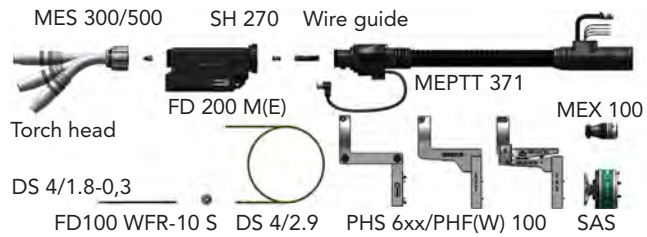
XL-Rolliner is the registered name of MIGAL.CO GmbH.

# Torch sets gas-cooled MIG/MAG for conventional robots DIX MEPTT 371 (SA)(N) (for PUSH-PULL and PUSH-PUSH) Separable version

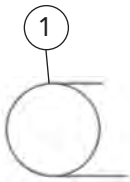


## Applications

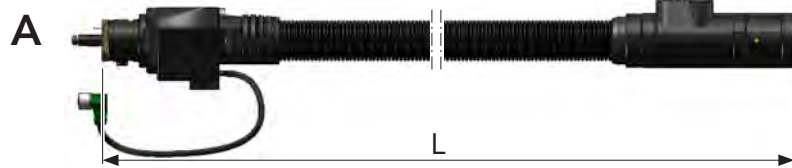
- ▶ For DINSE torch heads gas cooled  
DIX MET 35x/39x  
DIX MET 32xx/37xx/39xx
- ▶ Front drive FD 200 M(E) for applications with DINSE torch bracket systems with shock sensor  
DIX SAS 100/002 VA
- ▶ For PUSH-PULL and PUSH-PUSH\* operation
- ▶ Each length is possible as a customized solution
- ▶ We offer cable plugs and power pins for all common wire feeders



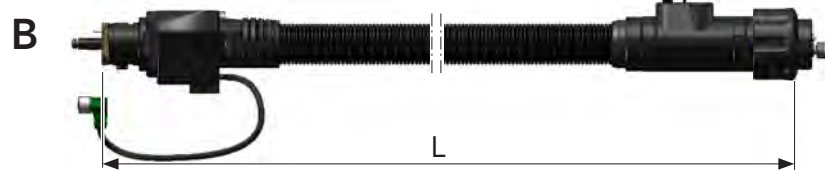
Double separable application for PUSH-PULL and PUSH-PUSH\*  
Application sample



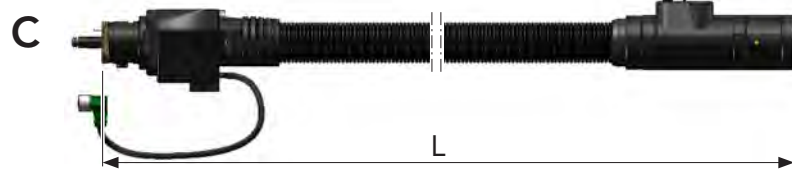
A Separable version with DINSE connection application sample



B Separable version with EURO connection application sample



C Separable version with NEUTRAL connection for Power Pins application sample



● For detailed information on the torch set MEPTT 371 in a singlefeed application, please contact your DINSE consultant.

	Description	Dimensions	Part name	Part number
A	Torch set, for PUSH-PULL	1.2 m	DIX MEPTT 371-1.2	6303710120
	Torch set, for PUSH-PULL	1.4 m	DIX MEPTT 371-1.4	6303710140
	Torch set, for PUSH-PULL	2.0 m	DIX MEPTT 371-2.0	6303710200
	Torch set, for PUSH-PUSH*	5.0 m	DIX MEPTT 371-5.0	6303710500
	Torch set, for PUSH-PUSH*	7.0 m	DIX MEPTT 371-7.0	6303710700
B	Torch set, for PUSH-PULL	1.2 m	DIX MEPTT 371-1.2 SA	6303711120
	Torch set, for PUSH-PULL	1.4 m	DIX MEPTT 371-1.4 SA	6303711140
	Torch set, for PUSH-PULL	2.0 m	DIX MEPTT 371-2.0 SA	6303711200
	Torch set, for PUSH-PUSH*	5.0 m	DIX MEPTT 371-5.0 SA	6303711500
	Torch set, for PUSH-PUSH*	7.0 m	DIX MEPTT 371-7.0 SA	6303711700
B	Torch set, for PUSH-PULL	1.2 m	DIX MEPTT 371-1.2 N	6303714120
	Torch set, for PUSH-PULL	1.4 m	DIX MEPTT 371-1.4 N	6303714140
	Torch set, for PUSH-PULL	2.0 m	DIX MEPTT 371-2.0 N	6303714200
	Torch set, for PUSH-PUSH*	5.0 m	DIX MEPTT 371-5.0 N	6303714500
	Torch set, for PUSH-PUSH*	7.0 m	DIX MEPTT 371-7.0 N	6303714700
1	Liner Standard lengths:	∅ 2.9 / __ m 1.7 m, 1.9 m, 2.5 m, 5.5 m und 7.5 m	DIX DS 4/2.9-__	6230005__
2	Cable plug set For wire feeders		DIX MEX 100	639077001

**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

The order designation of wire feeder rolls and sets you will find in the chapter system components.

\*PUSH-PUSH operation only in conjunction with DINSE power sources.

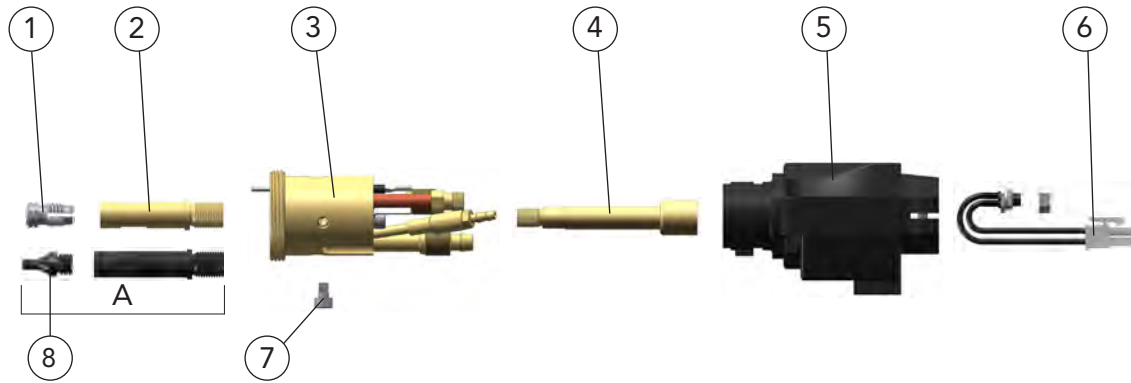
MIG/MAG  
PUSH-PULL conventional robots





## Spare parts and wear parts

### Torch sets MEPTT 371 (SA)(N) Connection set



MIG/MAG

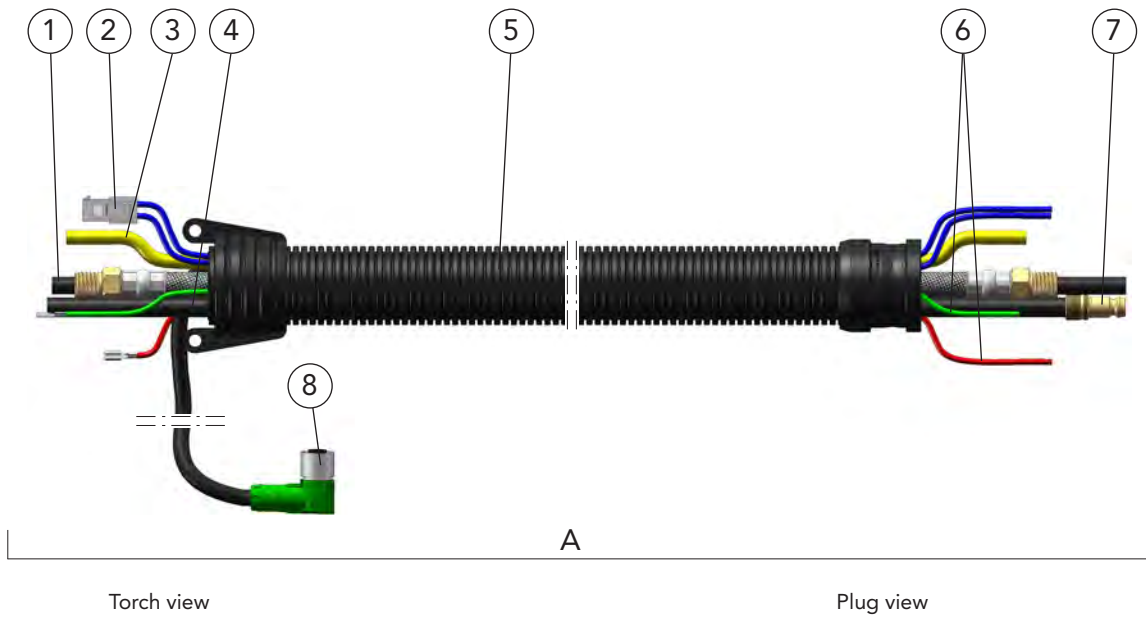
PUSH-PULL conventional robots

Description	Part name	Part number
1 Clamp sleeve	DIX SH 270	629270270
2 Wire guide	DIX FD200 WG-R	7430040016
3 Media adapter	DIX FD200 MA	7430040045
4 Adapter	DIX AD VL 371	7430040049
5 Housing, MEPT	DIX MEPT FD200	7430040052
6 Socket set, ME 1 For shock sensor	DIX ME 090	639076001
7 Cylinder screw	DIX MEZ 151	62906194596
<b>Optionally</b>		
A Wire guide, made of plastic for insulation	DIX FD200 KF	7430040066
8 Intake nozzle	DIX RETZ 663 ED	687400070





# Torch sets MEPTT 371 (SA)(N) Supply hose



MIG/MAG  
PUSH-PULL conventional robots

Description	Dimension	Part name	Part number
A Supply hose		DIX VLEP 371-__	632371__0
1 Binary cable		DIX VL 3710-__	6393710__
2 Control wireset, blue For shock sensor		DIX VL 210-__	639216001__
3 Gas hose		DIX VL 180-__	639186001__
4 Air blast hose		DIX VL 240-__	639246001__
5 Cover hose set (Can be retrofitted to bend protection DIX 25-3-601 ME)		DIX VL 230-__	639236001__
6 Control wire set	10.00 m	DIX VL 670-10	6392166100
7 Air blast plug		DIX 16-3-506	6391650600
8 Control wire	3.00 m	DIX FD200 CL3	7430040043
Control wire, not shown	10.00 m	DIX FD200 CL10	7430040044

-- Enter the desired length of the welding torch set, e.g.: 12 = 1.2 m or 14 = 1.4 m.  
Standard lengths: 1.2 m, 1.4 m, 2.0 m, 5.0 m and 7.0 m

► **Optional:**  
On request also with cover hose set DIX VL 233-\_\_, part number: 639236011\_\_  
(including bend protection DIX 25-3-601 ME, part number: 6392526001) available, see Seite 368.

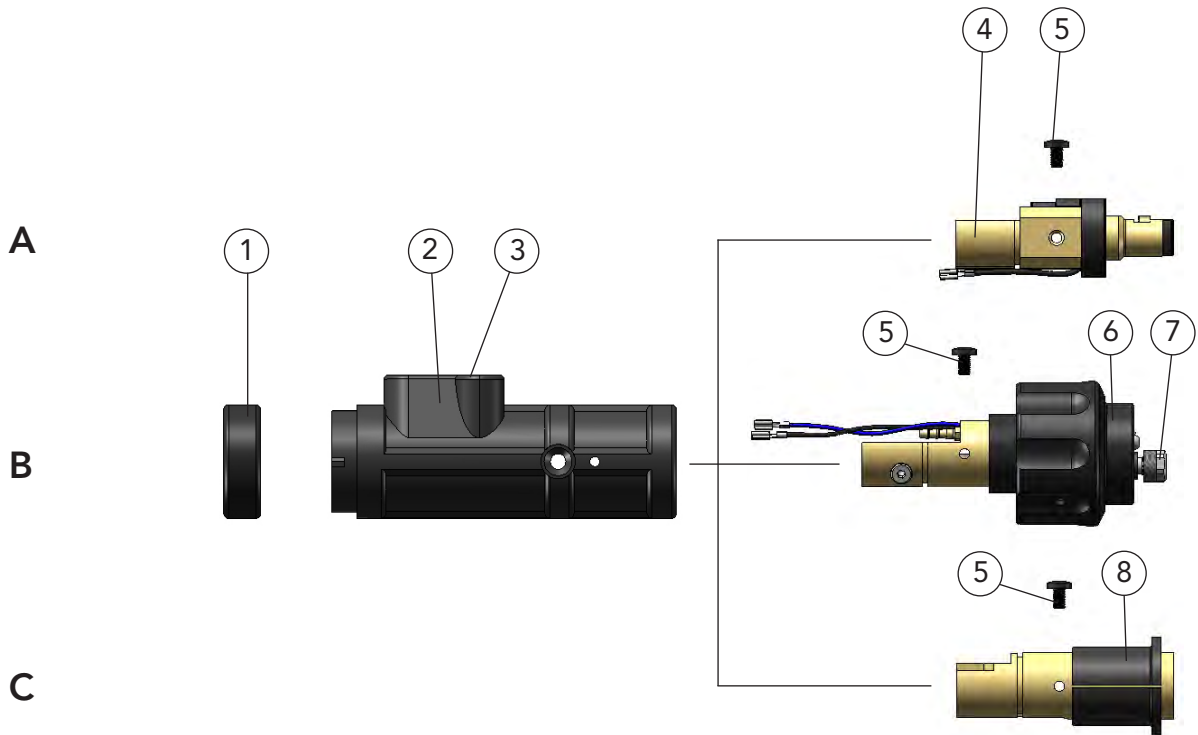


# Torch sets MEPTT 371 (SA)(N) Plug

1

MIG/MAG

PUSH-PULL conventional robots



**NOTE** You need a Power Pin for the compact plug DIX KCMEP 300 N (Pos. C). You will find the Power Pin that fits to your wire feeder in Chapter System Components or you ask your DINSE consultant.

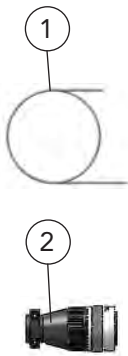
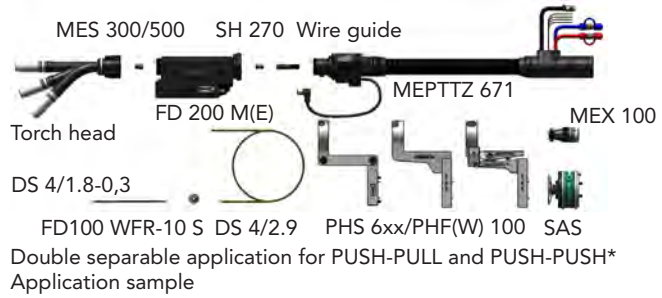
Description	Part name	Part number
A Plug	DIX KCMEP 300	638900032
B Plug	DIX KCMEP 300 SA	638900033
C Plug	DIX KCMEP 300 N	638900048
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG-EC	6391250015
3 Sealing cap	DIX 12-3-510 DK	901515135
4 Plug insert	DIX ME 300 SE	639113004
5 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
6 Plug insert	DIX ME 600 SA	639116070
7 Clamp nut	DIX MEZ 113	639116007
8 Plug insert	DIX ME 300 N	639116077

# Torch sets liquid-cooled MIG/MAG for conventional robots DIX MEPTTZ 671 (SAZ)(N) (for PUSH-PULL and PUSH-PUSH) Separable version

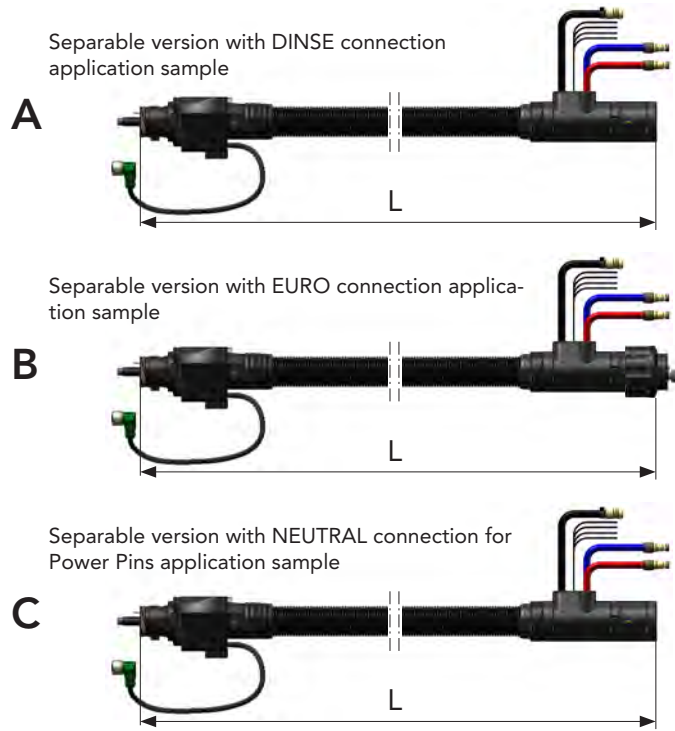


## Applications

- ▶ For DINSE torch heads, liquid cooled  
DIX METZ 52x/59x/54x/56x/57x  
DIX METZ 58xx/64xx/55xx
- ▶ Front drive FD 200 M(E) for applications with  
DINSE torch bracket systems with shock sensor  
DIX SAS 100/002 VA
- ▶ For PUSH-PULL and PUSH-PUSH\*  
operation
- ▶ Each length is possible as a customized solution
- ▶ We offer cable plugs and power pins for all  
common wire feeders



● For detailed information on the torch set MEPTTZ 671 in a singlefeed application, please contact your DINSE consultant.



	Description	Dimension	Part name	Part number
A	Torch set, for PUSH-PULL	1.2 m	DIX MEPTTZ 671-1.2	6306710120
	Torch set, for PUSH-PULL	1.4 m	DIX MEPTTZ 671-1.4	6306710140
	Torch set, for PUSH-PULL	2.0 m	DIX MEPTTZ 671-2.0	6306710200
	Torch set, for PUSH-PUSH*	5.0 m	DIX MEPTTZ 671-5.0	6306710500
	Torch set, for PUSH-PUSH*	7.0 m	DIX MEPTTZ 671-7.0	6306710700
B	Torch set, for PUSH-PULL	1.2 m	DIX MEPTTZ 671-1.2 SAZ	6306711120
	Torch set, for PUSH-PULL	1.4 m	DIX MEPTTZ 671-1.4 SAZ	6306711140
	Torch set, for PUSH-PULL	2.0 m	DIX MEPTTZ 671-2.0 SAZ	6306711200
	Torch set, for PUSH-PUSH*	5.0 m	DIX MEPTTZ 671-5.0 SAZ	6306711500
	Torch set, for PUSH-PUSH*	7.0 m	DIX MEPTTZ 671-7.0 SAZ	6306711700
C	Torch set, for PUSH-PULL	1.2 m	DIX MEPTTZ 671-1.2 N	6306712120
	Torch set, for PUSH-PULL	1.4 m	DIX MEPTTZ 671-1.4 N	6306712140
	Torch set, for PUSH-PULL	2.0 m	DIX MEPTTZ 671-2.0 N	6306712200
	Torch set, for PUSH-PUSH*	5.0 m	DIX MEPTTZ 671-5.0 N	6306712700
	Torch set, for PUSH-PUSH*	7.0 m	DIX MEPTTZ 671-7.0 N	6306712500
1	Liner	ø 2.9 / __ m	DIX DS 4/2.9-__	6230005-__
	Standard lengths:	1.7 m, 1.9 m, 2.5 m, 5.5 m und 7.5 m		
2	Cable plug set For wire feeders		DIX MEX 100	639077001

**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

The order designation of wire feeder rolls and sets you will find in the chapter system components.

\* PUSH-PUSH operation only in conjunction with DINSE power sources.

MIG/MAG

PUSH-PULL conventional robots

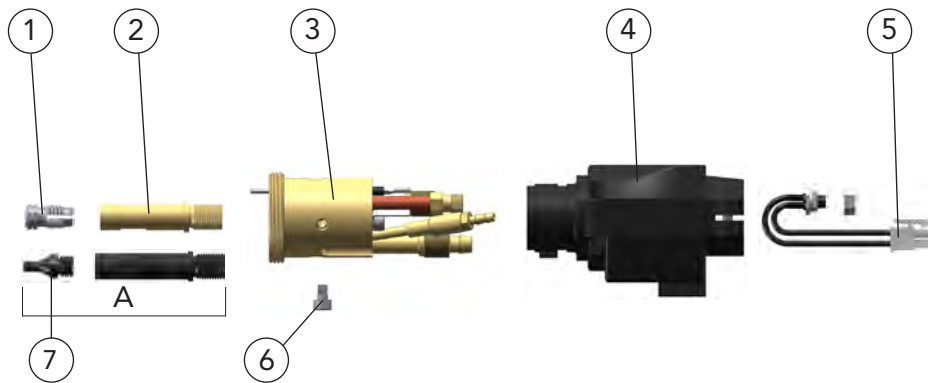


Torch sets MEPTTZ 671 (SAZ)(N)  
Connection set

1

MIG/MAG

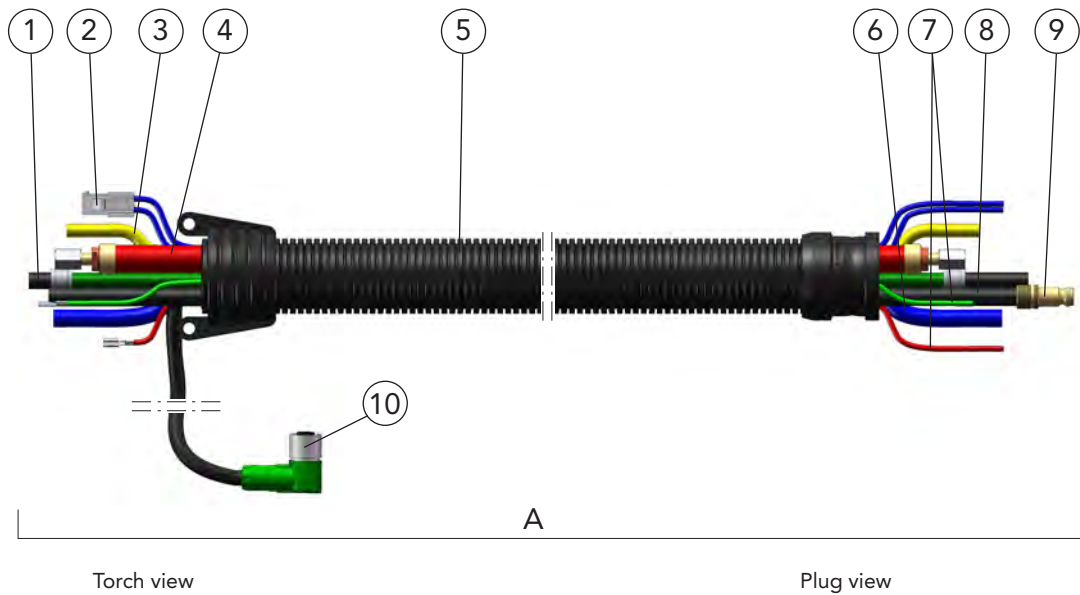
PUSH-PULL conventional robots



Description	Part name	Part number
1 Clamp sleeve	DIX SH 270	629270270
2 Wire guide	DIX FD200 WG-R	7430040016
3 Media adapter	DIX FD200 MA	7430040045
4 Housing, MEPT	DIX MEPT FD200	7430040052
5 Socket set, ME 1 For shock sensor	DIX ME 090	639076001
6 Cylinder screw	DIX MEZ 151	62906194596
<b>Optionally</b>		
A Wire guide, made of plastic for insulation	DIX FD200 KF	7430040066
7 Intake nozzle	DIX RETZ 663 ED	687400070



# Torch sets MEPTTZ 671 (SAZ)(N) Supply hose



MIG/MAG  
PUSH-PULL conventional robots

Description	Dimension	Part name	Part number
A Supply hose		DIX VLEPZ 671-__	632671__0
1 Conduit hose		DIX VL 2010-__	639206303__
2 Control wire set, blue For shock sensor		DIX VL 210-__	639216001__
3 Gas hose		DIX VL 180-__	639186001__
4 Combi cable		DIX VL 220-__	639226001__
5 Cover hose set (Can be retrofitted to bend protection DIX 25-3-601 ME)		DIX VL 230-__	639236001__
6 Water hose		DIX VL 190-__	639196001__
7 Control wire set	10,0 m	DIX VL 670-10	6392166100
8 Air blast hose		DIX VL 240-__	639246001__
9 Air blast plug		DIX 16-3-506	6391650600
10 Control wire	3,00 m	DIX FD200 CL3	7430040043
Control wire , not shown	10,00 m	DIX FD200 CL10	7430040044

-- Enter the desired length of the welding torch set, e.g.: 12 = 1.2 m or 14 = 1.4 m.  
Standard lengths: 1.2 m, 1.4 m, 2.0 m, 5.0 m and 7.0 m

► **Optional:**  
On request also with cover hose set DIX VL 233-\_\_, part number: 639236011\_\_  
(including bend protection DIX 25-3-601 ME, part number: 6392526001) available, see Seite 368

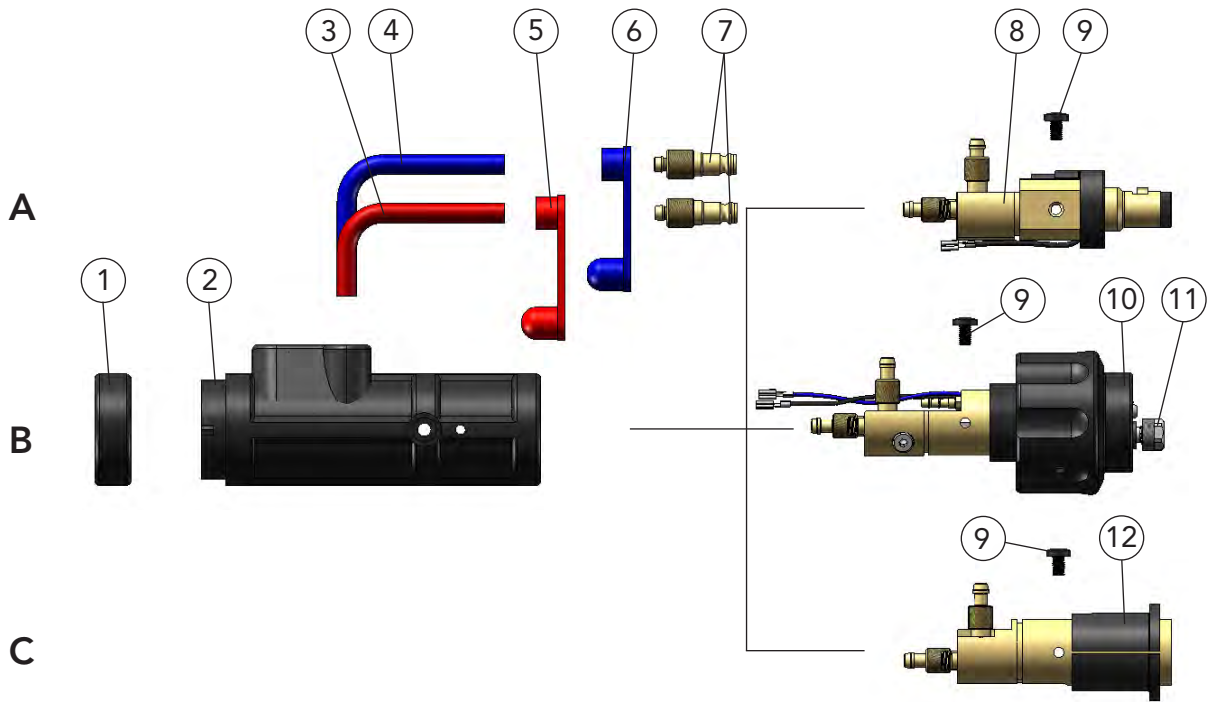


# Torch sets MEPTTZ 671 (SAZ)(N) Plug

1

MIG/MAG

PUSH-PULL conventional robots



**OPTIONAL** You need a Power Pin for the compact plug DIX KCZMEP 600 N (Pos. C). You will find the Power Pin that fits to your wire feeder in Chapter System Components or you ask your DINSE consultant.

Description	Part name	Part number
A Plug	DIX KCZMEP 600	638900028
B Plug	DIX KCZMEP 600 SAZ	638900029
C Plug	DIX KCZMEP 600 N	638900047
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG-EC	6391250015
3 Connection hose, red	DIX VL 171 ROT	629171004
4 Connection hose, blue	DIX VL 170 BLAU	629171003
5 Cap, red	DIX VL 173	629172002
6 Cap, blue	DIX VL 172	629172001
7 Water plug	DIX 16-2	629160000
8 Plug insert	DIX ME 300 SEZ	639116064
9 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
10 Plug insert	DIX ME 600 SAZ	639116068
11 Clamp nut	DIX MEZ 113	639116007
12 Plug insert	DIX ME 600 N	639116076

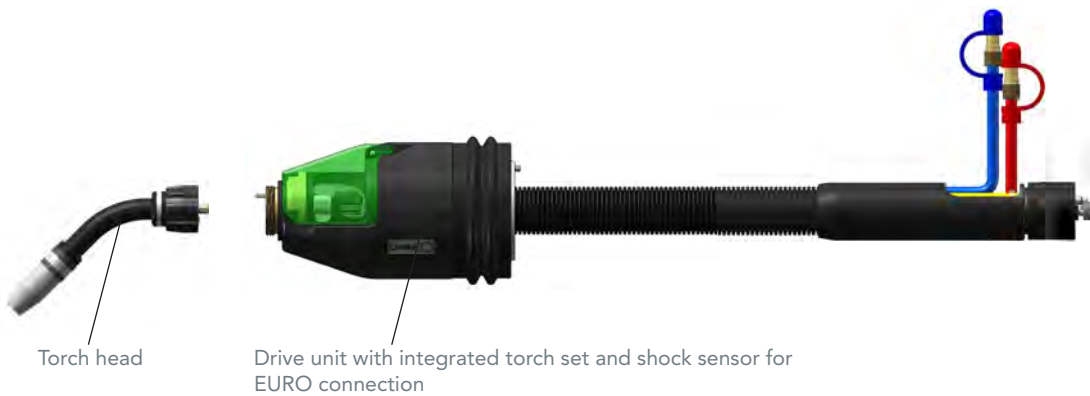
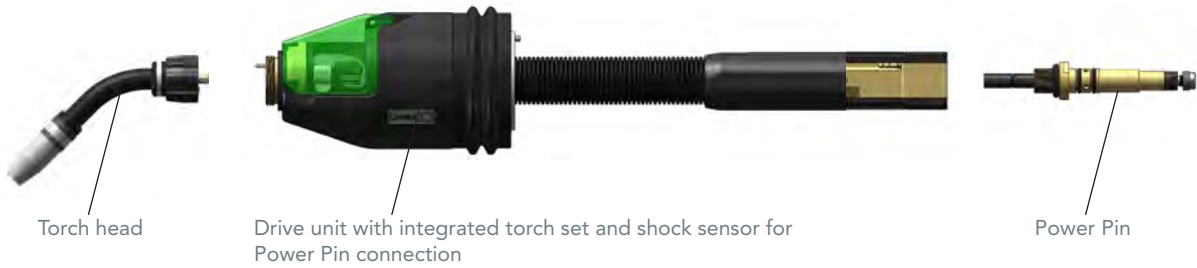


# MIG/MAG welding equipment for Push-Pull(Push) applications on hollow wrist robots

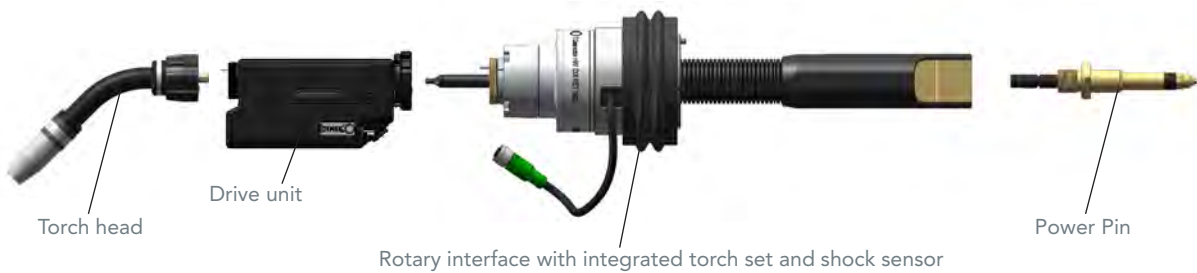


1

## DIX FD 300 FAZ



## DIX FD 200



MIG/MAG

PUSH-PULL hollow wrist robots

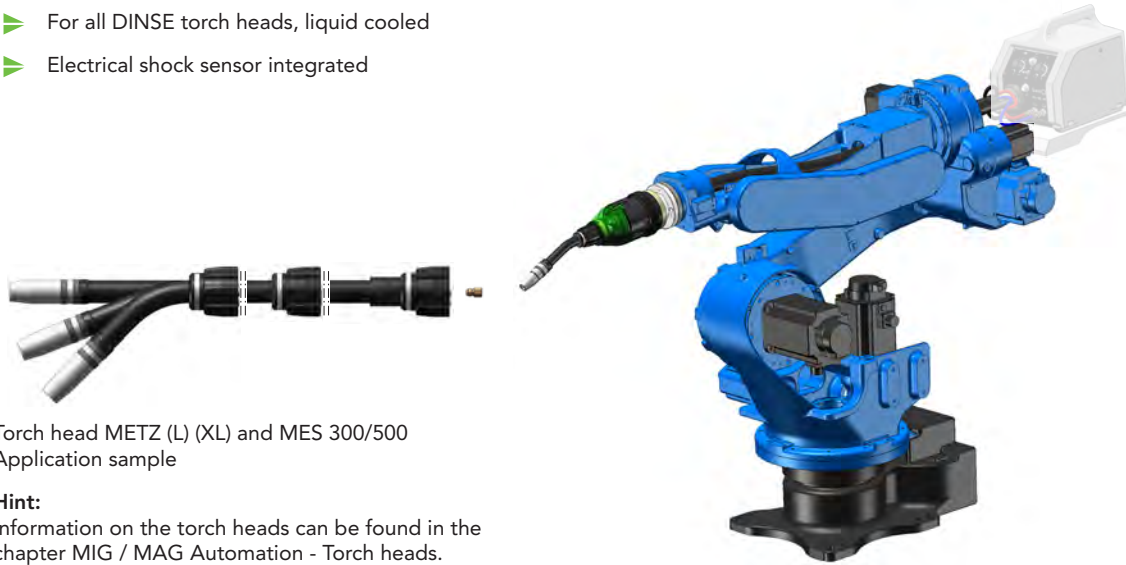


# Torch sets MIG/MAG for hollow wrist robots Frontdrive Connector DIX FD 300 FAZ N with power pin connection

## System definition

### Applications

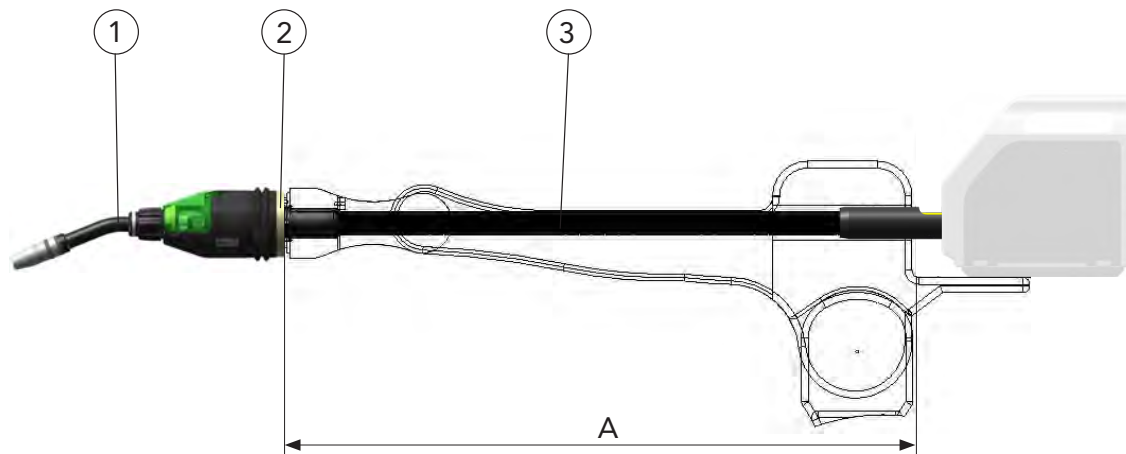
- ▶ For common hollow wrist robots
- ▶ For all DINSE torch heads, liquid cooled
- ▶ Electrical shock sensor integrated



Application sample

Torch head METZ (L) (XL) and MES 300/500  
Application sample

**Hint:**  
Information on the torch heads can be found in the chapter MIG / MAG Automation - Torch heads.



Application sample

● **OFF** Standard version with power pin connection.  
For other connections, ask your DINSE specialist advisor.

Description	
A	Length depends on the robot type and the position of the wire feeder
1	Torch head
2	Adapter flange, ADFL, depends on robot type
3	Rotary interface with integrated torch set, flexible version with maximum 7° deflection, rotation +/- 260°

- ▶ Special (custom) components may be available upon request.

**Hint:**  
Liners, capillary liners and service tools are found in Chapter Wear Parts respectively Tools and Accessories. The order designation of the system components are found in the corresponding chapter.

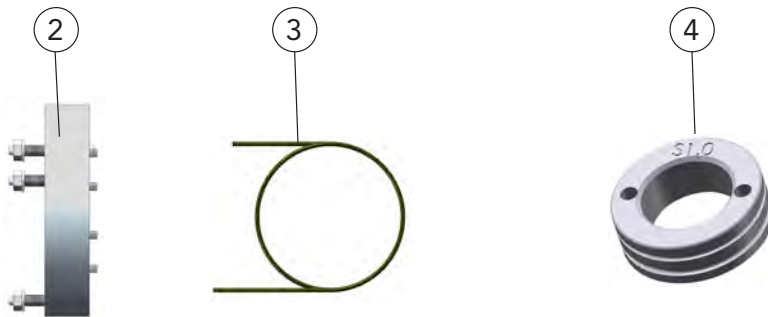
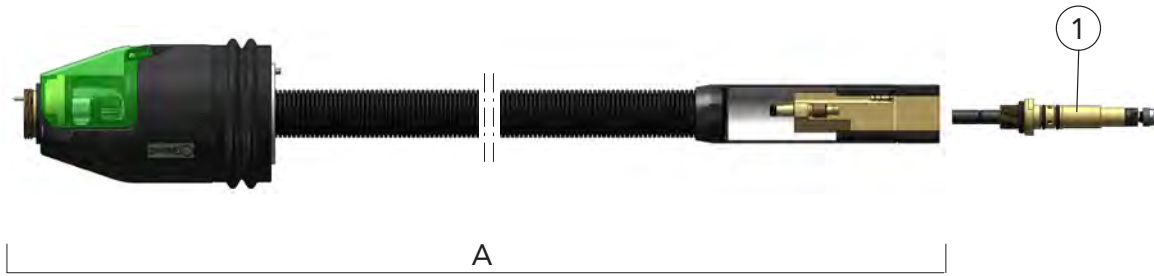


# Torch sets MIG/MAG for hollow wrist robots Frontdrive Connector DIX FD 300 FAZ N with power pin connection

## System components without wire feeder



1



MIG/MAG

PUSH-PULL hollow wrist robots

**MPZ** The suitable power pin for your wire feeder you will find in Chapter System Components. Please ask your DINSE consultant.

Description	Dimensions	Part name	Part number
A Frontdrive Connector Rotary interface with torch set, gas supply internally via power-Pin, flexible version with maximum 7° deflection The torch set length [_ _] depends on the robot type and the wire feeder position		DIX FD 300 FAZ-__ N	687490-__
1 Power Pin Depends on the wire feeder type		DIX PP 1-__	639118-__
2 Adapter flange The adapter flange [_ _] depends on the robot type		DIX ADFL 63-__	6870035-__
3 Liner	ø 2.2 mm/2.5 m	DIX DS 4/2.2-2.5	623000325
4 Profile rolls for welding wires steel:			
Profile rolls	Wire-ø 0.8 mm	DIX MPZ.neo WFR-08S	743000043
Profile rolls	Wire-ø 1.0 mm	DIX MPZ.neo WFR-10S	743000046
Profile rolls	Wire-ø 1.2 mm	DIX MPZ.neo WFR-12S	743000044
Profile rolls	Wire-ø 1.6 mm	DIX MPZ.neo WFR-16S	743000045
Profile rolls for welding wires aluminum alloys:			
Profile rolls	Wire-ø 0.8 mm	DIX MPZ.neo WFR-08A	743000054
Profile rolls	Wire-ø 1.0 mm	DIX MPZ.neo WFR-10A	743000053
Profile rolls	Wire-ø 1.2 mm	DIX MPZ.neo WFR-12A	743000052
Profile rolls	Wire-ø 1.6 mm	DIX MPZ.neo WFR-16A	743000051

▶ Special (custom) components may be available upon request. Flange and Power-Pins are found in Chapter System Components. For all common wire feeder systems.



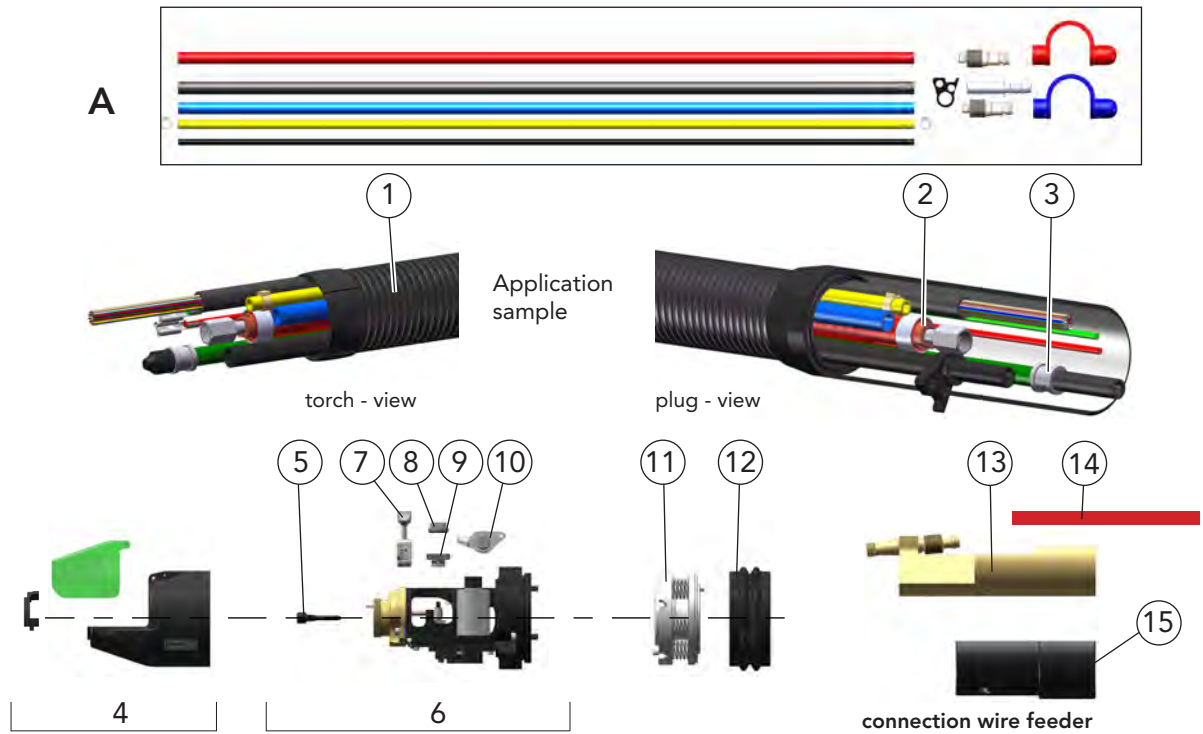
# Torch sets MIG/MAG for hollow wrist robots Frontdrive Connector DIX FD 300 FAZ N with power pin connection

## Spare and wear parts Repair set

1

MIG/MAG

PUSH-PULL hollow wrist robots



Description	Part name	Part number
A Repair set - hoses, for gas- and liquid cooled torch sets up to 3 m length	DIX TS 360-663	687400028
Content/ Piece:		
Air blast hose, DIX VL 240-__	4.2 m	Cap, blue, DIX VL 172
Air blast plug, DIX 16-3-506	1 pcs.	Cap, red, DIX VL 173
Water plug, DIX 16-2	2 pcs.	Gas hose, VL 182-__
Water hose red, DIX VL 191-__	1.3 m	Water hose blue, DIX VL 190-__
Checking gas hose, DIX VL 243-__	4.2 m	
Only for wire brake		
1 Cover hose set	DIX VLLITE 231-__	639231007-__
2 Combi cable	DIX VLLITE 220-__	639226102-__
3 Conduit hose	DIX VLLITE FD 300-__	639206450-__
<b>Connection torch view:</b>		
4 Housing, complete	DIX FD300 FC VE	687007053
5 Intake nozzle	DIX FD300	687007037
6 Drive unit, complete	DIX FD300 M VE	687007054
7 Clamping unit, FD300 TU		687007014
8 Fastening nut, FD300 RN		687007020
9 Gear set	DIX MPZ.neo SG	743000017
10 Pressure system, FD300 PS		687007018
11 Disconnection	DIX ABSC FD 300	687007047
12 Dust boost	DIX MAN 361	687400016
<b>Connection wire feeder:</b>		
13 Plug insert, for power pin version	DIX RETZ 110 NL	687007045
14 Water hose, red	DIX VL 191-1.5 ROT	63919600215
15 Adapter sleeve	DIX RETZ FD 300	687007046

► The suitable power pin for your wire feeder are found in Chapter System Components. Please ask your DINSE consultant. Other connecting mandrel depends on the wire feed type available on request.

-- Length depends on the torch set description.



# Torch sets MIG/MAG for hollow wrist robots Frontdrive Connector DIX FD 300 FAZ SAZ with EURO connection

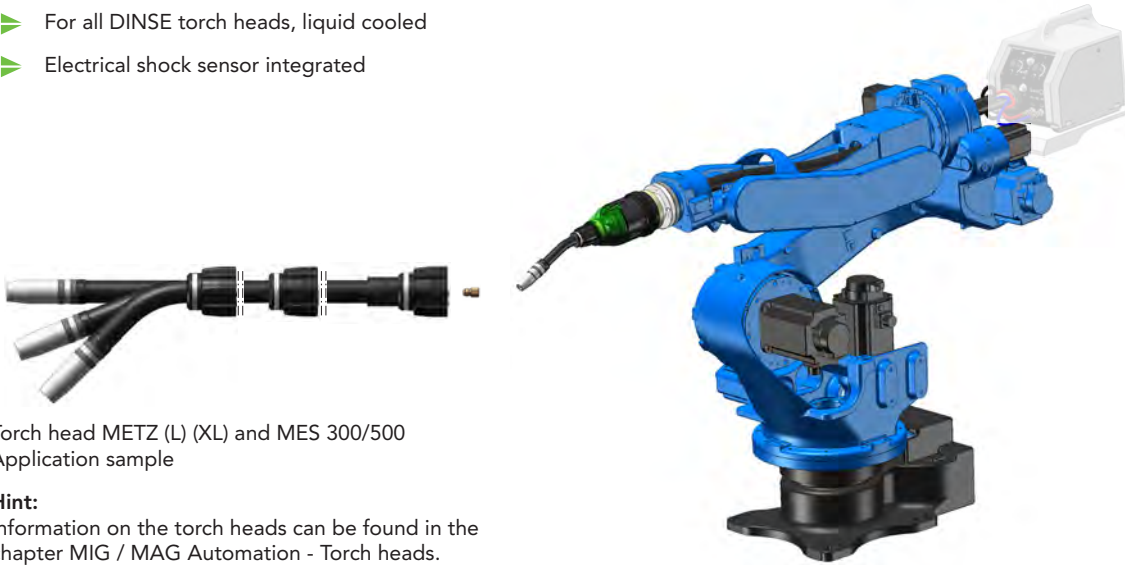
## System definition



1

### Applications

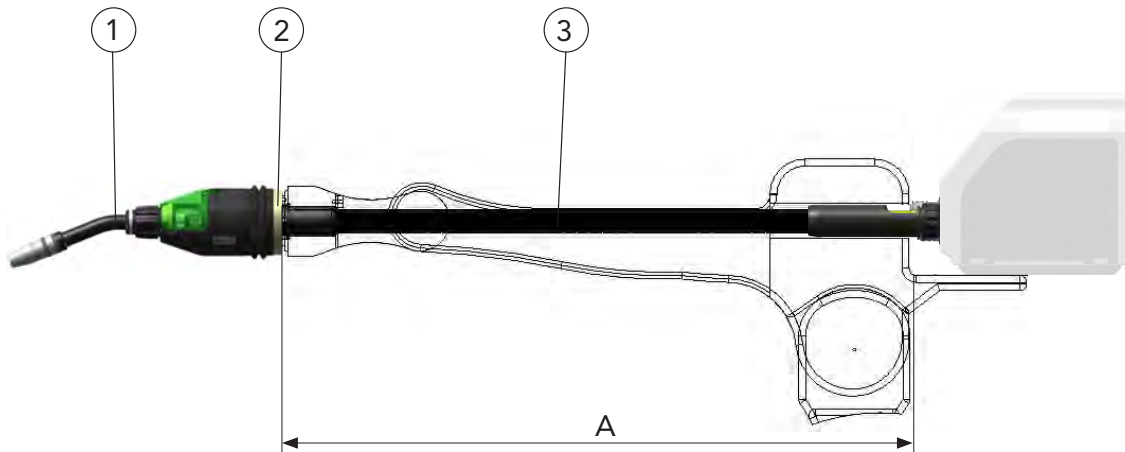
- ▶ For common hollow wrist robots
- ▶ For all DINSE torch heads, liquid cooled
- ▶ Electrical shock sensor integrated



Torch head METZ (L) (XL) and MES 300/500  
Application sample

Application sample

**Hint:**  
Information on the torch heads can be found in the chapter MIG / MAG Automation - Torch heads.



Application sample

**012** Standard version with EURO connection.  
For other connections, ask your DINSE specialist advisor.

### Description

A Length depends on the robot type and the position of the wire feeder

- 1 Torch head
- 2 Adapter flange, ADFL, depends on robot type
- 3 Rotary interface with integrated torch set, flexible version with maximum 7° deflection, rotation +/- 260°

▶ Special (custom) components may be available upon request.

**Hint:**  
Liners, capillary liners and service tools are found in Chapter Wear Parts respectively Tools and Accessories. The order designation of the system components are found in the corresponding chapter.



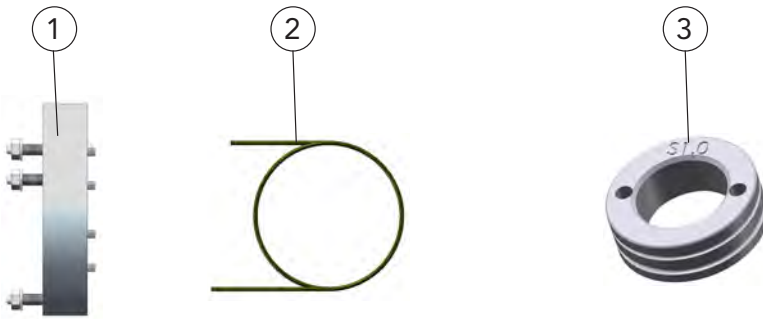
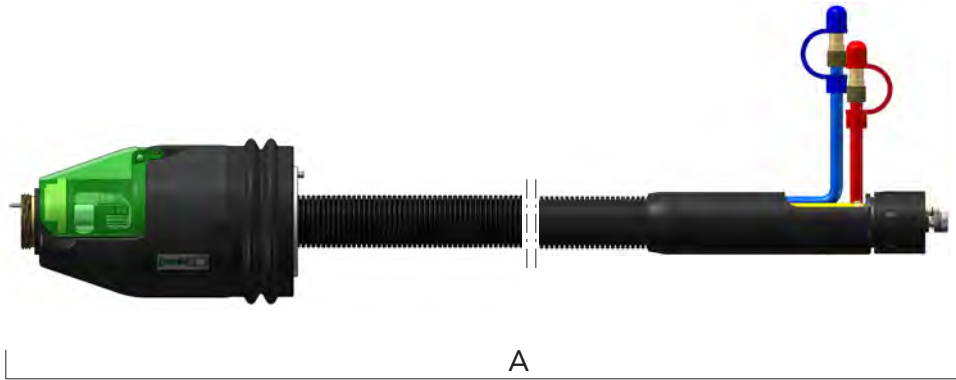
# Torch sets MIG/MAG for hollow wrist robots Frontdrive Connector DIX FD 300 FAZ SAZ with EURO connection

## System components without wire feeder

1

MIG/MAG

PUSH-PULL hollow wrist robots



Description	Dimensions	Part name	Part number
A Frontdrive Connector Rotary interface with torch set, flexible version with maximum 7° deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX FD 300 FAZ-__ SAZ	687492-__
1 Adapter flange The adapter flange [ _ ] depends on the robot type		DIX ADFL 63-__	6870035-__
2 Liner	ø 2.2 mm/2,5 m	DIX DS 4/2.2-2.5	623000325
3 Profile rolls for welding wires steel:			
Profile rolls	Wire-ø 0.8 mm	DIX MPZ.neo WFR-08S	743000043
Profile rolls	Wire-ø 1.0 mm	DIX MPZ.neo WFR-10S	743000046
Profile rolls	Wire-ø 1.2 mm	DIX MPZ.neo WFR-12S	743000044
Profile rolls	Wire-ø 1.6 mm	DIX MPZ.neo WFR-16S	743000045
Profile rolls for welding wires aluminum alloys:			
Profile rolls	Wire-ø 0.8 mm	DIX MPZ.neo WFR-08A	743000054
Profile rolls	Wire-ø 1.0 mm	DIX MPZ.neo WFR-10A	743000053
Profile rolls	Wire-ø 1.2 mm	DIX MPZ.neo WFR-12A	743000052
Profile rolls	Wire-ø 1.6 mm	DIX MPZ.neo WFR-16A	743000051

► Special (custom) components may be available upon request.  
Flanges are found in Chapter System Components.  
For all common wire feeder systems.



# Torch sets MIG/MAG for hollow wrist robots Frontdrive Connector DIX FD 300 FAZ SAZ with EURO connection

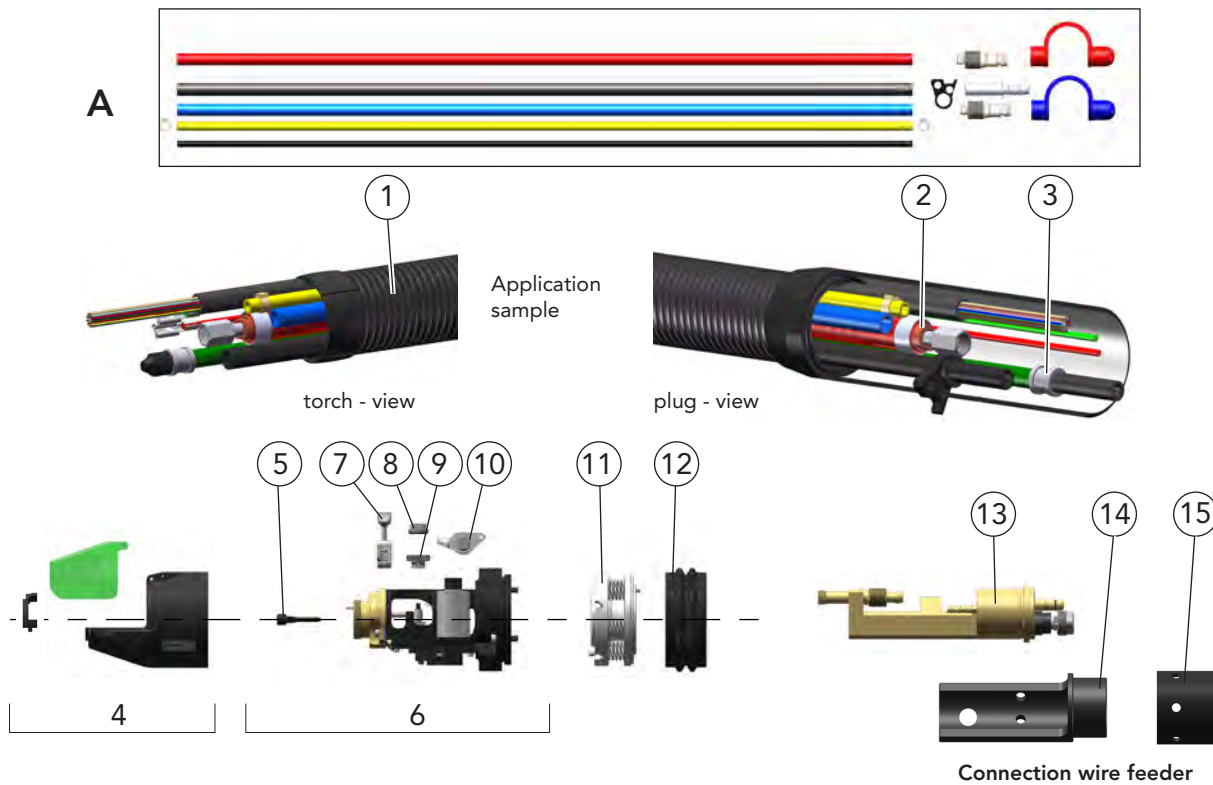
## Spare and wear parts

### Repair set



MIG/MAG

PUSH-PULL hollow wrist robots



Description	Part name	Part number
A Repair set - hoses, for gas- and liquid cooled torch sets up to 3 m length	DIX TS 360-663	687400028
Content/ Piece:		
Air blast hose, DIX VL 240_	4.2 m	Cap, blue, DIX VL 172 1 pcs.
Air blast plug, DIX 16-3-506	1 pcs.	Cap, red, DIX VL 173 1 pcs.
Water plug, DIX 16-2	2 pcs.	Gas hose, VL 182_ 4.2 m
Water hose red, DIX VL 191_	1.3 m	Water hose blue, DIX VL 190_ 4.2 m
Checking gas hose, DIX VL 243_	4.2 m	
Only for wire brake		
1 Cover hose set	DIX VLLITE 231_	639231007_ _ _
2 Combi cable	DIX VLLITE 220_	639226102_ _ _
3 Conduit hose	DIX VLLITE FD 300_	639206450_ _ _
<b>Connection torch view:</b>		
4 Housing, complete	DIX FD300 FC VE	687007053
5 Intake nozzle	DIX FD300	687007037
6 Drive unit, complete	DIX FD300 M VE	687007054
7 Clamping unit, FD300 TU		687007014
8 Fastening nut, FD300 RN		687007020
9 Gear set	DIX MPZ.neo SG	743000017
10 Pressure system, FD300 PS		687007018
11 Disconnection	DIX ABSC FD 300	687007047
12 Dust boost	DIX MAN 361	687400016
<b>Connection wire feeder:</b>		
13 Plug insert	DIX ME 600 RETZ	639112010
14 Adapter sleeve	DIX RETZ 663 SAZ	629900215
15 Screw cap	DIX 6-3 RETZ	629900385

-- Length depends on the torch set description.



# Torch sets MIG/MAG for hollow wrist robots T.Connector HWD DIX RET 363D N(NE) with power-pin-connection for drive unit DIX FD 200 M(ME)

## System definition

### Application

- ▶ For common hollow wrist robots.
- ▶ For all DINSE torch heads, gas cooled
- ▶ For drive unit FD 200 M  
For drive unit FD 200 ME
- ▶ Electrical shock sensor integrated



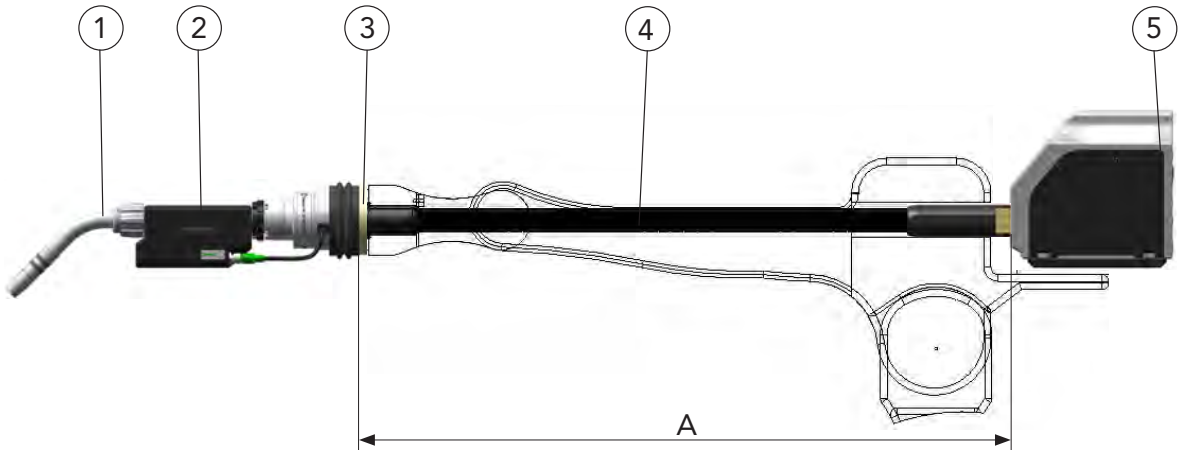
MET 35x and MES 300/500



MET 32xx and MES 300/500

### Hint:

Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation Torch heads.



Application sample

Available with power pin connection and Euro connection. Please ask your DINSE consultant.

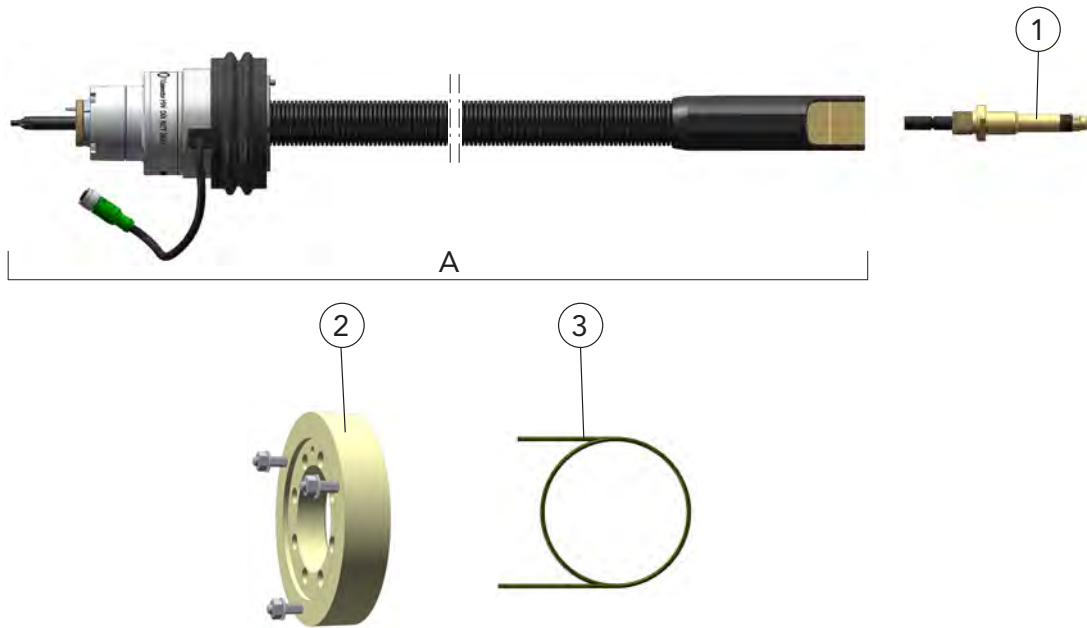
Description	
A	Length depends on the robot type and the position of the wire feeper
1	Torch head
2	Drive unit, FD 200 M(ME)
3	Adapter flange, ADFL Depends on the robot type
4	T.Connector HWD DIX RET 363D Flexible version with maximum 7° deflection, rotation +/- 260°
5	Wire feeder

- ▶ Special (custom) components may be available upon request.

**Hint:** Liners, capillary liners and service tools are found in Chapter Wear Parts respectively Tools and Accessories. The order designation of the system components are found in the corresponding chapter.



# Torch sets MIG/MAG for hollow wrist robots T.Connector HWD DIX RET 363D N(NE) with power-pin-connection for drive unit DIX FD 200 M(ME) System components without wire feeder



**OPTIZ** For detailed information on the T.Connector HWD in a singlefeed application, please contact your DINSE consultant.

**OPTIZ** The suitable power pin for your wire feeder you will find in Chapter System Components. Please ask your DINSE consultant.

Description	Dimension	Part name	Part number
A T.Connector HWD (Gas supply internally via power-Pin) Flexible version with maximum 7° deflection The torch set length [ _ _ ] depends on the robot type and the wire feeder position		DIX RET 363D-__ N	687441-__
T.Connector HWD (external gas supply) Flexible version with maximum 7° deflection The torch set length [ _ _ ] depends on the robot type and the wire feeder position		DIX RET 363D-__ NE	687442-__
1 Power Pin Depends on the wire feeder type		DIX PP 1__	639118-__
2 Adapter flange The adapter flange [ _ _ ] depends on the robot type		DIX ADFL 63_	6870035_
3 Liner	ø 2.2 mm/2.5 m	DIX DS 4/2.2-2.5	623000325

► Special (custom) components may be available upon request.  
Flange and Power-Pins are found in Chapter System Components.  
For all common wire feeder systems.

PUSH-PULL hollow wrist robots MIG/MAG





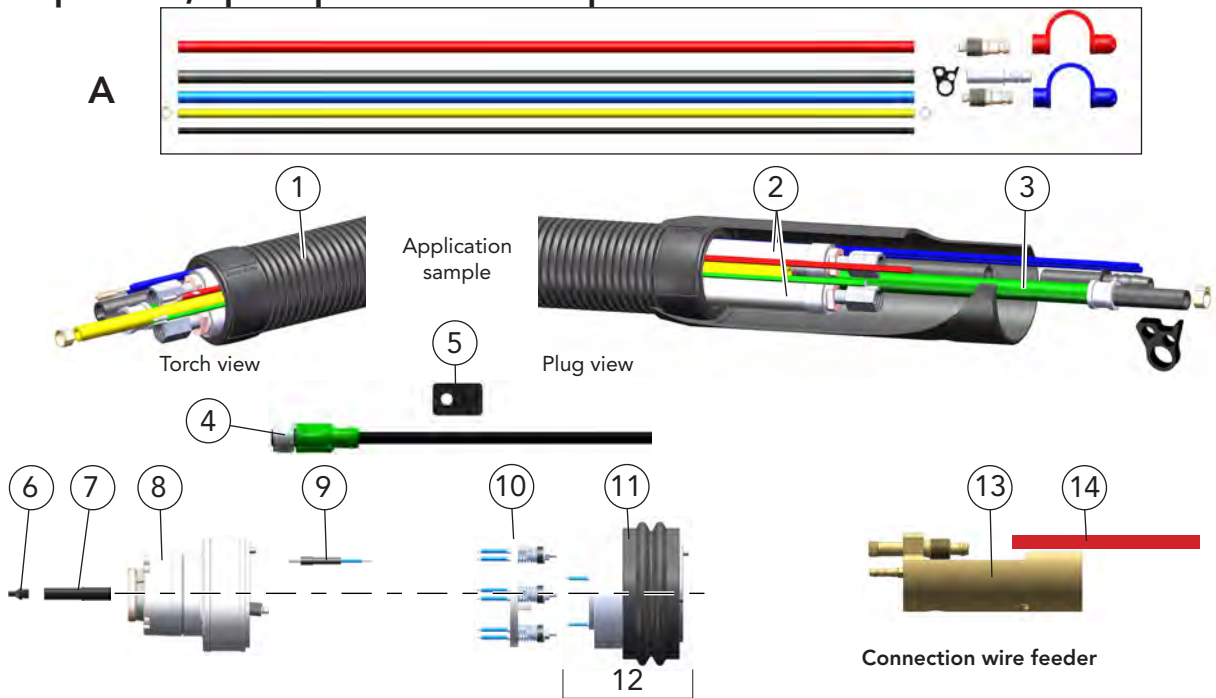
# Torch sets MIG/MAG for hollow wrist robots T.Connector HWD DIX RET 363D N(NE) with power-pin-connection for drive unit DIX FD 200 M(ME)

## Repair set, spare parts and wear parts

1

MIG/MAG

PUSH-PULL hollow wrist robots



Description	Part name	Part number
A Repair set - Hoses For gas- and liquid cooled torch set length up to 3.0 m	DIX TS 360-663	687400028
Content/ Piece:		
Air blast hose, DIX VL 240-__	4.2 m	Cap, blue, DIX VL 172
Air blast plug, DIX 16-3-506	1 pcs.	Cap, red, DIX VL 173
Water plug, DIX 16-2	2 pcs.	Gas hose, VL 182-__
Water hose red, DIX VL 191-__	1.3 m	Water hose blue, DIX VL 190-__
Checking gas hose, DIX VL 243-__	4.2 m	
Only for wire brake		
1 Cover hose set	DIX VLLITE 231-__	639231007-__
2 Binary cable, 2 pcs.	DIX VLLITE 222-__	639226013-__
3 Conduit hose	DIX VL 2030-__	639206444-__
4 Sensor actor-cable, 8 pins, 3.0 m		629900222
5 Cable bushing, Ø 6 mm		629900224
<b>Connection torch view:</b>		
6 Intake nozzle	DIX RETZ 663 ED	687400070
7 Connecting piece	DIX RETZ 663 ST	687400071
8 Connection set	DIX RET 362	687400048
9 Contact set, for gas nozzle sensor	DIX 15-2 MAPT	62915004014
10 Control ring, for shock sensor	DIX SR 361	687400024
11 Dust boot	DIX MAN 361	687400016
12 Disconnection, with pos. 8 and 9	DIX ABSC 663D	687400072
<b>Connection wire feeder:</b>		
13 Plug insert, for power pin version	DIX RET 110 N/LITE	639112009
14 Water hose, red	DIX VL 191-1.5 ROT	63919600215

► The suitable power pin for your wire feeder are found in Chapter System Components. Please ask your DINSE consultant. Other connecting mandrel depends on the wire feed type available on request.

-- Length depends on the torch set description.





# Torch sets MIG/MAG for hollow wrist robots T.Connector HWD DIX RETZ 663D N(NE) with power-pin-connection for drive unit FD 200 M(ME)

## System definition

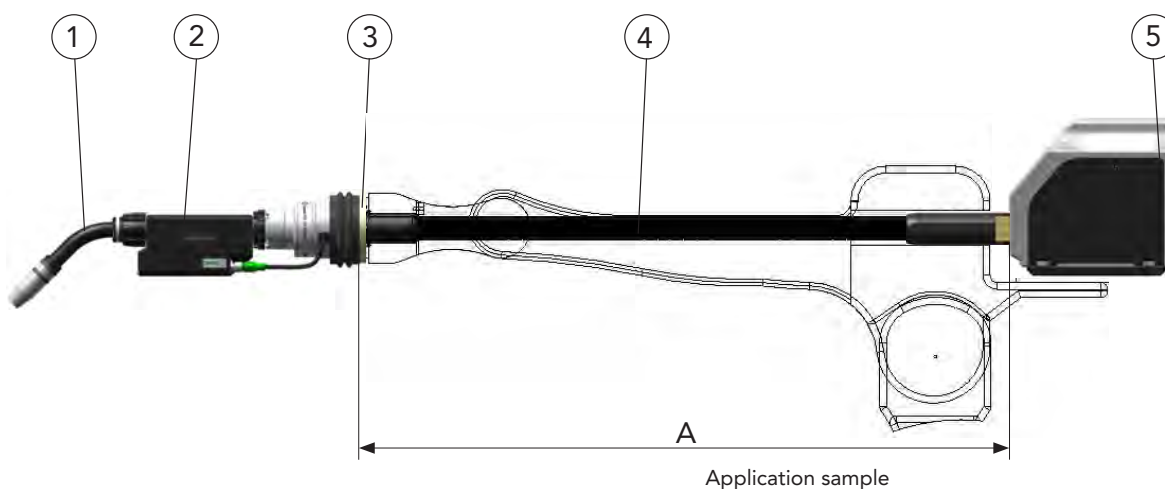
### Application

- ▶ For common hollow wrist robots.
- ▶ For all DINSE torch heads, liquid cooled
- ▶ For drive unit FD 200 M  
For drive unit FD 200 ME
- ▶ Electrical shock sensor integrated



Torch head METZ (L) (XL) und MES 300/500 Application sample

**Hint:**  
Information to the appropriate torch heads you will find in Chapter 2 MIG/MAG Automation Torch heads.



**RETZ** Available with power pin connection and Euro connection. Please ask your DINSE consultant.

MIG/MAG  
PUSH-PULL hollow wrist robots

### Description

A	Length depends on the robot type and the position of the wire feeder
1	Torch head
2	Drive unit, FD 200 M(ME)
3	Adapter flange, ADFL Depends on the robot type
4	T.Connector HWD DIX RETZ 663D Flexible version with maximum 7° deflection, rotation +/- 260°
5	Wire feeder

- ▶ Special (custom) components may be available upon request.

**Hint:** Liners, capillary liners and service tools are found in Chapter Wear Parts respectively Tools and Accessories. The order designation of the system components are found in the corresponding chapter.

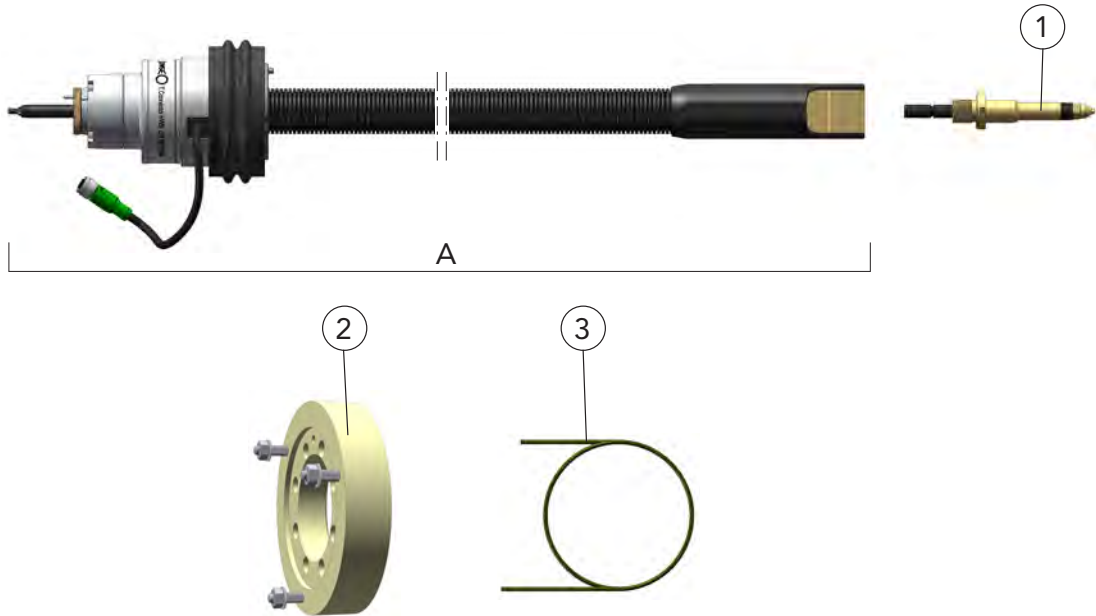


# Torch sets MIG/MAG for hollow wrist robots T.Connector HWD DIX RETZ 663D N(NE) with power-pin-connection for drive unit FD 200 M(ME) System components without wire feeder

1

MIG/MAG

PUSH-PULL hollow wrist robots



**INFO** For detailed information on the T.Connector HWD in a singlefeed application, please contact your DINSE consultant.

**INFO** The suitable power pin for your wire feeder you will find in Chapter System Components. Please ask your DINSE consultant.

Description	Dimension	Part name	Part number
A T.Connector HWD (Gas supply internally via power-Pin) Flexible version with maximum 7° deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RETZ 663D-__ N	687439-__
T.Connector HWD (external gas supply) Flexible version with maximum 7° deflection The torch set length [ _ ] depends on the robot type and the wire feeder position		DIX RETZ 663D-__ NE	687440-__
1 Power Pin Depends on the wire feeder type		DIX PP 1-__	639118-__
2 Adapter flange The adapter flange [ _ ] depends on the robot type		DIX ADFL 63-__	6870035-__
3 Liner	ø 2.2 mm/2.5 m	DIX DS 4/2.2-2.5	623000325

► Special (custom) components may be available upon request.  
Flange and Power-Pins are found in Chapter System Components.  
For all common wire feeder systems.



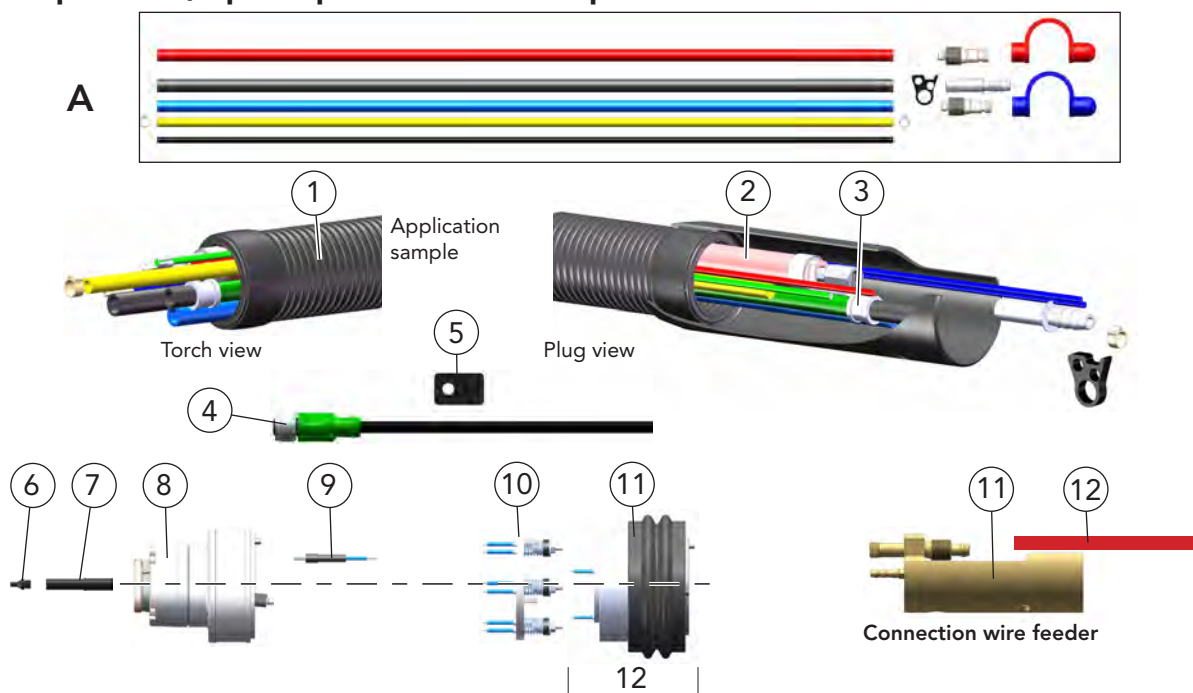
# Torch sets MIG/MAG for hollow wrist robots T.Connector HWD DIX RETZ 663D N(NE) with power-pin-connection for drive unit FD 200 M(ME)

## Repair set, spare parts and wear parts



MIG/MAG

PUSH-PULL hollow wrist robots



Description	Part name	Part number
A Repair set - Hoses For gas- and liquid cooled torch set length up to 3.0 m	DIX TS 360-663	687400028
<b>Content/ Piece:</b>		
Air blast hose, DIX VL 240-__	4.2 m	Cap, blue, DIX VL 172 1 pcs.
Air blast plug, DIX 16-3-506	1 pcs.	Cap, red, DIX VL 173 1 pcs.
Water plug, DIX 16-2	2 pcs.	Gas hose, VL 182-__ 4.2 m
Water hose red, DIX VL 191-__	1.3 m	Water hose blue, DIX VL 190-__ 4.2 m
Checking gas hose, DIX VL 243-__	4.2 m	
Only for wire brake		
1 Cover hose set	DIX VLLITE 231-__	639231007_ _ _
2 Combi cable	DIX VLLITE 220-__	639226102_ _ _
3 Conduit hose	DIX VLLITE 2030-__	639206444_ _ _
4 Sensor actor-cable, 8 pins, 3.0 m		629900222
5 Cable bushing, Ø 6 mm		629900224
<b>Connection torch view:</b>		
6 Intake nozzle	DIX RETZ 663 ED	687400070
7 Connecting piece	DIX RETZ 663 ST	687400071
8 Connection set	DIX RETZ 662	687400049
9 Contact set, for gas nozzle sensor	DIX 15-2 MAPT	62915004014
10 Control ring, for shock sensor	DIX SR 361	687400024
11 Dust boot	DIX MAN 361	687400016
12 Disconnection, with pos. 8 and 9	DIX ABSC 663D	687400072
<b>Connection wire feeder:</b>		
13 Plug insert, for power pin version	DIX RETZ 110 N	639112007
14 Water hose, red	DIX VL 191-1.5 ROT	63919600215

► The suitable power pin for your wire feeder are found in Chapter System Components. Please ask your DINSE consultant. Other connecting mandrel depends on the wire feed type available on request.

\_ \_ Length depends on the torch set description.



DINSE

# THE FANTASTIC EIGHT TORCHES IN THREE LENGTHS



## Each variant hits the bull's eye:

- ▶ Torch necks in 9 different lengths and bending angles
- ▶ All models and wear parts directly available from stock
- ▶ Reduced cost compared to special solution
- ▶ Maximum flexibility when welding complex geometries



An industrial robotic arm, painted orange, is shown in a factory setting. The arm is positioned over a blue metal workpiece. A bright, intense light is visible at the point of contact between the arm's tool and the workpiece, indicating a welding process. The background shows various industrial components, including cables and machinery. In the top right corner, there is a circular graphic element containing a white silhouette of a robotic arm and a gear.

02

MIG/MAG  
NON  
SEPARABILE

# CONTENTS

<b>Torch heads with non separable torch set liquid-cooled MIG/MAG</b>	<b>167</b>
DIX MMZ 330 (up to 400A)	167
DIX MMZ 304 (up to 500A)	168
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DIX M.FLEX 4400 SAZ (up to 450A)	171



# Torch heads with non separable torch set liquid-cooled MIG/MAG DIX MMZ 330 (up to 400A)



## Properties

- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of the raw materials used for a perfect heat and power transmission
- ▶ Gas nozzle with trapezoid thread

## Application

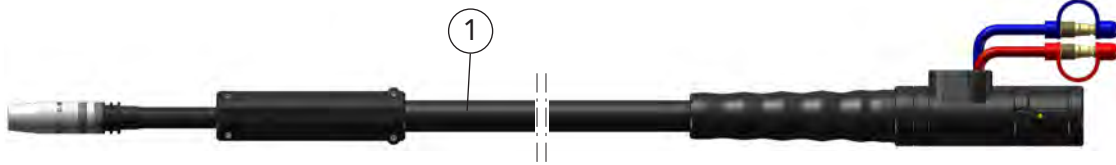
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper- and nickel alloys
- ▶ Small to medium material thicknesses



### Technical data (DIN EN 60 974-7):

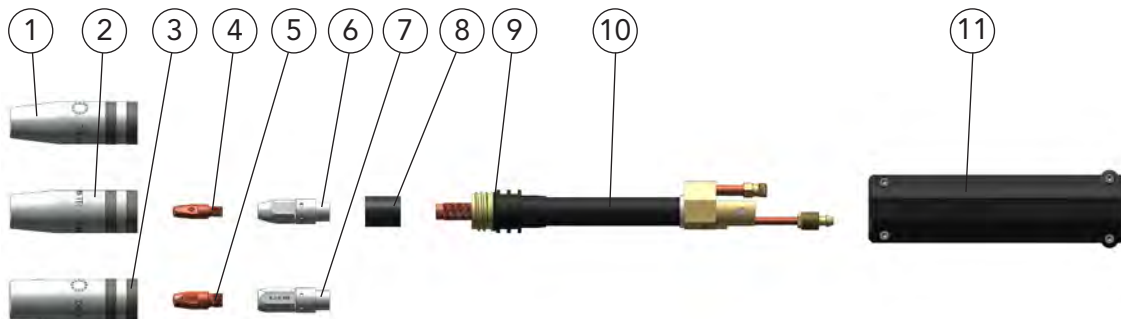
CO <sub>2</sub> :	duty cycle 400A/60%
Mixed gas:	320A/60%
Wire diameter:	0.8 - 1.2 mm

● Also available with SAZ connection or with power pin connection. Please ask your DINSE consultant.



Description	Dimension	Part name	Part number
1 Torch set	0° 3.00 m	DIX MMZ 330-3 /0°	620323012
Torch set	0° 4.00 m	DIX MMZ 330-4 /0°	620323009

- ▶ Standard equipment for wire diameter 1.2 mm steel with gas nozzle diameter 15 mm, DIX 1-2-315 TR, (contact tip DIX 3-2-1.2 M8. recessed, tip adapter DIX 4-2-K M8. liner DIX DS 4/2.2). Variants deviating of the standard fittings on request.



Description	Dimension	Part name	Part number
1 Gas nozzle	ø 13 mm	DIX 1-2-313 TR	6290103130
2 Gas nozzle	ø 15 mm	DIX 1-2-315 TR	6290103150
3 Gas nozzle	ø 18 mm	DIX 1-2-318 TR	6290103180
4 Contact tip	M6	DIX 3-2-__	6290300__
5 Contact tip	CR-ZR M6	DIX 3-2-__ CR-ZR	6290330__
Contact tip	M8	DIX 3-2-__ M8	6290301__
Contact tip	CR-ZR M8	DIX 3-2-__ M8 CR-ZR	6290331__
6 Tip adapter	M6	DIX 4-2-K M6	629040010
7 Tip adapter	M8	DIX 4-2-K M8	629040110
8 Insulating sleeve		DIX 10-2	629100000
9 O-Ring 19x1.5	(10 pcs.)		629073901
10 Torch neck	0°	DIX 6-2-330 Z 0°	62906133100
11 Handle		DIX 7-2-303 M	629070320

-- Enter the required wire diameter, e.g.: 10 = 1.0 mm or 12 = 1.2 mm.

MIG/MAG

PUSH non separable

2





# Torch heads with non separable torch set liquid-cooled MIG/MAG DIX MMZ 304 (up to 500A)

## Properties

- ▶ Dual - circuit cooling system
- ▶ No gas loss due to separate shield gas feed
- ▶ Intelligent selection of the raw materials used for a perfect heat and power transmission
- ▶ Gas nozzle with trapezoid thread

## Application

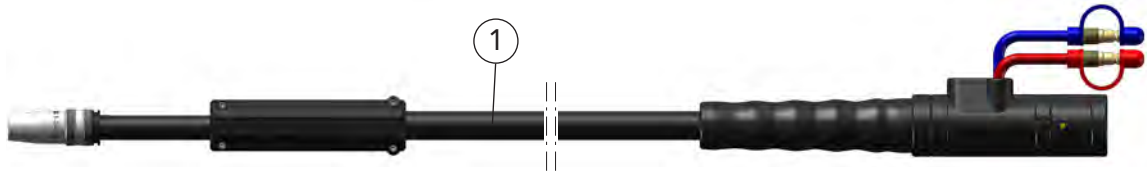
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper- and nickel alloys
- ▶ Small to medium material thicknesses



### Technical data (DIN EN 60 974-7):

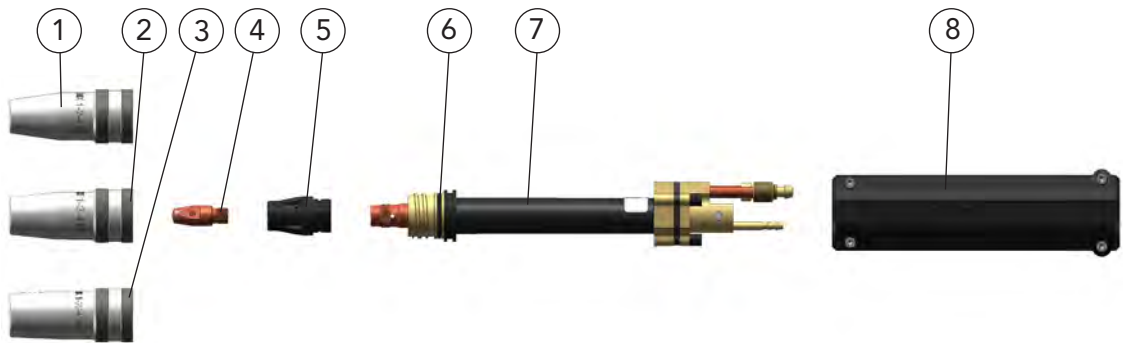
CO <sub>2</sub> :	duty cycle 500A/60%
Mixed gas:	450A/60%
Wire diameter:	0.8 - 1.6 mm

● Also available with SAZ connection or with power pin connection. Please ask your DINSE consultant.



Description	Dimension	Part name	Part number
1 Torch set	0°	3.00 m DIX MMZ 304-3 /0°	620324330
Torch set	0°	4.00 m DIX MMZ 304-4 /0°	620324340

- ▶ Standard equipment for wire diameter 1.2 mm steel with gas nozzle diameter 15 mm, DIX 1-2-415. (contact tip DIX 3-2-1.2 M8. recessed, liner DIX DS 4/2.2). Variants deviating of the standard fittings on request.



Description	Dimension	Part name	Part number
1 Gas nozzle		∅ 13 mm DIX 1-2-413	629010413
2 Gas nozzle		∅ 15 mm DIX 1-2-415	629010415
3 Gas nozzle		∅ 18 mm DIX 1-2-418	629010418
4 Contact tip		M8 DIX 3-2-__ M8	6290301_ __
Contact tip	CR-ZR	M8 DIX 3-2-__ M8 CR-ZR	6290331_ __
5 Gas diffuser		DIX 10-2-304	629100324
6 O-Ring 19x2	(10 pcs.)		629061005
7 Torch neck	0°	DIX 6-2-304 Z OGR	6290613400
8 Handle		DIX 7-2-304 M	629070324

-- Enter the required wire diameter, e.g.: 10 = 1.0 mm or 12 = 1.2 mm.





# Torch heads with non separable torch set liquid-cooled MIG/MAG DIX MMZ 305 (up to 550A)



## Properties

- ▶ High duty cycle due to improved cooling of the gas nozzle
- ▶ No gas loss due to separate shield gas feed
- ▶ Gas nozzle with trapezoid thread and screw adapter

## Application

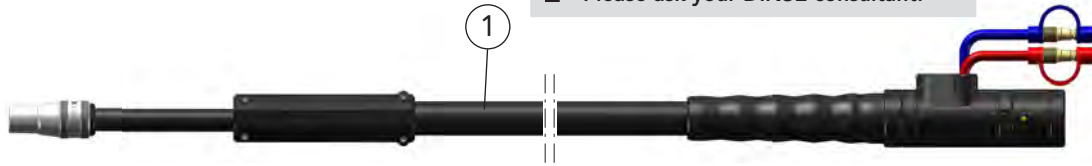
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper- and nickel alloys
- ▶ Small to medium material thicknesses



### Technical data (DIN EN 60 974-7):

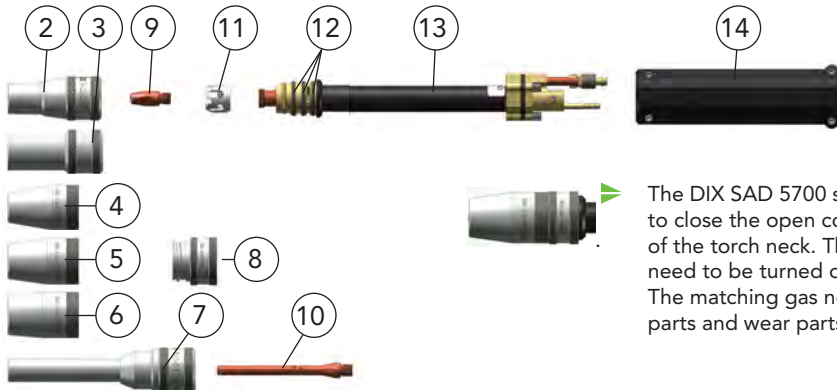
	duty cycle
CO <sub>2</sub> :	550A/60%
Mixed gas:	500A/60%
Wire diameter:	1.2 - 2.0 mm

● Also available with SAZ connection or with power pin connection. Please ask your DINSE consultant.



Description	Dimension	Part name	Part number
1 Torch set	0° 1.00 m	DIX MMZ 305-1 /0°	620325006
Torch set	0° 5.00 m	DIX MMZ 305-5 /0°	620325002

- ▶ Standard equipment for wire diameter 1.2 mm steel with gas nozzle diameter 17 mm, gas nozzle DIX 1-2-517, contact tip DIX 3-2-1.2 M8, gas diffuser DIX 10-2-305 K, liner DIX DS 4/2.2. Variants deviating of the standard fittings on request.



The DIX SAD 5700 screw adapter has been designed to close the open cooling circuit on the carrier sleeve of the torch neck. Thus, the cooling unit does not need to be turned off before a gas nozzle is changed. The matching gas nozzles can be found in the spare parts and wear parts list below.

Description	Dimension	Part name	Part number
2 Gas nozzle	ø 17 mm	DIX 1-2-517	629010517
Gas nozzle, plug-in type	ø 17 mm	DIX 1-2-517 OG	6290105171
3 Gas nozzle	ø 21 mm	DIX 1-2-521	629010521
4 Gas nozzle, for pos. 8	ø 15 mm	DIX 1-3-5715 SAD	6390257157
5 Gas nozzle, for pos. 8	ø 18 mm	DIX 1-3-5718 SAD	6390257187
6 Gas nozzle, for pos. 8	ø 21 mm	DIX 1-3-5721 SAD	6390257217
7 Narrow gap gas nozzle, plug-in type	ø 15 x 125 mm	DIX 1-2-511/125 OG	6290191518
Narrow gap gas nozzle	ø 15 x 125 mm	DIX 1-2-512/125	6290191528
8 Screw adapter		DIX SAD 5700	628145700
9 Contact tip	M8 x 28 mm	DIX 3-2-__ M8	6290301__
Contact tip	M8 x 28 mm	DIX 3-2-__ M8 CR-ZR	6290331__
10 Contact tip, for pos. 7	M8 x 90 mm	DIX 3-2-__ M8/90	6290337__2
11 Gas diffuser, ceramic		DIX 10-2- 305 K	6291003051
12 O - Ring, 18x2 mm	(12 pcs.)		639060005
13 Torch neck	0°	DIX 6-2-305 Z 0°	6290613500
14 Handle		DIX 7-2-304 M	629070324

-- Enter the required wire diameter, e.g.: 12 = 1.2 mm or 16 = 1.6 mm.

MIG/MAG PUSH non separable

2



# Torch heads with non separable torch set liquid-cooled MIG/MAG DIX MMZ 306 (up to 550A)

## Properties

- ▶ Dual - circuit cooling system
- ▶ No gas loss due to separate shield gas feed
- ▶ Gas nozzle with trapezoid thread and screw adapter

## Application

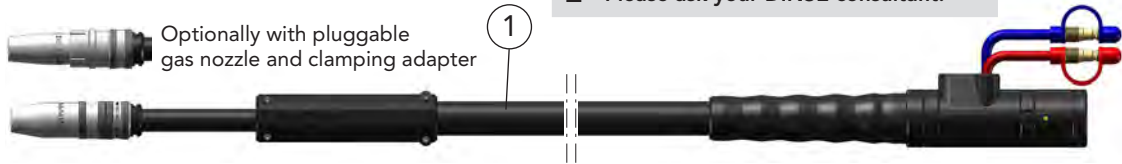
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper-and nickel alloys
- ▶ Small to medium material thicknesses



## Technical data (DIN EN 60 974-7):

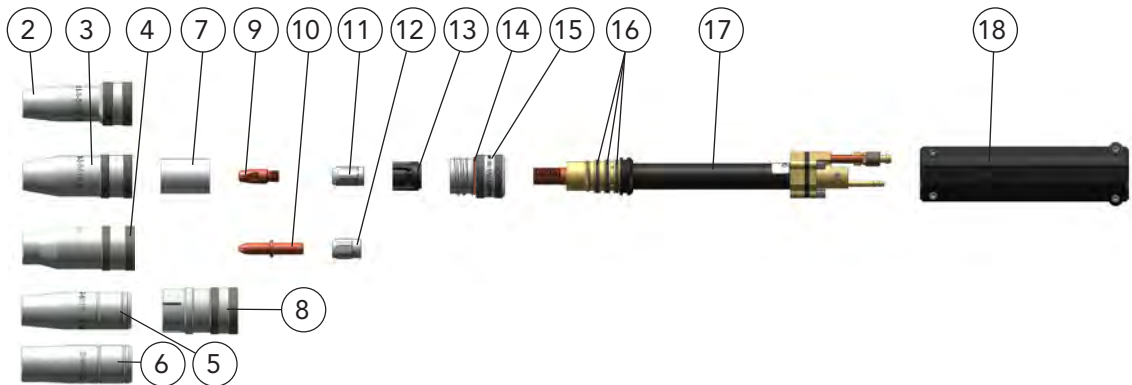
CO <sub>2</sub> :	duty cycle 550A/60%
Mixed gas:	500A/60%
Wire diameter:	1.2 - 2.0 mm

● Also available with SAZ connection or with power pin connection. Please ask your DINSE consultant.



Description	Dimension	Part name	Part number
1 Torch set	0° 3.00 m	DIX MMZ 306-3 /0°	620326330
Torch set	0° 4.00 m	DIX MMZ 306-4 /0°	620326012

- ▶ Standard equipment for wire diameter 1.2 mm steel with gas nozzle diameter 18 mm, DIX 1-3-5418 A, with screw adapter DIX SAD 2-404/540 (contact tip DIX 3-2-1.2 M8. recessed, tip adapter DIX GS 2-M8. liner DIX DS 4/2.2). Cooling jacket with direct liquid cooling for extreme cases of application. The order designation you will find at page <?>. Variants deviating of the standard fittings on request.



Description	Dimension	Part name	Part number
2 Gas nozzle, Outside diameter reduced	ø 15 mm	DIX 1-3-5415 AR	6390154155
Gas nozzle	ø 18 mm	DIX 1-3-5418 AR	6390154185
3 Gas nozzle	ø 15 mm	DIX 1-3-5415 A	6390154150
Gas nozzle	ø 18 mm	DIX 1-3-5418 A	6390154180
Gas nozzle	ø 21 mm	DIX 1-3-5421 A	6390154210
4 Gas nozzle	ø 15 mm	DIX 1-3-5415 ARZ	6390154154
Gas nozzle	ø 17 mm	DIX 1-3-5417 A	6390154170
5 Gas nozzle, pluggable, for Pos. 8	ID ø 15 mm	DIX 1-2-4015	629010015
6 Gas nozzle, pluggable, for Pos. 8	ID ø 18 mm	DIX 1-2-4018	629010018
7 Insulator, For gas nozzle type A		DIX 2-3-500	6390250000
8 Clamp sleeve, for Pos. 5+6		DIX KAD 4040	629051400
9 Contact tip	M8	DIX 3-2-__ M8	6290301__
Contact tip	CR-ZR M8	DIX 3-2-__ M8 CR-ZR	6290331__
10 Contact tip	CR-ZR SR	DIX 3-2-__ SR	6290354__
11 Tip adapter	M8	DIX GS 2-M8	628150008
12 Clamp nut		DIX 4-2-MAS	6390454000
13 Gas diffuser		DIX 10-3-540	6391054000
14 O-Ring, 23x1.5 VITON	(10 pcs.)		629110904
15 Screw adapter		DIX SAD 2-404/540	628140000
16 O-Ring 18x2	(12 pcs.)		639060005
17 Torch neck	0°	DIX 6-2-306 Z	6290613600
18 Handle		DIX 7-2-304 M	629070324

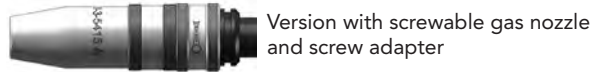
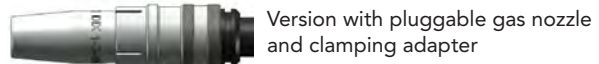
-- Enter the required wire diameter, e.g.: 12 = 1.2 mm or 16 = 1.6 mm.

# Torch heads with non separable torch set liquid-cooled MIG/MAG DIX M.FLEX 4400 SAZ (up to 450A)



## Properties

- M.Flex technology - The special protective gas guidance prevents injection of air into the gas nozzle interior.
- No gas losses due to separate gas feed to the gas distributor
- With pluggable gas nozzles the clamping adapter remains on the torch neck
- Dual - circuit cooling system



## Application

- MIG/MAG Processes in all variants
- Wire diameter up to 1.6 mm
- Optionally with connection box for shock sensor and push button for wire threading

## Technical data (DIN EN 60 974-7):

CO <sub>2</sub> :	duty cycle 450A/100%
Mixed gas:	400A/100%



Also available with DINSE connection or with power pin connection.

Description	Dimension	Part name	Part number
1 Torch set	1.2 m	DIX M.FLEX 44__-1.2 SAZ	62044__121
Torch set	1.4 m	DIX M.FLEX 44__-1.4 SAZ	62044__141
Torch set	3.0 m	DIX M.FLEX 44__-3.0 SAZ	62044__31
Torch set	4.0 m	DIX M.FLEX 44__-4.0 SAZ	62044__41
__ Enter the required of part name and article number bending of the torch head, e.g.: 00 = 0°, 22 = 22° or 45 = 45°			

2 Liner	ø 2.2 / __ m	DIX DS 4/2.2-__	6230003__
__ - Standard length:		1.7 m, 1.9 m, 3.5 m and 4.5 m	

\_\_ Enter the required length of the Liner, e.g.: 17 = 1.7 m or 35 = 3.5 m.

### Options:

3 Connection box Cable length 5.0 m	DIX CB-5	629900117
With connection socket for shock sensor and push button wire threading.		

**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

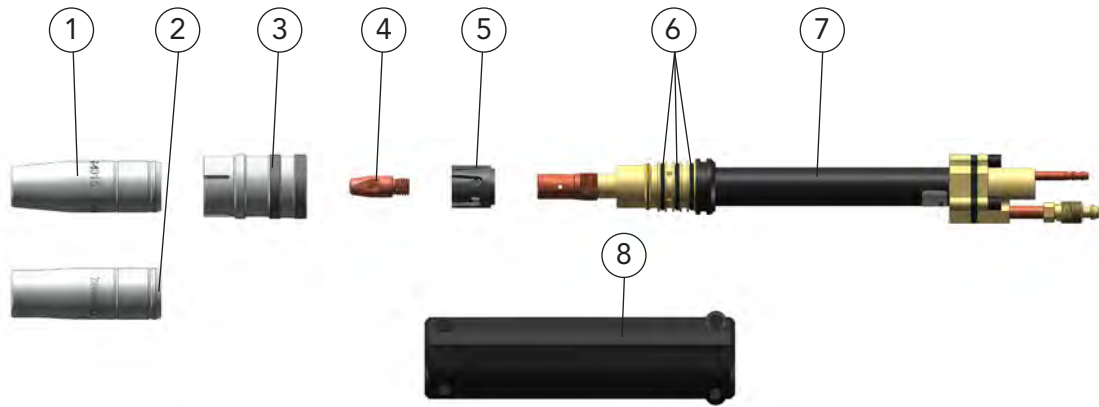
MIG/MAG

PUSH non separable

2



Torch sets DIX M.FLEX 4400 SAZ



2

MIG/MAG

PUSH non separable

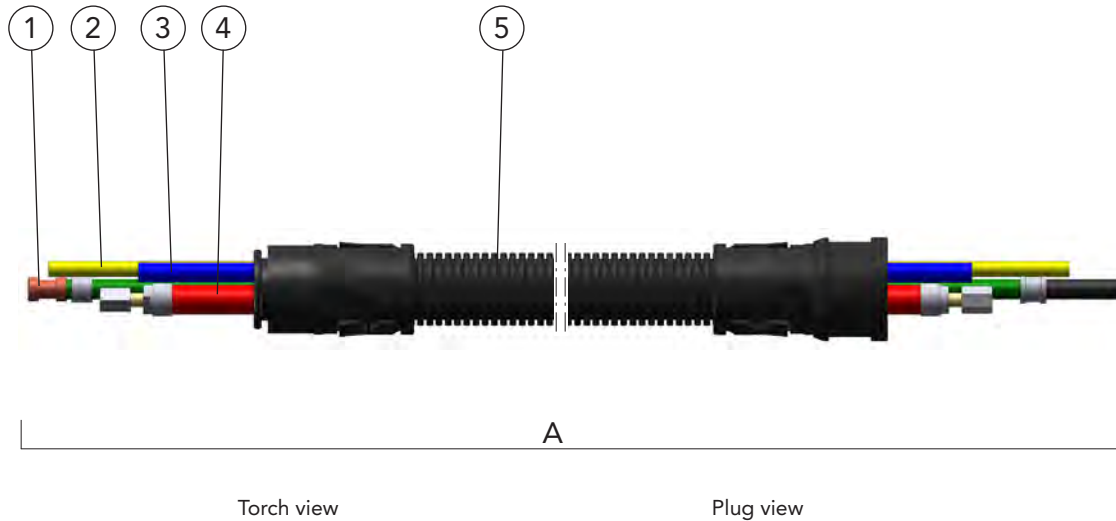
Description	Dimension	Part name	Part number
1 Gas nozzle (pluggable)	ID ø 15 mm	DIX 1-2-4015	629010015
2 Gas nozzle (pluggable)	ID ø 18 mm	DIX 1-2-4018	629010018
3 Clamp sleeve		DIX KAD 4040	629051400
4 Contact tip	M8 x 28 mm	DIX 3-2-__ M8	6290301__
5 Gas diffuser		DIX 10-2-4400	629104400
6 O ring, 18x2 mm	(12 pcs.)		639060005
7 Torch neck	0°	DIX 6-2-4400 Z	6290614400
Torch neck	22°	DIX 6-2-4422 Z	6290614422
Torch neck	45°	DIX 6-2-4445 Z	6290614445
8 Handle		DIX 7-2-304 M	629070324

-- Enter the required wire diameter, e.g., z.B.: 12 = 1.2 mm.

► Standard equipment for steel wire with diameter 1.2 mm: gas nozzle DIX 1-2-4015. clamp sleeve DIX KAD 4040. contact tip DIX 3-2-1.2 M8. gas diffuser DIX 10-2-4400 and liner DIX DS 4/2.2.



## Torch sets DIX M.FLEX 4400 SAZ Supply hose



MIG/MAG

2

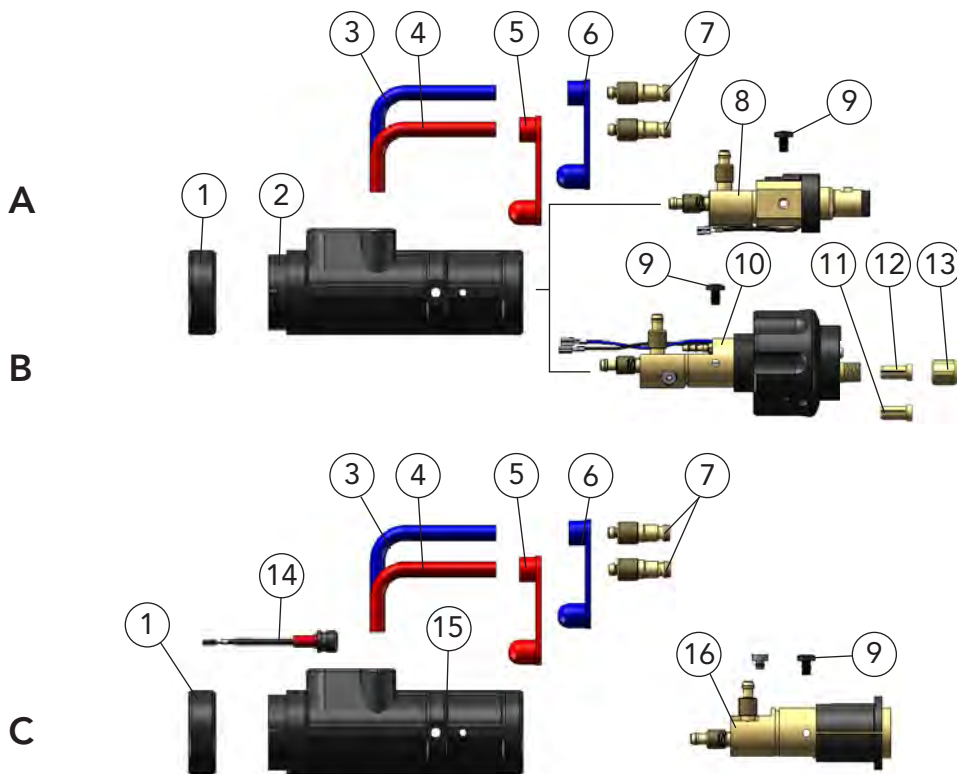
PUSH non separable

Description	Part name	Part number
A Supply hose	DIX VLMZ 4400-__	6224400__
1 Conduit hose	DIX VLM 2010-__	6292016__
2 Gas hose	DIX VL 180-__	639186001__
3 Water hose, blue	DIX VL 190-__	639196001__
4 Combi cable	DIX 22-2-303-__	6292213__
5 Cover hose set Included holding sleeves VL 231 and VL 232	DIX VL 235-__	6392350__

-- Enter the required length of the welding torch set, e.g.: 12 = 1.2 m or 14 = 1.4 m.  
Standard length: 1.2 m, 1.4 m, 3.0 m and 4.0 m



## Torch sets DIX M.FLEX 4400 SAZ Plug

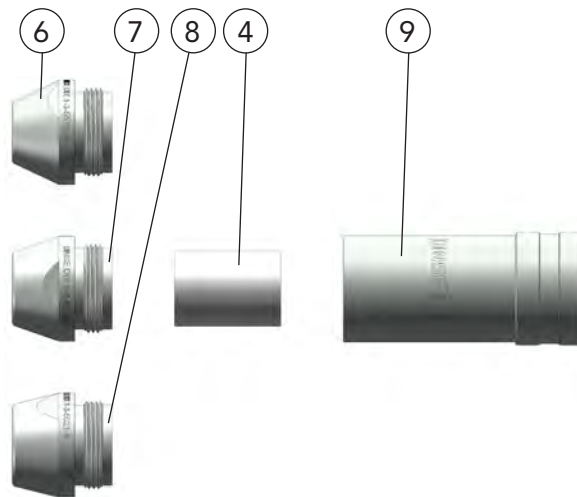
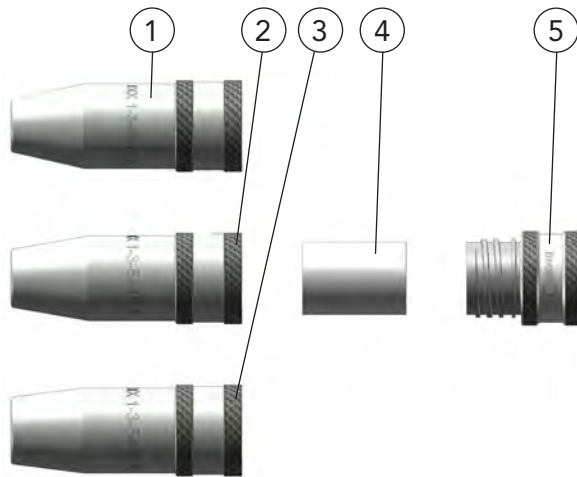


You need a Power Pin for the compact plug DIX KCZME 4400 N (Pos. C). You will find the Power Pin that fits to your wire feeder in the Chapter System Components.

Description	Dimension	Part name	Part number
A Plug, pos. 1-9		DIX KCZME 600 Z	638900024
B Plug, pos. 1-7. pos. 9-13		DIX KCZME 4400 SAZ	638900050
C Plug, pos. 1. pos. 3-7. pos. 14-16		DIX KCZME 600 N	638900045
1 Fixing ring		DIX 12-3-510 HR	6391250013
2 Plug housing		DIX 12-3-510 SG	6391250011
3 Connection hose, blue	0.60 m	DIX VL 170 BLAU	629171003
4 Connection hose, red	0.60 m	DIX VL 171 ROT	629171004
5 Sealing cap, red		DIX VL 173	629172002
6 Sealing cap, blue		DIX VL 172	629172001
7 Water plug	ø 5.0 mm	DIX 16-2	629160000
8 Plug insert		DIX ME 300 SEZ	639116064
9 Holding screw	(10 pcs.)	DIX ME 300 HS	629070005
10 Plug insert		DIX ME 300 SAZ	639116061
11 Clamp sleeve, without block for capillary liner		DIX 27-2 MAP	629270041
12 Clamp sleeve, with block for liner		DIX 27-2 SA	629270040
13 Clamp nut		DIX 28-2 SA	629280040
14 Plug connector		DIX CS 600 SGN	6391250021
15 Plug housing		DIX ME 600 SGN	6391250020
16 Plug insert		DIX ME 600 N	639116076



## Torch sets DIX M.FLEX 4400 SAZ Gas nozzles



Description	Dimension	Part name	Part number
1 Gas nozzle, screwable	ID ø 15 mm	DIX 1-3-5415 A	6390154150
2 Gas nozzle, screwable	ID ø 18 mm	DIX 1-3-5418 A	6390154180
3 Gas nozzle, screwable	ID ø 21 mm	DIX 1-3-5421 A	6390154210
4 Insulator		DIX 2-3-500	6390250000
5 Screw adapter		DIX SAD 2-404/540	628140000
6 Gas nozzle	ID ø 15 mm	DIX 1-3-5515 A	6390155150
7 Gas nozzle	ID ø 18 mm	DIX 1-3-5518 A	6390155180
8 Gas nozzle	ID ø 21 mm	DIX 1-3-5521 A	6390155210
9 Cooling jacket		DIX KM 155	628040304

MIG/MAG

PUSH non separable

2

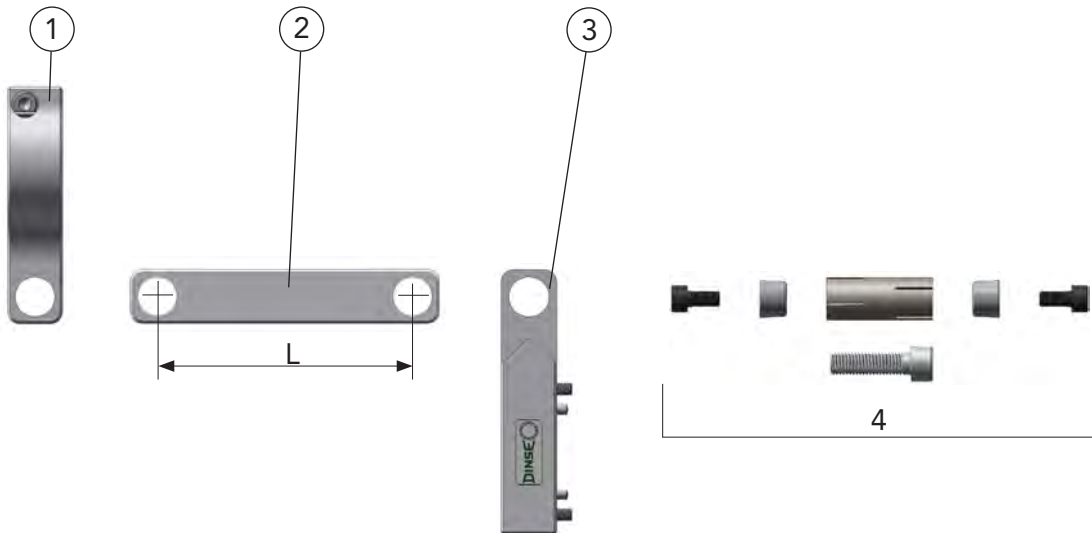


Torch sets DIX M.FLEX 4400 SAZ  
Torch bracket - system PHS

2

MIG/MAG

PUSH non separable



Description	Dimensions	Part name		Part number
A PH - System		DIX	PHS 4000-104	683504000
1 PH-Torch set		DIX	PHG 4000	683521004
2 PH-Connector	L = 104 mm	DIX	PHV 600-104	683522001
3 PH-Retainer		DIX	PHA 600	683523001
4 Clamp sleeve, complete		DIX	SH 600	683524001







# DINSE

by

 Tregaskiss™

## PREMIUM MEETS PREMIUM. DINSE MEETS TREGASKISS.

Tregaskiss offers gas-cooled high-performance welding torches and is one of the market leaders in North America. DINSE exclusively sells high-performance gas-cooled products, meaning this cooperation provides a perfect addition to its premium portfolio.

For users, this collaborative effort means that they can get everything from a single source. The gas-cooled Tregaskiss automated welding torches are sold exclusively by DINSE product advisors under the name „DINSE by Tregaskiss™“. The DINSE team of experts provide advising and technical support directly on site.

# 03

# DINSE BY TREGASKISS

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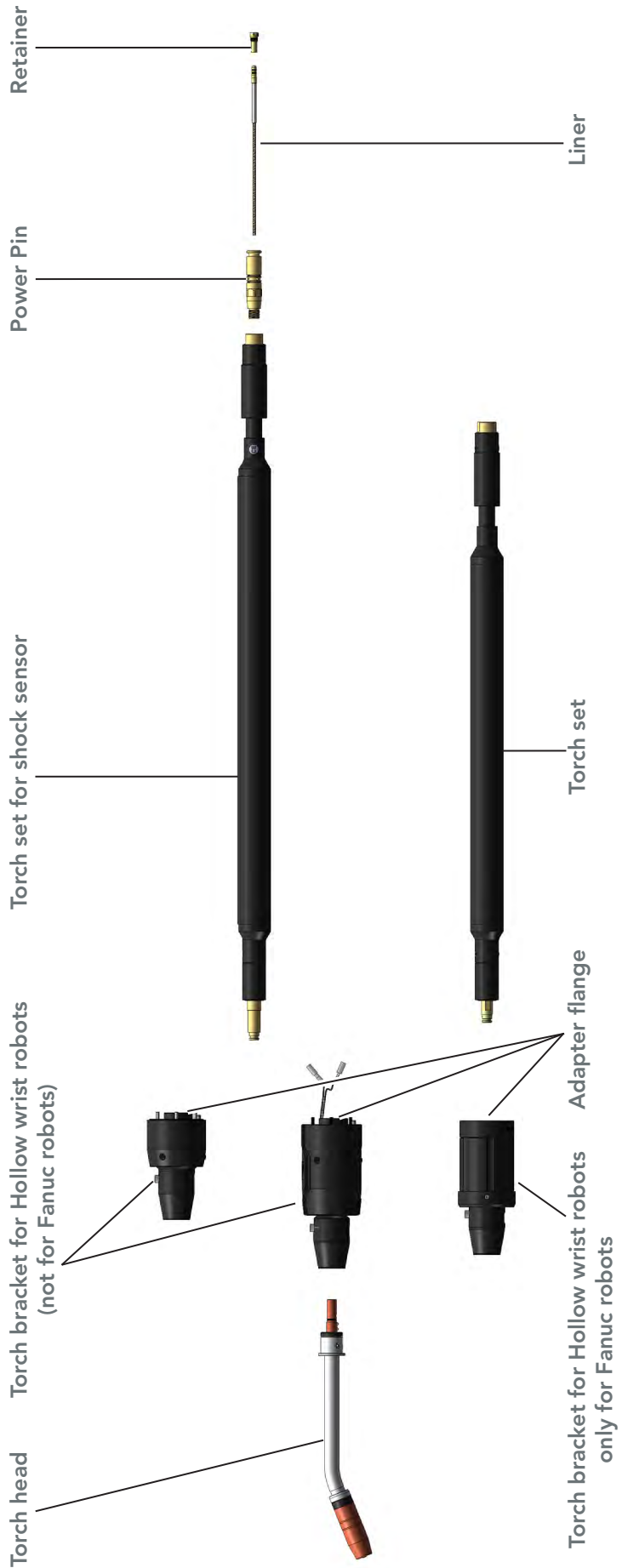
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# System definition for Hollow wrist robots



DINSE by Tregasskiss Automation

3





# Torch neck gas cooled MIG/MAG 405-x

## Properties

- Freely configurable
- Minimal downtime due to easy and fast maintenance
- High precision and repeatability of the TCP

## Application

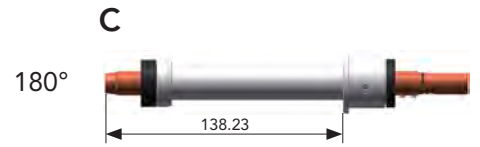
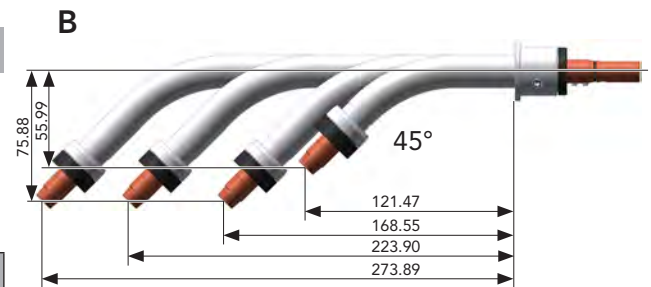
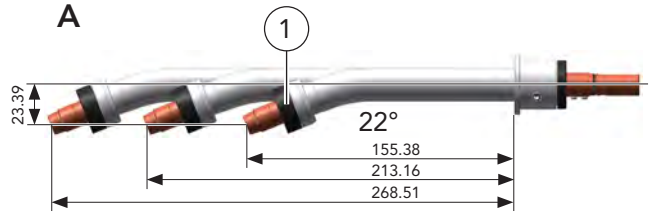
- Non- and low alloyed steels
- High alloyed steels
- Small to medium material thicknesses

## Technical data (DIN EN 60 974-7):

Mixed gas:	duty cycle max. 385A/100% *
Wire diameter:	0.8 - 2.4 mm

\* Measured according to IEC 60974-7 standards.

The max. Power depends on the gas nozzle used, Contact tip and the Retaining head.



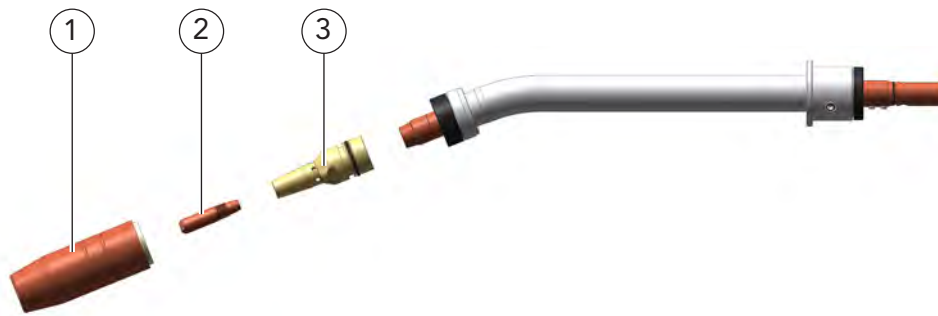
Description	Dimension	Part name	Part number
<b>A</b> Torch neck	22° short	DIX 405-22QC	746000087
Torch neck	22° medium	DIX 405-22QCL	746000088
Torch neck	22° long	DIX 405-22QCL1	746000089
<b>B</b> Torch neck	45° short	DIX 405-45QC	746000090
Torch neck	45° medium	DIX 405-45QCL	746000091
Torch neck	45° long	DIX 405-45QCL1	746000092
Torch neck	45° extra long	DIX 405-45QCL2	746000093
<b>C</b> Torch neck	180° medium	DIX 405-180QC	746000086
1 Insulator for torch neck	(2 pcs.)	DIX 402-11-02	746000600
Insulator for torch neck	(25 pcs.)	DIX 402-11-25	746000601
Insulator for torch neck	(100 pcs.)	DIX 402-11	746000599

## Hint:

Torch sets and liners you will find in Chapter Torch sets or Accessories.



# Possible combinations Gas nozzles, Contact tips and Retaining heads



TOUGH LOCK™ Series	1 Gas nozzle	2 Contact tip	3 Retaining head
Pluggable gas nozzle normal duty welding applications	401-44-50 (MS)	403-14-__	404-14 404-18
	401-48-50 (MS)		
	401-49-50 (MS)		
	401-42-50 (MS)		
	401-40-38 (MS)		
	401-4-38 (CU)		
	401-4-50 (CU)		
	401-4-62 (CU)		
	401-4-75 (CU)		
	401-8-62 (CU)		
401-44-62 (CU)			
Threaded gas nozzle normal duty welding applications	401-18-62	403-14-__	404-52
Pluggable gas nozzle heavy duty welding applications	401-7-62 (MS)	403-20-__ 403-21-__ 403-22-__ 403-27-__ 403-40-__ 603-20-__	404-32
	401-7-75 (MS)		
	401-71-62 (MS)		
	401-87-62 (MS)		
	401-5-75 (CU)		
	401-5-62 (CU)		
	401-6-75 (CU)		
	401-6-62 (CU)		
	401-6-50 (CU)		
	401-81-62 (CU)		
401-48-62 (CU)			
Threaded gas nozzle heavy duty welding applications	401-14-62 (CU)	403-20-__ 403-21-__ 403-22-__ 403-27-__ 403-40-__ 603-20-__	404-52
	401-16-50 (CU)		
	401-41-62 (MS)		
TOUGH ACCESS™ Series	1 Gas nozzle	2 Contact tip	3 Retaining head
Pluggable gas nozzle normal duty welding applications	401-54-50 (CU)	403-14-__	404-54
	401-55-50 (CU)		
	401-56-50 (CU)		
	401-57-50 (CU)		
	401-54-62 (CU)		
	401-55-62 (CU)		
	401-56-62 (CU)		
401-57-62 (CU)			
Pluggable gas nozzle heavy duty welding applications	401-54-50 (CU)	403-20-__ 403-21-__ 403-22-__ 403-40-__ 403-27-__	404-50
	401-55-50 (CU)		
	401-56-50 (CU)		
	401-57-50 (CU)		
	401-54-62 (CU)		
	401-55-62 (CU)		
	401-56-62 (CU)		
401-57-62 (CU)			

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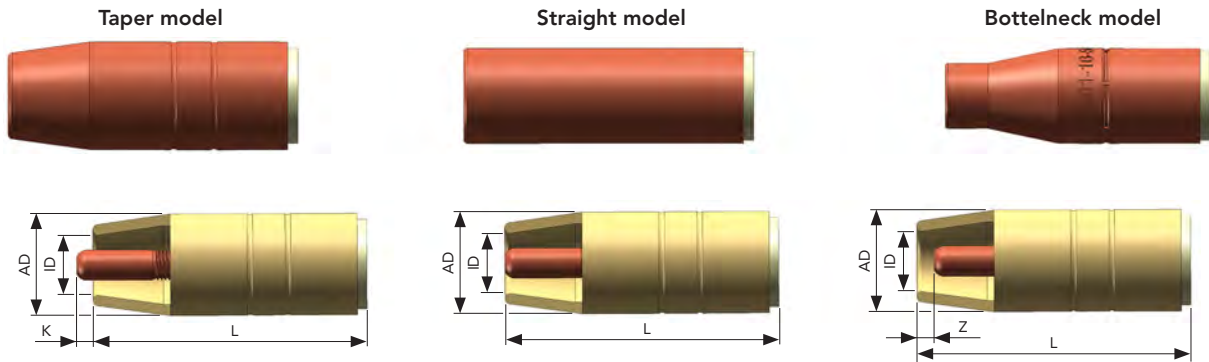
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## Wear parts

### TOUGH LOCK™



## Gas nozzles for standard welding applications

Description	Dimension in mm	Part name	Part number
Gas nozzle pluggable (A, E, 10 pcs.)	L 63,5 / AD 24 / ID 12,7 / K 6,35 mm	DIX 401-44-50	746000015
Gas nozzle pluggable (A, E, 10 pcs.)	L 67 / AD 24 / ID 12,7 / K 3,175	DIX 401-48-50	746000019
Gas nozzle pluggable (A, E, 10 pcs.)	L 70 / AD 24 / ID 12,7 / flush	DIX 401-49-50	746000021
Gas nozzle pluggable (A, E, 10 pcs.)	L 73 / AD 24 / ID 12,7 / Z 3,175	DIX 401-42-50	746000013
Gas nozzle pluggable (A, E, 2 pcs.)	L 73 / AD 24 / ID 12,7 / Z 3,175	DIX 401-42-50-02	746000569
Gas nozzle pluggable (A, C, 10 pcs.)	L 71,5 / AD 25 / ID 9,5 / Z 1,587	DIX 401-40-38	746000566
Gas nozzle pluggable (B, C, 10 pcs.)	L 69,5 / AD 24 / ID 9,5 / flush	DIX 401-4-38	746000571
Gas nozzle pluggable (B, C, 10 pcs.)	L 73 / AD 24 / ID 12,7 / Z 3,175	DIX 401-4-50	746000572
Gas nozzle pluggable (B, C, 2 pcs.)	L 73 / AD 24 / ID 12,7 / Z 3,175	DIX 401-4-50-02	746000573
Gas nozzle pluggable (B, C, 10 pcs.)	L 73 / AD 24 / ID 15,9 / Z 3,175	DIX 401-4-62	746000017
Gas nozzle pluggable (B, C, 2 pcs.)	L 73 / AD 24 / ID 15,9 / Z 3,175	DIX 401-4-62-02	746000577
Gas nozzle pluggable (B, D, 10 pcs.)	L 73 / AD 24 / ID 19 / Z 3,175	DIX 401-4-75	746000581
Gas nozzle pluggable (B, C, 10 pcs.)	L 67 / AD 24 / ID 15,9 / K 3,175	DIX 401-8-62	746000041
Gas nozzle pluggable (B, C, 10 pcs.)	L 64 / AD 24 / ID 15,9 / K 6,35	DIX 401-44-62	746000016
Gas nozzle screwable (A, C, 10 pcs.)	L 67 / AD 24 / ID 15,9 / K 3,175	DIX 401-18-62	746000010
Gas nozzle screwable (B, E, 10 pcs.)	L 67 / AD 24 / ID 12,7 / K 3,175	DIX 401-16-50	746000561

## Gas nozzles for heavy duty welding applications

Description	Dimension in mm	Part name	Part number
Gas nozzle pluggable (A, C, 10 pcs.)	L 76 / AD 28 / ID 15,9 / Z 6,35	DIX 401-7-62	746000038
Gas nozzle pluggable (A, C, 10 pcs.)	L 73 / AD 28 / ID 19 / Z 3,175	DIX 401-7-75	746000039
Gas nozzle pluggable (A, C, 10 pcs.)	L 73 / AD 28 / ID 15,9 / Z 3,175	DIX 401-71-62	746000036
Gas nozzle pluggable (A, C, 10 pcs.)	L 67 / AD 27 / ID 15,9 / K 3,175	DIX 401-87-62	746000043
Gas nozzle pluggable (B, C, 10 pcs.)	L 76 / AD 27 / ID 19 / Z 6,350	DIX 401-5-75	746000586
Gas nozzle pluggable (B, C, 10 pcs.)	L 76 / AD 27 / ID 15,9 / Z 6,350	DIX 401-5-62	746000029
Gas nozzle pluggable (B, C, 2 pcs.)	L 76 / AD 27 / ID 15,9 / Z 6,350	DIX 401-5-62-02	746000585
Gas nozzle pluggable (B, C, 10 pcs.)	L 73 / AD 27 / ID 19 / Z 3,175	DIX 401-6-75	746000589
Gas nozzle pluggable (B, C, 10 pcs.)	L 73 / AD 27 / ID 15,9 / Z 3,175	DIX 401-6-62	746000035
Gas nozzle pluggable (B, C, 10 pcs.)	L 73 / AD 27 / ID 15,9 / Z 3,175	DIX 401-6-62-02	746000588
Gas nozzle pluggable (B, C, 10 pcs.)	L 73 / AD 27 / ID 12,7 / Z 3,175	DIX 401-6-50	746000034
Gas nozzle pluggable (B, C, 10 pcs.)	L 67 / AD 27 / ID 15,9 / K 3,175	DIX 401-81-62	746000040
Gas nozzle pluggable (B, E, 10 pcs.)	L 70 / AD 27 / ID 15,9 / flush	DIX 401-48-62	746000020
Gas nozzle screwable (B, C, 10 pcs.)	L 73 / AD 27 / ID 15,9 / Z 3,175	DIX 401-14-62	746000009
Gas nozzle screwable (A, C, 10 pcs.)	L 67 / AD 27 / ID 15,9 / K 3,175	DIX 401-41-62	746000011

A = Brass gas nozzle, B = Copper gas nozzle, C = taper, D = straight, E = bottleneck





## Wear parts

### TOUGH ACCESS™

#### Gas nozzles for hard-to-reach welds

Description	Dimension in mm	Part name	Part number
Gas nozzle pluggable (B, E)	L 61 / AD 21,6 / ID 12,7 / Z 3,175	DIX 401-54-50	746000025
Gas nozzle pluggable (B, E)	L 58 / AD 21,6 / ID 12,7 / flush	DIX 401-55-50	746000027
Gas nozzle pluggable (B, E)	L 55 / AD 21,6 / ID 12,7 / K 3,175	DIX 401-56-50	746000030
Gas nozzle pluggable (B, E)	L 51,5 / AD 21,6 / ID 12,7 / K 6,35	DIX 401-57-50	746000032
Gas nozzle pluggable (B, D)	L 61 / AD 21,6 / ID 15,9 / Z 3,175	DIX 401-54-62	746000026
Gas nozzle pluggable (B, D)	L 58 / AD 21,6 / ID 15,9 / flush	DIX 401-55-62	746000028
Gas nozzle pluggable (B, D)	L 55 / AD 21,6 / ID 15,9 / K 3,175	DIX 401-56-62	746000031
Gas nozzle pluggable (B, D)	L 51,5 / AD 21,6 / ID 15,9 / K 6,35	DIX 401-57-62	746000033

A = Brass gas nozzle, B = Copper gas nozzle, C = taper, D = straight, E = bottleneck

### TOUGH LOCK™

#### Teach tips

Description	Part name	Part number
Teach tip TOUGH LOCK adjustable	DIX 403-20-01	746000052
Teach tip TOUGH LOCK 1/2	DIX 403-20-05	746000053
Teach tip TOUGH LOCK 5/8	DIX 403-20-062	746000054
Teach tip TOUGH LOCK 3/4	DIX 403-20-075	746000055
Teach tip TOUGH LOCK HD 10mm	DIX 403-20-10MM	746000059
Teach tip TOUGH LOCK HD 15mm	DIX 403-20-15MM	746000061

#### Contact tips for standard welding applications

Description	Wire diameter	Part name	Part number
Contact tip, TOUGH LOCK SD (5 pcs.)	0.6 mm	DIX 403-14-23-05	746000624
Contact tip, TOUGH LOCK SD (25 pcs.)	0.6 mm	DIX 403-14-23-25	746000625
Contact tip, TOUGH LOCK SD (5 pcs.)	0.8 mm	DIX 403-14-30-05	746000626
Contact tip, TOUGH LOCK SD (25 pcs.)	0.8 mm	DIX 403-14-30-25	746000628
Contact tip, TOUGH LOCK SD (100 pcs.)	0.8 mm	DIX 403-14-30	746000049
Contact tip, TOUGH LOCK SD (1.000 pcs.)	0.8 mm	DIX 403-14-30-1000	746000627
Contact tip, TOUGH LOCK SD (5 pcs.)	0.9 mm	DIX 403-14-35-05	746000629
Contact tip, TOUGH LOCK SD (25 pcs.)	0.9 mm	DIX 403-14-35-25	746000631
Contact tip, TOUGH LOCK SD (100 pcs.)	0.9 mm	DIX 403-14-35	746000050
Contact tip, TOUGH LOCK SD (1.000 pcs.)	0.9 mm	DIX 403-14-35-1000	746000630
Contact tip, TOUGH LOCK SD (5 pcs.)	1.0 mm	DIX 403-14-1.0-05	746000622
Contact tip, TOUGH LOCK SD (25 pcs.)	1.0 mm	DIX 403-14-1.0-25	746000623
Contact tip, TOUGH LOCK SD (100 pcs.)	1.0 mm	DIX 403-14-1.0	746000048
Contact tip, TOUGH LOCK SD (5 pcs.)	1.1 mm	DIX 403-14-45-05	746000632
Contact tip, TOUGH LOCK SD (25 pcs.)	1.1 mm	DIX 403-14-45-25	746000634
Contact tip, TOUGH LOCK SD (100 pcs.)	1.1 mm	DIX 403-14-45	746000051
Contact tip, TOUGH LOCK SD (1.000 pcs.)	1.1 mm	DIX 403-14-45-1000	746000633



## Wear parts

### TOUGH LOCK™

#### Contact tips for heavy duty welding applications

Description	Wire diameter	Part name	Part number
Contact tip, TOUGH LOCK HD (5 pcs.)	0.8 mm	DIX 403-20-30-05	746000651
Contact tip, TOUGH LOCK HD (25 pcs.)	0.8 mm	DIX 403-20-30-25	746000653
Contact tip, TOUGH LOCK HD (100 pcs.)	0.8 mm	DIX 403-20-30	746000062
Contact tip, TOUGH LOCK HD (1.000 pcs.)	0.8 mm	DIX 403-20-30-1000	746000652
Contact tip, TOUGH LOCK HD (5 pcs.)	0.9 mm	DIX 403-20-35-05	746000657
Contact tip, TOUGH LOCK HD (25 pcs.)	0.9 mm	DIX 403-20-35-25	746000659
Contact tip, TOUGH LOCK HD (100 pcs.)	0.9 mm	DIX 403-20-35	746000064
Contact tip, TOUGH LOCK HD (1.000 pcs.)	0.9 mm	DIX 403-20-35-1000	746000658
Contact tip, TOUGH LOCK HD (5 pcs.)	1.0 mm	DIX 403-20-1.0-05	746000642
Contact tip, TOUGH LOCK HD (25 pcs.)	1.0 mm	DIX 403-20-1.0-25	746000644
Contact tip, TOUGH LOCK HD (100 pcs.)	1.0 mm	DIX 403-20-1.0	746000056
Contact tip, TOUGH LOCK HD (1.000 pcs.)	1.0 mm	DIX 403-20-1.0-1000	746000643
Contact tip, TOUGH LOCK HD (5 pcs.)	1.1 mm	DIX 403-20-45-05	746000662
Contact tip, TOUGH LOCK HD (25 pcs.)	1.1 mm	DIX 403-20-45-25	746000664
Contact tip, TOUGH LOCK HD (100 pcs.)	1.1 mm	DIX 403-20-45	746000066
Contact tip, TOUGH LOCK HD (1.000 pcs.)	1.1 mm	DIX 403-20-45-1000	746000663
Contact tip, TOUGH LOCK HD (25 pcs.)	1.2 mm	DIX 403-20-364-25	746000661
Contact tip, TOUGH LOCK HD (100 pcs.)	1.2 mm	DIX 403-20-364	746000065
Contact tip, TOUGH LOCK HD (1.000 pcs.)	1.2 mm	DIX 403-20-364-1000	746000660
Contact tip, TOUGH LOCK HD (5 pcs.)	1.3 mm	DIX 403-20-52-05	746000665
Contact tip, TOUGH LOCK HD (25 pcs.)	1.3 mm	DIX 403-20-52-25	746000667
Contact tip, TOUGH LOCK HD (100 pcs.)	1.3 mm	DIX 403-20-52	746000067
Contact tip, TOUGH LOCK HD (1.000 pcs.)	1.3 mm	DIX 403-20-52-1000	746000666
Contact tip, TOUGH LOCK HD (25 pcs.)	1.4 mm	DIX 403-20-1.4-25	746000646
Contact tip, TOUGH LOCK HD (100 pcs.)	1.4 mm	DIX 403-20-1.4	746000057
Contact tip, TOUGH LOCK HD (1.000 pcs.)	1.4 mm	DIX 403-20-1.4-1000	746000645
Contact tip, TOUGH LOCK HD (5 pcs.)	1.6 mm	DIX 403-20-116-05	746000648
Contact tip, TOUGH LOCK HD (25 pcs.)	1.6 mm	DIX 403-20-116-25	746000650
Contact tip, TOUGH LOCK HD (100 pcs.)	1.6 mm	DIX 403-20-116	746000060
Contact tip, TOUGH LOCK HD (1.000 pcs.)	1.6 mm	DIX 403-20-116-1000	746000649
Contact tip, TOUGH LOCK HD (25 pcs.)	1.8 mm	DIX 403-20-1.8-25	746000647
Contact tip, TOUGH LOCK HD (100 pcs.)	1.8 mm	DIX 403-20-1.8	746000058
Contact tip, TOUGH LOCK HD (25 pcs.)	2.0 mm	DIX 403-20-78-25	746000671
Contact tip, TOUGH LOCK HD (100 pcs.)	2.0 mm	DIX 403-20-78	746000069
Contact tip, TOUGH LOCK HD (1.000 pcs.)	2.0 mm	DIX 403-20-78-1000	746000670
Contact tip, TOUGH LOCK HD (25 pcs.)	2.0 mm	DIX 403-20-564-25	746000669
Contact tip, TOUGH LOCK HD (100 pcs.)	2.0 mm	DIX 403-20-564	746000068
Contact tip, TOUGH LOCK HD (1.000 pcs.)	2.0 mm	DIX 403-20-564-1000	746000668
Contact tip, TOUGH LOCK HD (5 pcs.)	2.4 mm	DIX 403-20-332-05	746000654
Contact tip, TOUGH LOCK HD (25 pcs.)	2.4 mm	DIX 403-20-332-25	746000656
Contact tip, TOUGH LOCK HD (100 pcs.)	2.4 mm	DIX 403-20-332	746000063
Contact tip, TOUGH LOCK HD (1.000 pcs.)	2.4 mm	DIX 403-20-332-1000	746000655



## Wear parts

### TOUGH LOCK™

#### Contact tips conical for heavy duty welding applications

Description	Wire diameter	Part name	Part number
Contact tip, TOUGH LOCK HD, conical (25 pcs.)	0.8 mm	DIX 403-21-30-25	746000676
Contact tip, TOUGH LOCK HD, conical (100 pcs.)	0.8 mm	DIX 403-21-30	746000072
Contact tip, TOUGH LOCK HD, conical (1.000 pcs.)	0.8 mm	DIX 403-21-30-1000	746000675
Contact tip, TOUGH LOCK HD, conical (25 pcs.)	0.9 mm	DIX 403-21-35-25	746000678
Contact tip, TOUGH LOCK HD, conical (100 pcs.)	0.9 mm	DIX 403-21-35	746000073
Contact tip, TOUGH LOCK HD, conical (1.000 pcs.)	0.9 mm	DIX 403-21-35-1000	746000677
Contact tip, TOUGH LOCK HD, conical (25 pcs.)	1.0 mm	DIX 403-21-1.0-25	746000673
Contact tip, TOUGH LOCK HD, conical (100 pcs.)	1.0 mm	DIX 403-21-1.0	746000070
Contact tip, TOUGH LOCK HD, conical (1.000 pcs.)	1.0 mm	DIX 403-21-1.0-1000	746000672
Contact tip, TOUGH LOCK HD, conical (25 pcs.)	1.1 mm	DIX 403-21-45-25	746000679
Contact tip, TOUGH LOCK HD, conical (100 pcs.)	1.1 mm	DIX 403-21-45	746000074
Contact tip, TOUGH LOCK HD, conical (25 pcs.)	1.3 mm	DIX 403-21-52-25	746000680
Contact tip, TOUGH LOCK HD, conical (100 pcs.)	1.3 mm	DIX 403-21-52	746000075
Contact tip, TOUGH LOCK HD, conical (25 pcs.)	1.6 mm	DIX 403-21-116-25	746000674
Contact tip, TOUGH LOCK HD, conical (100 pcs.)	1.6 mm	DIX 403-21-116	746000071

#### Contact tips longer lifetime for heavy duty welding applications

Description	Wire diameter	Part name	Part number
Contact tip, TOUGH LOCK EHD, CuCrZr (25 pcs.)	0.8 mm	DIX 403-27-30-25	746000693
Contact tip, TOUGH LOCK EHD, CuCrZr (100 pcs.)	0.8 mm	DIX 403-27-30	746000078
Contact tip, TOUGH LOCK EHD, CuCrZr (25 pcs.)	0.9 mm	DIX 403-27-35-25	746000694
Contact tip, TOUGH LOCK EHD, CuCrZr (100 pcs.)	0.9 mm	DIX 403-27-35	746000079
Contact tip, TOUGH LOCK EHD, CuCrZr (25 pcs.)	1.0 mm	DIX 403-27-1.0-25	746000691
Contact tip, TOUGH LOCK EHD, CuCrZr (100 pcs.)	1.0 mm	DIX 403-27-1.0	746000076
Contact tip, TOUGH LOCK EHD, CuCrZr (25 pcs.)	1.1 mm	DIX 403-27-45-25	746000696
Contact tip, TOUGH LOCK EHD, CuCrZr (100 pcs.)	1.1 mm	DIX 403-27-45	746000081
Contact tip, TOUGH LOCK EHD, CuCrZr (25 pcs.)	1.2 mm	DIX 403-27-364-25	746000695
Contact tip, TOUGH LOCK EHD, CuCrZr (100 pcs.)	1.2 mm	DIX 403-27-364	746000080
Contact tip, TOUGH LOCK EHD, CuCrZr (25 pcs.)	1.3 mm	DIX 403-27-52-25	746000698
Contact tip, TOUGH LOCK EHD, CuCrZr (100 pcs.)	1.3 mm	DIX 403-27-52	746000697
Contact tip, TOUGH LOCK EHD, CuCrZr (25 pcs.)	1.6 mm	DIX 403-27-116-25	746000692
Contact tip, TOUGH LOCK EHD, CuCrZr (100 pcs.)	1.6 mm	DIX 403-27-116	746000077

### SURESTART™

#### Contact tips for heavy duty welding applications

Description	Wire diameter	Part name	Part number
Contact tip, reliable starting HD (20 pcs.)	0.8 mm	DIX 403-22-30	746000682
Contact tip, reliable starting HD (20 pcs.)	0.9 mm	DIX 403-22-35	746000683
Contact tip, reliable starting HD (20 pcs.)	1.0 mm	DIX 403-22-1.0	746000681
Contact tip, reliable starting HD (20 pcs.)	1.1 mm	DIX 403-22-45	746000685
Contact tip, reliable starting HD (20 pcs.)	1.2 mm	DIX 403-22-364	746000684
Contact tip, reliable starting HD (20 pcs.)	1.3 mm	DIX 403-22-52	746000686



## Wear parts

### TOUGH LOCK™

#### Contact tips for extra heavy duty welding applications

Description	Wire diameter	Part name	Part number
Contact tip, TOUGH LOCK EHD (25 pcs.)	1.0 mm	DIX 603-20-1.0-25	746001199
Contact tip, TOUGH LOCK EHD (25 pcs.)	1.1 mm	DIX 603-20-45-25	746001205
Contact tip, TOUGH LOCK EHD (25 pcs.)	1.2 mm	DIX 603-20-364-25	746001204
Contact tip, TOUGH LOCK EHD (25 pcs.)	1.3 mm	DIX 603-20-52-25	746001206
Contact tip, TOUGH LOCK EHD (25 pcs.)	1.4 mm	DIX 603-20-1.4-25	746001200
Contact tip, TOUGH LOCK EHD (25 pcs.)	1.6 mm	DIX 603-20-116-25	746001201
Contact tip, TOUGH LOCK EHD (25 pcs.)	2.0 mm	DIX 603-20-564-25	746001207
Contact tip, TOUGH LOCK EHD (25 pcs.)	2.4 mm	DIX 603-20-332-25	746001203
Contact tip, TOUGH LOCK EHD (25 pcs.)	2.8 mm	DIX 603-20-764-25	746001208
Contact tip, TOUGH LOCK EHD (25 pcs.)	3.2 mm	DIX 603-20-18-25	746001202

#### Contact tips for heavy duty pulsed welding applications

Description	Wire diameter	Part name	Part number
Contact tip, TOUGH LOCK HDP (5 pcs.)	0.9 mm	DIX 403-40-35-05	746001519
Contact tip, TOUGH LOCK HDP (25 pcs.)	0.9 mm	DIX 403-40-35-25	746001520
Contact tip, TOUGH LOCK HDP (100 pcs.)	0.9 mm	DIX 403-40-35	746001521
Contact tip, TOUGH LOCK HDP (5 pcs.)	1.0 mm	DIX 403-40-40-05	746001522
Contact tip, TOUGH LOCK HDP (25 pcs.)	1.0 mm	DIX 403-40-40-25	746001523
Contact tip, TOUGH LOCK HDP (100 pcs.)	1.0 mm	DIX 403-40-40	746001524
Contact tip, TOUGH LOCK HDP (5 pcs.)	1.1 mm	DIX 403-40-45-05	746001525
Contact tip, TOUGH LOCK HDP (25 pcs.)	1.1 mm	DIX 403-40-45-25	746001526
Contact tip, TOUGH LOCK HDP (100 pcs.)	1.1 mm	DIX 403-40-45	746001527
Contact tip, TOUGH LOCK HDP (5 pcs.)	1.2 mm	DIX 403-40-1.2-05	746001555
Contact tip, TOUGH LOCK HDP (25 pcs.)	1.2 mm	DIX 403-40-1.2-25	746001556
Contact tip, TOUGH LOCK HDP (100 pcs.)	1.2 mm	DIX 403-40-1.2	746001557
Contact tip, TOUGH LOCK HDP (5 pcs.)	1.4 mm	DIX 403-40-1.4-05	746001563
Contact tip, TOUGH LOCK HDP (25 pcs.)	1.4 mm	DIX 403-40-1.4-25	746001564
Contact tip, TOUGH LOCK HDP (100 pcs.)	1.4 mm	DIX 403-40-1.4	746001565



## Wear parts

### TOUGH LOCK™

#### Retaining heads for normal duty welding applications

Description	Gas nozzles	Part name	Part number
Retaining head double cone	pluggable (2 pcs.)	DIX 404-18-02	746000715
Retaining head double cone	pluggable (25 pcs.)	DIX 404-18-25	746000716
Retaining head double cone	pluggable (100 pcs.)	DIX 404-18	746000082

#### Retaining heads for heavy duty welding applications

Description	Gas nozzles	Part name	Part number
Retaining head	pluggable (25 pcs.)	DIX 404-30-25	746000729
Retaining head	pluggable (100 pcs.)	DIX 404-30	746000728
Retaining head double cone	pluggable (2 pcs.)	DIX 404-32-02	746000732
Retaining head double cone	pluggable (25 pcs.)	DIX 404-32-25	746000733
Retaining head double cone	pluggable (100 pcs.)	DIX 404-32	746000083
Retaining head double cone	pluggable (250 pcs.)	DIX 404-32-250	746000734
Retaining head double cone	screwable (25 pcs.)	DIX 404-52-25	746000084
Retaining head double cone	screwable (25 pcs.)	DIX 404-51-25	746000745

### TOUGH ACCESS™

#### Retaining heads for normal duty welding applications

Description	Gas nozzles	Part name	Part number
Retaining head	pluggable (25 pcs.)	DIX 404-54-25	746000747
Retaining head	pluggable (100 pcs.)	DIX 404-54	746000085

#### Retaining heads for heavy duty welding applications

Description	Gas nozzles	Part name	Part number
Retaining head	pluggable (25 pcs.)	DIX 404-50-25	746000744



# CA3 Torch bracket MIG/MAG fixed / Shock sensor

For robotic and half automation applications

## Properties

- ▶ Bracket parts made of high-strength aluminum
- ▶ High mechanical strength
- ▶ High dimension accuracy
- ▶ Low weight
- ▶ Very good corrosion resistance
- ▶ Shock sensor with high resetting accuracy

## Application

- ▶ For DINSE by Tregasskiss torch sets **gas cooled**



Torch bracket, fixed



Torch bracket with shock sensor

### Hint:

Information to the appropriate adapter flanges and Intermediate flanges you will find in Chapter ACCESSORIES.



	Description	Part name	Part number
1	Retainer for torch set, fixed	DIX CASM	746000302
2	Retainer, 22°, TCP 316 mm (405-22QC)	DIX CA2201	746000263
	Retainer, 22°, TCP 350 mm (405-22QCL)	DIX CA2202	746000264
	Retainer, 22°, TCP 400 mm (405-22QCL)	DIX CA2203	746000265
	Retainer, 45°, TCP 350 mm (405-45QCL)	DIX CA4501	746000299
	Retainer, 45°, TCP 400 mm (405-45QCL1)	DIX CA4502	746000300
	Retainer, 180°, TCP 294 mm (405-180QC)	DIX CA1801	746000262
3	Retainer for torch set, Shock sensor	DIX CACM	746000301



# Torch set with Power pin connection for conventional robots - gas cooled MIG/MAG DIX S513- \_ \_ \_ \_

## Application

- For DINSE by Tregaskiss Torch heads gas cooled  
DIX 405-22QC, DIX 405-22QCL, DIX 405-22QCL1,  
DIX 405-45QC, DIX 405-45QCL, DIX 405-45QCL1, DIX 405-45QCL2  
DIX 405-180QC
- With Power pin connection



## Hint:

Information to the appropriate liners and power pin connections you will find in Chapter ACCESSORIES.

	Description	Dimension	Part name	Part number
A	Garnitur	L = 0.91 m	DIX S513-203	746001464
	Garnitur	L = 1.06 m	DIX S513-203.5	746001465
	Garnitur	L = 1.22 m	DIX S513-204	746001466
	Garnitur	L = 1.52 m	DIX S513-205	746001467
	Garnitur	L = 1.82 m	DIX S513-206	746001468
	Garnitur	L = 2.44 m	DIX S513-208	746001469

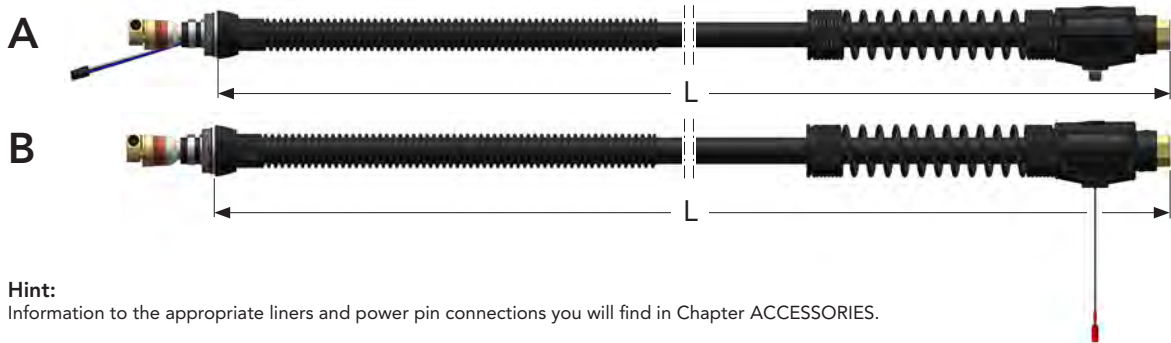


# Changeable Supply hose with Power pin connection for conventional robots - gas cooled MIG/MAG

## DIX CA3U\_\_ / DIX CA3U\_\_ S

### Application

- ▶ For DINSE by Tregaskiss Torch sets gas cooled DIX S513-\_\_ \_\_
- ▶ With Power pin connection



### Hint:

Information to the appropriate liners and power pin connections you will find in Chapter ACCESSORIES.

	Description	Dimension	Part name	Part number
A	Supply hose	L = 0.91 m	DIX CA3U03	746000266
	Supply hose	L = 1.06 m	DIX CA3U03.5	746000267
	Supply hose	L = 1.22 m	DIX CA3U04	746000270
	Supply hose	L = 1.37 m	DIX CA3U04.5	746000271
	Supply hose	L = 1.52 m	DIX CA3U05	746000274
	Supply hose	L = 1.67 m	DIX CA3U05.5	746000275
	Supply hose	L = 1.82 m	DIX CA3U06	746000278
	Supply hose	L = 1.98 m	DIX CA3U06.5	746000279
	Supply hose	L = 2.13 m	DIX CA3U07	746000282
	Supply hose	L = 2.28 m	DIX CA3U07.5	746000283
	Supply hose	L = 2.44 m	DIX CA3U08	746000286
	Supply hose	L = 2.59 m	DIX CA3U08.5	746000287
	Supply hose	L = 2.74 m	DIX CA3U09	746000290
	Supply hose	L = 2.89 m	DIX CA3U09.5	746000291
	Supply hose	L = 3.00 m	DIX CA3U10	746000294
Supply hose	L = 3.66 m	DIX CA3U12	746000296	
B	Supply hose, Torch bracket, fixed	L = 0.91 m	DIX CA3U03S	746000269
	Supply hose, Torch bracket, fixed	L = 1.06 m	DIX CA3U03.5S	746000268
	Supply hose, Torch bracket, fixed	L = 1.22 m	DIX CA3U04S	746000273
	Supply hose, Torch bracket, fixed	L = 1.37 m	DIX CA3U04.5S	746000272
	Supply hose, Torch bracket, fixed	L = 1.52 m	DIX CA3U05S	746000277
	Supply hose, Torch bracket, fixed	L = 1.67 m	DIX CA3U05.5S	746000276
	Supply hose, Torch bracket, fixed	L = 1.82 m	DIX CA3U06S	746000281
	Supply hose, Torch bracket, fixed	L = 1.98 m	DIX CA3U06.5S	746000280
	Supply hose, Torch bracket, fixed	L = 2.13 m	DIX CA3U07S	746000285
	Supply hose, Torch bracket, fixed	L = 2.28 m	DIX CA3U07.5S	746000284
	Supply hose, Torch bracket, fixed	L = 2.44 m	DIX CA3U08S	746000289
	Supply hose, Torch bracket, fixed	L = 2.59 m	DIX CA3U08.5S	746000288
	Supply hose, Torch bracket, fixed	L = 2.74 m	DIX CA3U09S	746000293
	Supply hose, Torch bracket, fixed	L = 2.89 m	DIX CA3U09.5S	746000292
	Supply hose, Torch bracket, fixed	L = 3.00 m	DIX CA3U10S	746000295
Supply hose, Torch bracket, fixed	L = 3.66 m	DIX CA3U12S	746000297	
Supply hose, Torch bracket, fixed	L = 4.50 m	DIX CA3U15S	746000298	



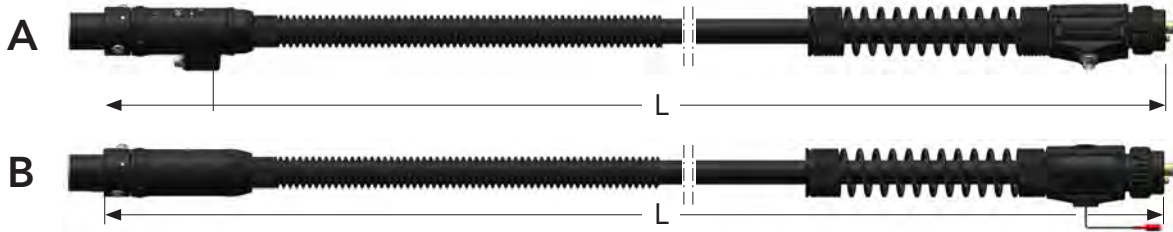


# Torch set with EURO connection for conventional robots - gas cooled MIG/MAG DIX E513- \_ \_ \_

## Application

- ▶ For DINSE by Tregaskiss Torch heads gas cooled  
DIX 405-22QC, DIX 405-22QCL, DIX 405-22QCL1,  
DIX 405-45QC, DIX 405-45QCL, DIX 405-45QCL1, DIX 405-45QCL2  
DIX 405-180QC
- ▶ With EURO connection

**Hint:**  
Information to the appropriate liners  
you will find in Chapter ACCESSORIES.



Description	Dimension	Part name	Part number
A Torch set, EURO	L = 0.76 m	DIX E513-202.5	746001325
Torch set, EURO	L = 0.91 m	DIX E513-203	746001326
Torch set, EURO	L = 1.06 m	DIX E513-203.5	746001327
Torch set, EURO	L = 1.22 m	DIX E513-204	746001328
Torch set, EURO	L = 1.37 m	DIX E513-204.5	746001329
Torch set, EURO	L = 1.52 m	DIX E513-205	746001330
Torch set, EURO	L = 1.67 m	DIX E513-205.5	746001331
Torch set, EURO	L = 1.82 m	DIX E513-206	746001332
Torch set, EURO	L = 1.98 m	DIX E513-206.5	746001333
Torch set, EURO	L = 2.13 m	DIX E513-207	746001334
Torch set, EURO	L = 2.28 m	DIX E513-207.5	746001335
Torch set, EURO	L = 2.44 m	DIX E513-208	746001336
Torch set, EURO	L = 2.59 m	DIX E513-208.5	746001337
Torch set, EURO	L = 2.74 m	DIX E513-209	746001338
Torch set, EURO	L = 2.89 m	DIX E513-209.5	746001339
Torch set, EURO	L = 3.00 m	DIX E513-210	746001340
Torch set, EURO	L = 3.66 m	DIX E513-212	746001341
Torch set, EURO	L = 4.50 m	DIX E513-215	746001342
Torch set, WB, EURO	L = 0.91 m	DIX E513-403	746001343
Torch set, WB, EURO	L = 1.06 m	DIX E513-403.5	746001344
Torch set, WB, EURO	L = 1.22 m	DIX E513-404	746001345
Torch set, WB, EURO	L = 1.37 m	DIX E513-404.5	746001346
Torch set, WB, EURO	L = 1.52 m	DIX E513-405	746001347
Torch set, WB, EURO	L = 1.67 m	DIX E513-405.5	746001348
Torch set, WB, EURO	L = 1.82 m	DIX E513-406	746001349
Torch set, WB, EURO	L = 1.98 m	DIX E513-406.5	746001350
Torch set, WB, EURO	L = 2.13 m	DIX E513-407	746001351
Torch set, WB, EURO	L = 2.28 m	DIX E513-407.5	746001352
Torch set, WB, EURO	L = 2.44 m	DIX E513-408	746001353
Torch set, WB, EURO	L = 2.59 m	DIX E513-408.5	746001354
Torch set, WB, EURO	L = 2.74 m	DIX E513-409	746001355
Torch set, WB, EURO	L = 2.89 m	DIX E513-409.5	746001356
Torch set, WB, EURO	L = 3.00 m	DIX E513-410	746001357
Torch set, WB, EURO	L = 3.66 m	DIX E513-412	746001358
Torch set, WB, EURO	L = 4.50 m	DIX E513-415	746001359

WB = wire brake



# Torch set with EURO connection for conventional robots - gas cooled MIG/MAG DIX E513- \_ \_ \_

Description	Dimension	Part name	Part number
<b>B</b> Torch set, Torch bracket fixed, EURO	L = 0.91 m	DIX E513-503	746001360
Torch set, Torch bracket fixed, EURO	L = 1.06 m	DIX E513-503.5	746001361
Torch set, Torch bracket fixed, EURO	L = 1.22 m	DIX E513-504	746001362
Torch set, Torch bracket fixed, EURO	L = 1.37 m	DIX E513-504.5	746001363
Torch set, Torch bracket fixed, EURO	L = 1.52 m	DIX E513-505	746001364
Torch set, Torch bracket fixed, EURO	L = 1.67 m	DIX E513-505.5	746001365
Torch set, Torch bracket fixed, EURO	L = 1.82 m	DIX E513-506	746001366
Torch set, Torch bracket fixed, EURO	L = 1.98 m	DIX E513-506.5	746001367
Torch set, Torch bracket fixed, EURO	L = 2.13 m	DIX E513-507	746001368
Torch set, Torch bracket fixed, EURO	L = 2.28 m	DIX E513-507.5	746001369
Torch set, Torch bracket fixed, EURO	L = 2.44 m	DIX E513-508	746001370
Torch set, Torch bracket fixed, EURO	L = 2.59 m	DIX E513-508.5	746001371
Torch set, Torch bracket fixed, EURO	L = 2.74 m	DIX E513-509	746001372
Torch set, Torch bracket fixed, EURO	L = 2.89 m	DIX E513-509.5	746001373
Torch set, Torch bracket fixed, EURO	L = 3.00 m	DIX E513-510	746001374
Torch set, Torch bracket fixed, EURO	L = 3.66 m	DIX E513-512	746001375
Torch set, Torch bracket fixed, EURO	L = 4.50 m	DIX E513-515	746001376
Torch set, WB, Torch bracket fixed, EURO	L = 0.91 m	DIX E513-603	746001377
Torch set, WB, Torch bracket fixed, EURO	L = 1.06 m	DIX E513-603.5	746001378
Torch set, WB, Torch bracket fixed, EURO	L = 1.22 m	DIX E513-604	746001379
Torch set, WB, Torch bracket fixed, EURO	L = 1.37 m	DIX E513-604.5	746001380
Torch set, WB, Torch bracket fixed, EURO	L = 1.52 m	DIX E513-605	746001381
Torch set, WB, Torch bracket fixed, EURO	L = 1.67 m	DIX E513-605.5	746001382
Torch set, WB, Torch bracket fixed, EURO	L = 1.82 m	DIX E513-606	746001383
Torch set, WB, Torch bracket fixed, EURO	L = 1.98 m	DIX E513-606.5	746001384
Torch set, WB, Torch bracket fixed, EURO	L = 2.13 m	DIX E513-607	746001385
Torch set, WB, Torch bracket fixed, EURO	L = 2.28 m	DIX E513-607.5	746001386
Torch set, WB, Torch bracket fixed, EURO	L = 2.44 m	DIX E513-608	746001387
Torch set, WB, Torch bracket fixed, EURO	L = 2.59 m	DIX E513-608.5	746001388
Torch set, WB, Torch bracket fixed, EURO	L = 2.74 m	DIX E513-609	746001389
Torch set, WB, Torch bracket fixed, EURO	L = 2.89 m	DIX E513-609.5	746001390
Torch set, WB, Torch bracket fixed, EURO	L = 3.00 m	DIX E513-610	746001391
Torch set, WB, Torch bracket fixed, EURO	L = 3.66 m	DIX E513-612	746001392
Torch set, WB, Torch bracket fixed, EURO	L = 4.50 m	DIX E513-615	746001393



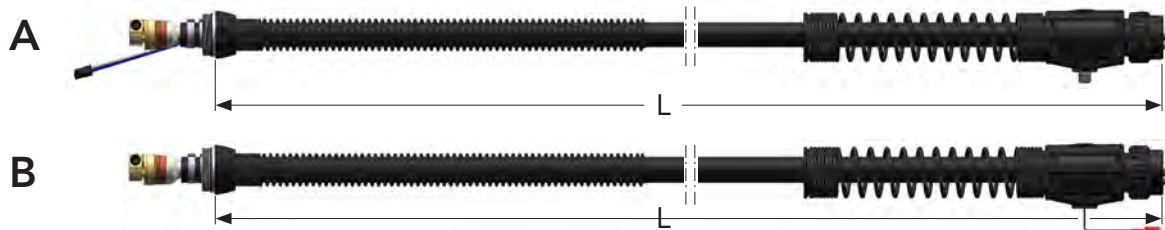
# Changeable Supply hose with EURO connection for conventional robots - gas cooled MIG/MAG

## DIX ECA3U\_\_ / DIX ECA3U\_\_ S

### Application

- For DINSE by Tregaskiss Torch sets gas cooled DIX E513-\_\_\_\_
- With EURO connection

**Hint:**  
Information to the appropriate liners you will find in Chapter ACCESSORIES.



	Description	Dimension	Part name	Part number
A	Supply hose, EURO	L = 0.91 m	DIX ECA3U03	746000361
	Supply hose, EURO	L = 1.06 m	DIX ECA3U03.5	746000362
	Supply hose, EURO	L = 1.22 m	DIX ECA3U04	746000365
	Supply hose, EURO	L = 1.37 m	DIX ECA3U04.5	746000366
	Supply hose, EURO	L = 1.52 m	DIX ECA3U05	746000369
	Supply hose, EURO	L = 1.67 m	DIX ECA3U05.5	746000370
	Supply hose, EURO	L = 1.82 m	DIX ECA3U06	746000373
	Supply hose, EURO	L = 1.98 m	DIX ECA3U06.5	746000374
	Supply hose, EURO	L = 2.13 m	DIX ECA3U07	746000377
	Supply hose, EURO	L = 2.28 m	DIX ECA3U07.5	746000378
	Supply hose, EURO	L = 2.44 m	DIX ECA3U08	746000381
	Supply hose, EURO	L = 2.59 m	DIX ECA3U08.5	746000382
	Supply hose, EURO	L = 2.74 m	DIX ECA3U09	746000385
	Supply hose, EURO	L = 2.89 m	DIX ECA3U09.5	746000386
	Supply hose, EURO	L = 3.00 m	DIX ECA3U10	746000389
Supply hose, EURO	L = 3.20 m	DIX ECA3U10.5	746000390	
Supply hose, EURO	L = 3.35 m	DIX ECA3U11	746000392	
Supply hose, EURO	L = 3.50 m	DIX ECA3U11.5	746000393	
Supply hose, EURO	L = 3.66 m	DIX ECA3U12	746000395	
Supply hose, EURO	L = 3.81 m	DIX ECA3U12.5	746000396	
Supply hose, EURO	L = 4.50 m	DIX ECA3U15	746000398	
B	Supply hose, Torch bracket, fixed	EURO L = 0.91 m	DIX ECA3U03S	746000364
	Supply hose, Torch bracket, fixed	EURO L = 1.06 m	DIX ECA3U03.5S	746000363
	Supply hose, Torch bracket, fixed	EURO L = 1.22 m	DIX ECA3U04S	746000368
	Supply hose, Torch bracket, fixed	EURO L = 1.37 m	DIX ECA3U04.5S	746000367
	Supply hose, Torch bracket, fixed	EURO L = 1.52 m	DIX ECA3U05S	746000372
	Supply hose, Torch bracket, fixed	EURO L = 1.67 m	DIX ECA3U05.5S	746000371
	Supply hose, Torch bracket, fixed	EURO L = 1.82 m	DIX ECA3U06S	746000376
	Supply hose, Torch bracket, fixed	EURO L = 1.98 m	DIX ECA3U06.5S	746000375
	Supply hose, Torch bracket, fixed	EURO L = 2.13 m	DIX ECA3U07S	746000380
	Supply hose, Torch bracket, fixed	EURO L = 2.28 m	DIX ECA3U07.5S	746000379
	Supply hose, Torch bracket, fixed	EURO L = 2.44 m	DIX ECA3U08S	746000384
	Supply hose, Torch bracket, fixed	EURO L = 2.59 m	DIX ECA3U08.5S	746000383
	Supply hose, Torch bracket, fixed	EURO L = 2.74 m	DIX ECA3U09S	746000388
	Supply hose, Torch bracket, fixed	EURO L = 2.89 m	DIX ECA3U09.5S	746000387
	Supply hose, Torch bracket, fixed	EURO L = 3.00 m	DIX ECA3U10S	746000391
Supply hose, Torch bracket, fixed	EURO L = 3.35 m	DIX ECA3U11S	746000394	
Supply hose, Torch bracket, fixed	EURO L = 3.66 m	DIX ECA3U12S	746000397	
Supply hose, Torch bracket, fixed	EURO L = 4.50 m	DIX ECA3U15S	746000399	



## Control wire

Description	Part name	Part number
Control wire, 2.0 m	DIX 519-1	746000123
Control wire, 5.0 m	DIX 519-2	746000125
Control wire, 0.45 m, 4-PIN AMP CPC SERIES (MOTOMAN/MILLER)	DIX 519-4	746000126
Control wire, 0.60 m, 3-PIN AMPHENOL 97 SERIES CONNECTOR	DIX 519-6	746000127
Control wire, 0.45 m, 12-PIN BURNDY UTG SERIES (ABB)	DIX 519-9	746000128
Control wire, 0.60 m, 5-PIN MINI PLUG	DIX 519-10	746000124

## Air blast function

Description	Part name	Part number
Air blast kit	DIX 508-A	746000940
Air blast function / compressed air plug	DIX 408-200-9A	746000780

## Spare parts for Wire brake

Description	Part name	Part number
Key for Wire brake	DIX 450-17	746000924
Wire brake, 1.2 mm	DIX 598-045	746000931
Wire brake, 1.6 mm	DIX 598-116	746000932
Pressure hose, 4.50 m	DIX 499-9-15	746000933



# TA3 Rotary interface MIG/MAG without shock sensor

## For ABB®, COMAU®, FANUC®, KAWASAKI®, KUKA®, MOTOMAN®- AND PANASONIC®-Robots

### Properties

- For robots in hollow wrist version
- Fixed version
- Optional with air blast funktion and/or wire brake
- **WITHOUT** Air blast- and/or wire brake option  
Endless rotation in the sixth robot axis
- **WITH** Air blast- and/or wire brake option  
Rotation of 270° to both sides in the sixth robot axis

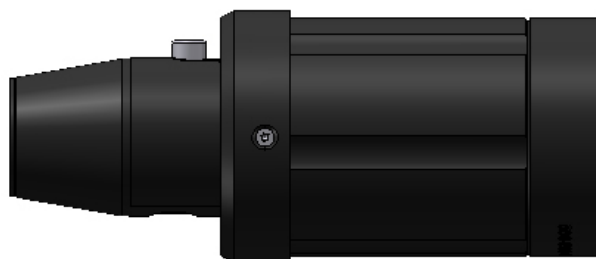
### Application

- For DINSE by Tregaskiss  
LSR Welding torch sets **gas cooled**
- Compatible with DINSE by Tregaskiss  
Torch necks **gas cooled**  
DIX 405-x

**Hint:** Information to the appropriate adapter flanges and Intermediate flanges you will find in Chapter ACCESSORIES.



Version for all robot types except FANUC



Version only for FANUC robots

Description	Part name	Part number
<b>ABB (IRB1600ID)</b>		
Rotary interface hollow wrist, Torch bracket, fixed	DIX A58G1S	746000247
Rotary interface hollow wrist, Torch bracket, fixed, with AB	DIX A58G1SA	746000248
Rotary interface hollow wrist, Torch bracket, fixed, with AB and DB*	DIX A58G1SW	746000249
<b>ABB (IRB2600ID)</b>		
Rotary interface hollow wrist, Torch bracket, fixed	DIX A258G1S	746000243
Rotary interface hollow wrist, Torch bracket, fixed, AB	DIX A258G1SA	746000244
Rotary interface hollow wrist, Torch bracket, fixed, AB, DB*	DIX A258G1SW	746000245
<b>COMAU</b>		
Rotary interface hollow wrist SMART5 ARC, Torch bracket, fixed	DIX C58G1	746000258
Rotary interface hollow wrist SMART5 ARC, Torch bracket, fixed, AB	DIX C58G1A	746000259
Rotary interface hollow wrist SMART5 ARC, Torch bracket, fixed, AB, DB*	DIX C58G1W	746000260
<b>FANUC</b>		
Rotary interface hollow wrist, Torch bracket, fixed	DIX 560-500	746000129
<b>KAWASAKI</b>		
Rotary interface hollow wrist, Torch bracket, fixed, with AB*	DIX KW58G1S	746001537
Rotary interface hollow wrist, Torch bracket, fixed, with AB and DB*	DIX KW58G1SW	746001538
<b>KUKA (KR5 HW and KR16 L8 HW)</b>		
Rotary interface hollow wrist, Torch bracket, fixed	DIX K58G1S	746000409
Rotary interface hollow wrist, Torch bracket, fixed, AB	DIX K58G1SA	746000410
Rotary interface hollow wrist, Torch bracket, fixed, AB, DB*	DIX K58G1SW	746000411
<b>KUKA (KR16 HW)</b>		
Rotary interface hollow wrist KR16HW, Torch bracket, fixed	DIX K5800S	746000404
Rotary interface hollow wrist KR16HW, Torch bracket, fixed, AB	DIX K5800SA	746000405
Rotary interface hollow wrist KR16HW, Torch bracket, fixed, AB, DB*	DIX K5800SW	746000406

AB = Air blast function, DB = Wire brake

\* The blow-out function is pre-installed by the manufacturer!



# Rotary interface MIG/MAG without shock sensor

## For ABB®, COMAU®, FANUC®, KAWASAKI®, KUKA®, MOTOMAN®- AND PANASONIC®-Robots

Description	Part name	Part number
<b>MOTOMAN</b> (all except MA 1440, MA 2010 and MA 3120)		
Rotary interface hollow wrist, Torch bracket, fixed	DIX 5800S	746000133
Rotary interface hollow wrist, Torch bracket, fixed, with AB	DIX 5800SA	746000134
Rotary interface hollow wrist, Torch bracket, fixed, with AB and DB*	DIX 5800SW	746000135
<b>MOTOMAN</b> (MA 1440, MA 2010 and MA 3120)		
Rotary interface hollow wrist, Torch bracket, fixed	DIX M58G1S	746000429
Rotary interface hollow wrist, Torch bracket, fixed, with DB	DIX M58G1SW	746000430
<b>PANASONIC</b> (TB-Serie)		
Rotary interface hollow wrist, Torch bracket, fixed	DIX P58G1S	746000470
Rotary interface hollow wrist, Torch bracket, fixed, AB	DIX P58G1SA	746000471
Rotary interface hollow wrist, Torch bracket, fixed, AB, DB*	DIX P58G1SW	746000472
<b>PANASONIC</b> (TM-Serie)		
Rotary interface hollow wrist, Torch bracket, fixed	DIX P258G1S	746000448
Rotary interface hollow wrist, Torch bracket, fixed, DB	DIX P258G1SW	746000449

AB = Air blast function, DB = Wire brake

\* The blow-out function is pre-installed by the manufacturer!



# TA3 Rotary interface MIG/MAG with Shock sensor For FANUC®, KAWASAKI®, KUKA®, MOTOMAN®, OTC DAIHEN®- AND PANASONIC®-Robots

## Properties

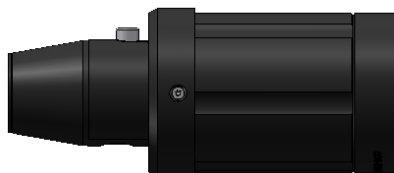
- ▶ For robots in hollow wrist version
- ▶ Version with shock sensor deflection max. 11°
- ▶ Optional with air blast funktion and/or wire brake
- ▶ **WITHOUT** Air blast- and/or wire brake option  
Endless rotation in the sixth robot axis
- ▶ **WITH** Air blast- and/or wire brake option  
Rotation of 270° to both sides in the sixth robot axis

## Application

- ▶ For DINSE by Tregaskiss  
LSR Welding torch sets **gas cooled**
- ▶ Compatible with DINSE by Tregaskiss  
Torch necks **gas cooled**  
DIX 405-x



Version for all robot types except FANUC



Version only for FANUC robots

**Hint:** Information to the appropriate adapter flanges and Intermediate flanges you will find in Chapter ACCESSORIES.

Description	Part name	Part number
<b>FANUC</b>		
Rotary interface hollow wrist, FANUC, DB, 1.2 mm	DIX W560-501-045	746001491
Wire brake trigger, 1.2 mm	DIX W560-500-045	746001488
<b>KAWASAKI</b>		
Rotary interface hollow wrist	DIX KW58G1	746001536
Rotary interface hollow wrist, AB, DB*	DIX KW58G1W	746001517
<b>KUKA (KR5 HW and KR16 L8 HW)</b>		
Rotary interface hollow wrist KR5 HW	DIX K5800	746000401
Rotary interface hollow wrist KR16HW, AB	DIX K5800A	746000402
Rotary interface hollow wrist KR16HW, AB, DB*	DIX K5800W	746000403
<b>MOTOMAN (all except MA 1440, MA 2010 and MA 3120)</b>		
Rotary interface hollow wrist	DIX 5800	746000131
Rotary interface hollow wrist, AB, DB*	DIX 5800W	746000132
<b>MOTOMAN (MA 1440, MA 2010 and MA 3120)</b>		
Rotary interface hollow wrist	DIX M58G1	746000428
Rotary interface hollow wrist, DB	DIX M58G1W	746000431
<b>OTC DAIHEN (AX-V4 and AX-V4L)</b>		
Rotary interface hollow wrist	DIX D5800	746000304
Rotary interface hollow wrist, AB	DIX D5800A	746000305
Rotary interface hollow wrist, AB, DB*	DIX D5800W	746000306
<b>OTC DAIHEN (FD B4 and B4 / B4L)</b>		
Rotary interface hollow wrist	DIX D25800	746000303
<b>PANASONIC (TB-Serie)</b>		
Rotary interface hollow wrist	DIX P5800	746000451
Rotary interface hollow wrist, AB	DIX P5800A	746000452
Rotary interface hollow wrist, AB, DB*	DIX P5800W	746000453
<b>PANASONIC (TM-Serie)</b>		
Rotary interface hollow wrist	DIX P258G1	746000447
Rotary interface hollow wrist, DB	DIX P258G1W	746000450

AB = Air blast funktion, DB = Wire brake

\* The blow-out funktion is pre-installed by the manufacturer!



# Changeable Supply hose with Power pin connection for Hollow wrist robots - gas cooled MIG/MAG

## Application

- ▶ For DINSE by Tregaskiss Rotary interface gas cooled  
DIX 58\_ \_\_, DIX A58\_ \_\_, DIX A258\_ \_\_, DIX C58\_ \_\_,  
DIX D58\_ \_\_, DIX D258\_ \_\_, DIX K58\_ \_\_, DIX M58\_ \_\_,  
DIX P58\_ \_\_, DIX P258\_ \_\_, DIX 560-500
- ▶ With Power pin connection



Description	Robot types	Part name	Part number
<b>ABB</b>			
<b>B</b> LSR Supply hose, Torch bracket, fixed	IRB1600ID	DIX 58SA024	746000180
LSR Supply hose, Torch bracket, fixed	IRB1600ID, DB	DIX 58SA024W	746000181
LSR Supply hose, Torch bracket, fixed	IRB2600ID-15	DIX 58SA028	746000182
LSR Supply hose, Torch bracket, fixed	IRB2600ID-8	DIX 58SA029	746001059
LSR Supply hose, Torch bracket, fixed	IRB1660ID	DIX 58SA030	746001060
LSR Supply hose, Torch bracket, fixed	IRB1660ID, AB	DIX 58SA030A	746001061
LSR Supply hose, Torch bracket, fixed	IRB1660ID, AB, DB	DIX 58SA030AW	746001062
LSR Supply hose, Torch bracket, fixed	IRB1660ID, DB	DIX 58SA030W	746001063
LSR Supply hose, Torch bracket, fixed	IRB1600ID W/ FRONIUS FEEDER	DIX 58SA033	746001064
LSR Supply hose, Torch bracket, fixed	IRB1600ID, AB W/ FRONIUS FEEDER	DIX 58SA033A	746001065
LSR Supply hose, Torch bracket, fixed	IRB1600ID, AB, DB W/ FRONIUS FEEDER	DIX 58SA033AW	746001066
LSR Supply hose, Torch bracket, fixed	IRB1600ID, DB W/ FRONIUS FEEDER	DIX 58SA033W	746001067
<b>FANUC</b>			
<b>B</b> LSR Supply hose, Torch bracket, fixed	100IC	DIX 58SF005	746000183
LSR Supply hose, Torch bracket, fixed	100IC, AB	DIX 58SF005A	746000184
LSR Supply hose, Torch bracket, fixed	100IC, DB	DIX 58SF005W	746000185
LSR Supply hose, Torch bracket, fixed	120IC	DIX 58SF006	746000186
LSR Supply hose, Torch bracket, fixed	120IC, DB	DIX 58SF006W	746000187
LSR Supply hose, Torch bracket, fixed	100IC	DIX 58SF007	746000188
LSR Supply hose, Torch bracket, fixed	100IC-6L, AB	DIX 58SF007A	746000189
LSR Supply hose, Torch bracket, fixed	100IC-6L, AB, DB	DIX 58SF007AW	746000190
LSR Supply hose, Torch bracket, fixed	100IC-6L, DB	DIX 58SF007W	746000191
LSR Supply hose, Torch bracket, fixed	120IC-10L	DIX 58SF008	746001068
LSR Supply hose, Torch bracket, fixed	120IC-10L, DB	DIX 58SF008W	746001069
LSR Supply hose, Torch bracket, fixed	100IC-8L	DIX 58SF010	746000192
LSR Supply hose, Torch bracket, fixed	100IC-8L, AB	DIX 58SF010A	746000193
LSR Supply hose, Torch bracket, fixed	100IC-8L, AB, DB	DIX 58SF010AW	746000194
LSR Supply hose, Torch bracket, fixed	100IC-8L, DB	DIX 58SF010W	746000195
LSR Supply hose, Torch bracket, fixed	M710IC-12L	DIX 58SF041	746000196
LSR Supply hose, Torch bracket, fixed	M710IC-12L, DB	DIX 58SF041W	746000197





# Changeable Supply hose with Power pin connection for Hollow wrist robots - gas cooled MIG/MAG



	Description	Robot types	Part name	Part number
<b>KAWASAKI</b>				
<b>A</b>	LSR Supply hose	BA006N	DIX 58CKW042	746000152
	LSR Supply hose	BA006N, AB	DIX 58CKW042A	746000153
	LSR Supply hose	BA006N, AB, DB	DIX 58CKW042AW	746000154
	LSR Supply hose	BA006N, DB	DIX 58CKW042W	746000155
<b>B</b>	LSR Supply hose, Torch bracket, fixed	BA006N	DIX 58SKW042	746000207
	LSR Supply hose, Torch bracket, fixed	BA006N, AB	DIX 58SKW042A	746000208
	LSR Supply hose, Torch bracket, fixed	BA006N, AB, DB	DIX 58SKW042AW	746000209
	LSR Supply hose, Torch bracket, fixed	BA006N, DB	DIX 58SKW042W	746000210
<b>KUKA</b>				
<b>A</b>	LSR Supply hose	KR6-R1820 HW	DIX 58CK031	746001041
	LSR Supply hose	KR6-R1820 HW, AB	DIX 58CK031A	746001042
	LSR Supply hose	KR6-R1820 HW, AB, DB	DIX 58CK031AW	746001043
	LSR Supply hose	KR6-R1820 HW, DB	DIX 58CK031W	746001044
	LSR Supply hose	KR8-R1420 HW, R1620 HW	DIX 58CK032	746001045
	LSR Supply hose	KR8-R1420 HW, R1620 HW, AB	DIX 58CK032A	746001046
	LSR Supply hose	KR8-R1420 HW, R1620 HW, AB, DB	DIX 58CK032AW	746001047
	LSR Supply hose	KR8-R1420 HW, R1620 HW, DB	DIX 58CK032W	746001048
<b>B</b>	LSR Supply hose, Torch bracket, fixed		DIX 58SK023	746000198
	LSR Supply hose, Torch bracket, fixed	AB	DIX 58SK023A	746000199
	LSR Supply hose, Torch bracket, fixed	AB, DB	DIX 58SK023AW	746000200
	LSR Supply hose, Torch bracket, fixed	DB	DIX 58SK023W	746000201
	LSR Supply hose, Torch bracket, fixed	KR16 L8	DIX 58SK027	746000202
	LSR Supply hose, Torch bracket, fixed	KR16 HW	DIX 58SK030	746000203
	LSR Supply hose, Torch bracket, fixed	KR16 HW, AB	DIX 58SK030A	746000204
	LSR Supply hose, Torch bracket, fixed	KR16 HW, AB, DB	DIX 58SK030AW	746000205
	LSR Supply hose, Torch bracket, fixed	KR16 HW, DB	DIX 58SK030W	746000206
	LSR Supply hose, Torch bracket, fixed	KR6-R1820 HW	DIX 58SK031	746001091
	LSR Supply hose, Torch bracket, fixed	KR6-R1820 HW, AB	DIX 58SK031A	746001092
	LSR Supply hose, Torch bracket, fixed	KR6-R1820 HW, AB, DB	DIX 58SK031AW	746001093
	LSR Supply hose, Torch bracket, fixed	KR6-R1820 HW, DB	DIX 58SK031W	746001094
	LSR Supply hose, Torch bracket, fixed	KR8-1420 HW, R1620 HW	DIX 58SK032	746001095
	LSR Supply hose, Torch bracket, fixed	KR8-1420 HW, R1620 HW, AB	DIX 58SK032A	746001096
	LSR Supply hose, Torch bracket, fixed	KR8-1420 HW, R1620 HW, AB, DB	DIX 58SK032AW	746001097
	LSR Supply hose, Torch bracket, fixed	KR8-1420 HW, R1620 HW, DB	DIX 58SK032W	746001098

AB = Air blast function, DB = Wire brake



# Changeable Supply hose with Power pin connection for Hollow wrist robots - gas cooled MIG/MAG



Description	Robot types	Part name	Part number
<b>MOTOMAN</b>			
<b>A</b> LSR Supply hose	EA1400N	DIX 58CM001	746000156
LSR Supply hose	EA1400N, AB	DIX 58CM001A	746000157
LSR Supply hose	EA1400N, AB, DB	DIX 58CM001AW	746000158
LSR Supply hose	EA1400N, DB	DIX 58CM001W	746000159
LSR Supply hose	EA1900N	DIX 58CM002	746000160
LSR Supply hose	EA1900N, AB	DIX 58CM002A	746000161
LSR Supply hose	EA1900N, AB, DB	DIX 58CM002AW	746000162
LSR Supply hose	EA1900N, DB	DIX 58CM002W	746000163
LSR Supply hose	EA1400X	DIX 58CM016	746000164
LSR Supply hose	EA1400X, AB	DIX 58CM016A	746000165
LSR Supply hose	EA1400XR, DB	DIX 58CM016W	746000166
LSR Supply hose	EA1900X	DIX 58CM017	746000167
LSR Supply hose	MA3100	DIX 58CM031	746000168
LSR Supply hose	MA3100, AB	DIX 58CM031A	746000169
LSR Supply hose	MA3100, AB, DB	DIX 58CM031AW	746000170
LSR Supply hose	MA3100, DB	DIX 58CM031W	746000171
LSR Supply hose	MA1440	DIX 58CM035	746000172
LSR Supply hose	MA1440, AB	DIX 58CM035A	746000173
LSR Supply hose	MA1440, AB, DB	DIX 58CM035AW	746000174
LSR Supply hose	MA1440, DB	DIX 58CM035W	746000175
LSR Supply hose	MA2010	DIX 58CM038	746000176
LSR Supply hose	MA2010, AB	DIX 58CM038A	746000177
LSR Supply hose	MA2010, AB, DB	DIX 58CM038AW	746000178
LSR Supply hose	MA2010, DB	DIX 58CM038W	746000179
<b>B</b> LSR Supply hose, Torch bracket, fixed	EA1400N	DIX 58SM001	746000211
LSR Supply hose, Torch bracket, fixed	EA1400N, AB, DB	DIX 58SM001AW	746000212
LSR Supply hose, Torch bracket, fixed	EA1400N, DB	DIX 58SM001W	746000213
LSR Supply hose, Torch bracket, fixed	EA1900N, AB	DIX 58SM002A	746000214
LSR Supply hose, Torch bracket, fixed	EA1400X	DIX 58SM016	746000215
LSR Supply hose, Torch bracket, fixed	MA3100	DIX 58SM031	746000216
LSR Supply hose, Torch bracket, fixed	MA3100, AB	DIX 58SM031A	746000217
LSR Supply hose, Torch bracket, fixed	MA3100, AB, DB	DIX 58SM031AW	746000218
LSR Supply hose, Torch bracket, fixed	MA3100, DB	DIX 58SM031W	746000219
LSR Supply hose, Torch bracket, fixed	MA1440	DIX 58SM035	746000220
LSR Supply hose, Torch bracket, fixed	MA1440, AB	DIX 58SM035A	746000221
LSR Supply hose, Torch bracket, fixed	MA1440, AB, DB	DIX 58SM035AW	746000222
LSR Supply hose, Torch bracket, fixed	MA1440, DB	DIX 58SM035W	746000223
LSR Supply hose, Torch bracket, fixed	MA2010	DIX 58SM038	746000224
LSR Supply hose, Torch bracket, fixed	MA2010, AB	DIX 58SM038A	746000225
LSR Supply hose, Torch bracket, fixed	MA2010, AB, DB	DIX 58SM038AW	746000226
LSR Supply hose, Torch bracket, fixed	MA2010, DB	DIX 58SM038W	746000227



# Changeable Supply hose with Power pin connection for Hollow wrist robots - gas cooled MIG/MAG



Description	Robot types	Part name	Part number
<b>OTC DAIHEN</b>			
<b>A</b> LSR Supply hose	AX-V4	DIX 58CD003	746000138
LSR Supply hose	AX-V4, AB	DIX 58CD003A	746000139
LSR Supply hose	AX-V4L	DIX 58CD022	746000140
LSR Supply hose	AX-V4L, AB	DIX 58CD022A	746000141
LSR Supply hose	All-B4	DIX 58CD025	746000142
LSR Supply hose	All-B4L	DIX 58CD026	746000143
LSR Supply hose	FD-N4	DIX 58CD036	746000144
LSR Supply hose	FD-N4, AB	DIX 58CD036A	746000145
LSR Supply hose	FD-N4, AB, DB	DIX 58CD036AW	746000146
LSR Supply hose	FD-NA, DB	DIX 58CD036W	746000147
LSR Supply hose	FD-B4L	DIX 58CD037	746000148
<b>PANASONIC</b>			
<b>A</b> LSR Supply hose	TM-1400/1100	DIX M58CP037	746000413
LSR Supply hose	TM-1400/1100, AB	DIX M58CP037A	746000414
LSR Supply hose	TM-1400/1100, AB, DB	DIX M58CP037AW	746000415
LSR Supply hose	TM-1400/1100, DB	DIX M58CP037W	746000416
LSR Supply hose	TM-1800	DIX M58CP039	746000417
LSR Supply hose	TM-1800, AB	DIX M58CP039A	746000418
LSR Supply hose	TM-1800, AB, DB	DIX M58CP039AW	746000419
LSR Supply hose	TM-1800, DB	DIX M58CP039W	746000420
LSR Supply hose	TM-1600	DIX M58CP040	746000421
LSR Supply hose	TM-1600, AB	DIX M58CP040A	746000422
LSR Supply hose	TM-1600, AB, DB	DIX M58CP040AW	746000423
LSR Supply hose	TM-1600, DB	DIX M58CP040W	746000424
LSR Supply hose	TM-2000, AB, MILLER	DIX M58CP041A	746000425
LSR Supply hose	TM-2000, AB, DB, MILLER	DIX M58CP041AW	746000426
LSR Supply hose	TM-2000, DB, MILLER	DIX M58CP041W	746000427
LSR Supply hose	TM-1400/1100	DIX P58CP037	746000455
LSR Supply hose	TM-1400/1100, AB	DIX P58CP037A	746000456
LSR Supply hose	TM-1400/1100, AB, DB	DIX P58CP037AW	746000457
LSR Supply hose	TM-1400/1100, DB	DIX P58CP037W	746000458
LSR Supply hose	TM-1800	DIX P58CP039	746000459
LSR Supply hose	TM-1800, AB	DIX P58CP039A	746000460
LSR Supply hose	TM-1800, AB, DB	DIX P58CP039AW	746000461
LSR Supply hose	TM-1800, DB	DIX P58CP039W	746000462
LSR Supply hose	TM-1600	DIX P58CP040	746000463
LSR Supply hose	TM-1600, AB	DIX P58CP040A	746000464
LSR Supply hose	TM-1600, AB, DB	DIX P58CP040AW	746000465
LSR Supply hose	TM-1600, DB	DIX P58CP040W	746000466
LSR Supply hose	TM-2000, AB	DIX P58CP041A	746000467
LSR Supply hose	TM-2000, AB, DB	DIX P58CP041AW	746000468
LSR Supply hose	TM-2000, DB	DIX P58CP041W	746000469

AB = Air blast function, DB = Wire brake



# Changeable Supply hose with Power pin connection for Hollow wrist robots - gas cooled MIG/MAG

Description	Robot types	Part name	Part number
<b>PANASONIC</b>			
<b>B</b> LSR Supply hose, Torch bracket, fixed	TM-1400/1100	DIX M58SP037	746000432
LSR Supply hose, Torch bracket, fixed	TM-1400/1100, AB	DIX M58SP037A	746000433
LSR Supply hose, Torch bracket, fixed	TM-1400/1100, AB, DB	DIX M58SP037AW	746000434
LSR Supply hose, Torch bracket, fixed	TM-1400/1100, DB	DIX M58SP037W	746000435
LSR Supply hose, Torch bracket, fixed	TM-1800	DIX M58SP039	746000436
LSR Supply hose, Torch bracket, fixed	TM-1800, AB	DIX M58SP039A	746000437
LSR Supply hose, Torch bracket, fixed	TM-1800, AB, DB	DIX M58SP039AW	746000438
LSR Supply hose, Torch bracket, fixed	TM-1800, DB	DIX M58SP039W	746000439
LSR Supply hose, Torch bracket, fixed	TM-1600	DIX M58SP040	746000440
LSR Supply hose, Torch bracket, fixed	TM-1600, AB	DIX M58SP040A	746000441
LSR Supply hose, Torch bracket, fixed	TM-1600, AB, DB	DIX M58SP040AW	746000442
LSR Supply hose, Torch bracket, fixed	TM-1600, DB	DIX M58SP040W	746000443
LSR Supply hose, Torch bracket, fixed	TM-2000, AB, MILLER	DIX M58SP041A	746000444
LSR Supply hose, Torch bracket, fixed	TM-2000, AB, DB, MILLER	DIX M58SP041AW	746000445
LSR Supply hose, Torch bracket, fixed	TM-2000, DB, MILLER	DIX M58SP041W	746000446
LSR Supply hose, Torch bracket, fixed	TM-1400/1100	DIX P58SP037	746000474
LSR Supply hose, Torch bracket, fixed	TM-1400/1100, AB	DIX P58SP037A	746000475
LSR Supply hose, Torch bracket, fixed	TM-1400/1100, AB, DB	DIX P58SP037AW	746000476
LSR Supply hose, Torch bracket, fixed	TM-1400/1100, DB	DIX P58SP037W	746000477
LSR Supply hose, Torch bracket, fixed	TM-1800	DIX P58SP039	746000478
LSR Supply hose, Torch bracket, fixed	TM-1800, AB	DIX P58SP039A	746000479
LSR Supply hose, Torch bracket, fixed	TM-1800, AB, DB	DIX P58SP039AW	746000480
LSR Supply hose, Torch bracket, fixed	TM-1800, DB	DIX P58SP039W	746000481
LSR Supply hose, Torch bracket, fixed	TM-1600	DIX P58SP040	746000482
LSR Supply hose, Torch bracket, fixed	TM-1600, AB	DIX P58SP040A	746000483
LSR Supply hose, Torch bracket, fixed	TM-1600, AB, DB	DIX P58SP040AW	746000484
LSR Supply hose, Torch bracket, fixed	TM-1600, DB	DIX P58SP040W	746000485
LSR Supply hose, Torch bracket, fixed	TM-2000, AB	DIX P58SP041A	746000486
LSR Supply hose, Torch bracket, fixed	TM-2000, AB, DB	DIX P58SP041AW	746000487
LSR Supply hose, Torch bracket, fixed	TM-2000, DB	DIX P58SP041W	746000488



# Changeable Supply hose with EURO connection for Hollow wrist robots - gas cooled MIG/MAG



## Application

- ▶ For DINSE by Tregaskiss Torch heads gas cooled  
DIX 405-22QC, DIX 405-22QCL, DIX 405-22QCL1,  
DIX 405-45QC, DIX 405-45QCL, DIX 405-45QCL1, DIX 405-45QCL2  
DIX 405-180QC
- ▶ With EURO Connection

**Hint:**  
Information to the appropriate liners and power pin connections you will find in Chapter ACCESSORIES.



Description	Robot types	Part name	Part number
<b>ABB</b>			
<b>B</b> LSR Supply hose, Torch bracket, fixed	EURO IRB1600ID	DIX E58SA024	746000330
LSR Supply hose, Torch bracket, fixed	EURO IRB2600ID	DIX E58SA028	746000331
LSR Supply hose, Torch bracket, fixed	EURO IRB1660ID	DIX E58SA030	746001415
LSR Supply hose, Torch bracket, fixed	EURO IRB1660ID, AB	DIX E58SA030A	746001416
LSR Supply hose, Torch bracket, fixed	EURO IRB1660ID, AB, DB	DIX E58SA030AW	746001417
LSR Supply hose, Torch bracket, fixed	EURO IRB1660ID, DB	DIX E58SA030W	746001418
<b>FANUC</b>			
<b>B</b> LSR Supply hose, Torch bracket, fixed	EURO 100IC	DIX E58SF005	746000332
LSR Supply hose, Torch bracket, fixed	EURO 100IC-8L	DIX E58SF010	746000337
LSR Supply hose, Torch bracket, fixed	EURO 100IC-8L, AB	DIX E58SF010A	746000338
LSR Supply hose, Torch bracket, fixed	EURO 100IC-8L, AB, DB	DIX E58SF010AW	746000339
LSR Supply hose, Torch bracket, fixed	EURO 100IC-8L, DB	DIX E58SF010W	746000340
LSR Supply hose, Torch bracket, fixed	EURO 100IC-8L	DIX E58SF210	746001419
LSR Supply hose, Torch bracket, fixed	EURO 100IC-8L, DB	DIX E58SF210W	746001420
<b>KAWASAKI</b>			
<b>A</b> LSR Supply hose, EURO	BA006N	DIX E58CKW042	746000313
LSR Supply hose, EURO	BA006N, AB	DIX E58CKW042A	746000314
LSR Supply hose, EURO	BA006N, AB, DB	DIX E58CKW042AW	746000315
LSR Supply hose, EURO	BA006N, DB	DIX E58CKW042W	746000316
<b>KUKA</b>			
<b>A</b> LSR Supply hose, EURO		DIX E58CK023	746000308
LSR Supply hose, EURO	KR16 HW	DIX E58CK030	746000309
LSR Supply hose, EURO	KR16 HW, AB	DIX E58CK030A	746000310
LSR Supply hose, EURO	KR16 HW, AB, DB	DIX E58CK030AW	746000311
LSR Supply hose, EURO	KR16 HW, DB	DIX E58CK030W	746000312
LSR Supply hose, EURO	KR6-R1820 HW	DIX E58CK031	746001394
LSR Supply hose, EURO	KR6-R1820 HW, AB	DIX E58CK031A	746001395
LSR Supply hose, EURO	KR6-R1820 HW, AB, DB	DIX E58CK031AW	746001396
LSR Supply hose, EURO	LKR6-R1820 HW, DB	DIX E58CK031W	746001397
LSR Supply hose, EURO	KR8-R1420 HW, R1620 HW	DIX E58CK032	746001398
LSR Supply hose, EURO	KR8-R1420 HW, R1620 HW, AB	DIX E58CK032A	746001399
LSR Supply hose, EURO	LKR8-R1420 HW, R1620 HW, AB, DB	DIX E58CK032AW	746001400
LSR Supply hose, EURO	KR8-R1420 HW, R1620 HW, DB	DIX E58CK032W	746001401

AB = Air blast function, DB = Wire brake





# Changeable Supply hose with EURO connection for Hollow wrist robots - gas cooled MIG/MAG

Description	Robot types	Part name	Part number
<b>KUKA</b>			
<b>B</b> LSR Supply hose, Torch bracket, fixed	EURO KR16 L8	DIX E58SK027	746000341
LSR Supply hose, Torch bracket, fixed	EURO KR16 L8, AB	DIX E58SK027A	746000342
LSR Supply hose, Torch bracket, fixed	EURO KR16 L8, AB, DB	DIX E58SK027AW	746000343
LSR Supply hose, Torch bracket, fixed	EURO KR16 L8, DB	DIX E58SK027W	746000344
LSR Supply hose, Torch bracket, fixed	EURO KR16 HW	DIX E58SK030	746000345
LSR Supply hose, Torch bracket, fixed	EURO KR16 HW, AB	DIX E58SK030A	746000346
LSR Supply hose, Torch bracket, fixed	EURO KR16 HW, AB, DB	DIX E58SK030AW	746000347
LSR Supply hose, Torch bracket, fixed	EURO KR16 HW, DB	DIX E58SK030W	746000348
LSR Supply hose, Torch bracket, fixed	EURO KR6-R1820 HW	DIX E58SK031	746001421
LSR Supply hose, Torch bracket, fixed	EURO KR6-R1820 HW, AB	DIX E58SK031A	746001422
LSR Supply hose, Torch bracket, fixed	EURO KR6-R1820 HW, AB, DB	DIX E58SK031AW	746001423
LSR Supply hose, Torch bracket, fixed	EURO KR6-R1820 HW, DB	DIX E58SK031W	746001424
LSR Supply hose, Torch bracket, fixed	EURO KR8-R1420 HW, R1620 HW	DIX E58SK032	746001425
LSR Supply hose, Torch bracket, fixed	EURO KR8-R1420 HW, R1620 HW, AB	DIX E58SK032A	746001426
LSR Supply hose, Torch bracket, fixed	EURO KR8-R1420 HW, R1620 HW, AB, DB	DIX E58SK032AW	746001427
LSR Supply hose, Torch bracket, fixed	EURO KR8-R1420 HW, R1620 HW, DB	DIX E58SK032W	746001428
<b>MOTOMAN</b>			
<b>A</b> LSR Supply hose, EURO	EA1400N	DIX E58CM001	746000317
LSR Supply hose, EURO	EA1400N, AB	DIX E58CM001A	746000318
LSR Supply hose, EURO	EA1900N	DIX E58CM002	746000319
LSR Supply hose, EURO	EA1900N, AB	DIX E58CM002A	746000320
LSR Supply hose, EURO	EA1400X	DIX E58CM016	746001402
LSR Supply hose, EURO	EA1900X	DIX E58CM017	746000321
LSR Supply hose, EURO	MA3100	DIX E58CM031	746001403
LSR Supply hose, EURO	MA3100, AB	DIX E58CM031A	746001404
LSR Supply hose, EURO	MA3100, AB, DB	DIX E58CM031AW	746001405
LSR Supply hose, EURO	MA3100, DB	DIX E58CM031W	746001406
LSR Supply hose, EURO	MA1440	DIX E58CM035	746000322
LSR Supply hose, EURO	MA1440, AB	DIX E58CM035A	746000323
LSR Supply hose, EURO	MA1440, AB, DB	DIX E58CM035AW	746000324
LSR Supply hose, EURO	MA1440, DB	DIX E58CM035W	746000325
LSR Supply hose, EURO	MA2010	DIX E58CM038	746000326
LSR Supply hose, EURO	MA2010, AB	DIX E58CM038A	746000327
LSR Supply hose, EURO	MA2010, AB, DB	DIX E58CM038AW	746000328
LSR Supply hose, EURO	MA2010, DB	DIX E58CM038W	746000329



# Changeable Supply hose with EURO connection for Hollow wrist robots - gas cooled MIG/MAG



Description	Robot types	Part name	Part number
<b>MOTOMAN</b>			
<b>B</b> LSR Supply hose, Torch bracket, fixed	EURO MA3100	DIX E58SM031	746000349
LSR Supply hose, Torch bracket, fixed	EURO MA3100, AB	DIX E58SM031A	746000350
LSR Supply hose, Torch bracket, fixed	EURO MA3100, AB, DB	DIX E58SM031AW	746000351
LSR Supply hose, Torch bracket, fixed	EURO MA3100, DB	DIX E58SM031W	746000352
LSR Supply hose, Torch bracket, fixed	EURO MA1440	DIX E58SM035	746000353
LSR Supply hose, Torch bracket, fixed	EURO MA1440, AB	DIX E58SM035A	746000354
LSR Supply hose, Torch bracket, fixed	EURO MA1440, AB, DB	DIX E58SM035AW	746000355
LSR Supply hose, Torch bracket, fixed	EURO MA1440, DB	DIX E58SM035W	746000356
LSR Supply hose, Torch bracket, fixed	EURO MA2010	DIX E58SM038	746000357
LSR Supply hose, Torch bracket, fixed	EURO MA2010, AB	DIX E58SM038A	746000358
LSR Supply hose, Torch bracket, fixed	EURO MA2010, AB, DB	DIX E58SM038AW	746000359
LSR Supply hose, Torch bracket, fixed	EURO MA2010, DB	DIX E58SM038W	746000360
<b>PANASONIC</b>			
<b>A</b> LSR Supply hose, EURO	TM-1400	DIX E58CP037	746001407
LSR Supply hose, EURO	TM-1400, AB	DIX E58CP037A	746001408
LSR Supply hose, EURO	TM-1400, AB, DB	DIX E58CP037AW	746001409
LSR Supply hose, EURO	TM-1400, DB	DIX E58CP037W	746001410
LSR Supply hose, EURO	TM-1800	DIX E58CP039	746001411
LSR Supply hose, EURO	TM-1800, AB	DIX E58CP039A	746001412
LSR Supply hose, EURO	TM-1800, AB, DB	DIX E58CP039AW	746001413
LSR Supply hose, EURO	TM-1800, DB	DIX E58CP039W	746001414
<b>B</b> LSR Supply hose, Torch bracket, fixed	EURO TM-1400	DIX E58SP037	746001429
LSR Supply hose, Torch bracket, fixed	EURO TM-1400, AB	DIX E58SP037A	746001430
LSR Supply hose, Torch bracket, fixed	EURO TM-1400, AB, DB	DIX E58SP037AW	746001431
LSR Supply hose, Torch bracket, fixed	EURO TM-1400, DB	DIX E58SP037W	746001432

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3



AB = Air blast function, DB = Wire brake



## Control wire

Description	Part name	Part number
Control wire	DIX AS-714-19	746001290
Control wire	DIX AS-714-24	746001295
Control wire	DIX AS-714-26	746001297

## Air blast function

Description	Part name	Part number
Air blast kit	DIX 508-A	746000940
Air blast function / compressed air plug	DIX 408-200-9A	746000780

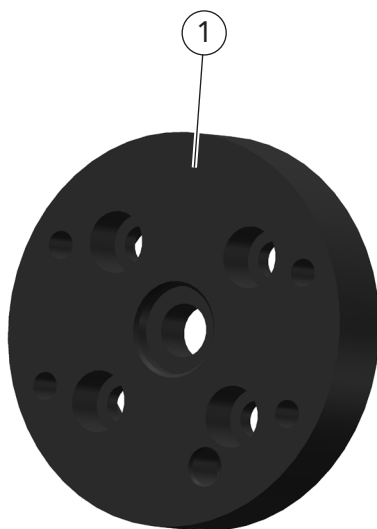
## Spare parts for Wire brake

Description	Part name	Part number
Key for Wire brake	DIX 450-17	746000924
Wire brake, 1.2 mm	DIX 598-045	746000931
Wire brake, 1.6 mm	DIX 598-116	746000932
Pressure hose, 4.50 m	DIX 499-9-15	746000933





# Adapter flanges for TOUGH GUN™ CA3 DIX 59Dxx



	Description	Robot type	Part name	Part number
<b>ABB</b>				
1	Flange	IRB 1400	DIX 59D01	746000228
	Flange	M97A	DIX 59D01	746000228
	Flange	2400L	DIX 59D01	746000228
	Flange	RB 6	DIX 59D02	746000229
	Flange	1400	DIX 59D02	746000229
	Flange	1410	DIX 59D02	746000229
	Flange	1500	DIX 59D02	746000229
	Flange	2000	DIX 59D02	746000229
	Flange	2400	DIX 59D02	746000229
	Flange	IRB 2400/10	DIX 59D04	746000231
	Flange	IRB 2400/16	DIX 59D04	746000231
	Flange	IRB 4400L	DIX 59D04	746000231
<b>FANUC</b>				
1	Flange	100	DIX 59D02	746000229
	Flange	100i	DIX 59D02	746000229
	Flange	120i	DIX 59D02	746000229
	Flange	S-6	DIX 59D02	746000229
	Flange	M710-20L	DIX 59D02	746000229
	Flange	M16-iB	DIX 59D02	746000229
	Flange	ARCMATE 50iB	DIX 59D05	746000232
<b>HITACHI</b>				
1	Flange	M5030	DIX 59D01	746000228
	Flange	M6030	DIX 59D01	746000228
<b>HYUNDAI</b>				
1	Flange	ALLE	DIX 59D09	746000236
<b>KAWASAKI</b>				
1	Flange	JS06	DIX 59D01	746000228
	Flange	JS06L	DIX 59D01	746000228
	Flange	FS06	DIX 59D01	746000228
	Flange	FS06N	DIX 59D01	746000228
	Flange	FS06L	DIX 59D01	746000228
<b>KUKA</b>				





# Adapter flange for TOUGH GUN™ CA3 DIX 59Dxx

	Description	Robot type	Part name		Part number
1	Flange	ALLE	DIX	59D06	746000233
<b>MILLER</b>					
1	Flange	MRV-6	DIX	59D01	746000228
	Flange	MRV-2	DIX	59D02	746000229
<b>MOTOMAN</b>					
1	Flange	K6	DIX	59D01	746000228
	Flange	K6SB	DIX	59D01	746000228
	Flange	K10	DIX	59D01	746000228
	Flange	SK16X	DIX	59D01	746000228
	Flange	UP20	DIX	59D01	746000228
	Flange	MRV6	DIX	59D01	746000228
	Flange	SK6	DIX	59D02	746000229
	Flange	SK16	DIX	59D02	746000229
	Flange	UP6	DIX	59D02	746000229
	Flange	MH5	DIX	59D07	746000234
	Flange	MH5S	DIX	59D08	746000235
	Flange	MH5LS	DIX	59D08	746000235
<b>OTC</b>					
1	Flange	MRV-6	DIX	59D02	746000229
	Flange	EX-V6	DIX	59D02	746000229
	Flange	EX-V6L	DIX	59D02	746000229
	Flange	EX-V16	DIX	59D02	746000229
	Flange	DR-4400	DIX	59D02	746000229
	Flange	DR-4000	DIX	59D02	746000229
	Flange	DR-4200	DIX	59D02	746000229
<b>PANASONIC</b>					
1	Flange	VR-004	DIX	59D03	746000230
	Flange	VR-008A	DIX	59D03	746000230
	Flange	VR-006A	DIX	59D03	746000230
	Flange	VR-005C	DIX	59D03	746000230
	Flange	VR-006ALII	DIX	59D03	746000230
	Flange	AW-010A	DIX	59D03	746000230
	Flange	AW-8010	DIX	59D03	746000230
	Flange	AW-005A	DIX	59D03	746000230
	Flange	AW-005C	DIX	59D03	746000230
	Flange	AW-005CL	DIX	59D03	746000230
	Flange	AW-006A	DIX	59D03	746000230
	Flange	VR-006AL	DIX	59D03	746000230
	Flange	VR-16	DIX	59D03	746000230
	Flange	TW MODELS	DIX	59D03	746000230
	Flange	TA MODELS	DIX	59D03	746000230
<b>STAUBLI</b>					
1	Flange	RX90	DIX	59D01	746000228

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# Intermediate flange for TOUGH GUN™ CA3 DIX 59DT-00x



Benennung	Robotertyp	Bestellbezeichnung	Artikelnummer
<b>COMAU</b>			
Intermediate flange	SMART	DIX 59DT-004	746000239
<b>FANUC</b>			
Intermediate flange	120IC	DIX 59DT-003	746000238
<b>KUKA</b>			
Intermediate flange	KR	DIX 59DT-006	746000241
<b>MOTOMAN</b>			
Intermediate flange	MH-50	DIX 59DT-001	746000236
Intermediate flange	EA SERIES	DIX 59DT-002	746000237
<b>PANASONIC</b>			
Intermediate flange	TM-1400	DIX 59DT-005	746000240

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3

# Adapter flange for TOUGH GUN™ TA3 DIX AS11x-x and DIX 560-500-11



Description	Part name	Part number
<b>FANUC</b>		
1 Flange	DIX 560-500-11	746000130
<b>KUKA</b>		
1 Flange	DIX AS-114-6	746001508
<b>MOTOMAN</b>		
1 Flange	DIX AS-114-1	746000251
<b>OTC</b>		
1 Flange	DIX AS-116-1	746001510
<b>Panasonic</b>		
1 Flange	DIX AS-115-1	746001509





## Intermediate flange for TOUGH GUN™ TA3 with Shock sensor DIX AS-11x-x

Description	Robot type	Part name	Part number
<b>COMAU</b>			
Intermediate flange	Arc4	DIX AS-114-10	746001506
Intermediate flange	Smart5	DIX AS-114-10	746001506
<b>KUKA</b>			
Intermediate flange	KR16 arc HW	DIX AS-114-9	746000256
<b>MOTOMAN</b>			
Intermediate flange	MA1440	DIX AS-114-13	746000253
Intermediate flange	MA2010	DIX AS-114-13	746000253
<b>OTC</b>			
Intermediate flange	All-B4	DIX AS-116-2	746000257
Intermediate flange	All-B4L	DIX AS-116-2	746000257
<b>PANASONIC</b>			
Intermediate flange	TM-1400	DIX AS-114-11	746000252

## Intermediate flange for TOUGH GUN™ TA3 with Torch bracket, fixed DIX AS-11x-x

Description	Robot type	Part name	Part number
<b>ABB</b>			
Intermediate flange	IRB1600ID	DIX AS-114-7	746000254
Intermediate flange	IRB2600ID	DIX AS-114-8	746000255
<b>KUKA</b>			
Intermediate flange	KR16 arc HW	DIX AS-114-9	746000256
<b>Kawasaki</b>			
Intermediate flange	BA006N	DIX AS-114-15	746001507
<b>PANASONIC</b>			
Intermediate flange	TM-1400	DIX AS-114-11	746000252



# AUTOLENGTH™ PINS FOR QUICK LOAD™ Liner

## AUTOLENGTH SYSTEM

### For TOUGH GUN™ CA3 and TOUGH GUN™ TA3



Description	QUICK LOAD™ LINER	Part name	Part number
<b>EURO</b>			
1 AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 425-820	746000911
AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 425-920	746000914
<b>FRONIUS</b>			
1 AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 214-817	746000523
AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 214-841	746000531
AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 214-917	746000538
AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 214-941	746000545
<b>L-TEC</b>			
1 AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 214-84	746000529
AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 214-94	746000543
<b>LINCOLN</b>			
1 AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 214-840	746000530
AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 214-87	746000533
AUTOLENGTH™ PIN	1.30 mm-2.40 mm	DIX 214-940	746000544
AUTOLENGTH™ PIN	1.30 mm-2.40 mm	DIX 214-97	746000547
<b>MILLER</b>			
1 AUTOLENGTH™ PIN	1.30 mm-2.40 mm	DIX 214-81	746000520
AUTOLENGTH™ PIN	1.30 mm-2.40 mm	DIX 214-91	746000535
<b>OTC DAIHEN</b>			
1 AUTOLENGTH™ PIN	1.30 mm-2.40 mm	DIX 214-839	746000528
<b>PANASONIC</b>			
1 AUTOLENGTH™ PIN	1.30 mm-2.40 mm	DIX 214-830	746000526
AUTOLENGTH™ PIN	1.30 mm-2.40 mm	DIX 214-930	746000541
<b>TWECO 4</b>			
1 AUTOLENGTH™ PIN	1.30 mm-2.40 mm	DIX 214-80	746000519
AUTOLENGTH™ PIN	0.80 mm-1.20 mm	DIX 214-90	746000534
<b>TWECO 5</b>			
1 AUTOLENGTH™ PIN	1.30 mm-2.40 mm	DIX 214-812	746000521
AUTOLENGTH™ PIN	1.30 mm-2.40 mm	DIX 214-912	746000536

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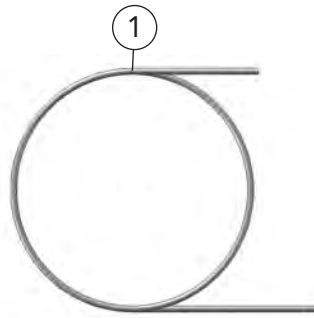
# Power pins

## For TOUGH GUN™ CA3 and TOUGH GUN™ TA3



Description	Part name	Part number
<b>EURO connection</b>		
1 Power Pin	DIX 425-20E	746000121
<b>FRONIUS</b>		
1 Power Pin	DIX 214-17	746000003
<b>L-Tec EURO connection</b>		
1 Power Pin	DIX 425E	746000122
<b>LINCOLN</b>		
1 Power Pin	DIX 214-7	746000008
Power Pin (short)	DIX 214-40	746000006
<b>MILLER</b>		
1 Power Pin	DIX 214-1	746000001
<b>OTC</b>		
1 Power Pin	DIX 214-39	746000005
<b>PANASONIC</b>		
1 Power Pin	DIX 214-13	746000507
<b>TWECO #4</b>		
1 Power Pin	DIX ADT1	746001233
<b>TWECO #5</b>		
1 Power Pin	DIX 214-12	746000002

## Conventional Liner



Description	Dimension ID, length	Part name	Part number
1 Liner	0.8 mm, 1.82 m	DIX 415-30-6	746000104
Liner	0.8 mm, 4.50 m	DIX 415-30-15	746000102
Liner	0.9 - 1.2 mm, 1.82 m	DIX 415-35-6	746000114
Liner	0.9 - 1.2 mm, 3.00 m	DIX 415-35-10	746000110
Liner	0.9 - 1.2 mm, 4.50 m	DIX 415-35-15	746000112
Liner	1.2 - 1.6 mm, 1.82 m	DIX 415-116-6	746000098
Liner	1.2 - 1.6 mm, 3.00 m	DIX 415-116-10	746000094
Liner	1.2 - 1.6 mm, 4.50 m	DIX 415-116-15	746000096
Liner	1.6 - 2.0 mm, 1.82 m	DIX 415-564-6	746000118
Liner	1.6 - 2.0 mm, 4.50 m	DIX 415-564-15	746000116
Liner	2.4 mm, 1.82 m	DIX 415-332-6	746000108
Liner	2.4 mm, 4.50 m	DIX 415-332-15	746000106



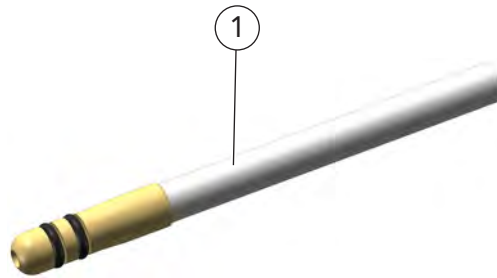
# JUMP Liner

Required for wire brake, when using conventional liners.



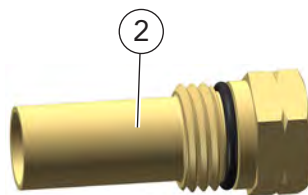
Description	Dimension ID	Part name	Part number
JUMP Liner for Wire brake	0.9 - 1.2 mm	DIX 495-18-35	746001500
JUMP Liner for Wire brake	1.3 - 1.6 mm	DIX 495-18-116	746001499

# QUICK LOAD™ Liner



Description	Dimension ID, length	Part name	Part number
1 QUICK LOAD™ Liner	0.8 mm, 1.82 m	DIX 415-30-6Q	746000105
QUICK LOAD™ Liner	0.8 mm, 4.50 m	DIX 415-30-15Q	746000103
QUICK LOAD™ Liner	0.9 - 1.2 mm, 1.82 m	DIX 415-35-6Q	746000115
QUICK LOAD™ Liner	0.9 - 1.2 mm, 3.00 m	DIX 415-35-10Q	746000111
QUICK LOAD™ Liner	0.9 - 1.2 mm, 4.50 m	DIX 415-35-15Q	746000113
QUICK LOAD™ Liner	1.2 - 1.6 mm, 1.82 m	DIX 415-116-6Q	746000099
QUICK LOAD™ Liner	1.2 - 1.6 mm, 3.00 m	DIX 415-116-10Q	746000095
QUICK LOAD™ Liner	1.2 - 1.6 mm, 4.50 m	DIX 415-116-15Q	746000097
QUICK LOAD™ Liner	1.6 - 2.0 mm, 1.82 m	DIX 415-564-6Q	746000119
QUICK LOAD™ Liner	1.6 - 2.0 mm, 4.50 m	DIX 415-564-15Q	746000117
QUICK LOAD™ Liner	2.4 mm, 1.82 m	DIX 415-332-6Q	746000109
QUICK LOAD™ Liner	2.4 mm, 4.50 m	DIX 415-332-15Q	746000107

# QUICK LOAD™ Retainer

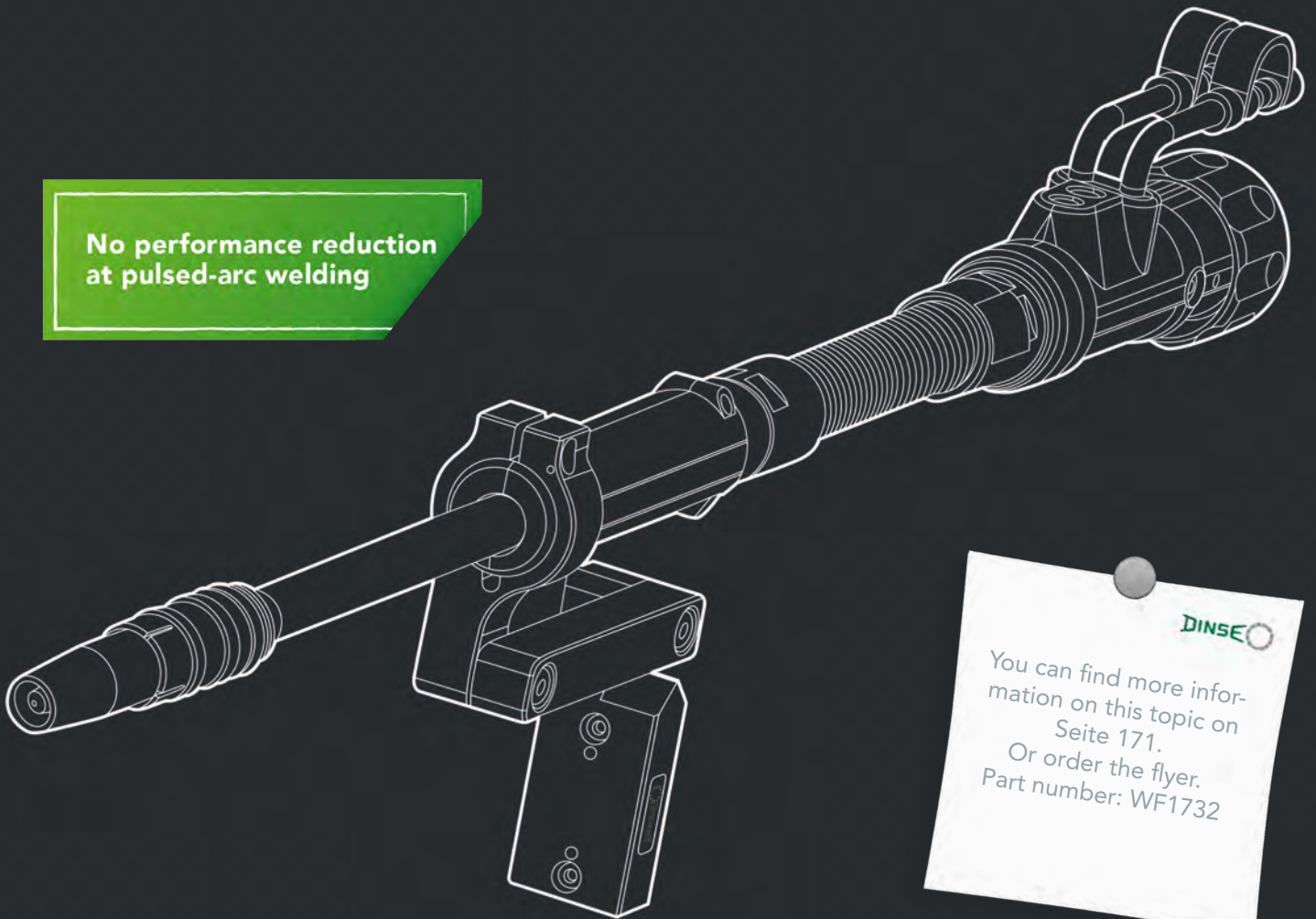


Description	Dimension ID	Part name	Part number
2 Retainer for QUICK LOAD™ Liner	0.8 - 2.0 mm	DIX 415-26	746000101
Retainer for QUICK LOAD™ Liner	2.4 mm	DIX 415-24	746000100



# SEMI-AUTOMATIC WELDING AT THE HIGHEST LEVEL

No performance reduction  
at pulsed-arc welding



## M.FLEX

450 A / WIRE DIAMETER UP TO 1.6mm

The fixed torch set for maximum productivity:

- ▶ Excellent gas coverage and splendid weld seams with special cooling jacket
- ▶ Gas savings thanks to separate gas routing up to the gas distributor
- ▶ High deposition rate and faster welding possible by long stick-out
- ▶ Long service life thanks to consumables designed for robot welding
- ▶ Excellent heat reduction due to DINSE dual-circuit liquid cooling
- ▶ Closed cooling circuit allows replacement of consumables without leakage
- ▶ Particularly suitable for welding tractors, application and longitudinal seam welding





04  
TICG

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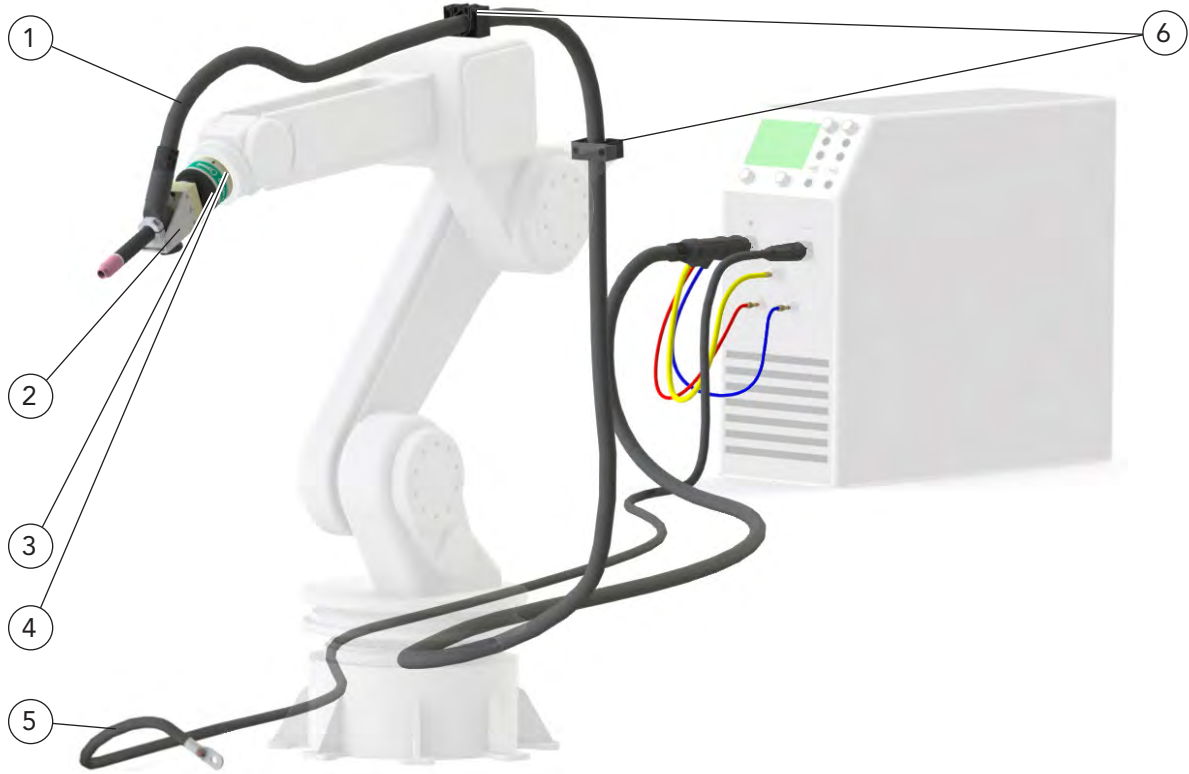
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# TIG welding package 1

Example equipment non separable without welding wire up to 400 A



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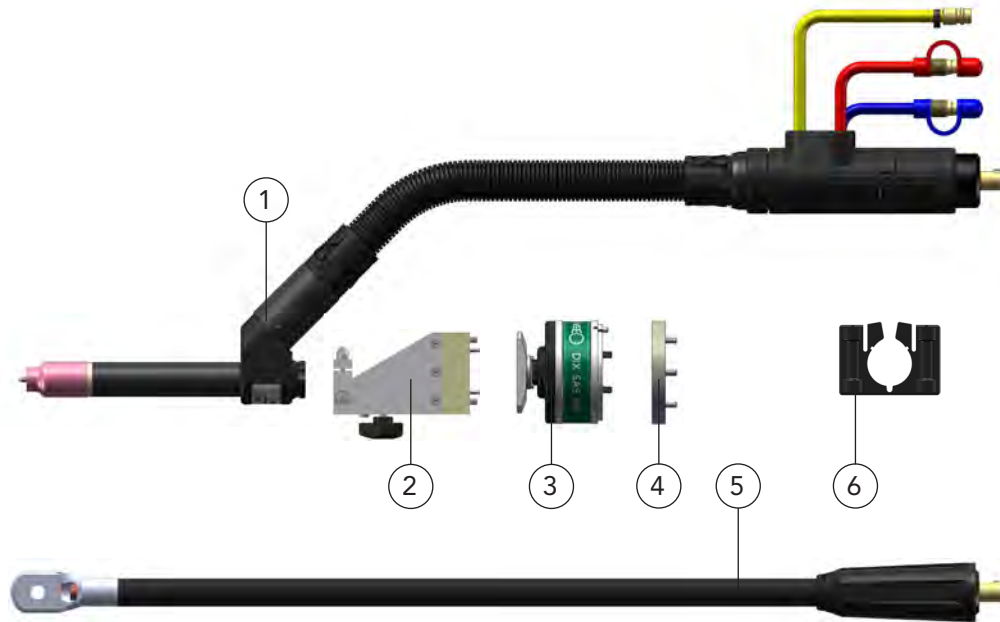
TIG Automation



The example systems shown here and on the following pages are modular and can be individually adapted to your needs. Your DINSE expert will be happy to advise you.

# TIG welding package 1

Example equipment non separable without welding wire up to 400 A



Description	Part name	Part number
1 Torch head with non separable torch set, see page 238	DIX TAZ 8000-__ ZAW	64050081__
2 Torch bracket, swiveling, see page 259	DIX PHAT 4-0400	6481950400
3 Shock sensor, see page 260	DIX SAS 100	683100001
4 Adapter flange, depends on robot type, see from page 287	DIX ADF 6-__	683116-__
5 Ground cable, cross section 95mm <sup>2</sup> , see page 325	DIX GL-__/95	74100895__
6 Bracket*, for torch set with nominal width 29 mm, see page 309	DIX VLH 29	62923550413
Pressure regulator*, 0-20 l/min for sampling points, not shown, see page 324	DIX DRV-200	628080200

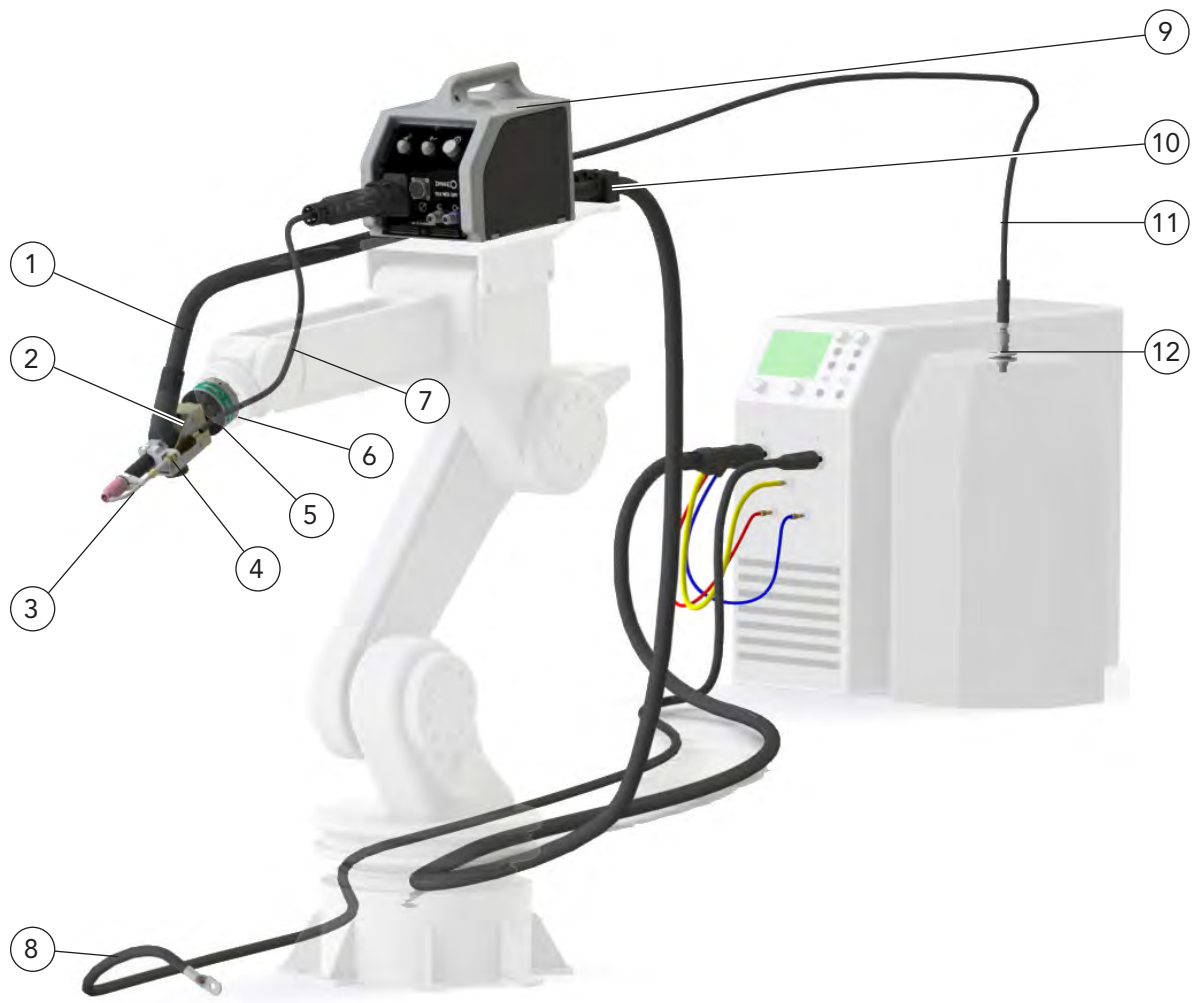
\* Optionally accessories





## TIG welding package 2

Example equipment non separable with welding wire fed in from the outside up to 400 A



4

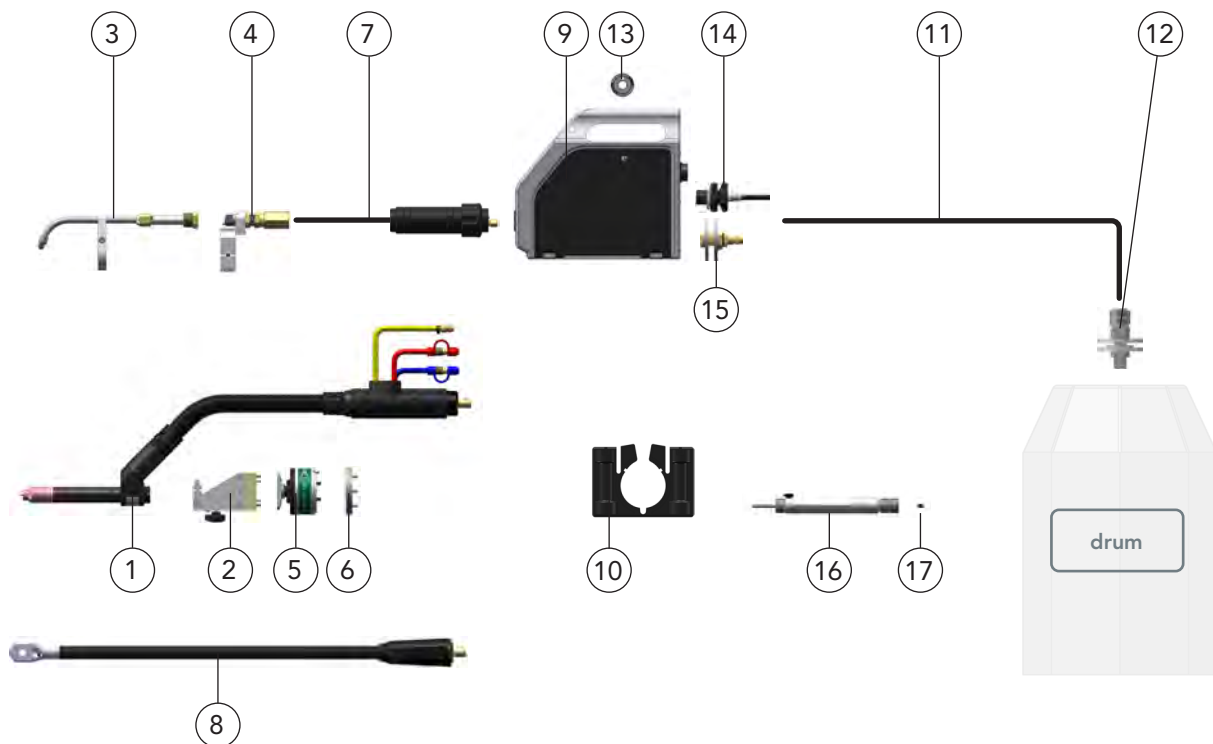
TIG Automation



# TIG welding package 2



## Example equipment non separable with welding wire fed in from the outside up to 400 A



Description	Part name	Part number
1 Torch head with non separable torch set, see page 236	DIX TAZ 400-__ ZAW	64050041__
2 Torch bracket, swiveling, see page 259	DIX PHAT 4-0400	6481950400
3 Cold wire set, see page 250	DIX KD 400	648540001
4 Cold wire - adapter connection, see page 250	DIX KA 400	648594011
5 Shock sensor, see page 260	DIX SAS 100	683100001
6 Adapter flange, depends on robot type, see from page 287	DIX ADF 6-__	683116-__
7 Torch set for welding wire feed, with EURO central connection, Length depends on robot type		
8 Ground cable, cross section 95mm <sup>2</sup> , see page 325	DIX GL-__/95	74100895-__
9 Wire feeder*, with EURO central connection, see page 319	DIX WD 300/PI WIG	7410040182
10 Bracket*, for torch sets with nominal width 29 mm, see page 309	DIX VLH 29	62923550413
11 Quick release system*, pos. 14 necessary	DIX WDX 108-__	7381200-__
Supraliner*, pos. 15 necessary, see page 312	DIX VLSL 201-__	6292140-__ 0
12 Connection set drum*	DIX WB-CS	738100011
13 Drive roll*, for 1.0 mm wire diameter, steel, see page 322	DIX DV-04-10/10 T	719042100
14 Connection*, for wire feeder combined with quick release system	DIX WDX 109 WD 300	738131003
15 Connection*, for wire feeder combined with Supraliner, see page 313	DIX SF-DV	629201407
16 Adjusting gauge*	DIX EL 400	6480200000
17 Clamping sleeve*	DIX SH 400-3.2	6480500320
Pressure regulator*, 0-20 l/min for sampling points, not shown, see page 324	DIX DRV-200	628080200
Tungsten needle, not shown	DIX WL 15 Gold Ø 3.2x175 mm	7420900016
Liner or capillary liner, not shown depends on the welding application, see page 388 or page 390		

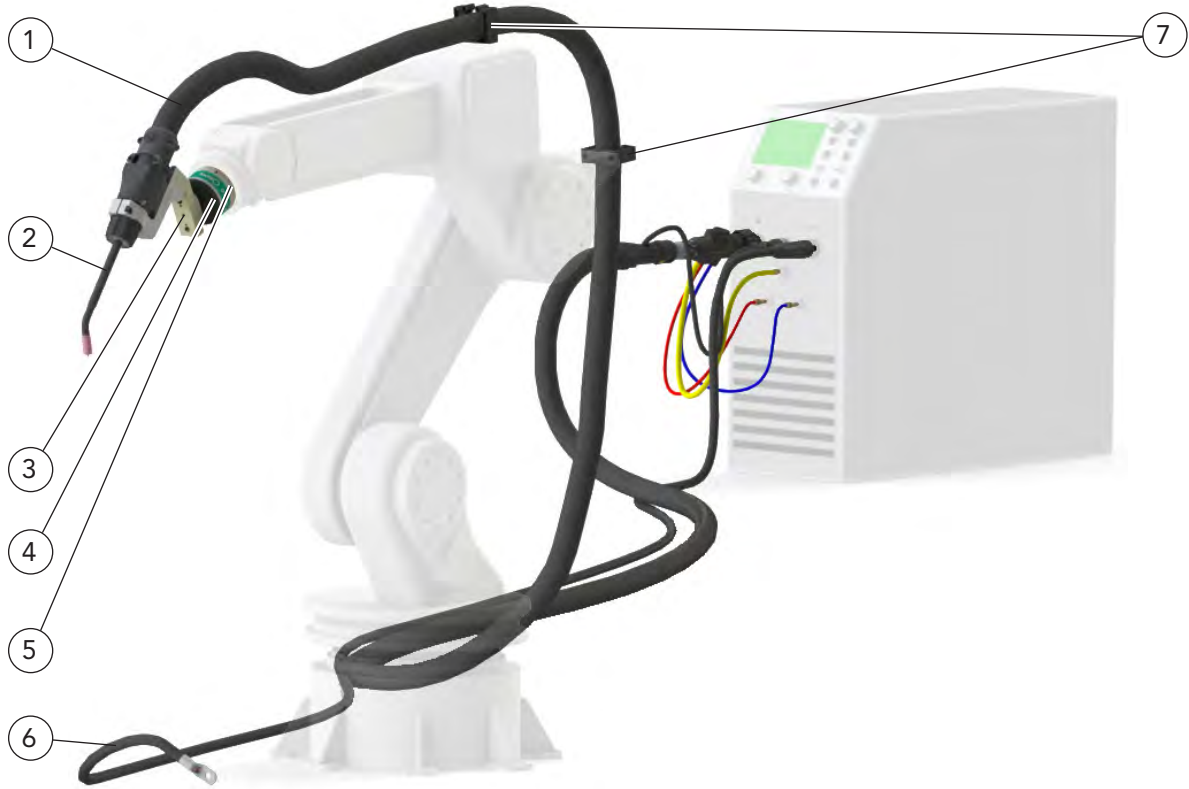
\* Optionally accessories





# TIG welding package 3

## Example equipment separable without welding wire up to 300 A



4

TIG Automation

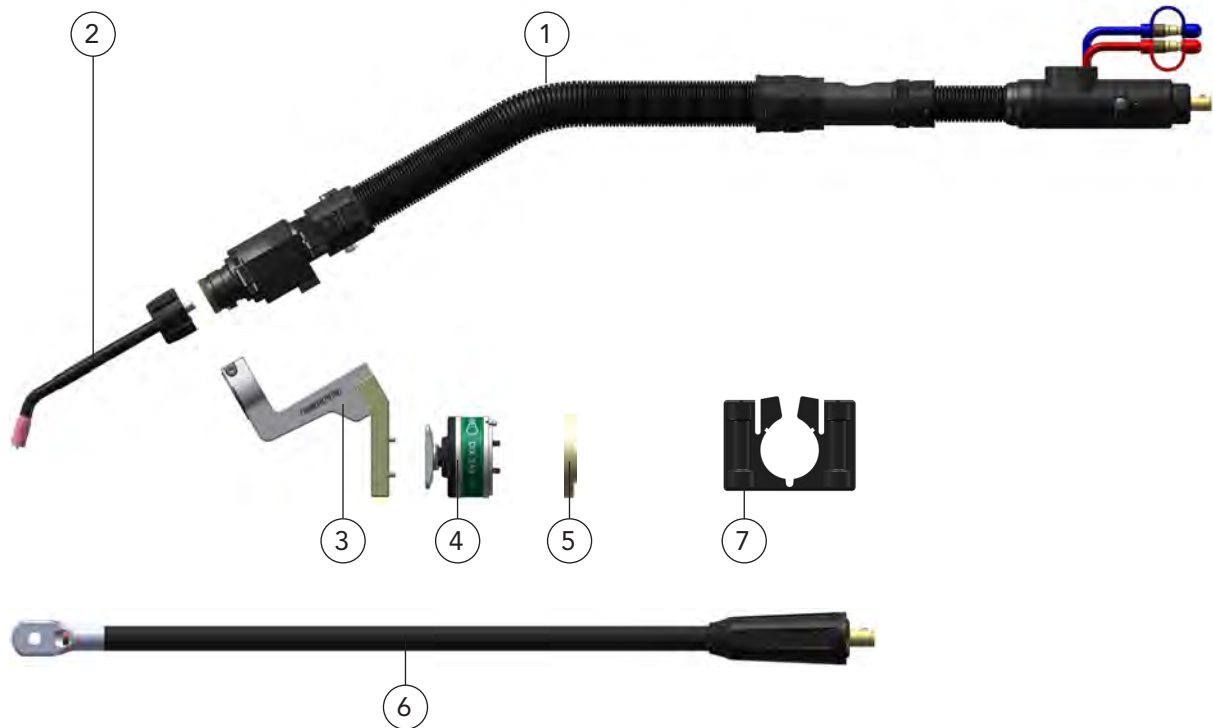




# TIG welding package 3



## Example equipment separable without welding wire up to 300 A



Description	Part name	Part number
1 Torch set	DIX TETZ 600-__ ZAW	640610-__
2 Torch head, see page 246	DIX TETZ 7545	649067545
3 Torch bracket, see page 258	DIX PHF 112	683500112
4 Shock sensor, see page 260	DIX SAS 100	683100001
5 Adapter flange, depends on robot type, see from page 287	DIX ADF 6-__	683116-__
6 Ground cable, cross section 70mm <sup>2</sup> , see page 325	DIX GL-__/70	7410087-__
7 Bracket*, for torch sets with nominal width 42 mm, see page 309	DIX VLH 42	62923550214
Pressure regulator*, 0-20 l/min for sampling points, not shown, see page 324	DIX DRV-200	628080200

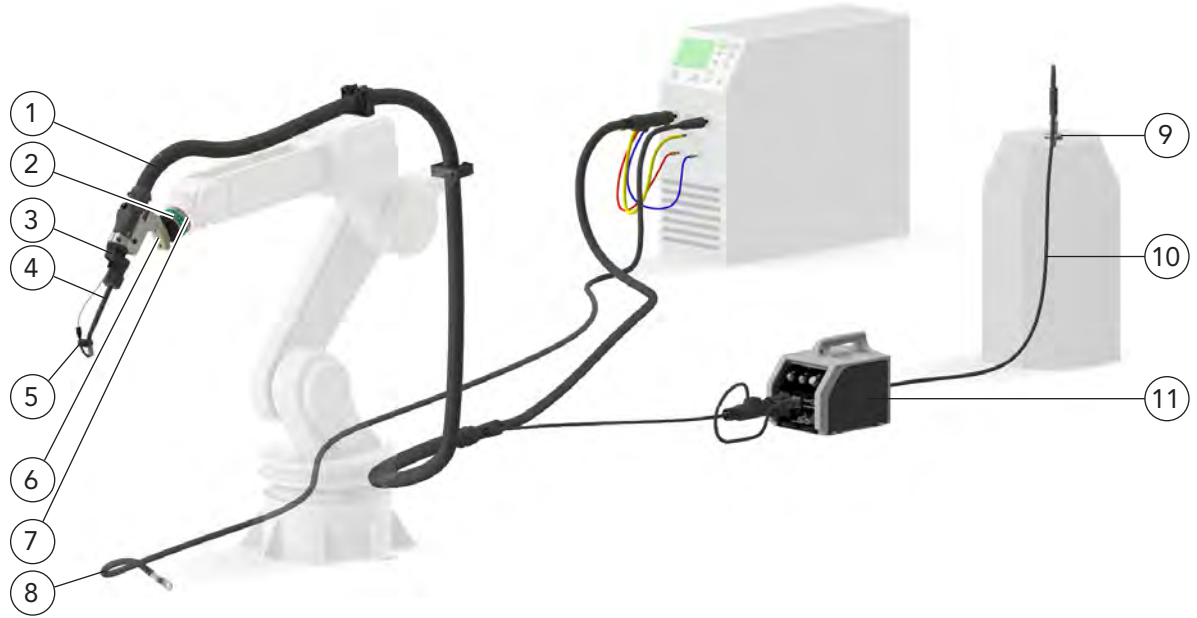
\* Optionally accessories





# TIG welding package 4

Example equipment separable with splitted torch set and inside fed welding wire up to 300 A



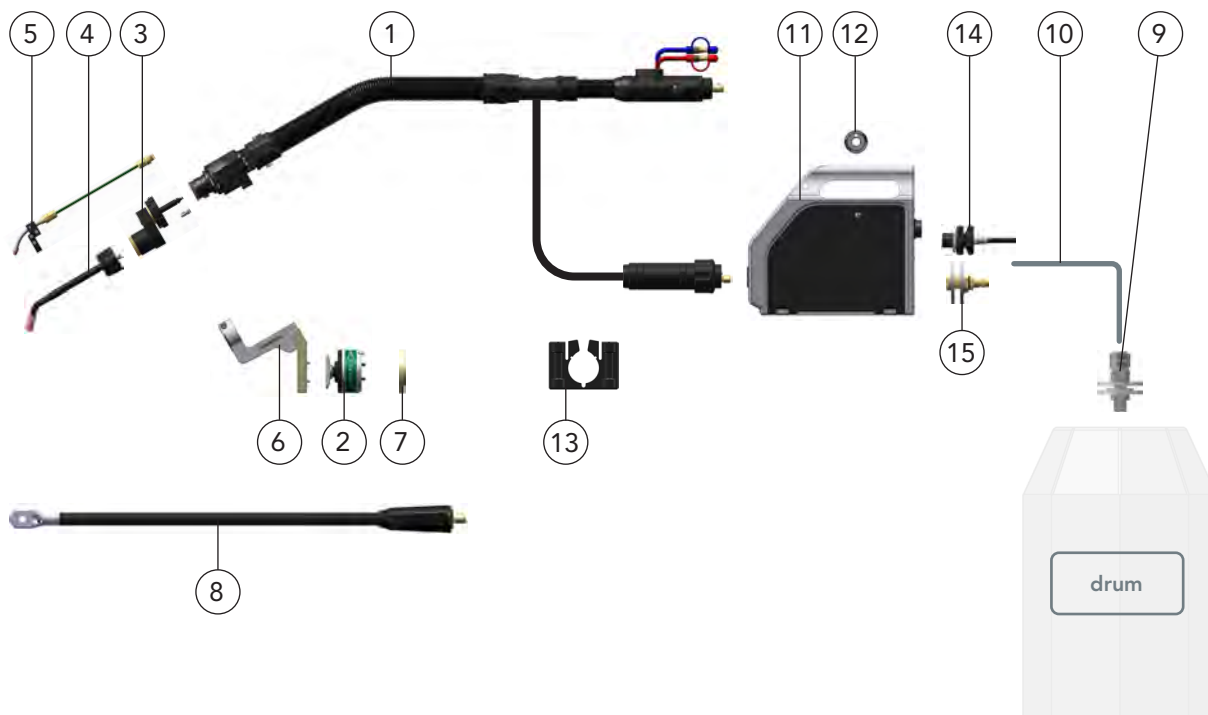
4

TIG Automation



# TIG welding package 4

## Example equipment separable with splitted torch set and inside fed welding wire up to 300 A



Description	Part name	Part number
1 Torch set, splitted version	DIX TETZ 601-x ZAW	
2 Shock sensor, see page 260	DIX SAS 100	683100001
3 Torch body, see page 256	DIX MEK 8500	6310158500
4 Torch head, see page 246	DIX TETZ 7545	649067545
5 Cold wire set, see page 254	DIX KD 7500	648597500
6 Torch bracket, see page 258	DIX PHF 112	683500112
7 Adapter flange, depends on robot type, see from page 287	DIX ADF 6_ _ _	683116_ _ _
8 Ground cable, cross section 70mm <sup>2</sup> , see page 325	DIX GL- _ _/70	7410087_ _ _
9 Connection set drum*	DIX WB-CS	738100011
10 Quick release system*, pos. 14 necessary	DIX WDX 108- _ _	7381200_ _
Supraliner*, pos. 15 necessary, see page 312	DIX VLSL 201- _ _	6292140_ _ 0
11 Wire feeder*, with EURO central connection, see page 319	DIX WD 300/PI WIG	7410040182
12 Drive roll*, for 1.0 mm wire diameter, steel, see page 322	DIX DV-04-10/10 T	719042100
13 Bracket*, for torch sets with nominal width 42 mm, see page 309	DIX VLH 42	62923550214
14 Connection*, for wire feeder combined with quick release system	DIX WDX 109 WD 300	738131003
15 Connection*, for wire feeder combined with Supraliner, see page 313	DIX SF-DV	629201407
Pressure regulator*, 0-20 l/min for sampling points, not shown, see page 324	DIX DRV-200	628080200

Liner or capillary liner, not shown  
depends on the welding application, see page 388 or page 390

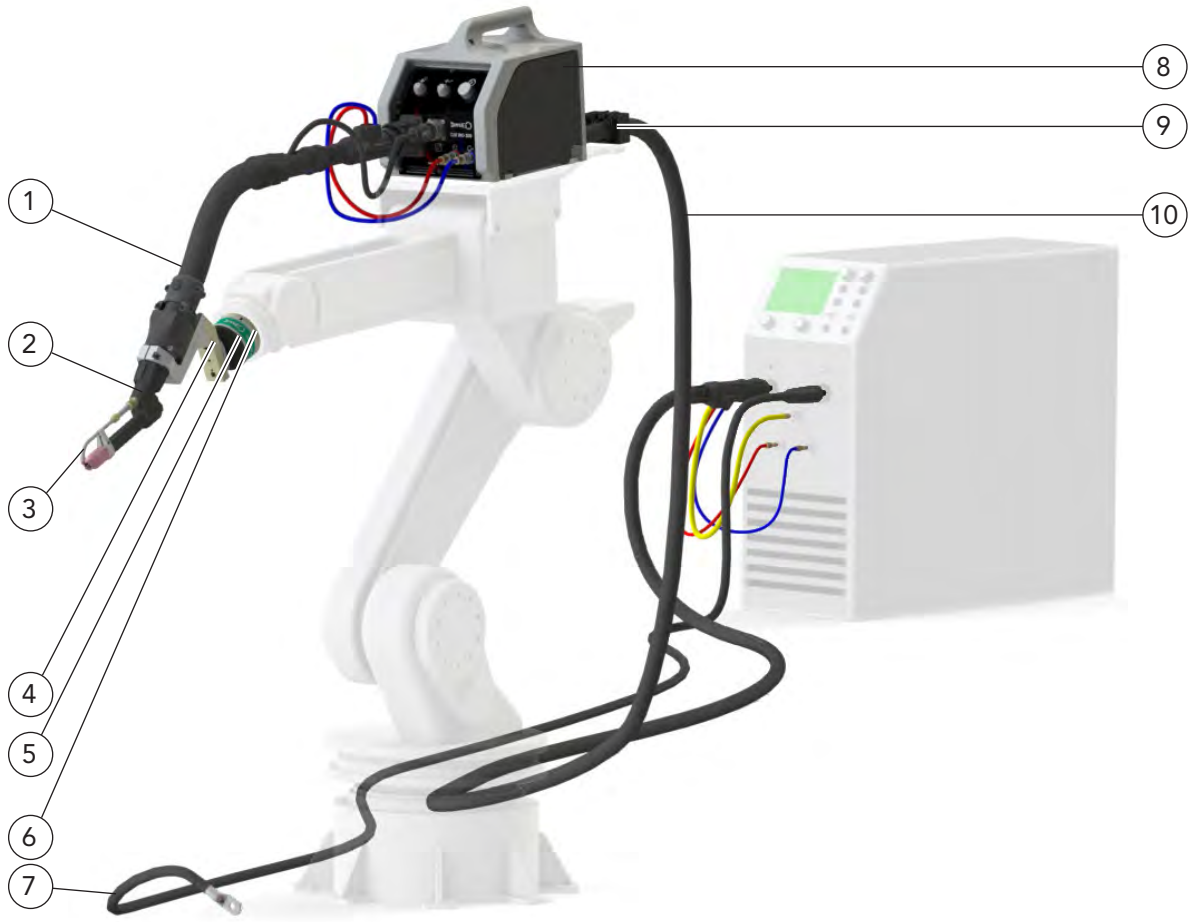
\* Optionally accessories





# TIG welding package 5

Example equipment separable with welding wire fed inside up to 400 A



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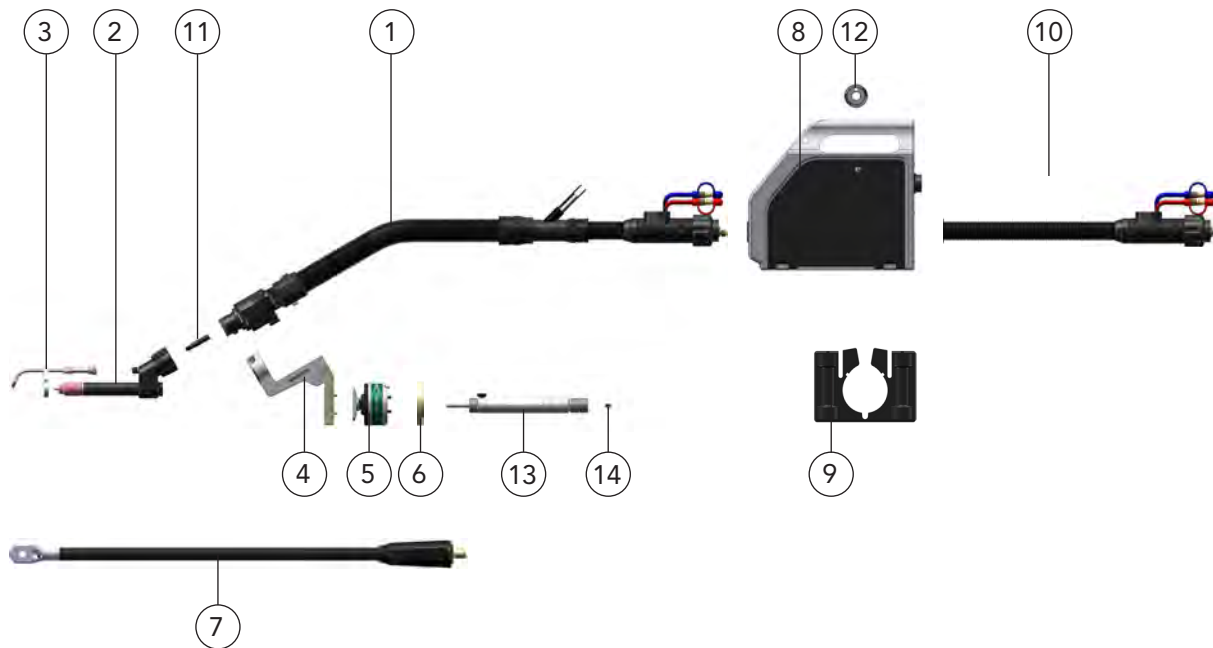
TIG Automation



# TIG welding package 5



## Example equipment separable with welding wire fed inside up to 400 A



Description	Part name	Part number
1 Torch set	DIX TETZ 602-__SAZ	
2 Torch head, see page 240	DIX TETZ 400	641140001
3 Cold wire set, see page 250	DIX KD 400	648540001
4 Torch bracket, see page 258	DIX PHF 112	683500112
5 Shock sensor, see page 260	DIX SAS 100	683100001
6 Adapter flange, depends on robot type, see from page 287	DIX ADF 6-__	683116-__
7 Ground cable, cross section 95mm <sup>2</sup> , see page 325	DIX GL-__/_95	74100895-__
8 Wire feeder*, with EURO central connection, see page 319	DIX WD 300/PI WIG	7410040182
9 Bracket*, for torch sets with nominal width 42 mm, see page 309	DIX VLH 42	62923550214
10 Intermediate hose package TIG*	DIX ZSZ 70-__/_WIG	7184173-__
11 Connecting piece, TETZ	DIX TES 400	649066002
12 Drive roll*, for 1.0 mm wire diameter, steel, see page 322	DIX DV-04-10/10 T	719042100
13 Adjusting gauge*	DIX EL 400	6480200000
14 Clamping sleeve*	DIX SH 400-3.2	6480500320
Pressure regulator*, 0-20 l/min for sampling points, not shown, see page 324	DIX DRV-200	628080200
Tungsten needle, not shown	DIX WL 15 Gold Ø 3.2x175 mm	7420900016
Liner or capillary liner, not shown depends on the welding application, see page 388 or page 390		

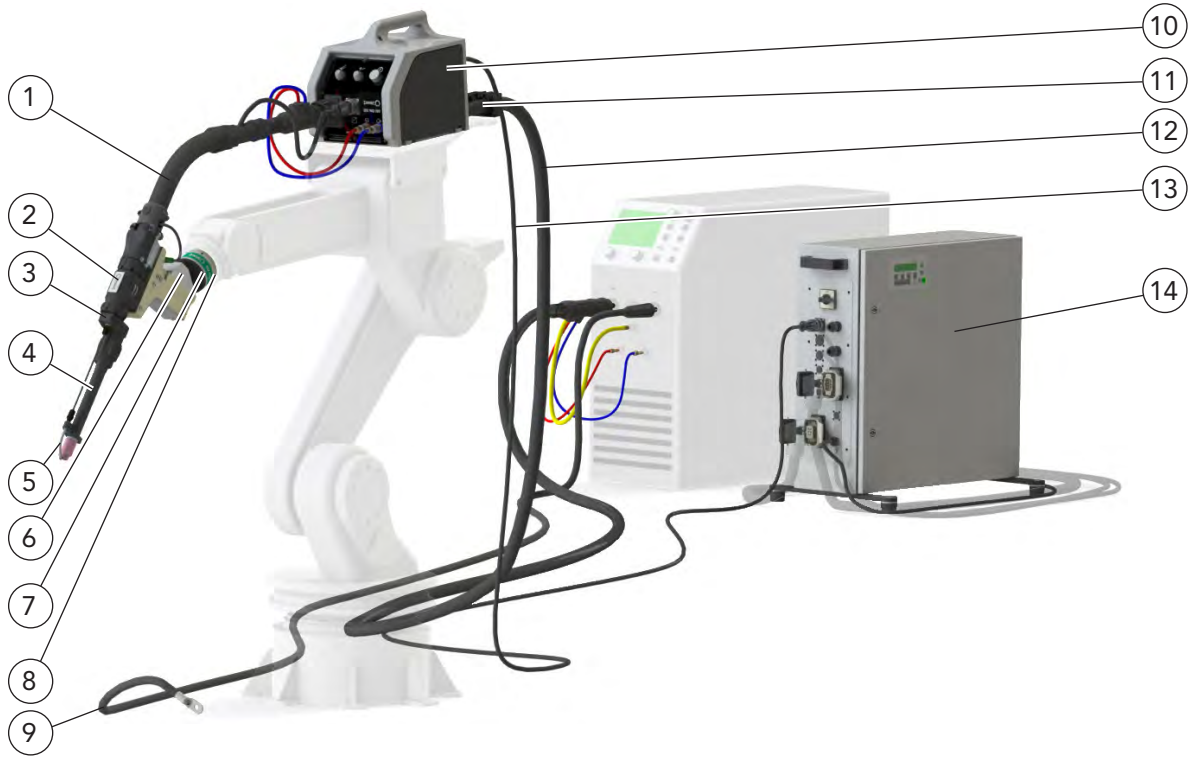
\* Optionally accessories





# TIG welding package 6

Example equipment PUSH-PULL(PUSH) double separable with welding wire fed inside up to 400 A



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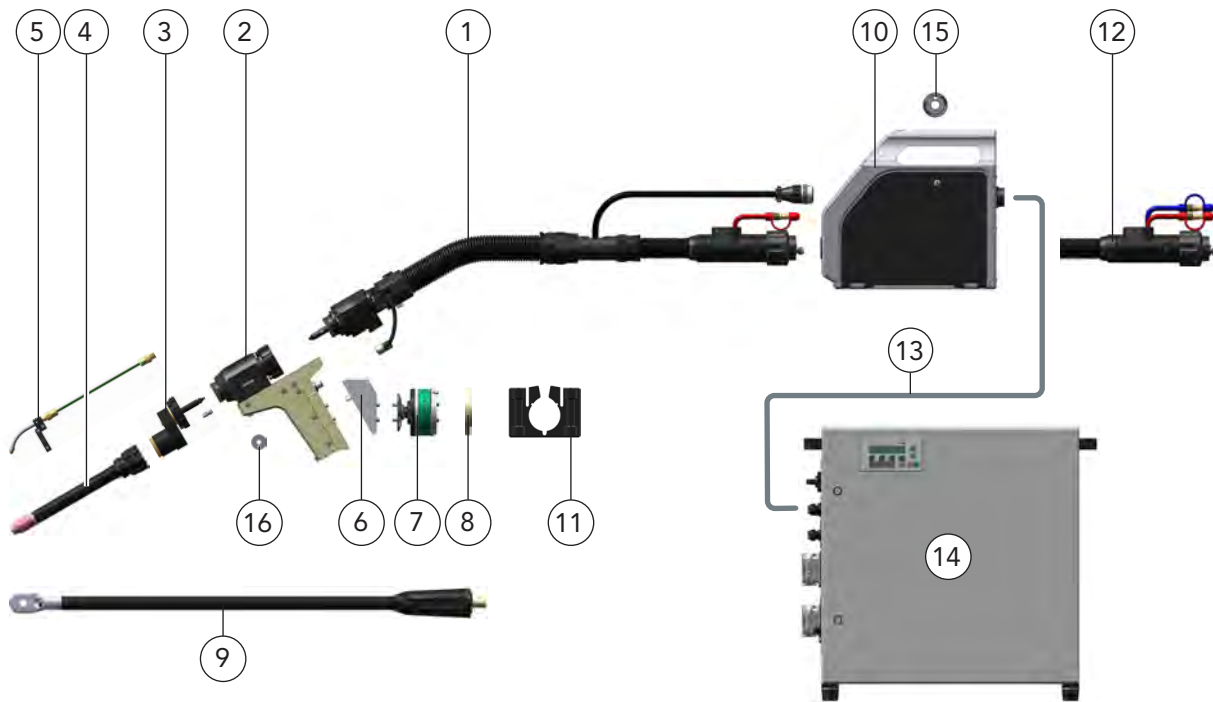
TIG Automation



# TIG welding package 6



## Example equipment PUSH-PULL(PUSH) double separable with welding wire fed inside up to 400 A



Description	Part name	Part number
1 Torch set, see page 278	DIX MEPWTTZ 600-__ SAZ/TA	6306670__
2 Torch bracket, Tacho, see page 276	DIX MEP 201 TW	631620036
3 Torch body, see page 256	DIX MEK 8500	6310158500
4 Torch head, see page 248	DIX TETZ 8500	641148500
5 Cold wire set, see page 255	DIX KD 8500	648598500
6 Retainer	DIX HA 201 (30°)	683510204
7 Shock sensor, see page 277	DIX SAS 200	683100200
8 Adapter flange, depends on robot type, see from page 287	DIX ADF 6_ __	683116_ __
9 Ground cable, cross section 95mm <sup>2</sup> , see page 325	DIX GL_ _/95	74100895_ __
10 Wire feeder, with EURO central connection, see page 319	DIX WD 300/PI WIG	7410040182
11 Bracket*, for torch sets with nominal width 42 mm, see page 309	DIX VLH 42	62923550214
12 Intermediate hose package TIG*	DIX ZSZ 70- _/WIG	7184173_ __
13 Connection cable	DIX WDVK 300-__	7380900_ __
14 Control unit, see page 286	DIX WDE 312	737030020
15 Drive roll, for WD 300, for 1.0 mm wire diameter, steel, see page 322	DIX DV-04-10/10 T	719042100
16 Drive roll, for MEP 201 TW, for 1.0 mm wire diameter, steel, see page 276	DIX MEP 322-1.0 S	6393221000
Pressure regulator, 0-20 l/min for sampling points, not shown, see page 324	DIX DRV-200	628080200

Liner or capillary liner, not shown  
depends on the welding application, see page 388 or page 390

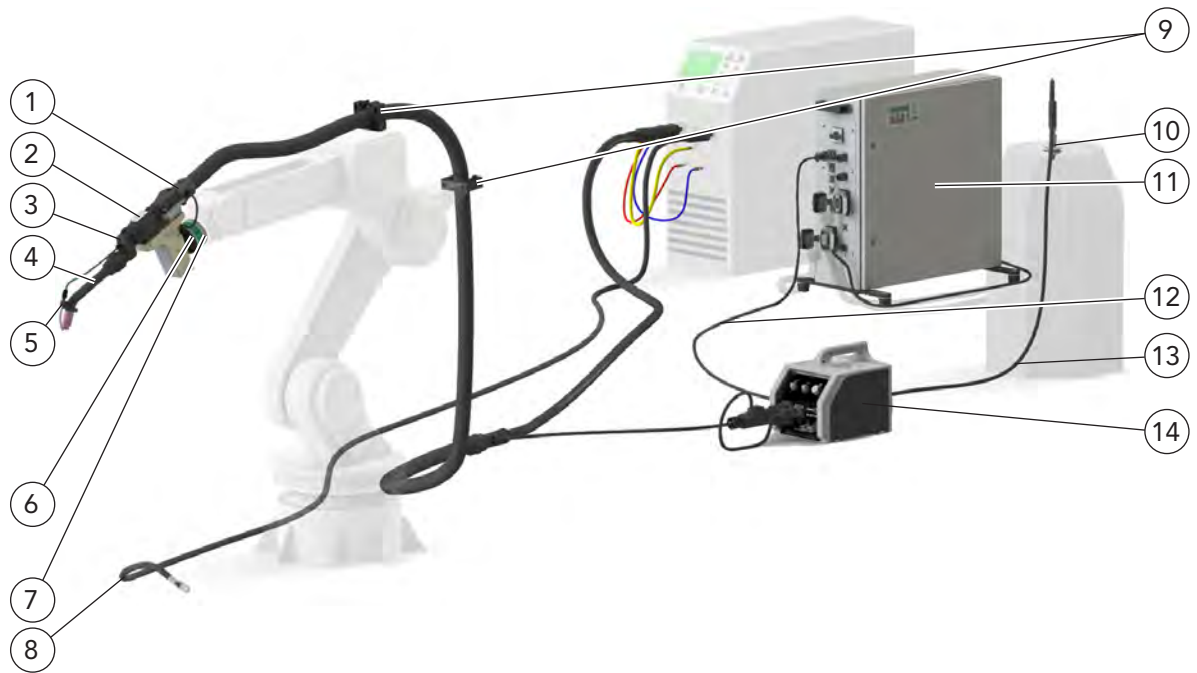
\* Optionally accessories





## TIG welding package 7

Example equipment PUSH-PULL(PUSH) double separable with splitted torch set and welding wire fed inside up to 400 A



TIG Automation

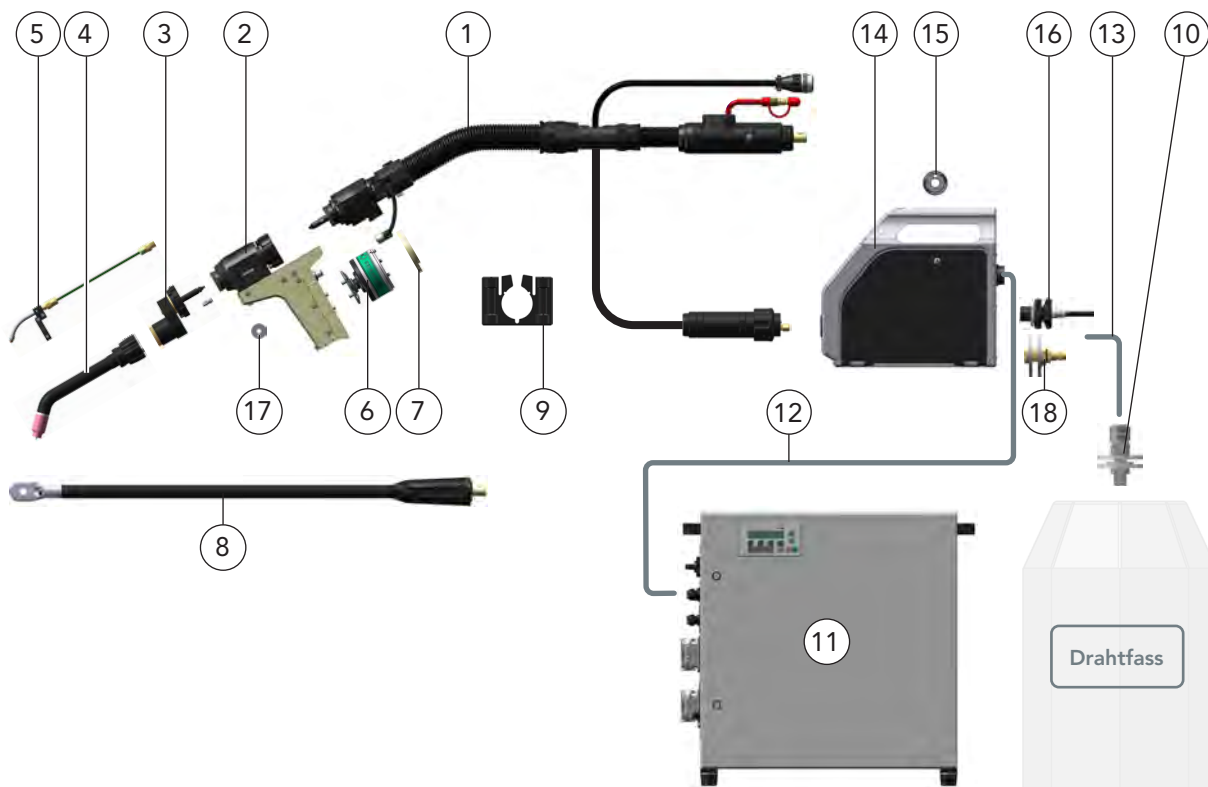
4





# TIG welding package 7

Example equipment PUSH-PULL(PUSH) double separable with splitted torch set and welding wire fed inside up to 400 A



Description	Part name	Part number
1 Torch set, splitted version	DIX MEPWTTZ 600 SAZ/EC	
2 Torch bracket, Encoder, see page 276	DIX MEP 201 EW	631620037
3 Torch body, see page 256	DIX MEK 8500	6310158500
4 Torch head, see page 248	DIX TETZ 8545	641148545
5 Colde wire set, see page 255	DIX KD 8500	648598500
6 Shock sensor, see page 277	DIX SAS 200	683100200
7 Adapter flange, depends on robot type, see ab page 287	DIX ADF 6_ _ _	683116_ _ _
8 Ground cable, cross section 95mm <sup>2</sup> , see page 325	DIX GL_ _ /95	74100895_ _
9 Bracket*, for torch sets with nominal width 42 mm, see page 309	DIX VLH 42	62923550214
10 Connection set drum*	DIX WB-CS	738100011
11 Control unit, see page 286	DIX WDE 312	737030020
12 Connection cable	DIX WDVK 300_ _ _	7380900_ _
13 Quick release system*, pos. 16 necessary	DIX WDX 108_ _ _	7381200_ _
Supraliner*, pos. 18 necessary, see page 312	DIX VLSL 201_ _ _	6292140_ _ 0
14 Wire feeder, with EURO central connection, see page 319	DIX WD 300/PI WIG	7410040182
15 Drive roll, for WD 300, for 1.0 mm wire diameter, steel, see page 322	DIX DV-04-10/10 T	719042100
16 Connection*, for wire feeder combined with quick release system	DIX WDX 109 WD 300	738131003
17 Drive roll, for MEP 201 EW, for 1.0 mm wire diameter, steel, see page 276	DIX MEP 322-1.0 S	6393221000
18 Connection*, for wire feeder combined with Supraliner, see page 313	DIX SF-DV	629201407
Pressure regulator*, 0-20 l/min for sampling points, not shown, see page 324	DIX DRV-200	628080200
Liner or capillary liner, not shown depends on the welding application, see page 388 or page 390		

\* Optionally accessories





# TIG torch heads for Push and Push-Pull(Push) applications



TAZ series

Torch head 400 A  
with non separable torch set



TETZ (L) series

400 A

400 A



TETZ 75xx

300 A

300 A



TETZ 85xx

400 A

400 A

TIG Automation

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# Torch heads liquid cooled TIG DIX TAZ 400

## Fixed version torch sets TAZ 400 ZAW (up to 400A)

### Technical data (DIN EN 60 974-7):

Torch type	TAZ 400
Cold wire sets	KD 400 KDZ 400 (with liquid cooling)
Duty cycle:	400A/100% AC/DC
Electrode diameter:	1.6 - 4.8 mm
Wire diameter:	0.8 - 1.2 mm

### Properties

- ▶ Adjusting of the electrode with adjusting gauge

- ▶ **Notice:**  
Supply hose without control wires for the shock sensor SAS, due to feedback at high frequency applications  
If you want to use a SAS you need the connection box DIX CB-5 (part no.: 629900117).  
Use the SAS 100 DUMMY (part no.: 683100036), when you don't need a shock sensor.

### Application

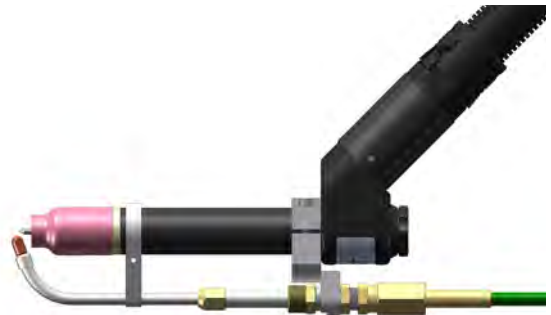
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper- and nickel alloys
- ▶ Small to large material thicknesses

### Hint:

Information to the appropriate torch sets you will find in Chapter TIG AUTOMATION Torch sets.



TIG torch set TAZ 400 ZAW with torch type TAZ 400



TIG Torch and cold wire set KD 400  
Application sample



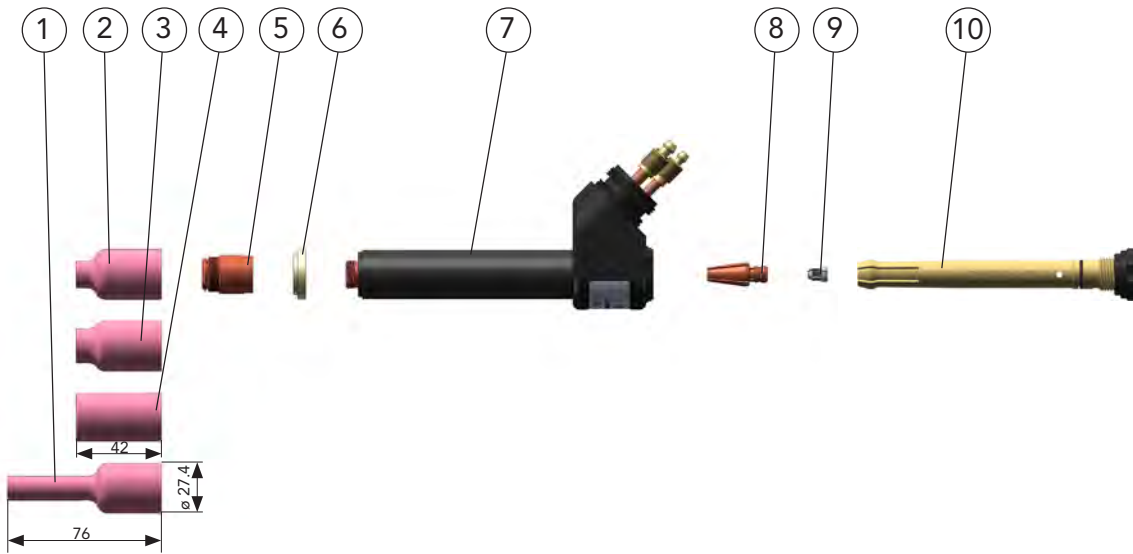
Adjusting gauge DIX EL 400 (optional)



TIG torch in the bracket (swiveling)  
Application sample



Torch type TAZ 400



	Description	Dimension	Part name		Part number
1	Gas nozzle	ø 8.5 mm	DIX	GD 405 L	649015004
2	Gas nozzle	ø 9.5 mm	DIX	GD 406	649015001
3	Gas nozzle	ø 12.5 mm	DIX	GD 408	649015002
4	Gas nozzle	ø 19.5 mm	DIX	GD 412	649015003
5	Gas lens		DIX	GL 4_ _	6491050_ _
6	Sealing washer		DIX	DIS 400	6490254000
7	Torch neck		DIX	6-4-400 AZ	6490650040
8	Electrode collet		DIX	SZ 4_ _	6490554_ _0
9	Clamping sleeve		DIX	SH 400- _ _	6480500_ _0
10	Electrode collet housing		DIX	SZA 402	6492750402

\_ \_ Standard electrode diameter: 2.4 mm and 3.2 mm. Other electrode diameters on request.

► Standard equipment for electrode diameter 3.2 mm with gas nozzle diameter 12.5 mm, DIX GD 408.





# Torch heads liquid cooled TIG DIX TAZ 8000

## Torch sets non separable version TAZ 8000 ZAW up to 400A

### Technical data (DIN EN 60 974-7):

Torch type	TAZ 8000
Cold wire sets	KD 400 KDZ 400 (with liquid cooling)
Duty cycle:	400A/100% AC/DC
Electrode diameter:	3.2 mm

### Properties

- ▶ Reproducible TCP through screwable electrode
- ▶ Excellent cooling of the electrode
- ▶ Height of service life
- ▶ Insulation < 15 KV

### Application

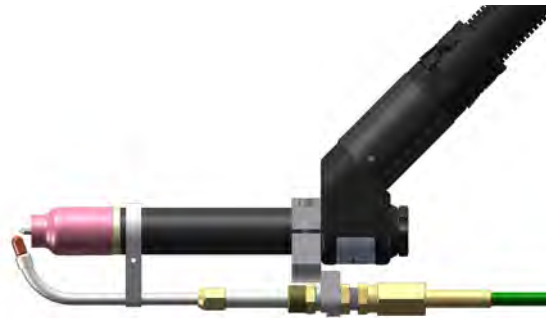
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper-and nickel alloys
- ▶ Small to large material thicknesses

### Hint:

Information to the appropriate torch sets you will find in Chapter TIG AUTOMATION Torch sets.



TIG - torch set DIX TAZ 8000 ZAW with torch type TAZ 8000



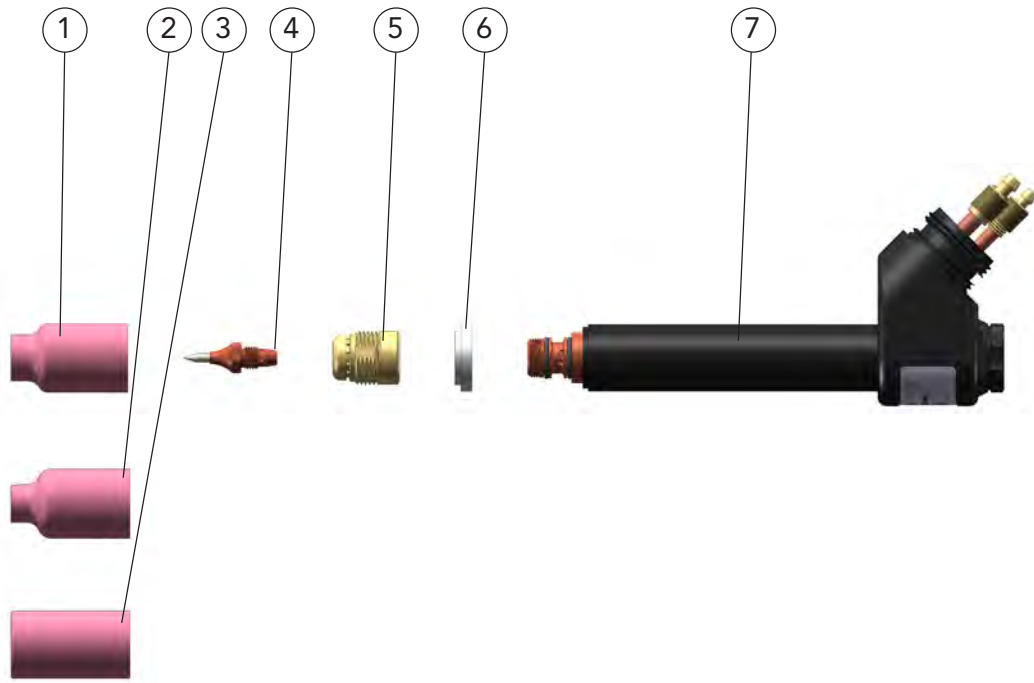
TIG Torch and cold wire set KD 400  
Application sample



TIG torch in the bracket (swiveling)  
Application sample



Torch type TAZ 8000



	Description	Dimension	Part name		Part number
1	Gas nozzle	ø 9.5 mm	DIX	GD 406	649015001
2	Gas nozzle	ø 12.5 mm	DIX	GD 408	649015002
3	Gas nozzle	ø 19.5 mm	DIX	GD 412	649015003
4	TIG needle		DIX	TE 832 Gold 33.5 R 17°	6490555005
5	Gas lens		DIX	GL 8000	649108000
6	Sealing washer		DIX	DIS 400	6490254000
7	Torch neck		DIX	6-4-8000 AZ	6415008040

Standard electrode diameter: 3.2 mm. Other electrode diameters on request..

- ▶ Standard equipment for electrode diameter 3.2 mm with gas nozzle diameter 12.5 mm, DIX GD 408.





# Torch heads liquid cooled TIG DIX TETZ 400 (up to 400A)

### Technical data (DIN EN 60 974-7):

<b>Torch head</b>	<b>TETZ 400</b>
Duty cycle:	400A/100% AC/DC
Electrode diameter:	1.6 - 4.8 mm

### Properties

- ▶ Adjusting of the electrode with adjusting gauge

### Application

- ▶ For torch sets separable version  
ME(P)(W)T(T)Z 600 ZAW(SAZ)  
TETZ 600 ZAW(SAZ)
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper-and nickel alloys
- ▶ Small to large material thicknesses

### Hint:

Information to the appropriate torch sets you will find in Chapter TIG AUTOMATION Torch sets.



Torch head TETZ 400



Adjusting gauge EL 400 (optional)



TIG separable version  
Application sample

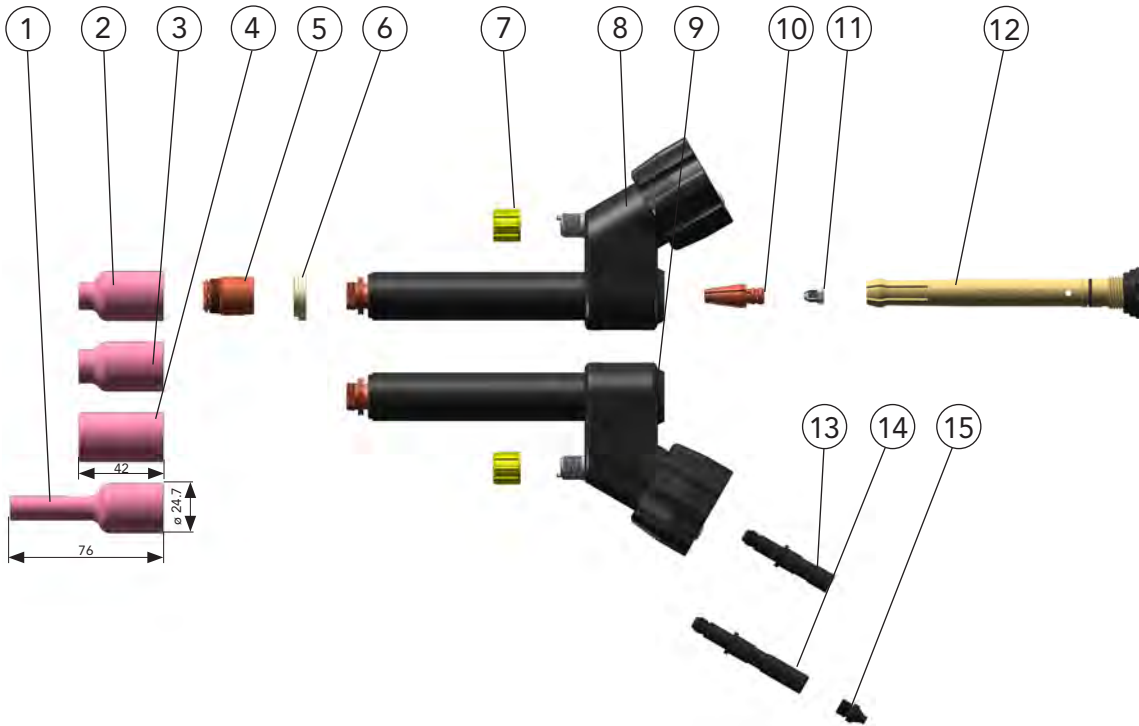


Application sample  
TIG double separable version for PUSH-PUSH tacho and  
PUSH-PULL encoder





## Torch head TETZ 400 (L)



Description	Dimension	Part name	Part number
1 Gas nozzle	ø 8.5 mm	DIX GD 405 L	649015004
2 Gas nozzle	ø 9.5 mm	DIX GD 406	649015001
3 Gas nozzle	ø 12.5 mm	DIX GD 408	649015002
4 Gas nozzle	ø 19.5 mm	DIX GD 412	649015003
5 Gas lens		DIX GL 4_ _	6491050_ _
6 Sealing washer		DIX DIS 400	6490254000
7 Protective cap		DIX SK 400	649410001
8 Torch neck		DIX 6-4-400 TETZ	649061001
9 Torch neck		DIX 6-4-400 TETZ L	649061022
10 Electrode collet		DIX SZ 4_ _	6490554_ _0
11 Clamping sleeve		DIX SH 400- _ _	6480500_ _0
12 Electrode collet housing		DIX SZA 402	6492750402
13 Connecting piece, TETZ For torch sets MET(T)Z 600 ZAW, Servo torch adapter STA 100 T		DIX TES 400	649066002
14 Connecting piece, TEPTZ For torch bracket MEP 200		DIX TEPS 400	649066001
15 Intake nozzle		DIX MEP 152	6391536005

-- Standard electrode diameter: 2.4 mm and 3.2 mm. Other electrode diameters on request.

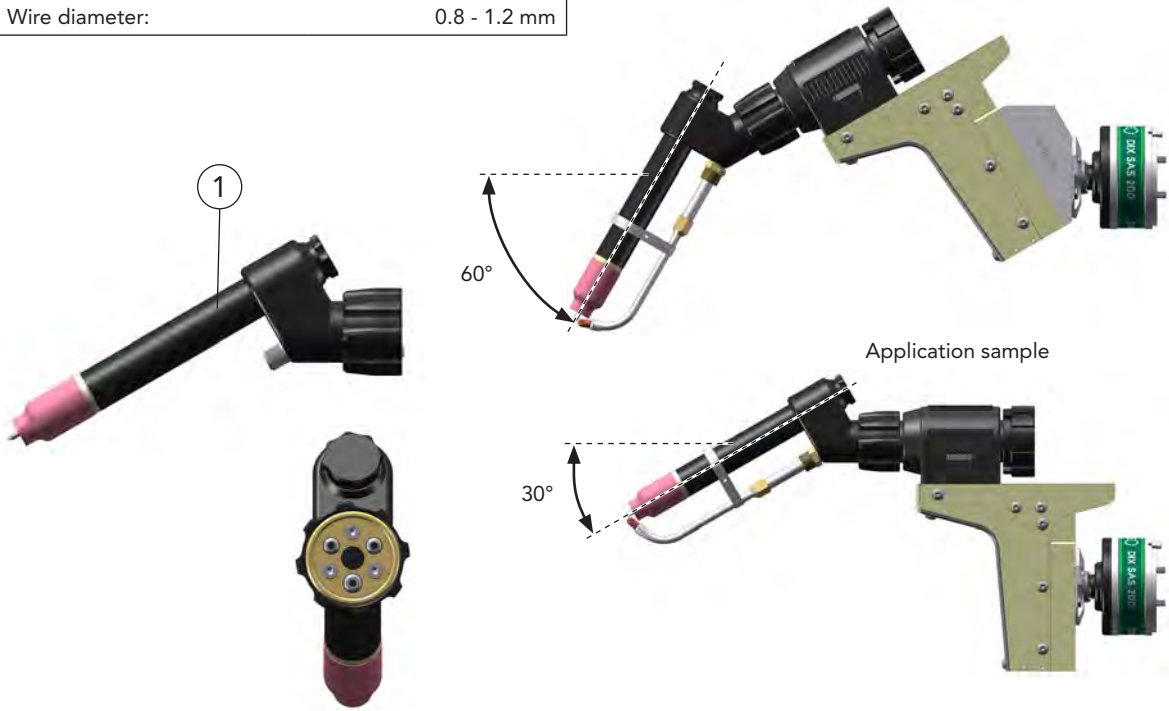




# Torch heads liquid cooled TIG DIX TETZ 400 L (up to 400A)

### Technical data (DIN EN 60 974-7):

Torch head	TETZ 400
Cold wire sets	KD 400 KDZ 400 (with liquid cooling)
Duty cycle:	400A/100% AC/DC
Electrode diameter:	1.6 - 4.8 mm
Wire diameter:	0.8 - 1.2 mm



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Description	Part name	Part number
1 Torch head, left Version turned by 180° Version 30°, TCP: 410 mm to robotic flange - offset, vertical: 58 mm Version 60°, TCP: 432 mm to robotic flange - offset, vertical: -100 mm Electrode stand out: 5 mm	DIX TETZ 400 L	641140002

- ▶ Standard equipment for electrode diameter 3.2 mm with gas nozzle diameter 12.5 mm, DIX GD 408. Use the special spanner DIX SLAT 4 to tighten torch heads. Variants deviating of the accessories on request.



# Torch heads liquid cooled TIG DIX TETZ 8000 (up to 400A)

Technical data (DIN EN 60 974-7):	
Torch head	TETZ 8000
Duty cycle:	400A/100% AC/DC
Electrode diameter:	3.2 mm

## Properties

- Reproducible TCP through screwable electrode
- Excellent cooling of the electrode
- Height of service life
- Insulation < 15 KV

## Application

- For torch sets separable version  
ME(P)(W)T(T)Z 600 ZAW(SAZ)  
TETZ 600 ZAW(SAZ)
- Non- and low alloyed steels
- High alloyed steels
- Aluminium-, magnesium-, copper-and nickel alloys
- Small to large material thicknesses

### Hint:

Information to the appropriate torch sets you will find in Chapter TIG AUTOMATION Torch sets.



Torch head TETZ 8000

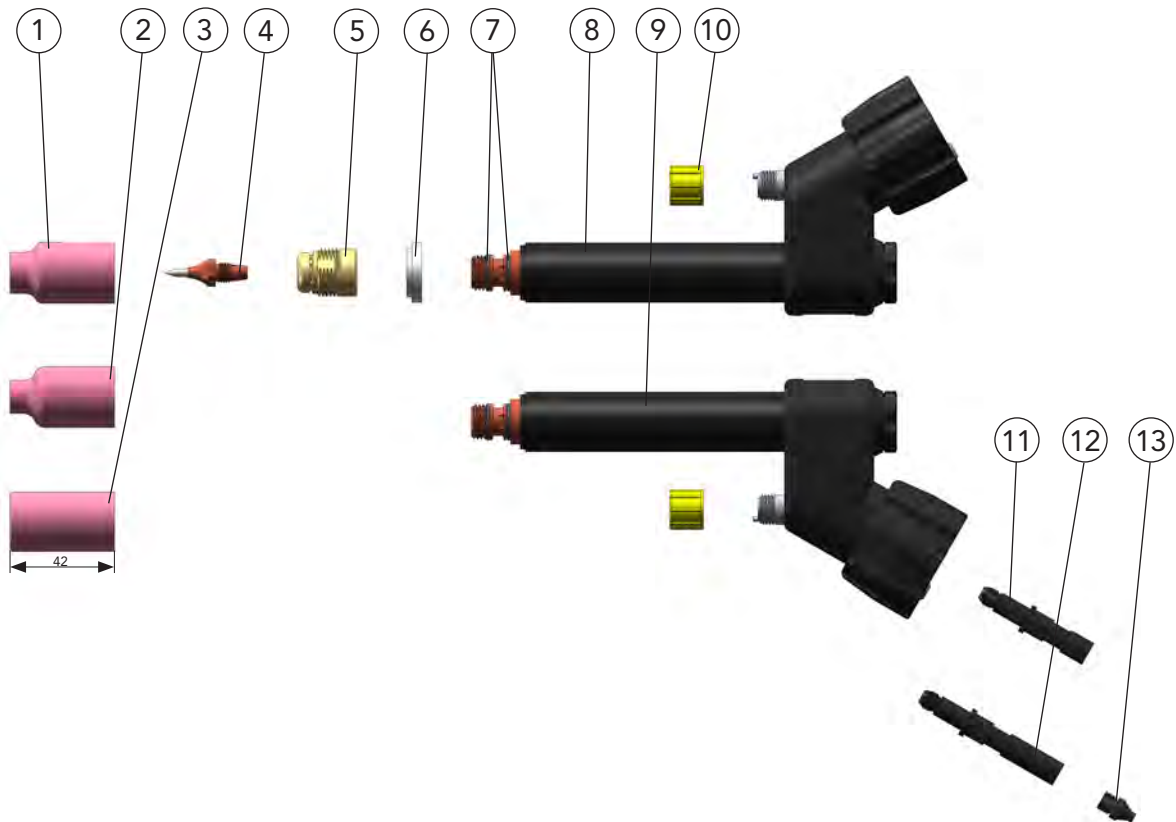


TIG separable version  
Application sample



Application sample  
TIG double separable version for PUSH-PUSH tacho and  
PUSH-PULL encoder

## Torch heads TETZ 8000 (L)



	Description	Dimension	Part name	Part number
1	Gas nozzle	ø 9.5 mm	DIX GD 406	649015001
2	Gas nozzle	ø 12.5 mm	DIX GD 408	649015002
3	Gas nozzle	ø 19.5 mm	DIX GD 412	649015003
4	TIG needle		DIX TE 832 Gold 33.5 R 17°	6490555005
5	Gas lens		DIX GL 8000	649108000
6	Sealing washer		DIX DIS 400	6490254000
7	O-Ring, 12x1.5	(10 pcs.)		629900333
8	Torch neck		DIX 6-4-8000 TETZ	649068000
9	Torch neck		DIX 6-4-8000 TETZ L	649068001
10	Protective cap		DIX SK 400	649410001
11	Connecting piece, TETZ For torch sets MET(T)Z 600 ZAW, Servo torch adapter STA 100 T		DIX TES 400	649066002
12	Connecting piece, TEPTZ For torch bracket MEP 200		DIX TEPS 400	649066001
13	Intake nozzle		DIX MEP 152	6391536005

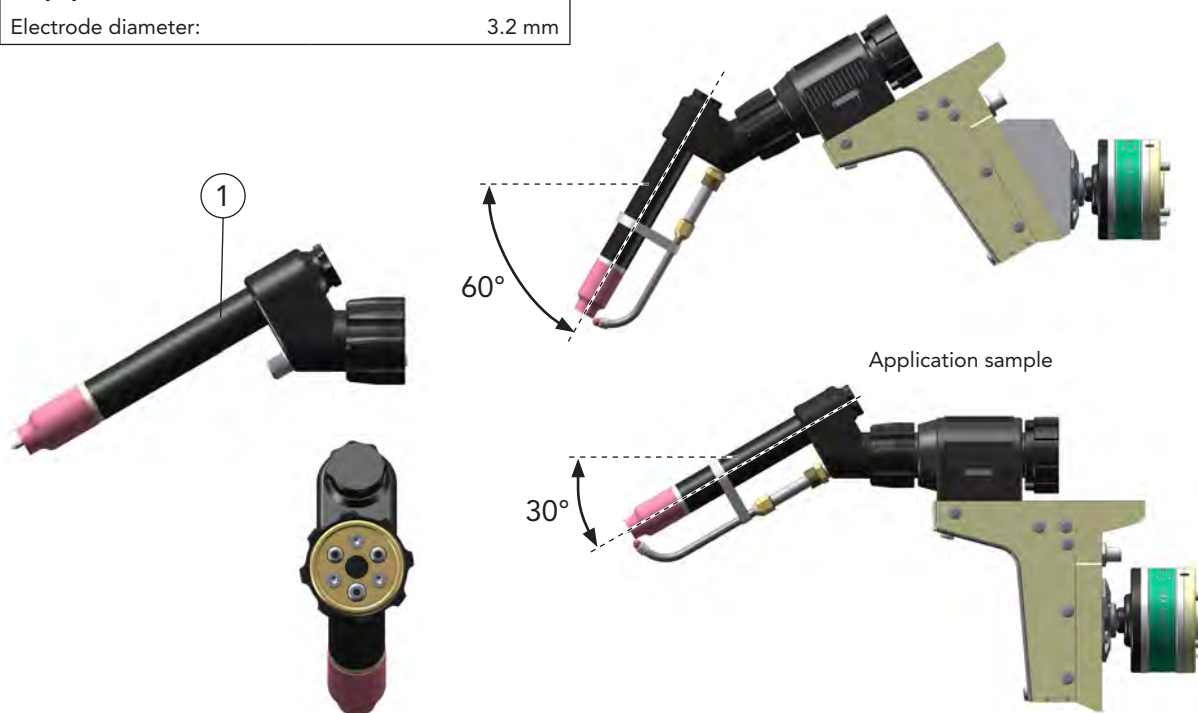
Standard electrode diameter: 3.2 mm. Other electrode diameters on request..



# Torch heads liquid cooled TIG DIX TETZ 8000 L (up to 400A)



Technical data (DIN EN 60 974-7):	
Torch head	TETZ 8000 L
Cold wire sets	KD 400 KDZ 400 (with liquid cooling)
Duty cycle:	400A/100% AC/DC
Electrode diameter:	3.2 mm



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Description	Part name	Part number
1 Torch head, left	DIX TETZ 8000 L	641148001

- Standard equipment for electrode diameter 3.2 mm with gas nozzle diameter 12.5 mm, DIX GD 408. Use the special spanner DIX SLAT 4 to tighten torch heads. Variants deviating of the accessories on request.





# Torch heads liquid cooled TIG DIX TETZ 75xx (up to 300A)

### Technical data (DIN EN 60 974-7):

Torch head	0°	TETZ 7500
Torch head	45°	TETZ 7545
Duty cycle:	300A/100% AC/DC	
Electrode diameter:	2.4 mm	

### Properties

- ▶ Reproducible TCP through screwable electrode
  - ▶ Excellent cooling of the electrode
  - ▶ Height of service life
  - ▶ Insulation < 15 KV
- Option:**
- ▶ With torch body DIX MEK 8500 wire feeding due to torch bracket DIX MEP 201

### Application

- ▶ For torch sets separable version  
ME(P)(W)T(T)Z 600 ZAW(SAZ)  
TETZ 600 ZAW(SAZ)
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper-and nickel alloys
- ▶ Small material thicknesses

**Hint:**

Information to the appropriate torch sets you will find in Chapter TIG AUTOMATION Torch sets.



Torch head DIX TETZ 7500 in 0° and DIX TETZ 7545 in 45°



TIG separable version with Torch bracket DIX PHF 112  
Application sample



TIG double separable version for PUSH-PUSH tacho and PUSH-PULL encoder with Torch head DIX TETZ 7545,  
Torch bracket DIX MEP 201  
Application sample

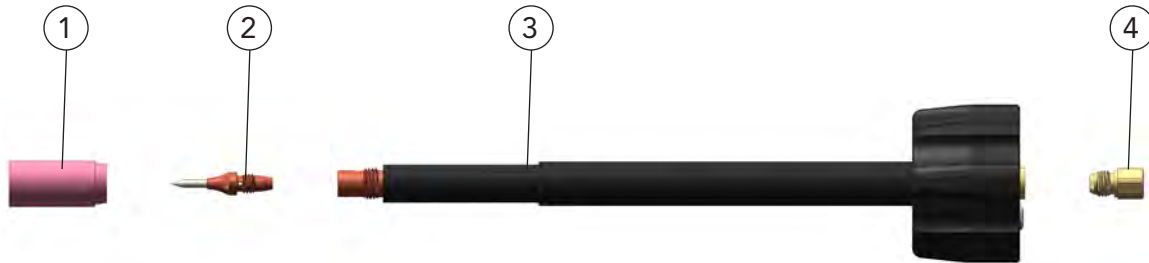
**Option:**

Cold wire set and torch body DIX MEK 8500

**INFO** The torch heads of the TETZ 75xx series can be bent individually according to customer requirements. If you need a checking jig for your torch head, we can manufacture a corresponding device that is specially tailored to your torch head. Your DINSE expert will be happy to advise you.



## Torch heads TETZ 75xx



Description	Dimension	Part name		Part number
1 Gas nozzle	ø 12 mm	DIX	1-2-012 LK	629010004
2 TIG needle		DIX	TE 724 Gold 31 R 17°	6490555000
3 Torch neck	0°	DIX	6-4-7500 TETZ	649067500
Torch neck, not shown	45°	DIX	6-4-7545 TETZ	649067545
4 Connecting piece		DIX	TETZ 2000	64906750041

Standard electrode diameter: 2.4 mm. Other electrode diameters on request.





# Torch heads liquid cooled TIG DIX TETZ 85xx (up to 400A)

### Technical data (DIN EN 60 974-7):

Torch head	0°	TETZ 8500
Torch head	45°	TETZ 8545
Duty cycle:	400A/100% AC/DC	
Electrode diameter:	3.2 mm	

### Properties

- ▶ Reproducible TCP through screwable electrode
  - ▶ Excellent cooling of the electrode
  - ▶ Height of service life
  - ▶ Insulation < 15 KV
- Option:**
- ▶ With torch body DIX MEK 8500 wire feeding due to torch bracket DIX MEP 201

### Application

- ▶ For torch sets separable version  
ME(P)(W)(T)(Z) 600 ZAW(SAZ)  
TETZ 600 ZAW(SAZ)
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper-and nickel alloys
- ▶ Small to large material thicknesses

### Hint:

Information to the appropriate torch sets you will find in Chapter TIG AUTOMATION Torch sets.



Torch head DIX TETZ 8500 in 0° and DIX TETZ 8545 in 45°



TIG separable version with Torch bracket DIX PHF 112  
Application sample



TIG double separable version for PUSH-PUSH tacho and  
PUSH-PULL encoder with Torch head DIX TETZ 8545,  
Torch bracket DIX MEP 201  
Application sample

### Option:

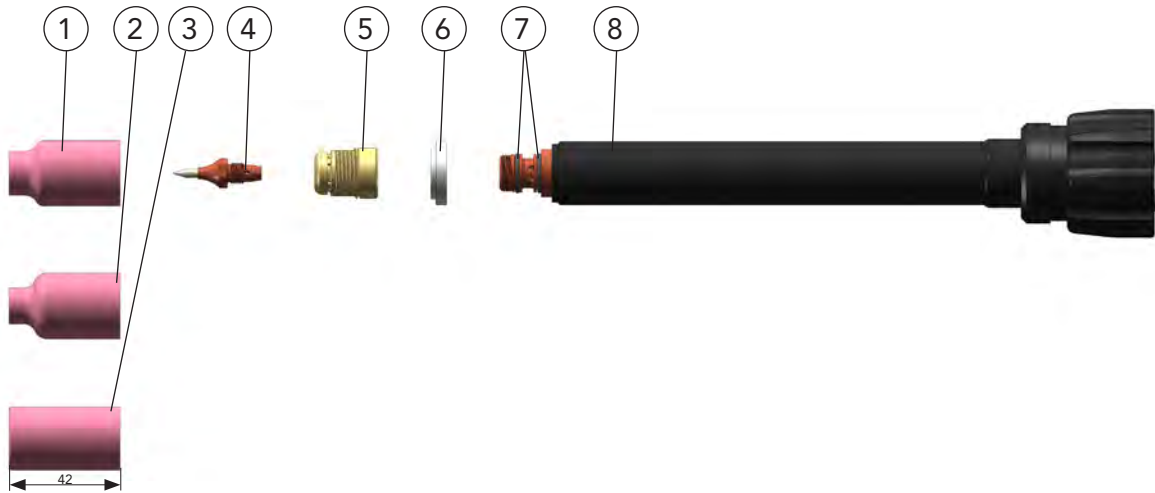
Cold wire set DIX KD 8500 and Torch body DIX MEK 8500

**INFO** The torch heads of the TETZ 85xx series can be bent individually according to customer requirements. If you need a checking jig for your torch head, we can manufacture a corresponding device that is specially tailored to your torch head. Your DINSE expert will be happy to advise you.





## Torch heads TETZ 85xx



Description	Dimension	Part name	Part number
1 Gas nozzle	ø 9.5 mm	DIX GD 406	649015001
2 Gas nozzle	ø 12.5 mm	DIX GD 408	649015002
3 Gas nozzle	ø 1.5 mm	DIX GD 412	649015003
4 TIG needle		DIX TE 832 Gold 33.5 R 17°	6490555005
5 Gas lens		DIX GL 8000	649108000
6 Sealing washer		DIX DIS 400	6490254000
7 O-Ring, 12x1.5 mm	10 pcs.		629900333
8 Torch neck	0°	DIX 6-4-8500 TETZ	649068500
9 Torch neck, not shown	45°	DIX 6-4-8545 TETZ	649068545

Standard electrode diameter: 3.2 mm. Other electrode diameters on request.

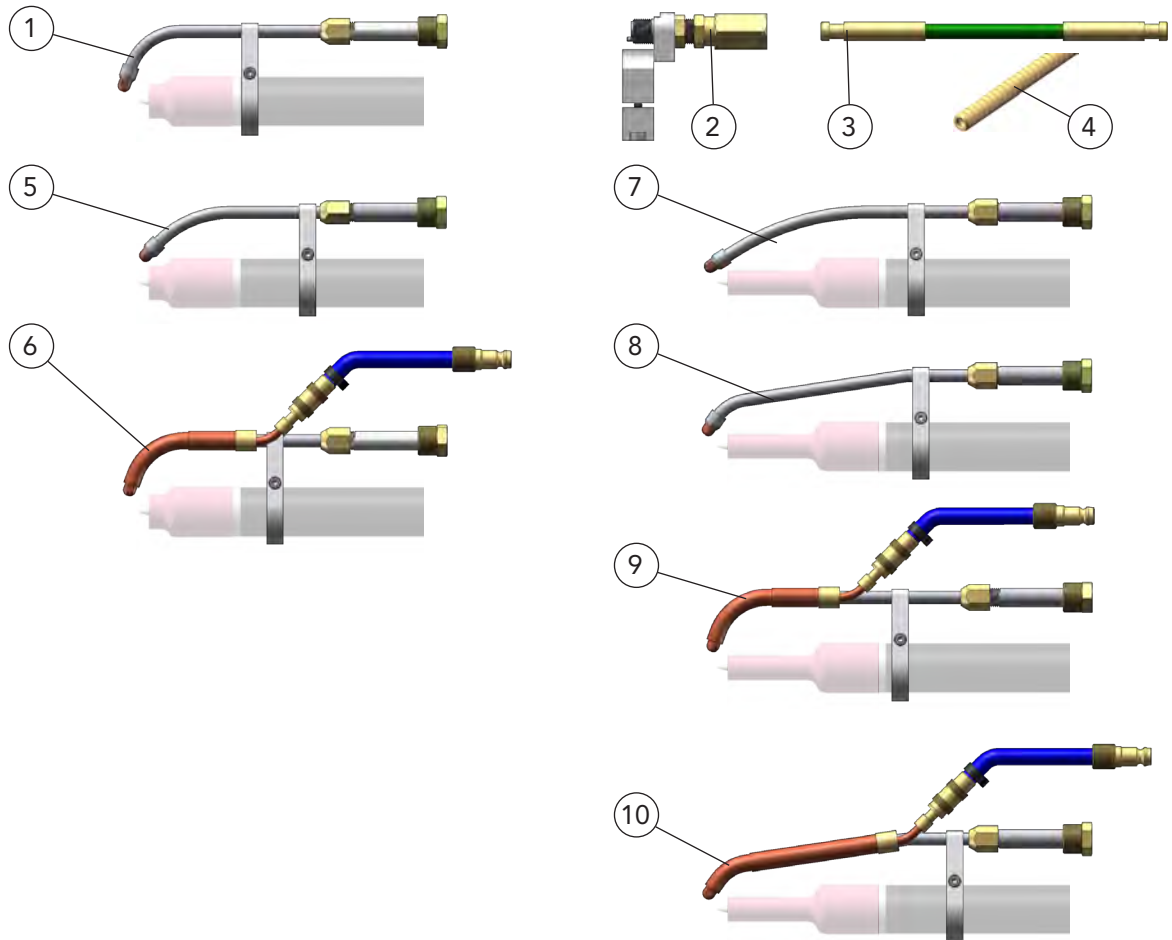


## Wire guide sets

DIX KD 400 ; DIX KD 400/002 ; DIX KD 400/003 ; DIX KD 400/004  
 DIX KDZ 400 ; DIX KDZ 400/001 ; DIX KDZ 400/002

For torch type DIX TAZ 400 / DIX TAZ 8000

For torch head DIX TETZ 400 (L) DIX TETZ 8000 (L)



	Description	Dimension	Part name	Part number
1	Cold wire set Standard equipment for wire diameter 1.0 mm and gas nozzles DIX GD 406/408/412		DIX KD 400	648540001
2	Cold wire connecting adapter, for DIX TAZ 400(8000)		DIX KA 400	648594011
3	Wire conduit hose, for DIX TAZ 400(8000)		DIX VLM 2011-3.0	629201830
4	Liner, for DIX TAZ 400(8000)	ø 2.2 mm / 3.5 m	DIX DS 4/2.2-3.5	623000335
5	Cold wire set Standard equipment for wire diameter 1.0 mm and gas nozzles DIX GD 406/408/412		DIX KD 400/004	648540022
6	Cold wire set, liquid cooled Standard equipment for wire diameter 1.0 mm and gas nozzles DIX GD 406/408/412, water hoses 5.0 m		DIX KDZ 400	648540003
7	Cold wire set Standard equipment for wire diameter 1.0 mm and gas nozzle DIX GD 405 L		DIX KD 400/003	648540021
8	Cold wire set Standard equipment for wire diameter 1.0 mm and gas nozzle DIX GD 405 L		DIX KD 400/002	648540020
9	Cold wire set, liquid cooled Standard equipment for wire diameter 1.0 mm and gas nozzle DIX GD 405 L, water hoses 5.0 m		DIX KDZ 400/002	648540019
10	Cold wire set, liquid cooled Standard equipment for wire diameter 1.0 mm and gas nozzle DIX GD 405 L, water hoses 5.0 m)		DIX KDZ 400/001	648540002

► For wire feeding use wire feeder DIX WD 710 (Part number: 730071000). Cooling units on request. Information to the appropriate wire feeders you will find in SYSTEM COMPONENTS - Wire feeders. Variants deviating of the accessories on request.

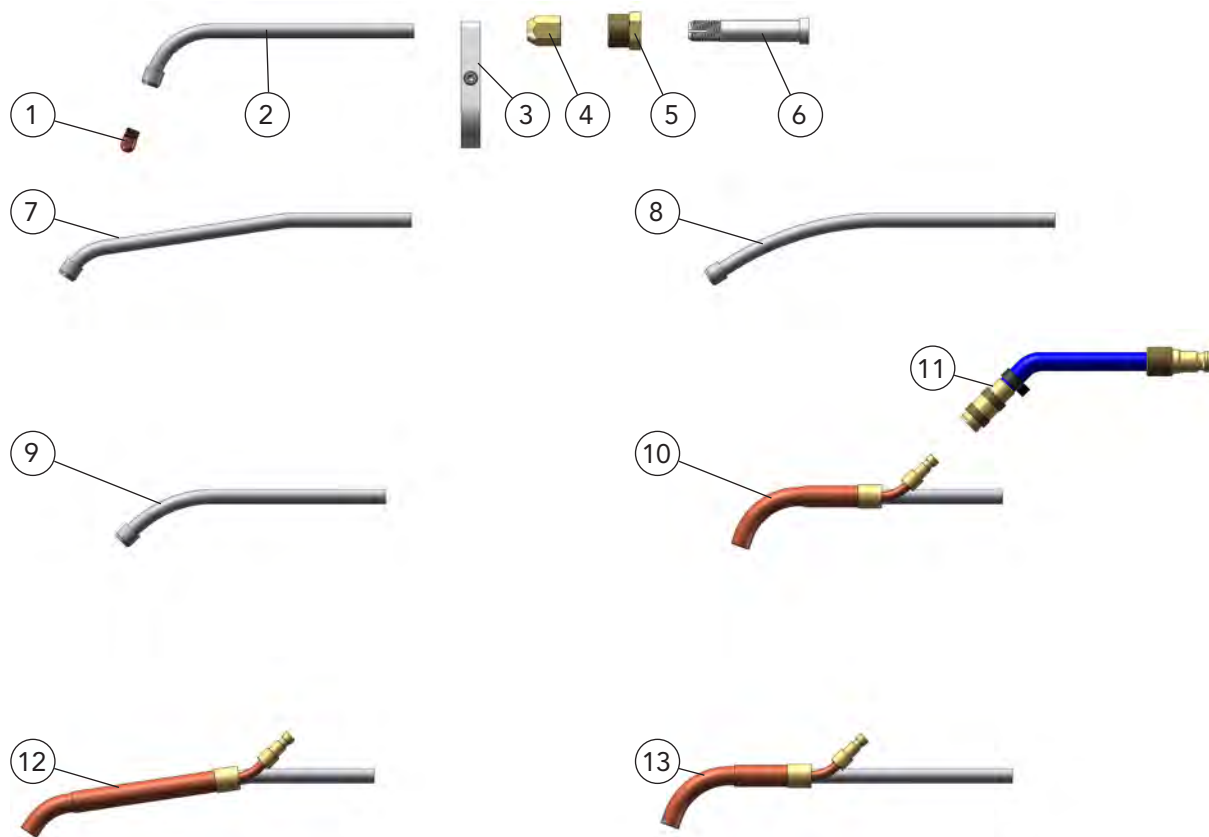
● When using cold wire sets on the DIX TAZ 400 (8000), you need the cold wire connection adapter DIX KA 400 (pos. 2), the wire conduit hose DIX VLM 2011-3.0 (pos. 3) and the liner DIX DS 4/2.2-3.5 (pos. 4).



# Wire guide sets

## Spare parts and wear parts

DIX KD 400 (/002) (/003) (/004)  
DIX KDZ 400 (/001) (/002)



	Description	Part name	Part number
1	Guide tip	DIX FS 400-__	649030001__
2	Guide pipe	DIX KD 404	648594004
3	Bracket	DIX KD 405	648594005
4	Clamp nut	DIX KD 403	648594003
5	Retaining nut	DIX KD 402	648594002
6	Clamping sleeve	DIX KD 401	648594001
7	Guide pipe	DIX KD 404/002	648594023
8	Guide pipe	DIX KD 400/003	648594028
9	Guide pipe	DIX KD 400/004	648594031
10	Guide pipe, liquid cooled	DIX KDZ 401	648540004
11	Water set, water hoses, blue and red: 5.0 m	DIX KDZ 402	648594022
12	Guide pipe, liquid cooled	DIX KDZ 401/001	648594010
13	Guide pipe, liquid cooled	DIX KDZ 401/002	648540012

-- Standard wire diameter: 0.8 mm, 1.0 mm and 1.2 mm.  
Other wire diameters on request.

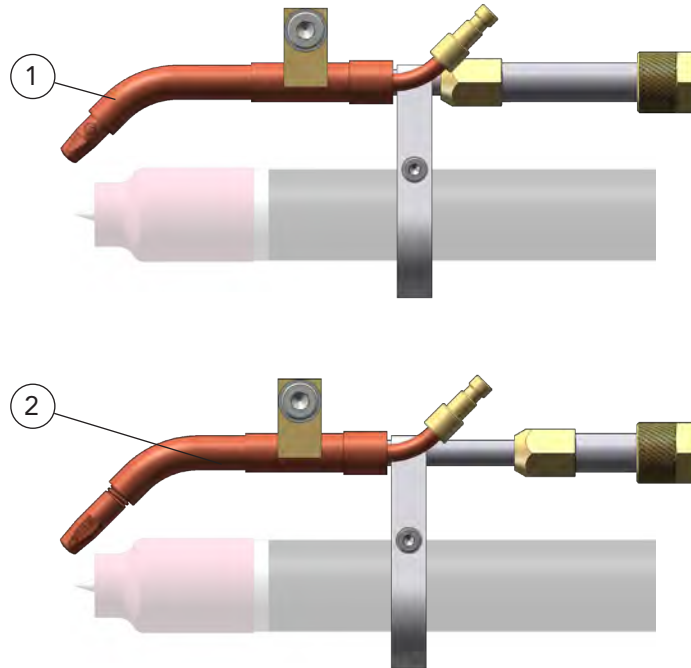


## Wire guide sets

### DIX HDZ 400 ; DIX HDZ 402

For torch type DIX TAZ 400 / DIX TAZ 8000

For torch head DIX TETZ 400 (L) DIX TETZ 8000 (L)



4

TIG Automation

Description	Part name	Part number
1 Hot wire set Standard equipment for wire diameter 1.0 mm and gas nozzles DIX GD 406/408/412	DIX HDZ 400	648540027

2 Hot wire set Standard equipment for wire diameter 1.0 mm and gas nozzle DIX GD 406/408/412	DIX HDZ 402	648540031
-------------------------------------------------------------------------------------------------	-------------	-----------

- ▶ For Hot wire applications use wire feeder DIX WD 710 (Part number: 730071000) . Cooling units on request. Information to the appropriate wire feeders you will find in Chapter System components - Wire feeders. Variants deviating of the accessories on request.

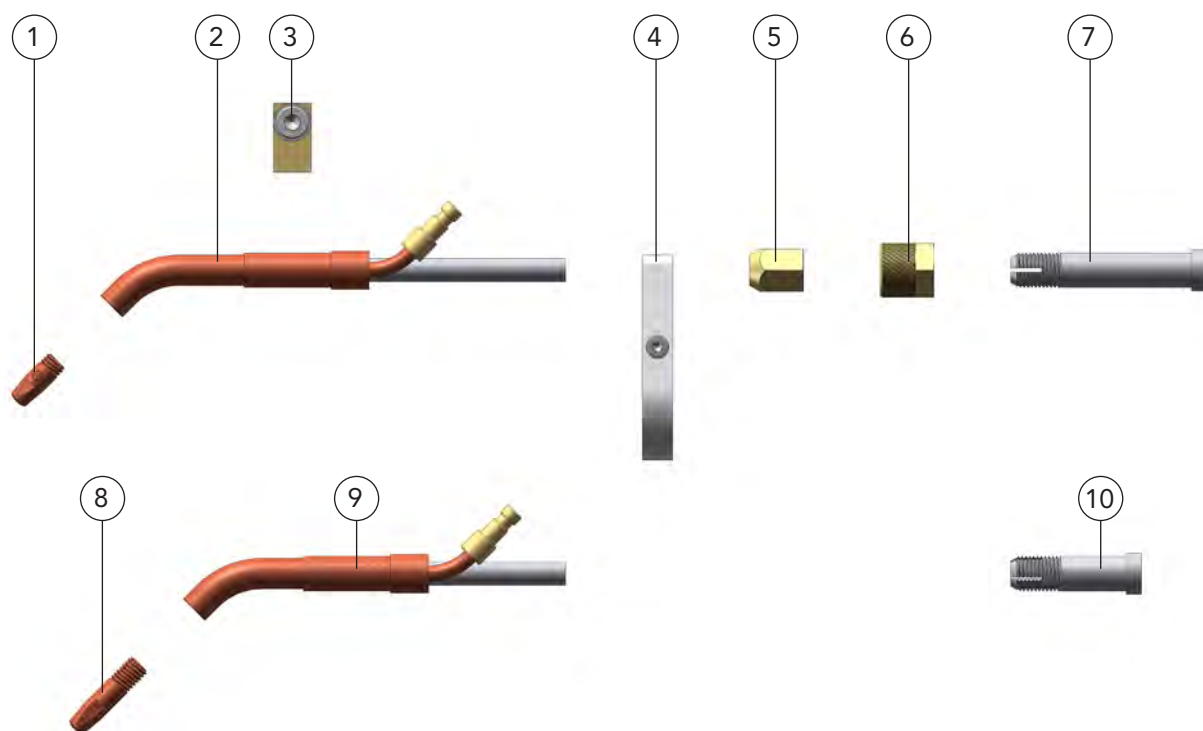
● **When using hot wire sets on the DIX TAZ 400 (8000), you need the cold wire connection adapter DIX KA 400, the wire conduit hose DIX VLM 2011-3.0 and the liner DIX DS 4/2.2-3.5 (see pos. 2 - 4 on page 250).**



# Wire guide sets

## Spare parts and wear parts

### DIX HDZ 400 ; DIX HDZ 402



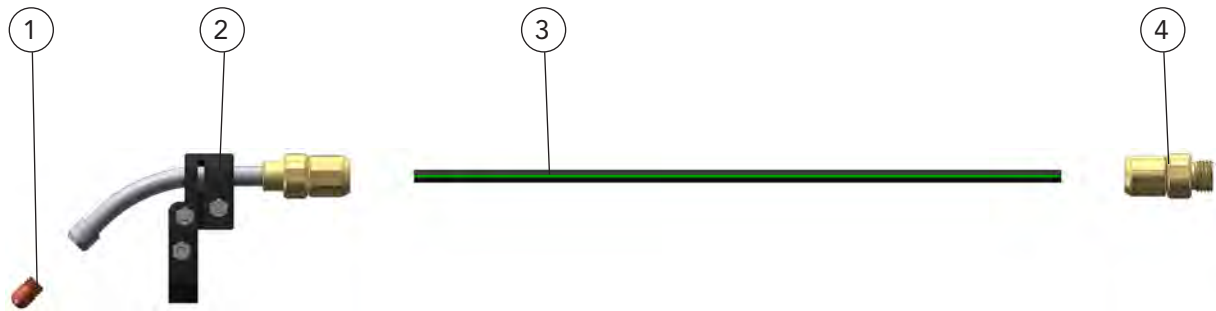
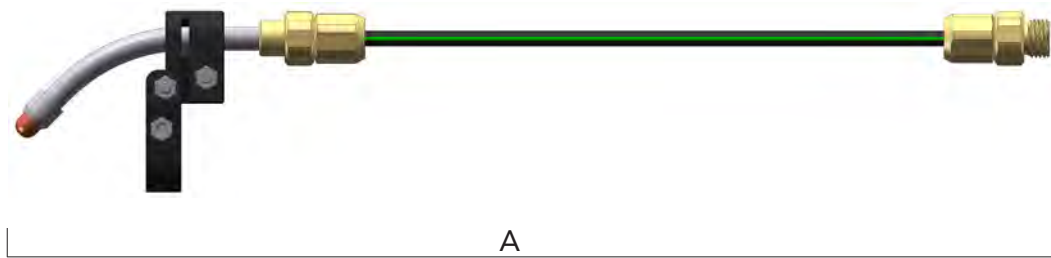
Description	Part name	Part number
1 Guide tip, for HDZ 400	DIX FS 401-__	649030002__
2 Guide pipe, liquid cooled	DIX HDZ 401	648540026
3 Current collector, complete	DIX	
4 Bracket	DIX KD 405	648594005
5 Clamp nut	DIX KD 403	648594003
6 Retaining nut	DIX KD 402	648594002
7 Clamping sleeve	DIX KD 401	648594001
8 Contact tip, for HDZ 402	DIX 3-1-__	6190300__
9 Guide pipe, liquid cooled	DIX HDZ 402	648540030
10 Clamping sleeve	DIX KD 402	648594033

-- Standard wire diameter: 0.8 mm, 1.0 mm and 1.2 mm.  
Other wire diameters on request.



# Wire guide sets DIX KD 7500

For torch head DIX TETZ 7500



Application sample

Description	Part name	Part number
A Cold wire set Standard equipment for wire diameter 1.0 mm and gas nozzle DIX 1-2-012 LK	DIX KD 7500	648597500

Spare parts and wear parts:			
1	Guide tip	DIX FS 400-__	649030001__
	Guide tip	DIX FS 401-__	649030002__
2	Cold wire feed	DIX KD 7501	648597501
3	Capillary liner	∅ 2.2 mm / 0.5 m black/green	DIX DST 2- 0.5 623001005
4	Adapter	DIX AD 101 SW	686950172

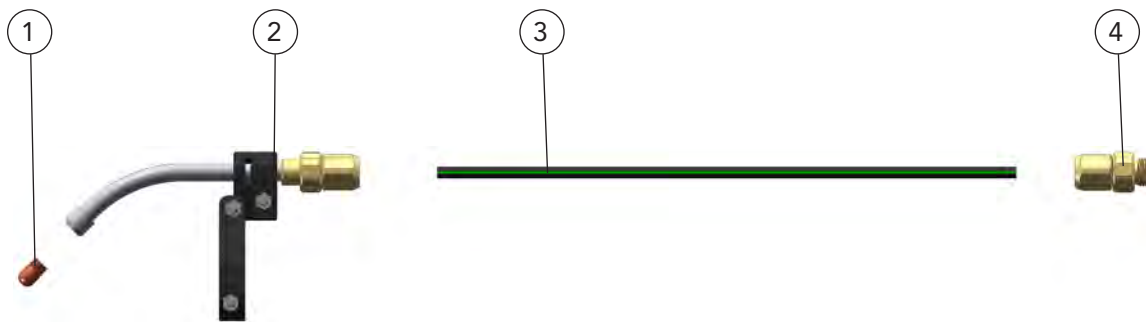
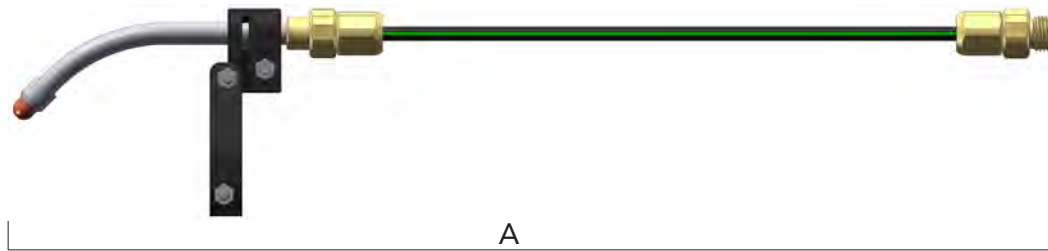
-- Standard wire diameter: 0.8 mm, 1.0 mm and 1.2 mm. Other electrode diameter on request.

▶ **Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.  
Variants deviating of the accessories fittings on request.



# Wire guide sets DIX KD 8500

For torch head DIX TETZ 8500



Application sample

Description	Part name	Part number
A Cold wire set Standard equipment for wire diameter 1.0 mm and gas nozzle DIX 406, 408, 412	DIX KD 8500	648598500

### Spare parts and wear parts:

1	Guide tip	DIX FS 400-__	649030001__
	Guide tip	DIX FS 401-__	649030002__
2	Cold wire feed	DIX KD 8501	648598501
3	Capillary liner	ø 2.2 mm / 0.5 m black/green	DIX DST 2- 0.5 623001005
4	Adapter	DIX AD 101 SW	686950172

-- Standard wire diameter: 0.8 mm, 1.0 mm and 1.2 mm. Other electrode diameter on request.

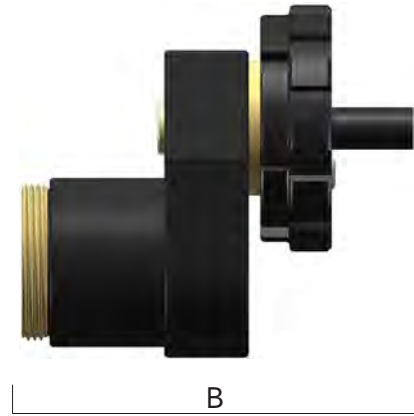
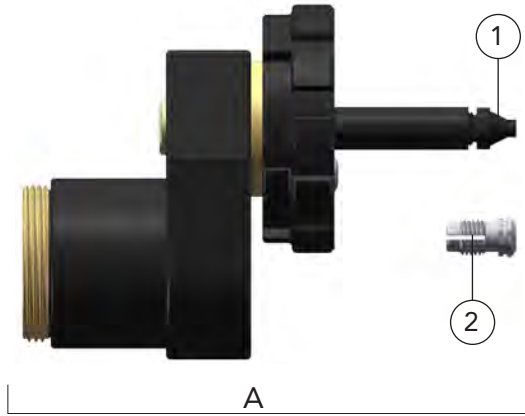
► **Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.  
Variants deviating of the accessories fittings on request.





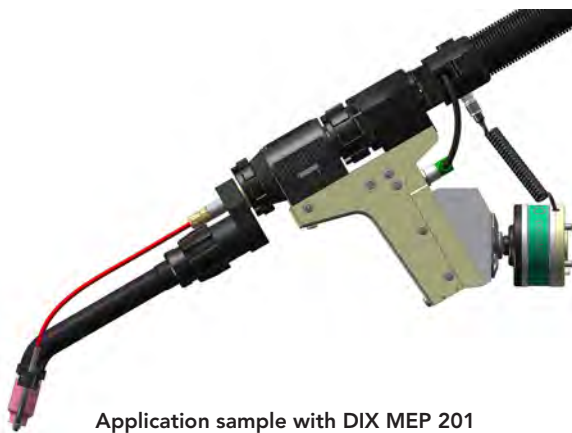
# Torch body (TIG) DIX MEK 8500

For torch head DIX TETZ 7500 und DIX TETZ 8500



4

TIG Automation



Application sample with DIX MEP 201



Application sample with DIX PHF 112

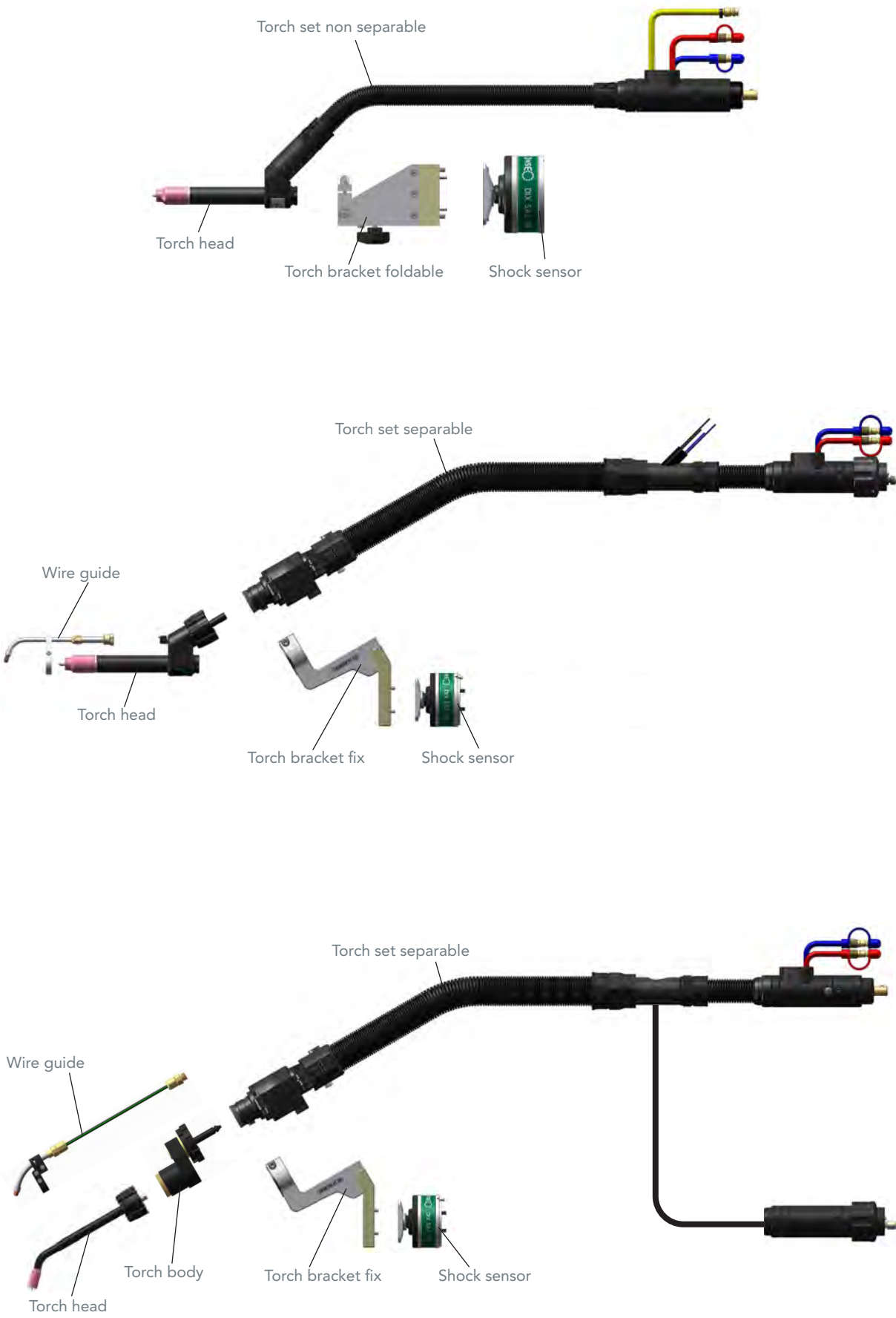
Description	Part name	Part number
A Torch body, including pos. 1 and 2 For wire feeding due to torch bracket DIX MEP 201 and for torch heads DIX TETZ 7500 and DIX TETZ 8500	DIX MEK 8500	6310158500
B Torch body, For wire feeding due to torch bracket DIX PHF 112 and for torch heads DIX TETZ 7500 and DIX TETZ 8500	DIX MEK 8501	6310158501
<b>Spare parts and wear parts:</b>		
1 Intake nozzle	DIX MEP 152	6391536005
2 Clamp sleeve	DIX SH 270	629270270



► **Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories. Variants deviating of the accessories on request.



# TIG equipment for Push application on conventional robots



# Torch brackets TIG

## DIX PHF 110, PHF 112

### For robotic and half automation applications TIG

#### Properties

- ▶ All common TCP's (different lengths and angles) with adapter flanges and further retainers attainable
- ▶ Torch brackets made of aluminium cast alloy
- ▶ High mechanical strength
- ▶ High dimension accuracy
- ▶ Low weight
- ▶ Very good corrosion resistance
- ▶ PHF 110 insulation by insulating sleeve < 8 KV
- ▶ PHF 112 insulation by insulating sleeve and retainer made off fiber-reinforced plastic material < 15 KV



**Torch bracket made of aluminium, fixed PHF 110**  
Double separable version,  
with shock sensor DIX SAS 100  
(application sample)

#### Application

- ▶ For DINSE torch systems  
liquid cooled  
DIX METZ / METTZ 600  
DIX TETZ 600-x / TETZ 600-x ZAW

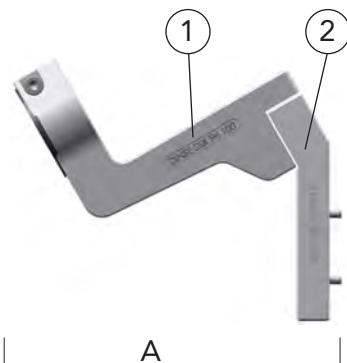


**Torch bracket made of aluminium and GRP, fixed PHF 112**  
Separable version,  
with shock sensor DIX SAS 100  
(application sample)

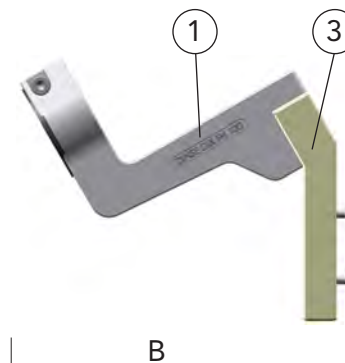
#### Technical data:

**Torch bracket made of aluminium, fixed PHF 110**  
**Torch bracket made of aluminium and GRP, fixed PHF 112**

Angle, horizontal: 30°  
TCP for torch heads,  
with shock sensor DIX SAS 100:  
437 mm to robotic flange  
(electrode stand out: 5 mm)



A



B

Description	Part name	Part number
A Torch bracket, fixed	DIX PHF 110	683500104
B Torch bracket, fixed	DIX PHF 112	683500112
Spare parts and wear parts		
1 Fixed bracket	DIX FH 110	683530110
2 Retainer	DIX HA 110/011 (30°)	683510018
Retainer	DIX HA 112	683510112

**Hint:** Service tools you will find in Chapter Tools and Accessories.

# Torch brackets TIG

## DIX PHAT 4-0400

### For robotic and half automation applications TIG

#### Properties

- ▶ Foldaway, for easy change of the tungsten electrode
- ▶ Torch brackets made of aluminium cast alloy
- ▶ High mechanical strength
- ▶ High dimension accuracy
- ▶ Low weight
- ▶ Very good corrosion resistance
- ▶ Insulation by flange made off fiber-reinforced plastic material < 15 KV



Torch bracket, foldaway PHAT 4-0400 with TAZ 400 and shock sensor DIX SAS 100 (application sample)

#### Application

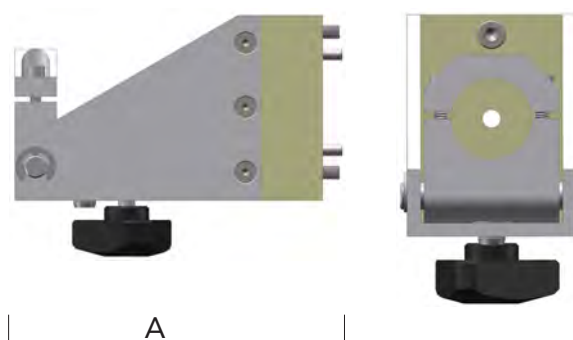
- ▶ For DINSE torch systems  
**liquid cooled**  
DIX TAZ 400  
DIX TAZ 8000

#### Technical data:

**Torch bracket, foldaway PHAT 4-0400**  
TCP for torch heads, with shock sensor DIX SAS 100:  
320 mm to robotic flange  
(electrode stand out: 5 mm)



Torch head in folded position to replace the tungsten electrode.



Description	Part name	Part number
A Torch bracket, foldaway	DIX PHAT 4-0400	6481950400

**Hint:** Service tools you will find in Chapter Tools and Accessories.



# Shock sensors

## DIX SAS 100

For robotic and half automation applications

### Properties

- ▶ Crash-protection of robot, welding torch and welding fixture at collision in set up and automatic mode
- ▶ Quick shut down of the robot through program stop or emergency stop
- ▶ Precise reset after deflection
- ▶ Low weight



Application sample - TIG separable - separable version with torch bracket, fixed

### Application

- ▶ For DINSE torch systems  
**gas cooled**  
 DIX MET / METT 310  
**liquid cooled**  
 DIX METZ / METTZ 600
- ▶ For DINSE torch brackets  
 DIX PHF 100, PHW 100, PHF 110,  
 DIX PHF 130, PHW 130

### Technical data (DIN EN 60 974-7):

Reset accuracy: 400 mm to robotic flange	± 0.03 mm
Deflection range:	20°
Cut-out torque:	14.5 / 18 / 10.5 Nm
Switch class:	Normally closed
Switching capacity:	30V DC/0.5A
Dimension (D/H):	ø 78.5 / 65 mm
Weight:	660 g
Cable length:	100-850 mm
<b>Adapter flange</b>	<b>DIX ADF 6xxx</b>
Bore pattern dependent of robot type	



**Hint:**  
Information to the appropriate adapter flanges ADF you will find in Chapter System Components..

Description	Dimension	Part name	Part number
A Shock sensor	ø 78.5 / 65 mm	DIX SAS 100	683100001

Spare parts and wear parts			
1	Dust boot	DIX SAS 640	683100015
2	Switch set	DIX SAS 650	683100018

**Hint:** Service tools you will find in Chapter Tools and Accessories.



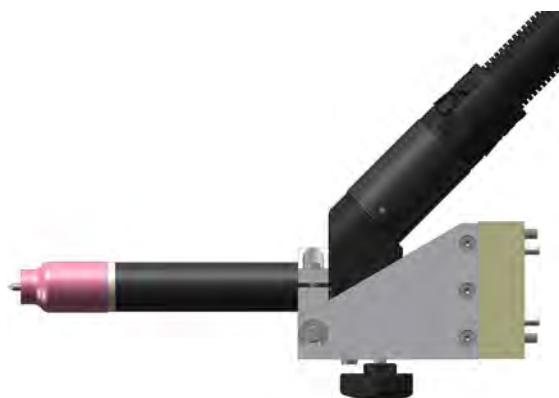
# Torch sets TIG non separable version liquid cooled DIX TAZ 400 ZAW

## Application

- ▶ For DINSE Torch type  
**liquide cooled**  
DIX TAZ 400

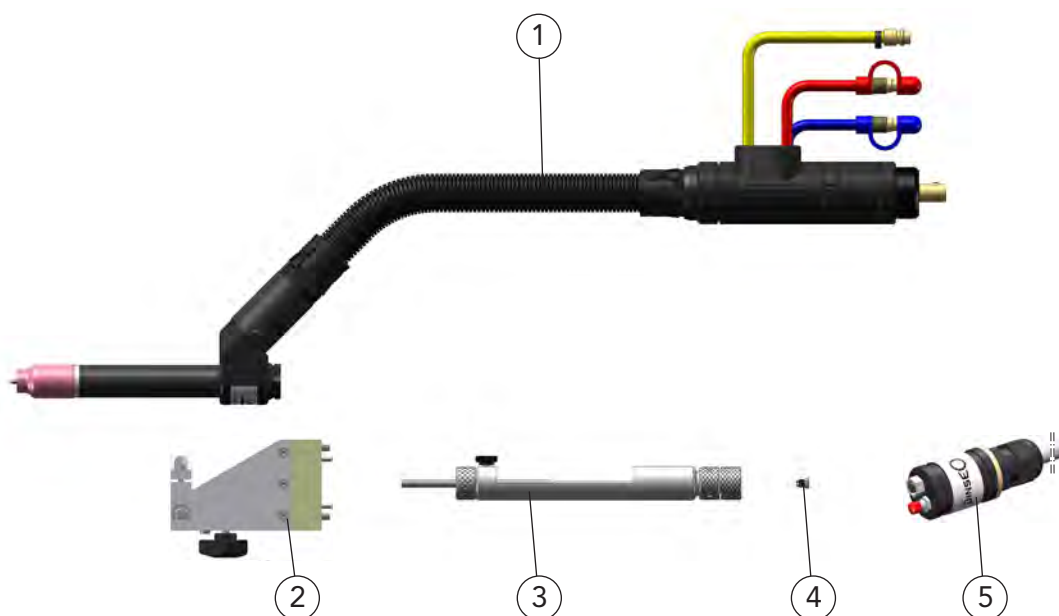
## Properties

- ▶ Adjusting of the electrode with adjusting gauge
- ▶ **Notice:**  
Supply hose without control wires for the shock sensor SAS, due to feedback at high frequency applications



TIG Torch in the bracket (swivelling)  
Application sample

**Hint:**  
Information to the appropriate cold wire set you will find in Chapter TIG AUTOMATION TIG torch heads.



	Description	Dimension	Part name	Part number
1	Torch set	0° 5.0 m	DIX TAZ 400-5.0 ZAW	6405004150
	Torch set	0° 7.0 m	DIX TAZ 400-7.0 ZAW	6405004170
2	Bracket	0°	DIX PHAT 4-0400	6481950400
	Bracket, not shown	45°	DIX PHAT 4-0401	6481950401
3	Adjusting gauge		DIX EL 400	6480200000
4	Clamping sleeve For adjusting of the electrode with the adjusting gauge		DIX SH 400-3.2	6480500320
<b>Option:</b>				
5	Connection box, cable length 5.0 m With connection socket for shock sensor and push button wire threading.		DIX CB-5	629900117

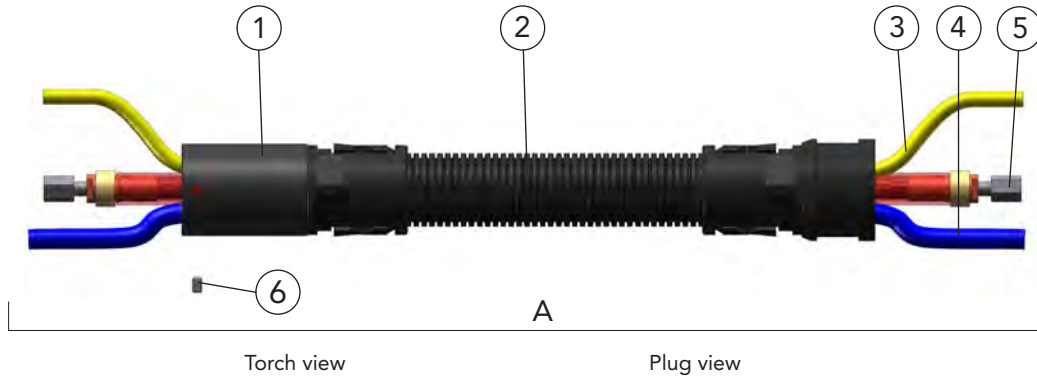
- ▶ Standard equipment for electrode diameter 3.2 mm with gas nozzle diameter 12.5 mm, DIX GD 408. Variants deviating of the standard fittings on request.

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



## Spare parts and wear parts

### Torch sets TAZ 400 ZAW Supply hose



Description	Part name	Part number
A Supply hose	DIX VLTAZ 410-__	64250041_--
1 Housing sleeve	DIX GH 410	6490754100
2 Cover hose set	DIX VL 231-__	649236001_--
3 Gas hose	DIX VL 180-__	639186001_--
4 Water hose	DIX VL 190-__	639196001_--
5 Combi cable	DIX VL 220-__	639226001_--
6 Threaded pin		6490756001

-- Enter the required length of the welding torch set, e.g.: 50 = 5.0 m or 70 = 7.0 m.  
Standard lengths: 5.0 m and 7.0 m



# Torch sets TIG

## Stronger insulation non separable version liquid cooled

### DIX TAZ 8000 ZAW

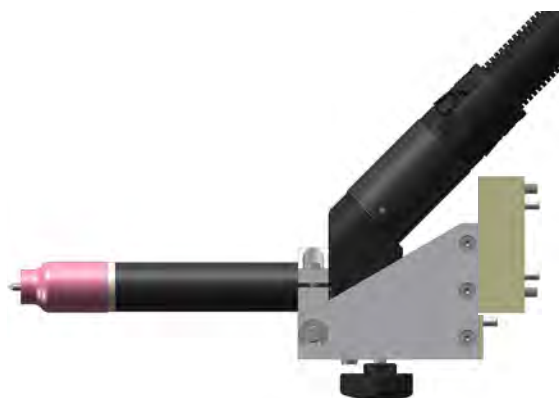
#### Application

- ▶ For DINSE Torch type  
**liquid cooled**  
DIX TAZ 8000

#### Properties

- ▶ Reproducible TCP through screwable electrode
- ▶ Excellent cooling of the electrode
- ▶ Height of service life
- ▶ Insulation < 15 KV

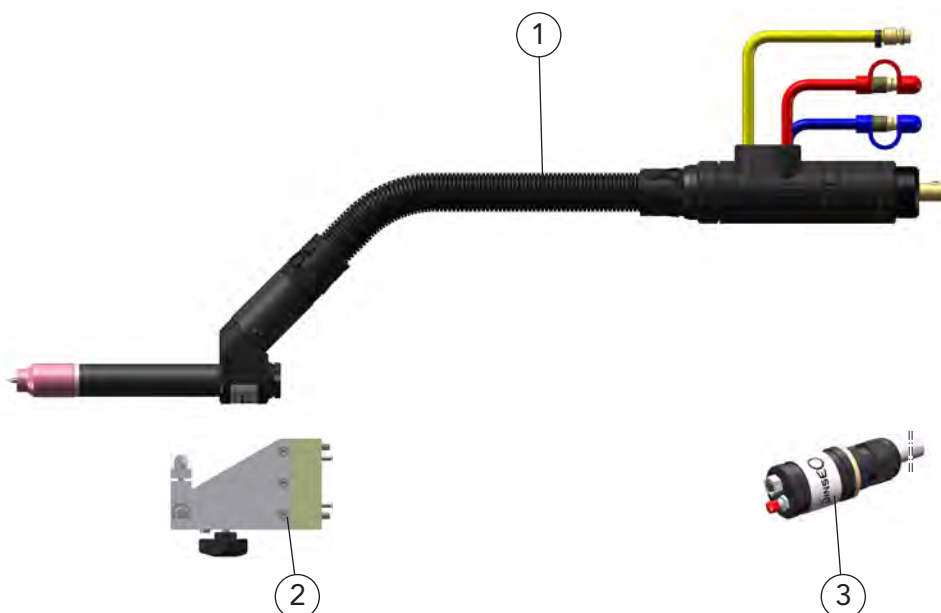
- ▶ **Hint:** Supply hose without control wires for the shock sensor SAS, due to feedback at high frequency applications



TIG Torch in the bracket (swivelling) Application sample

#### Hint:

Information to the appropriate cold wire set you will find in Chapter TIG AUTOMATION TIG torch heads.



	Description	Dimension	Part name	Part number
1	Torch set	0° 5.0 m	DIX TAZ 8000-5,0 ZAW	6405008150
	Torch set	0° 7.0 m	DIX TAZ 8000-7,0 ZAW	6405008170
2	Bracket	0°	DIX PHAT 4-0400	6481950400
	Bracket, not shown	45°	DIX PHAT 4-0401	6481950401

#### Option:

- |   |                                                                                                               |          |           |
|---|---------------------------------------------------------------------------------------------------------------|----------|-----------|
| 5 | Connection box, cable length 5.0 m<br>With connection socket for shock sensor and push button wire threading. | DIX CB-5 | 629900117 |
|---|---------------------------------------------------------------------------------------------------------------|----------|-----------|

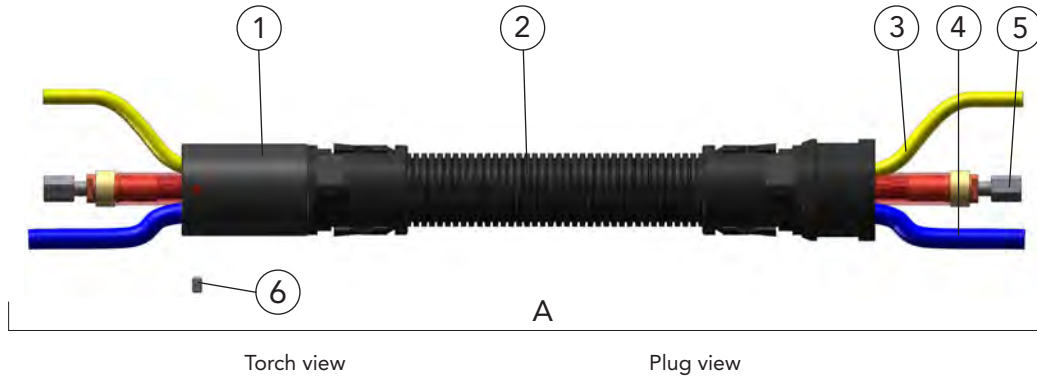
- ▶ Standard equipment for electrode diameter 3.2 mm with gas nozzle diameter 12.5 mm, DIX GD 408. Variants deviating of the standard fittings on request.

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



## Spare parts and wear parts

### Torch sets TAZ 8000 ZAW Supply hose



TIG Automation

4

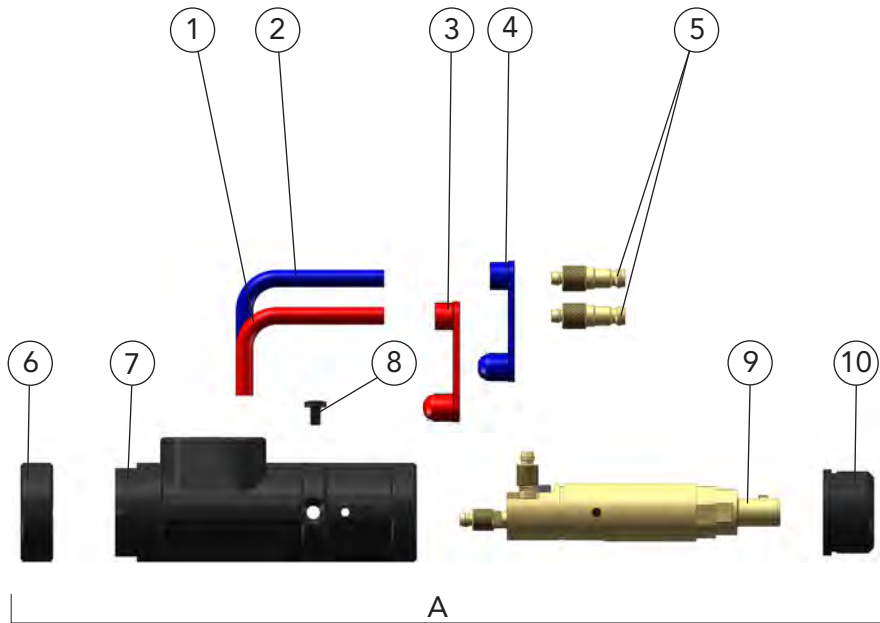
Description	Part name	Part number
A Supply hose	DIX VLTAZ 410-__	64250041_--
1 Housing sleeve	DIX GH 410	6490754100
2 Cover hose set	DIX VL 231-__	649236001_--
3 Gas hose	DIX VL 180-__	639186001_--
4 Water hose	DIX VL 190-__	639196001_--
5 Combi cable	DIX VL 220-__	639226001_--
6 Threaded pin		6490756001

-- Enter the required length of the welding torch set, e.g.: 50 = 5.0 m or 70 = 7.0 m.  
Standard lengths: 5.0 m and 7.0 m





## Torch sets TAZ 400 ZAW, TAZ 8000 ZAW Plug



Description	Part name	Part number
A Plug	DIX KCZ 400 ZAW	644100400
1 Connection hose, blue	DIX VL 17-2 BLAU	629171003
2 Connection hose, red	DIX VL 17-2 ROT	629171004
3 Cap, red	DIX VL 173	629172002
4 Cap, blue	DIX VL 172	629172001
5 Water plug	DIX 16-2	629160000
6 Fixing ring	DIX 12-3-510 HR	6391250013
7 Plug housing	DIX 12-3-510 SG	6391250011
8 Holding screw	DIX 13-2-Z	629131000
9 Plug insert	DIX ZAW 110	649111400
10 Center bushing	DIX ZAW 120	649121400

► Other fittings on request.



# Torch sets TIG

## Stronger insulation separable version liquid cooled

### DIX TETZ 600 ZAW

### DIX TETZ 601 ZAW

#### Application

- ▶ For DINSE Torch head, liquide cooled  
DIX TETZ 400 (L)  
DIX TETZ 8000 (L)  
DIX TETZ 7500  
DIX TETZ 8500

#### Properties

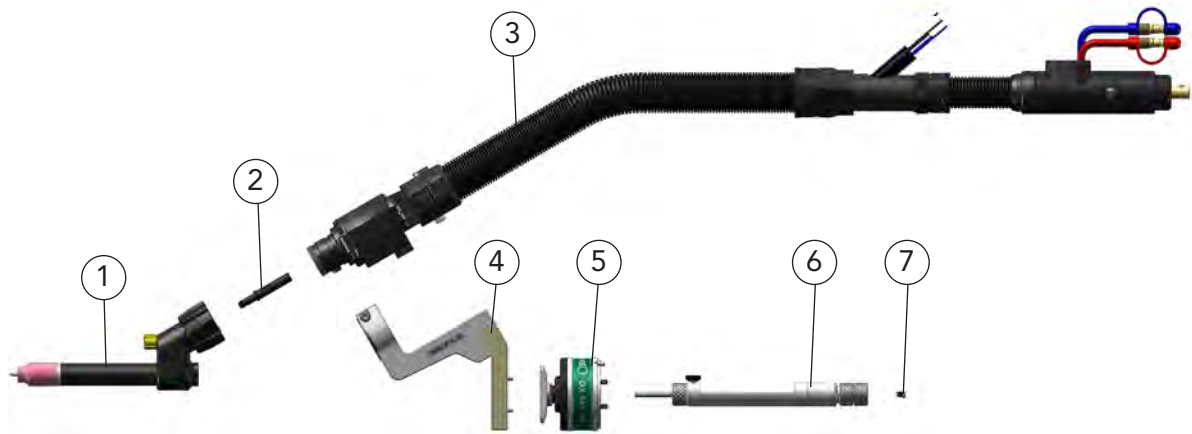
- ▶ Flexible supply hose
- ▶ Insulation < 15 KV



Application sample TIG separable version

#### Hint:

Information to the appropriate cold wire sets you will find in Chapter TIG AUTOMATION - TIG torch heads.



Application sample

Description	Dimension	Part name	Part number
1 Torch head Only for pos. 7 and 8	0°	DIX TETZ 400	641140001
Torch head, not shown	0°	DIX TETZ 8000	641148000
2 Connecting piece, TETZ		DIX TES 400	649066002
3 Torch set	5,0 m	DIX TETZ 600-5,0 ZAW	640610002
Torch set	7,0 m	DIX TETZ 600-7,0 ZAW	640610001
Torch set	5.0 m	DIX TETZ 601-5.0 ZAW	
Torch set	7.0 m	DIX TETZ 601-7.0 ZAW	
4 Torch bracket, fixed		DIX PHF 112	683500112
5 Shock sensor	ø 78.5 / 65 mm	DIX SAS 100	683100001
6 Adjusting gauge only for pos. 1		DIX EL 400	6480200000
7 Clamping sleeve Only for pos. 1 For adjusting of the electrode with adjusting gauge		DIX SH 400-3.2	6480500320

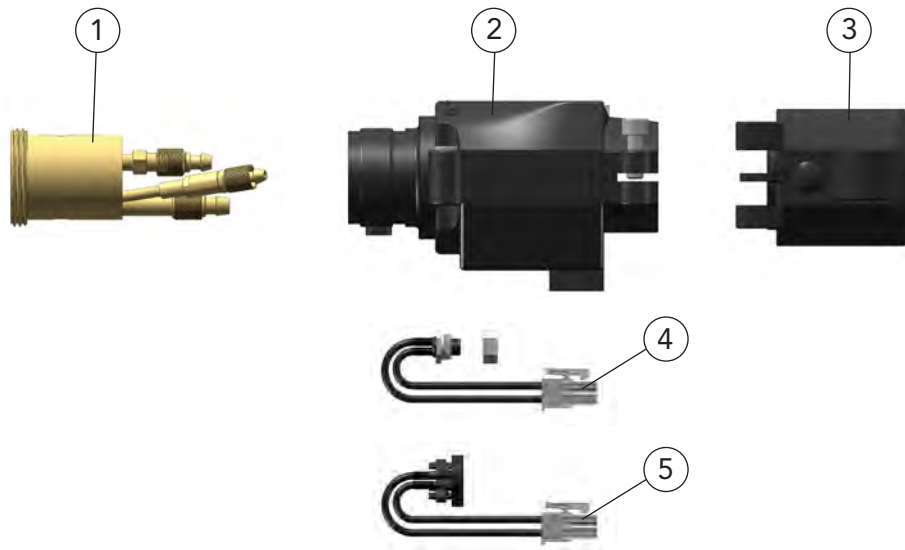
- ▶ Standard equipment for electrode diameter 3.2 mm with gas nozzle diameter 12.5 mm, DIX GD 408. The corresponding adapter flange you find in the accessories list! Use the special spanner DIX SLAT 4 to tighten torch heads. Variants deviating of the standard fittings on request.

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

- ▶ Also available with ZAF connection on request. Ask your DINSE consultant.

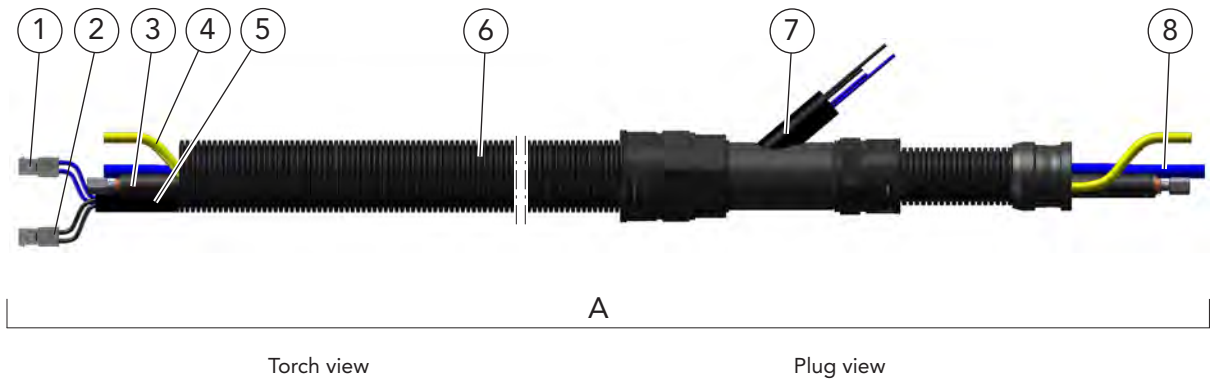


## Connecting set for torch sets TETZ 600(601) ZAW



Description	Part name	Part number
1 Torch connection, MEZ	DIX MEZ 150	6391530003
2 Housing, MET 1	DIX 070	639073019
3 Bend protection sleeve complete:		
Bend protection sleeve, lower part	DIX KSHO/WIG	629900237
Bend protection sleeve, bottom part	DIX KSHU/WIG	629900238
Nut M5, 8 pcs.		629900277
4 Socket set, ME 1 For shock sensor	DIX ME 090	639076001
5 Push-button set, ME 2 For set-up mode	DIX ME 081	639085002
6 Fitting part, METT, not shown	DIX METT 072	6391530001

## Torch sets TETZ 600(601) ZAW Supply hose



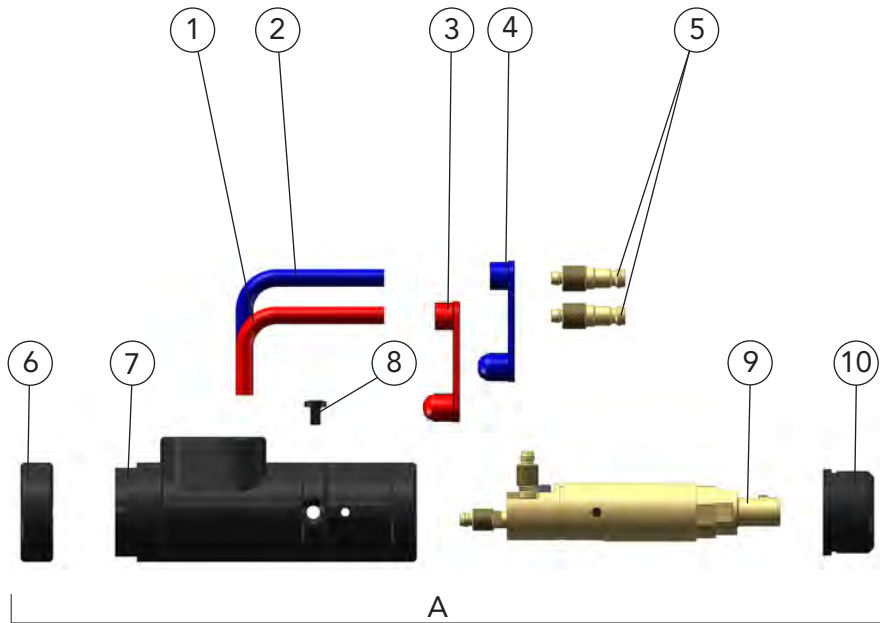
Description	Dimension	Part name	Part number
A Supply hose	5.0 m	DIX VLTETZ 600-5 ZAW	642610002
Supply hose	7.0 m	DIX VLTETZ 600-7 ZAW	642610001
1 Control wire set, blue For shock sensor		DIX VL 210-__	639216001__
2 Control wire set, black For set-up mode		DIX VL 211-__	639216002__
3 Combi cable		DIX VL 220-__	639226001__
4 Gas hose		DIX VL 180-__	639186001__
5 Glass fabric/silicone tube black	50.0 m		629900089
6 Cover hose set TIG		DIX VL 237-__	6392380__
7 Silicone tube, black	25.0 m		629900136
8 Water hose		DIX VL 190-__	639196001__

-- Enter the required length of the welding torch set, e.g.: 50 = 5.0 m or 70 = 7.0 m.  
Standard length: 5.0 and 7.0 m

▶ Other lengths on request.



## Torch sets TETZ 600(601) ZAW Plug



	Description	Part name	Part number
A	Plug	DIX KCZ 400 ZAW	644100400
1	Connection hose, blue	DIX VL 17-2 BLAU	629171003
2	Connection hose, red	DIX VL 17-2 ROT	629171004
3	Cap, red	DIX VL 173	629172002
4	Cap, blue	DIX VL 172	629172001
5	Water plug	DIX 16-2	629160000
6	Fixing ring	DIX 12-3-510 HR	6391250013
7	Plug housing	DIX 12-3-510 SG	6391250011
8	Holding screw	DIX 13-2-Z	629131000
9	Plug insert	DIX ZAW 110	649111400
10	Center bushing	DIX ZAW 120	649121400

► Other fittings on request.



# Torch sets TIG

## Stronger insulation separable version liquid cooled

### DIX TETZ 600 SAZ

### DIX TETZ 602 SAZ

#### Application

- ▶ For DINSE Torch head, liquide cooled  
DIX TETZ 400 (L)  
DIX TETZ 8000 (L)  
DIX TETZ 7500  
DIX TETZ 8500

#### Properties

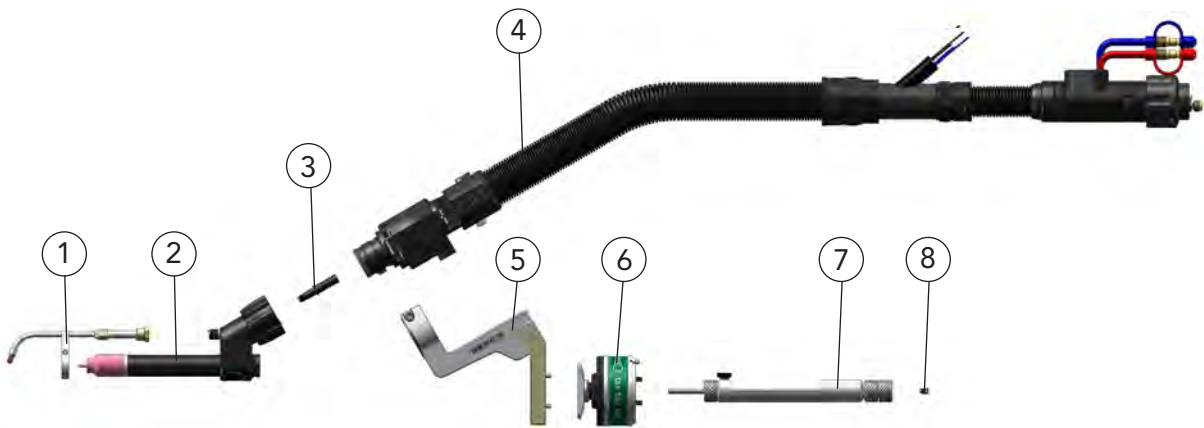
- ▶ Flexible supply hose
- ▶ Insulation < 15 KV
- ▶ **Hint:** Supply hose without control wires for the shock sensor SAS, due to feedback at high frequency applications



Application sample TIG separable version

#### Hint:

Information to the appropriate cold wire sets you will find in Chapter TIG AUTOMATION - TIG torch heads.



Application sample

Description	Dimension	Part name		Part number
1 Cold wire set		DIX	KD 400	648540001
2 Torch head Only for pos. 8 and 9		0°	DIX TETZ 400	641140001
Torch head, not shown		0°	DIX TETZ 8000	641148000
3 Connecting piece, TETZ		DIX	TES 400	649066002
4 Torch set	5.0 m	DIX	TETZ 600-5,0 SAZ	640600002
Torch set	7.0 m	DIX	TETZ 600-7,0 SAZ	640600001
Torch set	5.0 m	DIX	TETZ 602-5.0 SAZ	
Torch set	7.0 m	DIX	TETZ 602-7.0 SAZ	
5 Torch bracket, fixed		DIX	PHF 112	683500112
6 Shock sensor	ø 78.5 / 65 mm	DIX	SAS 100	683100001
7 Adjusting gauge Only for pos. 2		DIX	EL 400	648020000
8 Clamping sleeve Only for pos. 2 For adjusting of the electrode with adjusting gauge		DIX	SH 400-3.2	6480500320

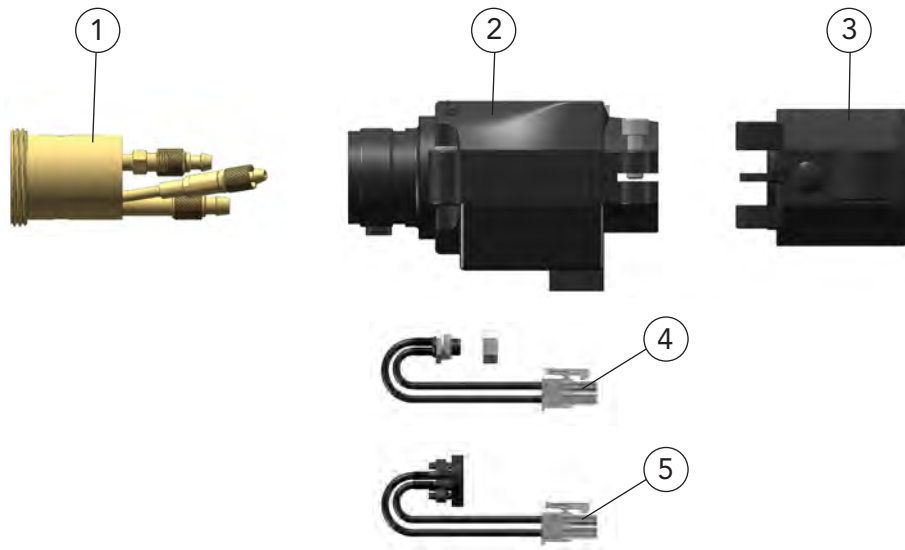
- ▶ Standard equipment for electrode diameter 3.2 mm with gas nozzle diameter 12.5 mm, DIX GD 408. The corresponding adapter flange you find in the accessories list! Use the special spanner DIX SLAT 4 to tighten torch heads. Variants deviating of the standard fittings on request.

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

- ▶ Also available with ZAF connection on request. Ask your DINSE consultant.

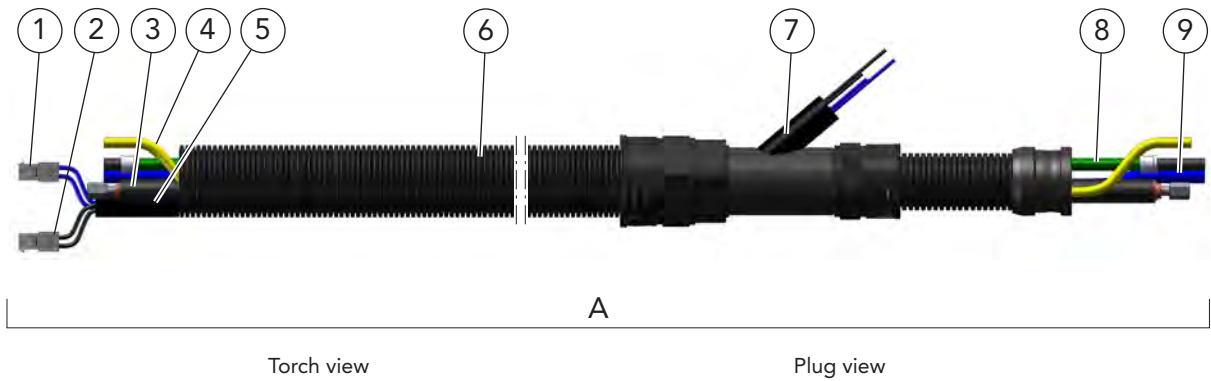


## Connecting set for torch sets TETZ 600(602) SAZ



Description	Part name	Part number
1 Torch connection, MEZ	DIX MEZ 150	6391530003
2 Housing, MET 1	DIX 070	639073019
3 Bend protection sleeve complete:		
Bend protection sleeve, lower part	DIX KSHO/WIG	629900237
Bend protection sleeve, bottom part	DIX KSHU/WIG	629900238
Nut M5, 8 pcs.		629900277
4 Socket set, ME 1 For shock sensor	DIX ME 090	639076001
5 Push-button set, ME 2 For set-up mode	DIX ME 081	639085002
6 Fitting part, METT, not shown	DIX METT 072	6391530001

## Torch sets TETZ 600(602) SAZ Supply hose



Description	Dimension	Part name	Part number
A Supply hose	5.0 m	DIX VLTETZ 600-5 ZAW	642610002
Supply hose	7.0 m	DIX VLTETZ 600-7 ZAW	642610001
1 Control wire set, blue For shock sensor		DIX VL 210-__	639216001__
2 Control wire set, black For set-up mode		DIX VL 211-__	639216002__
3 Combi cable		DIX VL 220-__	639226001__
4 Gas hose		DIX VL 180-__	639186001__
5 Glass fabric/silicone tube black	50.0 m		629900089
6 Cover hose set TIG		DIX VL 237-__	6392380__
7 Silicone tube, black	25.0 m		629900136
8 Water hose		DIX VL 190-__	639196001__

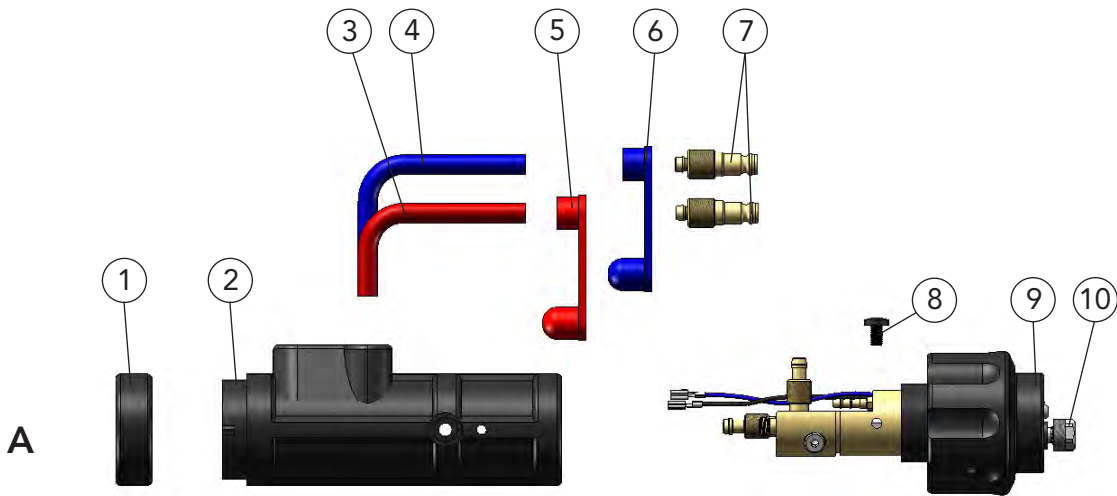
-- Enter the required length of the welding torch set, e.g.: 50 = 5.0 m or 70 = 7.0 m.  
Standard length: 5.0 and 7.0 m

▶ Other lengths on request.





# Torch sets TETZ 600(602) SAZ Plug



Description	Part name	Part number
A Plug	DIX KCZME 610 SAZ	638900051
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG-EC	6391250015
3 Connection hose, red	DIX VL 171	629171004
4 Connection hose, blue	DIX VL 170	629171003
5 Cap, red	DIX VL 173	629172002
6 Cap, blue	DIX VL 172	629172001
7 Water plug	DIX 16-2	629160000
8 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
9 Plug insert	DIX ME 610 SAZ	639116079
10 Clamp nut	DIX MEZ 113	639116007

## ECO.flow

„Save gas! ...the ECONomic way!“



DRV-3xx

- ▶ multistage gas pressure regulator
- ▶ up to 50% less gas consumption
- ▶ guarantees a steady gas flow
- ▶ allows a high-quality welding seam



DRV-1xx

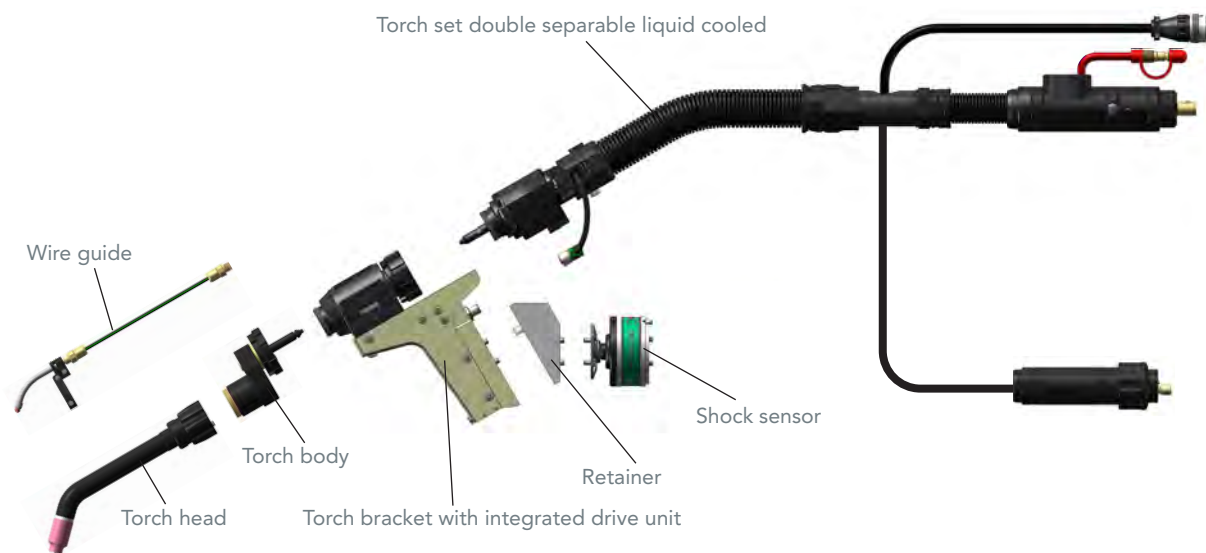
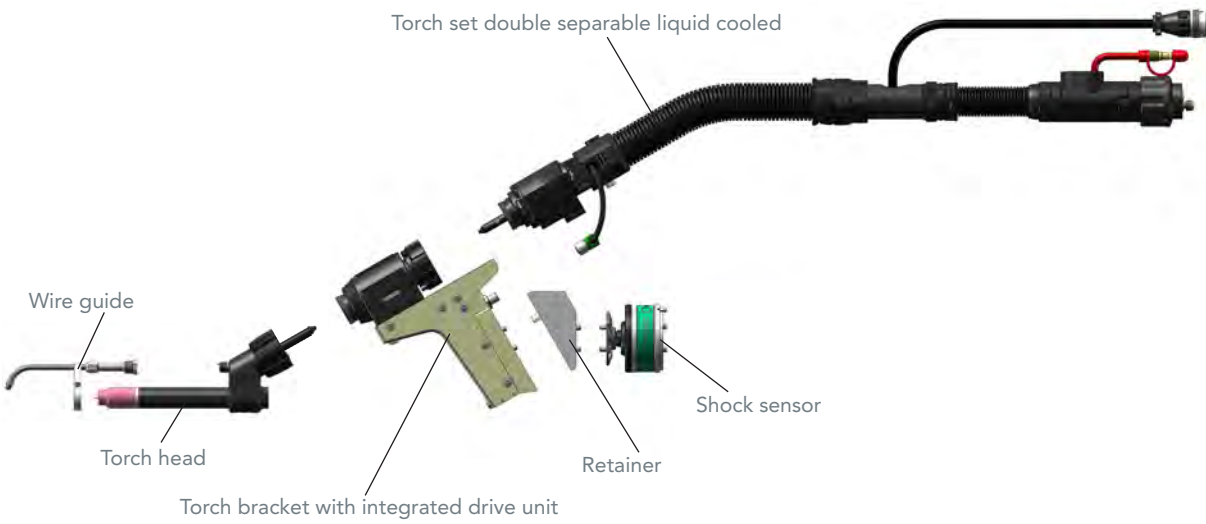


DRV-2xx



DINSE – always one step ahead.

# TIG welding equipment for Push-Pull(Push) applications on conventional robots





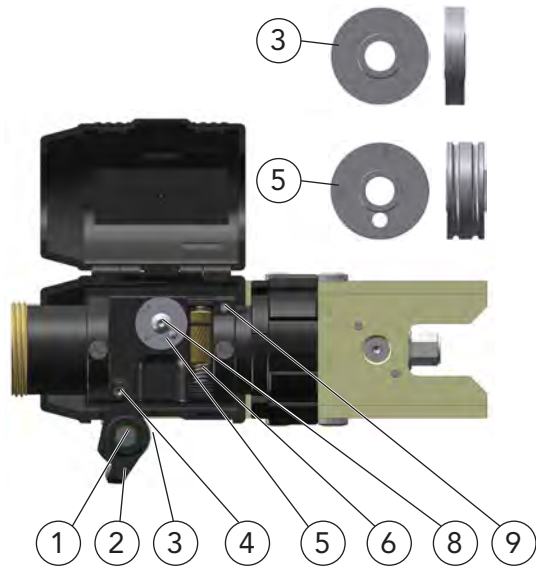
# Front drive units TIG

## DIX MEP 201 EW (TW)

For PUSH-PULL and PUSH-PUSH applications

### Application

- ▶ For DINSE torch systems  
liquid cooled  
DIX MEPWTTZ 600 SAZ/TA (EC)
- ▶ Torch bracket with integrated  
wire feeder  
(Delivery without drive rolls)



Description	Part name	Part number
A Torch bracket, Encoder	DIX MEP 201 EW	631620037
B Torch bracket, Tacho	DIX MEP 201 TW	631620036
Spare parts and wear parts		
1 Pressure system, with pos. 2 and 3	DIX MEP 310	6393116000
2 Pressure housing, without pressure roll	DIX MEP 311	639311001
3 Pressure roll	DIX MEP 312	639311600011
4 Screw axle	DIX MEP 351	639350600037
5 Drive roll, for aluminium alloy	DIX MEP 321-__ A	639321__00
6 Drive roll, for steel	DIX MEP 322-__ S	639322__00
6 Stirrup lock	DIX MEP 340	639340001
7 Pivot bearing, for stirrup lock, not shown	DIX MEP 341	639340002
8 Flange screw		683216020
9 Threaded pin		6390601400022

-- Enter the required wire diameter, e.g.: 08 = 0.8 mm, 12 = 1.2 mm, or 16 = 1.6 mm  
Standard diameter: 0.8 mm, 1.0 mm, 1.2 mm and 1.6 mm.  
Other wire diameters on request.

**Hint:** Service tools you will find in Chapter Tools and Accessories.



# Shock sensors

## DIX SAS 200

### For robotic and half automation applications



#### Properties

- ▶ Crash-protection of robot, welding torch and welding fixture at collision in set up and automatic mode
- ▶ Quick shut down of the robot through program stop or emergency stop
- ▶ Precise reset after deflection
- ▶ Low weight



Application sample - WIG - double separable version with torch bracket, PUSH-PUSH tacho / PUSH-PULL encoder

#### Application

- ▶ For DINSE torch systems  
**liquid cooled**  
DIX MEPTTZ 600  
DIX MEPWTTZ 600 SAZ/T (EC)
- ▶ For DINSE torch brackets  
DIX MEP 200 EW (TW)



#### Technical data (DIN EN 60 974-7):

Reset accuracy: 400 mm to robotic flange	± 0.03 mm
Deflection range:	20°
Cut-out torque:	18.0 / 27 / 14.5 Nm
Switch class:	Normally closed
Switching capacity:	30V DC/0,5A
Dimension (D/H):	ø 78.5 / 65 mm
Weight:	660 g
Cable length:	100-850 mm
<b>Adapter flange</b> Bore pattern dependent of robot type	<b>DIX ADF 6xxx</b>

#### Hint:

Information to the appropriate adapter flanges ADF you will find in Chapter System Components..

	Description	Dimension	Part name	Part number
A	Shock sensor	ø 78.5 / 65 mm	DIX SAS 200	683100200

#### Spare parts and wear parts

1	Dust boot		DIX SAS 640	683100015
2	Switch set		DIX SAS 650	683100018

Hint: Service tools you will find in Chapter Tools and Accessories.



# Torch sets TIG

## Stronger insulation double separable version liquid cooled DIX MEPWTTZ 600 SAZ/TA PUSH-PULL + PUSH-PUSH Tacho

### Application

- ▶ For DINSE Torch head  
**liquide cooled**  
DIX TETZ 400 (L)  
DIX TETZ 8000 (L)  
DIX TETZ 7500  
DIX TETZ 8500

### Properties

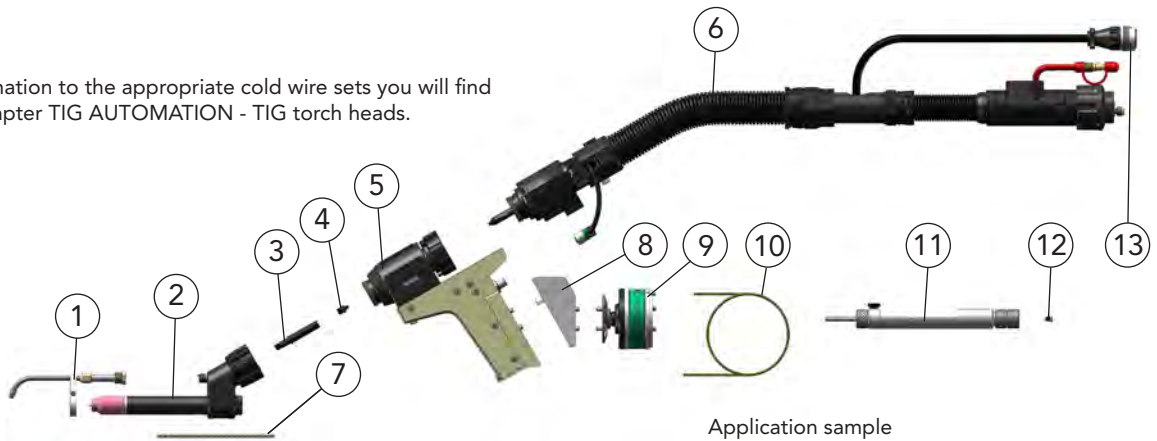
- ▶ Flexible supply hose
- ▶ Insulation < 15 KV



Application sample  
TIG double separable version for PUSH-PUSH Tacho

### Hint:

Information to the appropriate cold wire sets you will find in Chapter TIG AUTOMATION - TIG torch heads.



Application sample

Description	Dimension	Part name		Part number
1 Cold wire set		DIX	KD 400	648540001
2 Torch head Only for pos. 13 and 14		0° DIX	TETZ 400	641140001
Torch head , not shown		0° DIX	TETZ 8000	641148000
3 Connecting piece, TEPTZ		DIX	TEPS 400	649066001
4 Intake nozzle		DIX	MEP 152	6391536005
5 Torch bracket, tacho With integrated wire feeder without drive roll		DIX	MEP 201 TW	631620036
6 Torch set	4.0 m	DIX	MEPWTTZ 600-4 SAZ/TA	630667007
Torch set	5.0 m	DIX	MEPWTTZ 600-5 SAZ/TA	630667005
7 Liner	ø 2.2 mm/0.3m	DIX	DS 4/2.2-0.3	639300002
Drive roll, not shown, for steel	ø 1.0 mm S	DIX	MEP 322-1.0 S	6393221000
8 Retainer		DIX	HA 201 (30°)	683510204
9 Shock sensor	ø 78.8 / 65 mm	DIX	SAS 200	683100200
10 Liner	ø 2.9 mm/4.5m	DIX	DS 4/2.9-4.5	623000545
Liner	ø 2.9 mm/5.5m	DIX	DS 4/2.9-5.5	623000555
11 Adjusting gauge Only for pos. 2		DIX	EL 400	6480200000
12 Clamping sleeve, only for pos. 2 For adjusting of the electrode with the adjusting gauge		DIX	SH 400-3.2	6480500320
13 Plug set		DIX	MEX 100	639077001

- ▶ Standard equipment for electrode diameter 3.2 mm with gas nozzle diameter 12.5 mm, DIX GD 408, and wire diameter 1.0 mm steel. The corresponding adapter flange you find in the accessories list! Use the special spanner DIX SLAT 4 to tighten torch heads. Variants deviating of the standard fittings on request.

**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



# Torch sets TIG

## Stronger insulation double separable version liquid cooled

### DIX MEPWTTZ 600 SAZ/EC PUSH-PULL Encoder

#### Application

- For DINSE Torch head  
**liquide cooled**  
DIX TETZ 400 (L)  
DIX TETZ 8000 (L)  
DIX TETZ 7500  
DIX TETZ 8500

#### Properties

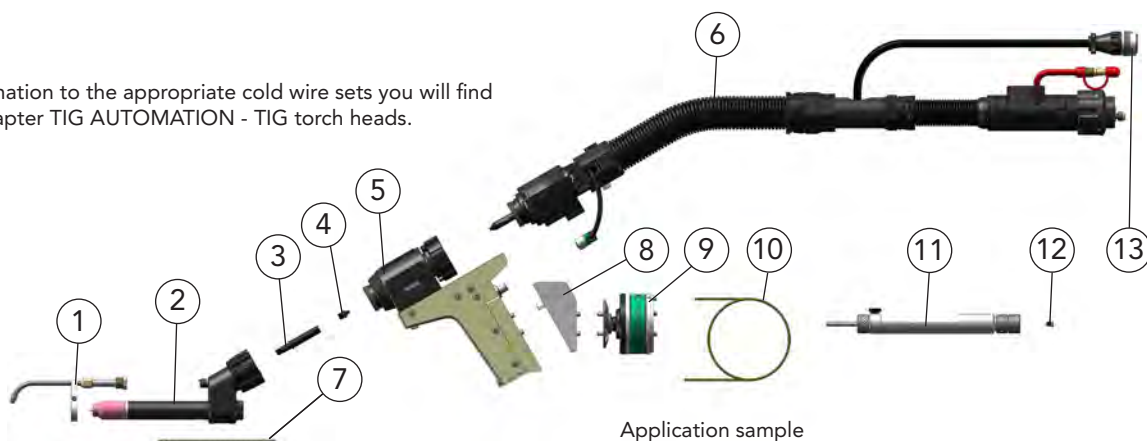
- Flexible supply hose
- Insulation < 15 KV



TIG double separable version for PUSH-PULL Encoder  
Application sample

#### Hint:

Information to the appropriate cold wire sets you will find in Chapter TIG AUTOMATION - TIG torch heads.



Application sample

Description	Dimension	Part name	Part number
1 Cold wire set		DIX KD 400	648540001
2 Torch head Only for pos. 13 and 14	0°	DIX TETZ 400	641140001
Torch head, not shown	0°	DIX TETZ 8000	641148000
3 Connecting piece, TEPTZ		DIX TEPS 400	649066001
4 Intake nozzle		DIX MEP 152	6391536005
5 Torch bracket, Encoder With integrated wire feeder without drive roll		DIX MEP 201 EW	631620037
6 Torch set	4.0 m	DIX MEPWTTZ 600-4 SAZ/EC	630667003
Torch set	5.0 m	DIX MEPWTTZ 600-5 SAZ/EC	630667001
7 Liner	∅ 2.2 mm/0.3m	DIX DS 4/2.2-0.3	639300002
Drive roll, not shown, for steel	∅ 1.0 mm S	DIX MEP 322-1.0 S	6393221000
8 Retainer		DIX HA 201 (30°)	683510204
9 Shock sensor	∅ 78.8 / 65 mm	DIX SAS 200	683100200
10 Liner	∅ 2.9 mm/4.5m	DIX DS 4/2.9-4.5	623000545
Liner	∅ 2.9 mm/5.5m	DIX DS 4/2.9-5.5	623000555
11 Adjusting gauge Only for pos. 2		DIX EL 400	6480200000
12 Clamping sleeve, only for pos. 2 For adjusting of the electrode with adjusting gauge		DIX SH 400-3.2	6480500320
13 Plug set		DIX MEX 100	639077001

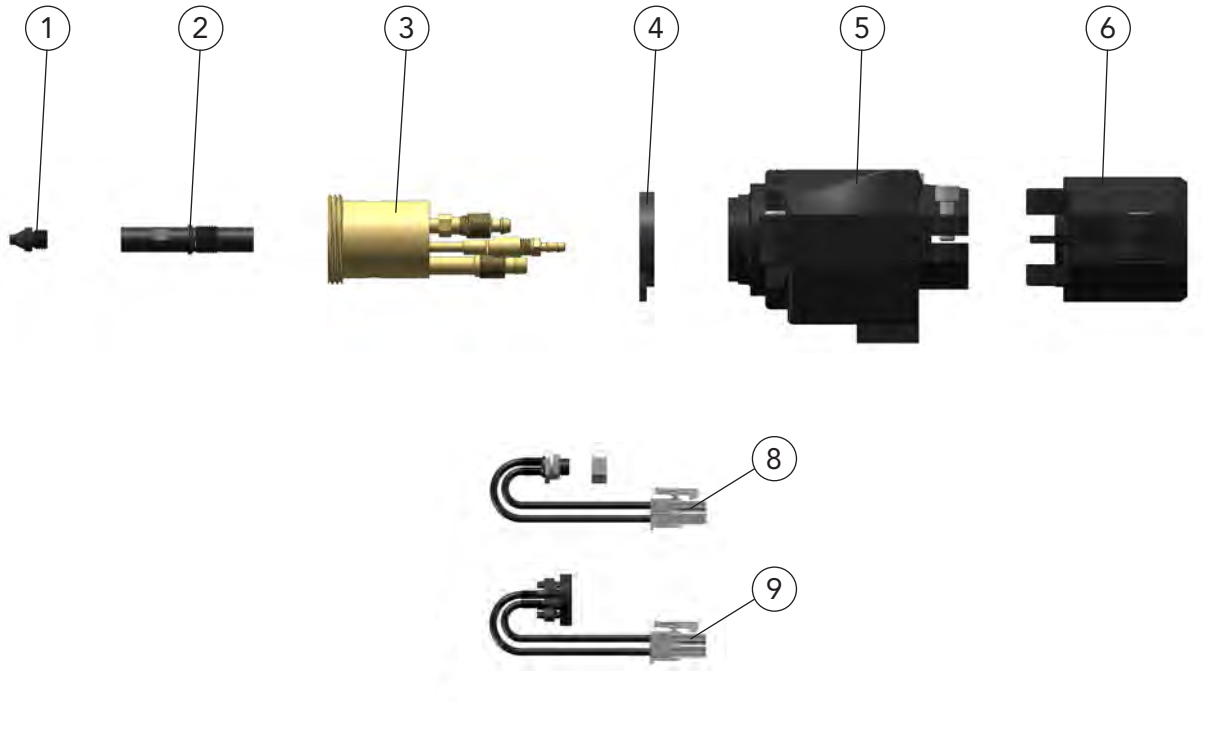
- Standard equipment for electrode diameter 3.2 mm with gas nozzle diameter 12.5 mm, DIX GD 408, and wire diameter 1.0 mm steel. The corresponding adapter flange you find in the accessories list!  
Use the special spanner DIX SLAT 4 to tighten torch heads. Variants deviating of the standard fittings on request.

**Hint:** Other liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.

You will find the appropriate for PUSH-PULL controls in Chapter 4 System Components - controls.



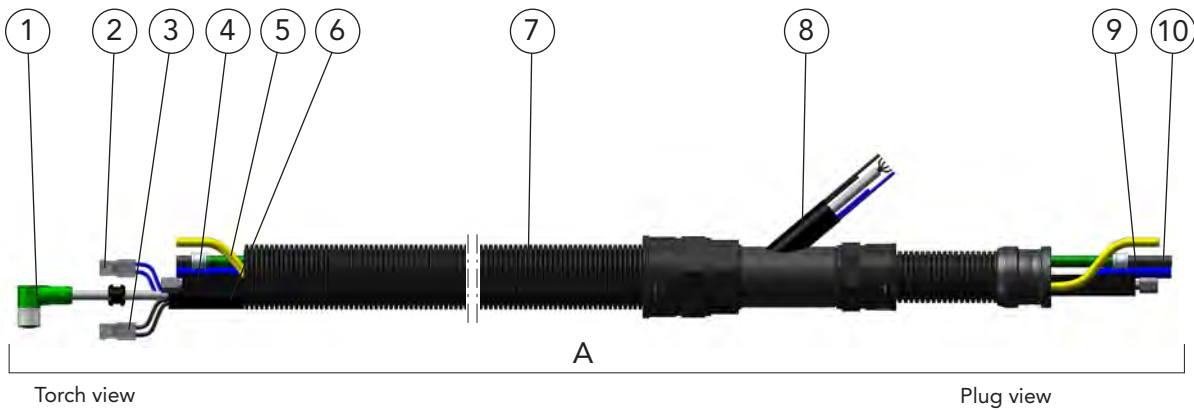
## Torch sets MEPWTTZ 600 SAZ/TA (EC) Connecting set



Description	Part name	Part number
1 Intake nozzle	DIX MEP 152	6391536005
2 Connecting piece, MEP	DIX MEP 151	6391536003
3 Drive connection, MEPZ	DIX MEPZ 150	6391536001
4 Housing - supporting ring, METT	DIX METT 071	639073100012
5 Housing	DIX MEPTTZ 600 WIG EC/TA	639073081
6 Bend protection sleeve complete:		
Bend protection sleeve, top part	DIX KSHO/WIG	629900237
Bend protection sleeve, bottom part	DIX KSHU/WIG	629900238
Nut M5, 8 pcs.		629900277
7 Fitting part, METT, not shown	DIX METT 072	6391530001
8 Socket set, ME 1 For shock sensor	DIX ME 090	639076001
9 Push-button set, ME 2 For set-up mode	DIX ME 081	639085002



## Torch sets MEPWTTZ 600 SAZ/TA (EC) Supply hose



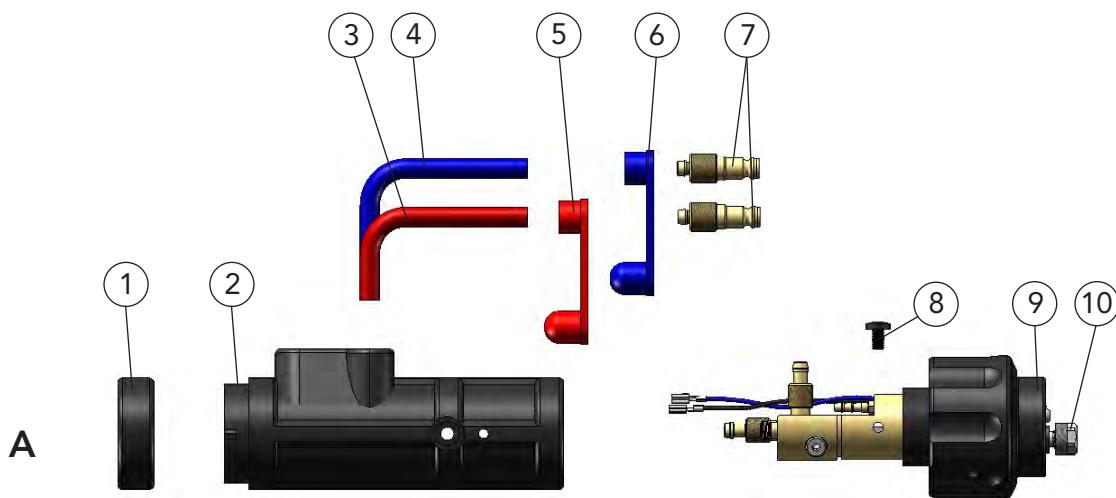
Description	Dimension	Part name	Part number
A Supply hose	4.0 m	VLEWPZ 600-4 EC/T	632667003
Supply hose	5.0 m DIX	VLEWPZ 600-5 EC/T	632667001
1 Control wire set For encoder and tacho version	10.0 m DIX	FD 200 CL 10	7430040044
2 Control wire set, blue For shock sensor	DIX	VL 210-__	639216001__
3 Control wire set, black For set-up mode	DIX	VL 211-__	639216002__
4 Combi cable	DIX	VL 220-__	639226001__
5 Gas hose	DIX	VL 180-__	639186001__
6 Glass fabric/Silicone hose, black	50.0 m		629900089
7 Cover hose set TIG	DIX	VL 237-__	6392380__
8 Silicone hose, black	25.0 m		629900136
9 Water hose	DIX	VL 190-__	639196001__
10 Conduit hose	DIX	VL 2010-__	639206303__

-- Enter the required length of the welding torch set, e.g.: 12 = 1.2 m or 14 = 1.4 m.  
Standard length: 4.0 m and 5.0 m

► Other lengths on request.



## Torch sets MEPWTTZ 600 SAZ/T (EC) Plug



Description	Part name	Part number
A Plug	DIX KCZME 610 SAZ	638900051
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG-EC	6391250015
3 Connection hose, red	DIX VL 171	629171004
4 Connection hose, blue	DIX VL 170	629171003
5 Cap, red	DIX VL 173	629172002
6 Cap, blue	DIX VL 172	629172001
7 Water plug	DIX 16-2	629160000
8 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
9 Plug insert	DIX ME 610 SAZ	639116079
10 Clamp nut	DIX MEZ 113	639116007



05

SYSTEM-  
COMPONENTS

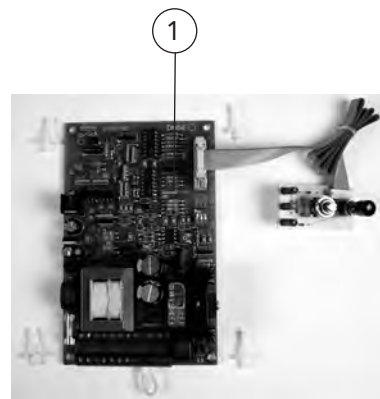
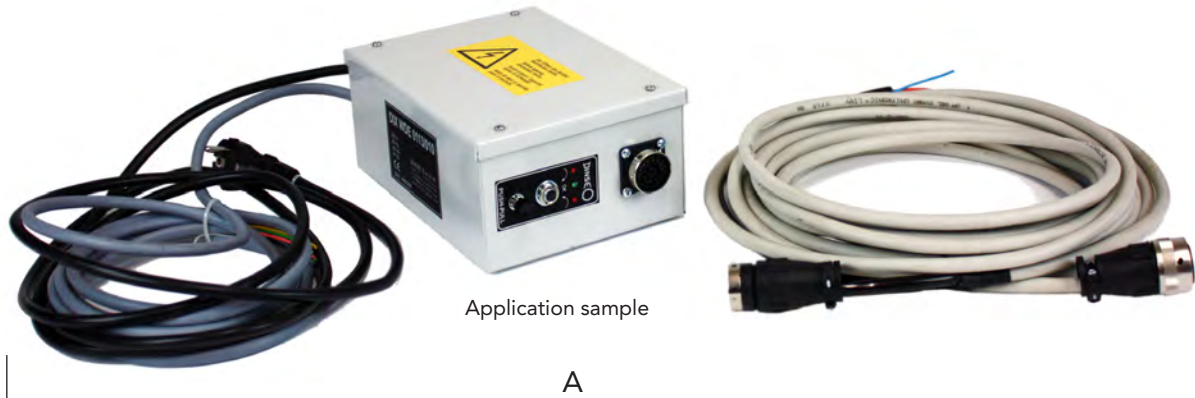
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DIX PRS 600 TD (TANDEM)	336
DIX PRS 1000	337
DIX PRS 1000 D	338



# PUSH-PULL Controls DIX WDE 0113 For automation PUSH-PULL

Spare parts and wear parts



Description	Part name	Part number
A Control For PUSH-PULL	DIX WDE 0113(/xxx)	7370600__
1 PC-board Also available unmounted.	DIX ESMO 0113	719420113

● The control units of the DIX WDE 0113 series can be individually adapted to your application. Please contact your DINSE specialist advisor, he will coordinate with you how the ideal control unit must be equipped for your application or whether an existing control unit variant is suitable for you.

System components

5



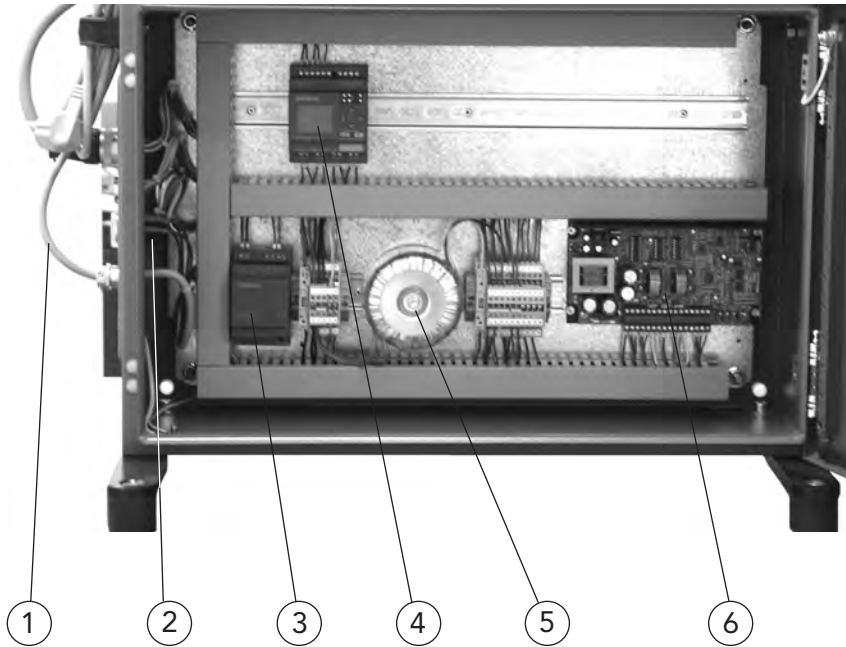


# Controls

## DIX WDE 312

For automation MIG/MAG, TIG

### Spare parts and wear parts



5 System components

Description	Part name	Part number
Control	DIX WDE 312	737030020
1 Main cable	DIX DV-55-013	719550013
2 Switch	DIX KS-02-8010	729028010
Protective cap, not shown	DIX KS-03-8010	729038010
3 Power supply unit 24V/1.3A	DIX NT 324-13	737030021
4 Logic modul	DIX LM 24 RC	737030018P
5 Transformer	DIX KDTR 0450	719590002
6 Servo amplifier	DIX ESSV 0560	719600560



# Adapter flanges DIX ADF(D) 6xxx

For robotic and automatic torches  
MIG/MAG, TIG



SAS 100 / 200



Robot

Application sample

Description	Manufacturer	Robot type	Part name	Part number
1 Flange	ABB	IRB 1200	DIX ADF 6002	683116002
Flange	ABB	IRB 6	DIX ADF 6012	683116012
Flange	ABB	IRB 140, center outside Ø 50	DIX ADF 6012	683116012
Flange	ABB	IRB 1000	DIX ADF 6012	683116012
Flange	ABB	IRB 1400, center outside Ø 50	DIX ADF 6012	683116012
Flange	ABB	IRB 1410	DIX ADF 6012	683116012
Flange	ABB	IRB 1500	DIX ADF 6012	683116012
Flange	ABB	IRB 1600, center outside Ø 50	DIX ADF 6012	683116012
Flange	ABB	IRB 2000	DIX ADF 6012	683116012
Flange	ABB	IRB 2400/2400L	DIX ADF 6012	683116012
Flange	ABB	IRB 2500	DIX ADF 6012	683116012
Flange	ABB	IRB 6400	DIX ADF 6017	683116017
Flange	ABB	IRB 6400 R	DIX ADF 6017	683116017
Flange	ABB	IRB 640 M98	DIX ADF 6017	683116017
Flange	ABB	IRB 2400/10	DIX ADF 6018	683116018
Flange	ABB	IRB 2400/16	DIX ADF 6018	683116018
Flange	ABB	IRB 2600	DIX ADF 6018	683116018
Flange	ABB	IRB 2600-12/1.65	DIX ADF 6018	683116018
Flange	ABB	IRB 2600-12/1.85	DIX ADF 6018	683116018
Flange	ABB	IRB 2600-20/1.65	DIX ADF 6018	683116018
Flange	ABB	IRB 4400/L10	DIX ADF 6018	683116018
Flange	ABB	IRB 4600-20	DIX ADF 6018	683116018
Flange	ABB	IRB 6640	DIX ADF 6035	683116035
Flange	ABB	IRB 6600	DIX ADF 6035	683116035
Flange	ABB	IRB 6700	DIX ADF 6035	683116035
Flange	ABB	IRB 140, center inside Ø 25	DIX ADF 6042	683116042
Flange	ABB	IRB 1400, center inside Ø 25	DIX ADF 6042	683116042
Flange	ABB	IRB 1600, center inside Ø 25	DIX ADF 6042	683116042
Flange	ABB	IRB 4400/45	DIX ADF 6086	683116086
Flange	ABB	IRB 4400/60	DIX ADF 6086	683116086
Flange	ABB	IRB 4400/L30	DIX ADF 6086	683116086
Flange	ABB	IRB 4450/S	DIX ADF 6086	683116086
Flange	ABB	IRB 4600-40	DIX ADF 6086	683116086
Flange	ABB	IRB 4600-45	DIX ADF 6086	683116086
Flange	ABB	IRB 4600-60	DIX ADF 6086	683116086

Mounting: \* DI Ø 50 mm, \*\* DI Ø 25 mm, \*\*\* DI Ø 31.5 mm, \*\*\*\* DI Ø 63 mm



# Adapter flanges

## DIX ADF(D) 6xxx

### For robotic and automatic torches

#### MIG/MAG, TIG

Description	Manufacturer	Robot type	Part name	Part number
1 Flange	Arcman	RON mk II	DIX ADF 6316	683116316
Flange	Cloos	Romat 56	DIX ADF 6031	683116031
Flange	Cloos	Romat 75/76	DIX ADF 6032	683116032
Flange	Cloos	Romat 310	DIX ADF 6033	683116033
Flange	Cloos	Romat 320	DIX ADF 6033	683116033
Flange	Cloos	Romat 350	DIX ADF 6033	683116033
Flange	Cloos	Romat 410	DIX ADF 6033	683116033
Flange	Cloos	QRC 350 E	DIX ADF 6033	683116033
Flange	Comau	Smart 5 SIX 6 1.4	DIX ADF 6042	683116042
Flange	Comau	Smart S4	DIX ADF 6221	683116221
Flange	Comau	Smart NS 12-1.85 ARC	DIX ADF 6221	683116221
Flange	Comau	Smart NS 16-1.65 ARC	DIX ADF 6221	683116221
Flange	Comau	Smart NM 16-3.1	DIX ADF 6221	683116221
Flange	Commercy	CY 906/2006	DIX ADF 6113	683116113
Flange	Fanuc	50il	DIX ADF 6002	683116002
Flange	Fanuc	ARC Mate 0iA	DIX ADF 6002	683116002
Flange	Fanuc	ARC Mate 0iB	DIX ADF 6002	683116002
Flange	Fanuc	LR Mate 200 IC	DIX ADF 6002	683116002
Flange	Fanuc	LR Mate 200 iB	DIX ADF 6002	683116002
Flange	Fanuc	LR Mate 200 iB/3L	DIX ADF 6002	683116002
Flange	Fanuc	LR Mate 200 iD/7L	DIX ADF 6002	683116002
Flange	Fanuc	ARC Mate 100i	DIX ADF 6012	683116012
Flange	Fanuc	120il	DIX ADF 6012	683116012
Flange	Fanuc	100	DIX ADF 6012	683116012
Flange	Fanuc	100 RJ 3	DIX ADF 6012	683116012
Flange	Fanuc	RJ2S12	DIX ADF 6012	683116012
Flange	Fanuc	M-710iC/20L*	DIX ADF 6012	683116012
Flange	Fanuc	S 500 iB*	DIX ADF 6012	683116012
Flange	Fanuc	R 2000iA 165 F/R/L	DIX ADF 6017	683116017
Flange	Fanuc	R 2000iA 125L	DIX ADF 6017	683116017
Flange	Fanuc	R 2000iA 210 F/R/L	DIX ADF 6017	683116017
Flange	Fanuc	ARC Mate 100 iC	DIX ADF 6024	683116024
Flange	Fanuc	ARC Mate 100 iC/6L	DIX ADF 6024	683116024
Flange	Fanuc	ARC Mate 120 iC	DIX ADF 6024	683116024
Flange	Fanuc	ARC Mate 120 iC/10L	DIX ADF 6024	683116024
Flange	Fanuc	100 RJ 3 iC	DIX ADF 6024	683116024
Flange	Fanuc	M10 iA/10S	DIX ADF 6024	683116024
Flange	Fanuc	M20 iA	DIX ADF 6024	683116024
Flange	Fanuc	100 RJ 3**	DIX ADF 6042	683116042
Flange	Fanuc	ARC Mate 100 iB	DIX ADF 6042	683116042
Flange	Fanuc	ARC Mate 120 iB	DIX ADF 6042	683116042
Flange	Fanuc	M-6iB/2 HS	DIX ADF 6042	683116042
Flange	Fanuc	M 16 iB	DIX ADF 6042	683116042
Flange	Fanuc	100/M-6	DIX ADF 6042	683116042





# Adapter flanges

## DIX ADF(D) 6xxx

### For robotic and automatic torches

### MIG/MAG, TIG

	Description	Manufacturer	Robot type	Part name	Part number
	Flange	Fanuc	S500	DIX ADF 6150	683116150
1	Flange	Hitachi	M6100	DIX ADF 6025	683116025
	Flange	Hitachi	MR 6060	DIX ADF 6042	683116042
	Flange	Hyundai	HA006L	DIX ADF 6012	683116012
	Flange	Hyundai	HA006	DIX ADF 6028	683116028
	Flange	Hyundai	HH020	DIX ADF 6028	683116028
	Flange	Hyundai	HR006/015	DIX ADF 6028	683116028
	Flange	Hyundai	010L/030L/050	DIX ADF 6028	683116028
	Flange	Kawasaki	RS 30N	DIX ADF 6037	683116037
	Flange	Kawasaki	RS 50N	DIX ADF 6037	683116037
	Flange	Kawasaki	FA 06 E	DIX ADF 6042	683116042
	Flange	Kawasaki	FS 06	DIX ADF 6042	683116042
	Flange	Kawasaki	JS 6	DIX ADF 6042	683116042
	Flange	Kawasaki	JS 10	DIX ADF 6042	683116042
	Flange	Kawasaki	RA006L(FE40)	DIX ADF 6042	683116042
	Flange	Kawasaki	RA010N / RS010N	DIX ADF 6042	683116042
	Flange	Kawasaki	RS06L	DIX ADF 6042	683116042
	Flange	Kawasaki	FA 10 L	DIX ADF 6221	683116221
	Flange	Kawasaki	RA010L	DIX ADF 6221	683116221
	Flange	Kawasaki	RA020N	DIX ADF 6221	683116221
	Flange	Kawasaki	RS010L	DIX ADF 6221	683116221
	Flange	Kawasaki	RS015X	DIX ADF 6221	683116221
	Flange	Kawasaki	RS 20N	DIX ADF 6221	683116221
	Flange	Kobelco	S4	DIX ADF 6316	683116316
	Flange	Kobelco	S5	DIX ADF 6316	683116316
	Flange	Kobelco	S6	DIX ADF 6316	683116316
	Flange	Kuka	KR 5 R1400	DIX ADF 6002	683116002
	Flange	Kuka	KR 6 R700	DIX ADF 6002	683116002
	Flange	Kuka	KR 6 R900 sixx	DIX ADF 6002	683116002
	Flange	Kuka	KR 6 R1820	DIX ADF 6002	683116002
	Flange	Kuka	KR 8 R1620	DIX ADF 6002	683116002
	Flange	Kuka	KR 10 R900-2	DIX ADF 6002	683116002
	Flange	Kuka	KR 10 R1100 sixx	DIX ADF 6002	683116002
	Flange	Kuka	KR 10 R1420	DIX ADF 6002	683116002
	Flange	Kuka	KR 10 R1440-2	DIX ADF 6002	683116002
	Flange	Kuka	KR 16-2* For in-line wrist 6 kg	DIX ADF 6012	683116012
	Flange	Kuka	KR 120 R3100-2	DIX ADF 6017	683116017
	Flange	Kuka	KR 120 R3900 ultra	DIX ADF 6017	683116017
	Flange	Kuka	KR 210 R2700 extra	DIX ADF 6017	683116017
	Flange	Kuka	KR 210 R3300 K ultra	DIX ADF 6017	683116017
	Flange	Kuka	KR 240 R3100 K ultra	DIX ADF 6017	683116017
	Flange	Kuka	KR 270 R2900 K ultra	DIX ADF 6017	683116017
	Flange	Kuka	KR 16 arc HW	DIX ADF 6026	683116026
	Flange	Kuka	KR 5	DIX ADF 6029	683116029

Mounting: \* DI ø 50 mm, \*\* DI ø 25 mm, \*\*\* DI ø 31.5 mm, \*\*\*\* DI ø 63 mm





# Adapter flanges

## DIX ADF(D) 6xxx

### For robotic and automatic torches

#### MIG/MAG, TIG

Description	Manufacturer	Robot type	Part name	Part number
Flange	Kuka	KR 5 ARC HW	DIX ADF 6029	683116029
Flange	Kuka	KR 8 R1420 HW	DIX ADF 6029	683116029
Flange	Kuka	KR 8 R2100	DIX ADF 6029	683116029
Flange	Kuka	KR 16 L8 arc HW	DIX ADF 6029	683116029
Flange	Kuka	KR 5 ARC	DIX ADF 6042	683116042
Flange	Kuka	KR 6 ARC	DIX ADF 6042	683116042
Flange	Kuka	KR 16-L6 ARC	DIX ADF 6042	683116042
Flange	Kuka	KR 6	DIX ADF 6042	683116042
Flange	Kuka	KR 6-2** For in-line wrist 6 kg	DIX ADF 6042	683116042
Flange	Kuka	KR 16-2** For in-line wrist 6 kg	DIX ADF 6042	683116042
Flange	Kuka	KR 16-2**** For in-line wrist 16 kg	DIX ADF 6084	683116084
Flange	Kuka	KR 6-2	DIX ADF 6084	683116084
Flange	Kuka	KR 8 R2010-2	DIX ADF 6084	683116084
Flange	Kuka	KR 12 R1810-2	DIX ADF 6084	683116084
Flange	Kuka	KR 15-2	DIX ADF 6084	683116084
Flange	Kuka	KR 15 L6/2	DIX ADF 6084	683116084
Flange	Kuka	KR 16	DIX ADF 6084	683116084
Flange	Kuka	KR 16 L	DIX ADF 6084	683116084
Flange	Kuka	KR 16 R2010	DIX ADF 6084	683116084
Flange	Kuka	KR 20 R1810	DIX ADF 6084	683116084
Flange	Kuka	KR 20 R1810F	DIX ADF 6084	683116084
Flange	Kuka	KR 22 R1610	DIX ADF 6084	683116084
Flange	Kuka	KR 22 R1610-2	DIX ADF 6084	683116084
Flange	Kuka	KR 30L16	DIX ADF 6084	683116084
Flange	Kuka	KR IR 364/8	DIX ADF 6084	683116084
Flange	Kuka	KR 125-2	DIX ADF 6085	683116085
Flange	Kuka	KR 125-3	DIX ADF 6085	683116085
Flange	Kuka	KR 125 L90-2	DIX ADF 6085	683116085
Flange	Kuka	KR 125 L 100-2	DIX ADF 6085	683116085
Flange	Kuka	KR 150-2	DIX ADF 6085	683116085
Flange	Kuka	KR 150 L 110-2	DIX ADF 6085	683116085
Flange	Kuka	KR 150 L 130-2	DIX ADF 6085	683116085
Flange	Kuka	KR 180-2	DIX ADF 6085	683116085
Flange	Kuka	KR 180 L150-2	DIX ADF 6085	683116085
Flange	Kuka	KR 180 L130-2	DIX ADF 6085	683116085
Flange	Kuka	KR 200 L140	DIX ADF 6085	683116085
Flange	Kuka	KR 210-2	DIX ADF 6085	683116085
1 Flange	Kuka	KR 210 L180-2	DIX ADF 6085	683116085
Flange	Kuka	KR 210 L150-2	DIX ADF 6085	683116085
Flange	Kuka	KR 210 R3100 ultra	DIX ADF 6085	683116085
Flange	Kuka	KR 240-2	DIX ADF 6085	683116085
Flange	Kuka	KR 240 L210-2	DIX ADF 6085	683116085
Flange	Kuka	KR 240 L180-2	DIX ADF 6085	683116085
Flange	Kuka	KR 240 R2900 ultra	DIX ADF 6085	683116085
Flange	Kuka	KR 270 R2700 ultra	DIX ADF 6085	683116085
Flange	Kuka	KR 300 R2500 ultra	DIX ADF 6085	683116085

Mounting: \* DI ø 50 mm, \*\* DI ø 25 mm, \*\*\* DI ø 31.5 mm, \*\*\*\* DI ø 63 mm



# Adapter flanges

## DIX ADF(D) 6xxx

### For robotic and automatic torches

### MIG/MAG, TIG

Description	Manufacturer	Robot type	Part name	Part number
Flange	Kuka	KR 30/2	DIX ADF 6086	683116086
Flange	Kuka	KR 30-3	DIX ADF 6086	683116086
Flange	Kuka	KR 60-3	DIX ADF 6086	683116086
Flange	Kuka	KR 30 HA	DIX ADF 6086	683116086
Flange	Kuka	KR 60 HA	DIX ADF 6086	683116086
Flange	Kuka	KR 60 L45-3	DIX ADF 6086	683116086
Flange	Kuka	KR 60 L30-3	DIX ADF 6086	683116086
Flange	Kuka	KR 60 L45 HA	DIX ADF 6086	683116086
Flange	Kuka	KR 60 L30 HA	DIX ADF 6086	683116086
Flange	Kuka	KR 16/2*** For in-line wrist 16 kg	DIX ADF 6103	683116103
Flange	Manutec	R3	DIX ADF 6070	683116070
Flange	Manutec	R15	DIX ADF 6070	683116070
Flange	Manutec	R15 D	DIX ADF 6070	683116070
Flange	Mitsubishi	RV 12 S	DIX ADF 6042	683116042
Flange	Mitsubishi	RV 12 SL	DIX ADF 6042	683116042
Flange	Nachi	MC 20	DIX ADF 6012	683116012
Flange	Nachi	NV 6	DIX ADF 6012	683116012
Flange	OTC DAIHEN	FD-V6	DIX ADF 6012	683116012
Flange	OTC DAIHEN	FD-V8L	DIX ADF 6012	683116012
Flange	OTC DAIHEN	V 01	DIX ADF 6012	683116012
Flange	OTC DAIHEN	V 6	DIX ADF 6012	683116012
Flange	OTC DAIHEN	V 10	DIX ADF 6012	683116012
Flange	OTC DAIHEN	AX M H3	DIX ADF 6012	683116012
Flange	OTC DAIHEN	V 6L	DIX ADF 6012	683116012
Flange	OTC DAIHEN	AX V6	DIX ADF 6012	683116012
Flange	OTC DAIHEN	A2 V6	DIX ADF 6012	683116012
Flange	OTC DAIHEN	FD-V20	DIX ADF 6042	683116042
Flange	OTC DAIHEN	IRB 471	DIX ADF 6089	683116089
Flange	OTC DAIHEN	G01 SAF	DIX ADF 6094	683116094
Flange	OTC DAIHEN	6800/IRB 481	DIX ADF 6094	683116094
Flange	Panasonic	AW 550	DIX ADF 6160	683116160
Flange	Panasonic	AW 0660	DIX ADF 6160	683116160
Flange	Panasonic	AW 8010	DIX ADF 6160	683116160
Flange	Panasonic	VR 006AL 1; 2	DIX ADF 6161	683116161
Flange	Panasonic	VR 008	DIX ADF 6161	683116161
1 Flange	Panasonic	TA 1400	DIX ADF 6161	683116161
Flange	Panasonic	TA 1600	DIX ADF 6161	683116161
Flange	Panasonic	TA 1800	DIX ADF 6161	683116161
Flange	Panasonic	TA 1900	DIX ADF 6161	683116161
Flange	Panasonic	TB 1800	DIX ADF 6161	683116161
Flange	Panasonic	TL 2000	DIX ADF 6161	683116161
Flange	Panasonic	TM 1100	DIX ADFD 6312	683136312
Flange	Panasonic	TM 1400	DIX ADFD 6312	683136312

Mounting: \* DI ø 50 mm, \*\* DI ø 25 mm, \*\*\* DI ø 31.5 mm, \*\*\*\* DI ø 63 mm

# Adapter flanges

## DIX ADF(D) 6xxx

### For robotic and automatic torches

#### MIG/MAG, TIG

Description	Manufacturer	Robot type	Part name	Part number
Flange	Panasonic	TM 1800	DIX ADFD 6312	683136312
Flange	Reis	RV40	DIX ADF 6086	683116086
Flange	Reis	RV40S	DIX ADF 6086	683116086
Flange	Reis	RV40XL	DIX ADF 6086	683116086
Flange	Reis	RVL40	DIX ADF 6086	683116086
Flange	Reis	RV60	DIX ADF 6086	683116086
Flange	Reis	RVL60	DIX ADF 6086	683116086
Flange	Reis	RV60L	DIX ADF 6086	683116086
Flange	Reis	RVL60L	DIX ADF 6086	683116086
Flange	Reis	RV60LS	DIX ADF 6086	683116086
Flange	Reis	RH40	DIX ADF 6086	683116086
Flange	Reis	RP40	DIX ADF 6086	683116086
Flange	Reis	RP80	DIX ADF 6086	683116086
Flange	Reis	RP150	DIX ADF 6086	683116086
Flange	Reis	RL50-A4NC	DIX ADF 6086	683116086
Flange	Reis	RL50-A5NC	DIX ADF 6086	683116086
Flange	Reis	RL80-A4NC	DIX ADF 6086	683116086
Flange	Reis	RL80-A5NC	DIX ADF 6086	683116086
Flange	Reis	RL80-A5NC+A6NC	DIX ADF 6086	683116086
Flange	Reis	RL130-A5NC+A6NC	DIX ADF 6086	683116086
Flange	Reis	RV 6	DIX ADF 6103	683116103
Flange	Reis	RV 6L	DIX ADF 6103	683116103
Flange	Reis	RV 10-6	DIX ADF 6103	683116103
Flange	Reis	RV 20-6	DIX ADF 6103	683116103
Flange	Reis	SRV 6L	DIX ADF 6103	683116103
Flange	Reis	RV20-6HW	DIX ADF 6106	683116106
Flange	Reis	RV20-10HW	DIX ADF 6106	683116106
Flange	Reis	RV30-10HW	DIX ADF 6106	683116106
Flange	Reis	RV 12	DIX ADF 6221	683116221
Flange	Reis	RV 12L	DIX ADF 6221	683116221
Flange	Reis	RV 15	DIX ADF 6221	683116221
Flange	Reis	RV 16	DIX ADF 6221	683116221
Flange	Reis	RV 20-16	DIX ADF 6221	683116221
Flange	Reis	RV 30-16	DIX ADF 6221	683116221
1 Flange	SEF	SR25/A2	DIX ADF 6221	683116221
Flange	Stäubli	TX 60	DIX ADF 6002	683116002
Flange	Stäubli	TX 60L	DIX ADF 6002	683116002
Flange	Stäubli	TX 90	DIX ADF 6103	683116103
Flange	Stäubli	TX 90L	DIX ADF 6103	683116103
Flange	Stäubli	TX 90XL	DIX ADF 6103	683116103
Flange	Universal	UR-3	DIX ADF 6103	683116103
Flange	Universal	UR-10	DIX ADF 6103	683116103
Flange	Yaskawa Motoman	HP 3 C	DIX ADF 6002	683116002
Flange	Yaskawa Motoman	HP 3 J	DIX ADF 6002	683116002





# Adapter flanges

## DIX ADF(D) 6xxx

### For robotic and automatic torches

#### MIG/MAG, TIG

Description	Manufacturer	Robot type	Part name	Part number
Flange	Yaskawa Motoman	HP 5	DIX ADF 6002	683116002
Flange	Yaskawa Motoman	MH 5	DIX ADF 6002	683116002
Flange	Yaskawa Motoman	MH 12F	DIX ADF 6024	683116024
Flange	Yaskawa Motoman	ES 165	DIX ADF 6036	683116036
Flange	Yaskawa Motoman	L 106	DIX ADF 6040	683116040
Flange	Yaskawa Motoman	YRFL-NN D10G	DIX ADF 6040	683116040
Flange	Yaskawa Motoman	K 6S	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	K 10S	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	K 205S	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	SRC 6	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	JS 6	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	3S 10	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	SK 6	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	SK 10	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	SK 16 (X)	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	HP20/UP 20	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	HP 6 UP 6	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	HP 50-20	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	YRUP 20-A00	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	YRUP 50N-A00	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	MH6	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	MH50-20	DIX ADF 6042	683116042
Flange	Yaskawa Motoman	Bore pattern 35° rotated	DIX ADF 6042/1	6831160421
Flange	Yaskawa Motoman	EA 1400N	DIX ADF 6047	683116047
Flange	Yaskawa Motoman	EA 1800N	DIX ADF 6047	683116047
Flange	Yaskawa Motoman	EA 1900N	DIX ADF 6047	683116047
Flange	Yaskawa Motoman	MA 1400	DIX ADF 6047	683116047
Flange	Yaskawa Motoman	MA 1800	DIX ADF 6047	683116047
Flange	Yaskawa Motoman	MA 1900	DIX ADF 6047	683116047
Flange	Yaskawa Motoman	MA 3100	DIX ADF 6047	683116047
Flange	Yaskawa Motoman	DX 100	DIX ADF 6047	683116047
Flange	Yaskawa Motoman	GP7	DIX ADF 6112	683116112
Flange	Yaskawa Motoman	MH5LS II	DIX ADF 6112	683116112
Flange	Yaskawa Motoman	MH5S II	DIX ADF 6112	683116112
Flange	Yaskawa Motoman	HC10-B10-EM	DIX ADF 6221	683116221
Flange	Yaskawa Motoman	HC10-B12	DIX ADF 6221	683116221
Flange	Yaskawa Motoman	HC10-DT-IP-67	DIX ADF 6221	683116221
Flange	Yaskawa Motoman	HC10-F13	DIX ADF 6221	683116221
Flange	Yaskawa Motoman	EH80	DIX ADF 6314	683116314
Flange	Yaskawa Motoman	UP50N-35	DIX ADF 6314	683116314
Flange	Yaskawa Motoman	HC10	DIX ADF 6318	683116318
Flange	Yaskawa Motoman	HC10 A00	DIX ADF 6318	683116318
Flange	Yaskawa Motoman	HC10-DT	DIX ADF 6319	683116319
Flange	Yaskawa Motoman	MH50-35II	DIX ADFD 6037	683116037

► Other flanges on request.

Mounting: \* DI ø 50 mm, \*\* DI ø 25 mm, \*\*\* DI ø 31.5 mm, \*\*\*\* DI ø 63 mm

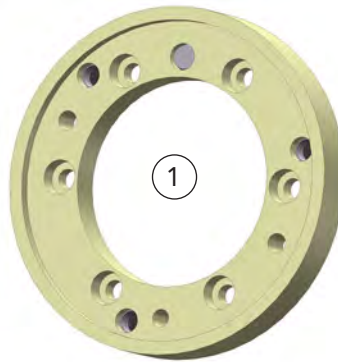


# Adapter flanges

## DIX ADFR 63xx

For robotic and automatic torches LITE.torch  
MIG/MAG

Rotary interface,  
RET 362  
RETZ 662



Robot

Application sample

System components

Description	Manufacturer	Robot type	Part name	Part number
1 Flange	ABB	IRB 1520 ID	DIX ADFR 6302	687003302
Flange	ABB	IRB 1600 ID	DIX ADFR 6302	687003302
Flange	ABB	IRB 1600 ID 4-155	DIX ADFR 6311	687003311
Flange	ABB	IRB 1600 ID 6-155	DIX ADFR 6311	687003311
Flange	ABB	IRB 1660 ID 6-155	DIX ADFR 6311	687003311
Flange	ABB	IRB 2600 ID 15/1.85	DIX ADFR 6311	687003311
Flange	ABB	IRB 2600 ID 8/2.00	DIX ADFR 6311	687003311
Flange	CRP	RH-14-10-W	DIX ADFR 6303	687003303
Flange	Fanuc	710iC/12L	DIX ADFR 6303	687003303
Flange	Fanuc	ARC Mate 100iC	DIX ADFR 6303	687003303
Flange	Fanuc	ARC Mate 100iC/6L	DIX ADFR 6303	687003303
Flange	Fanuc	ARC Mate 100iC/7L	DIX ADFR 6303	687003303
Flange	Fanuc	ARC Mate 100iC/8L	DIX ADFR 6303	687003303
Flange	Fanuc	ARC Mate 100iC/12	DIX ADFR 6303	687003303
Flange	Fanuc	ARC Mate 100iC/12S	DIX ADFR 6303	687003303
Flange	Fanuc	ARC Mate 120iC	DIX ADFR 6303	687003303
Flange	Fanuc	ARC Mate 120iC/10L	DIX ADFR 6303	687003303
Flange	Fanuc	ARC Mate 120iC/12L	DIX ADFR 6303	687003303
Flange	Fanuc	M 10 iA	DIX ADFR 6303	687003303
Flange	Fanuc	M 10 iA/8L	DIX ADFR 6303	687003303
Flange	Fanuc	M 10 iA/12S	DIX ADFR 6303	687003303
Flange	Fanuc	M 20 iA	DIX ADFR 6303	687003303
Flange	Fanuc	AM100iD/8L	DIX ADFR 6307	687003307
Flange	Fanuc	ARC Mate 100iD	DIX ADFR 6307	687003307
Flange	Fanuc	ARC Mate 100iD/10L	DIX ADFR 6307	687003307
Flange	Fanuc	M-10iD	DIX ADFR 6307	687003307
Flange	Fanuc	M-10iD/12	DIX ADFR 6307	687003307
Flange	Fanuc	ARC Mate 100iB, solution arm	DIX ADFR 6310	687003310
Flange	Fanuc	ARC Mate 100iBe, solution arm	DIX ADFR 6310	687003310
Flange	Fanuc	ARC Mate 120iB, solution arm	DIX ADFR 6310	687003310
Flange	Fanuc	ARC Mate 120iBe, solution arm	DIX ADFR 6310	687003310
Flange	Kawasaki	BA006L	DIX ADFR 6313	687003313
Flange	Kawasaki	BA006N	DIX ADFR 6313	687003313
Flange	Kuka	KR 5 arc HW	DIX ADFR 6304	687003304
Flange	Kuka	KR 6 R1820 arc HW	DIX ADFR 6304	687003304





# Adapter flanges

## DIX ADFR 63xx

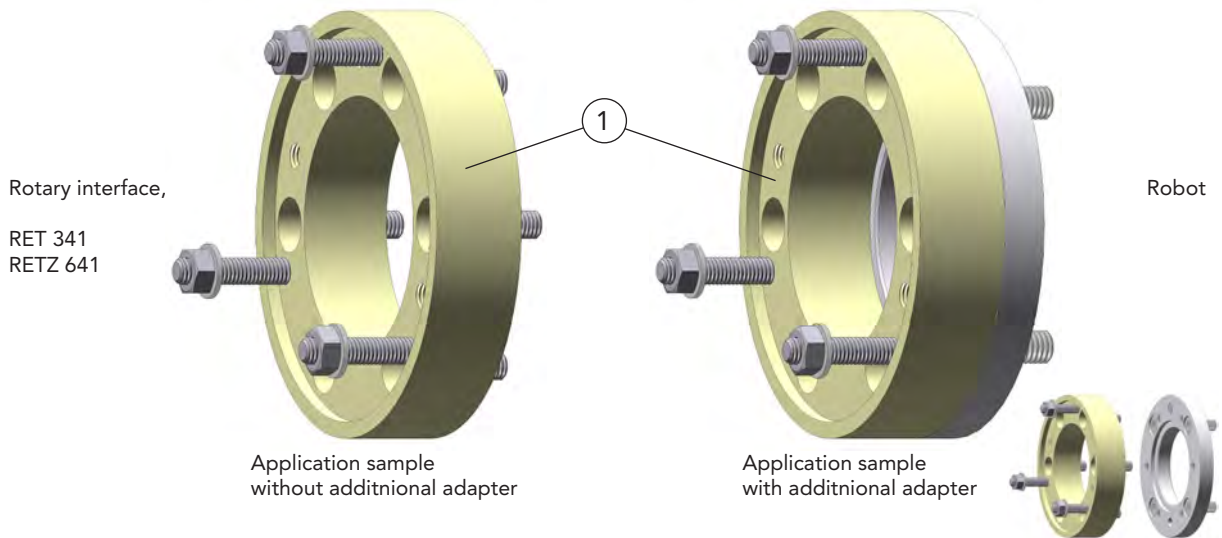
For robotic and automatic torches LITE.torch  
MIG/MAG

Description	Manufacturer	Robot type	Part name	Part number	
Flange	Kuka	KR 8 R1420 arc HW	DIX ADFR 6304	687003304	
Flange	Kuka	KR 8 R1620 arc HW	DIX ADFR 6304	687003304	
Flange	Kuka	KR 8 R2100 arc HW	DIX ADFR 6304	687003304	
Flange	Kuka	KR 16 L8 arc HW	DIX ADFR 6304	687003304	
Flange	OTC Daihen	AX-V4 AP	DIX ADFR 6301	687003301	
Flange	OTC Daihen	AX-V4 LAP	DIX ADFR 6301	687003301	
Flange	OTC Daihen	AII-B4	DIX ADFR 6306	687003306	
Flange	OTC Daihen	AII-B4L	DIX ADFR 6306	687003306	
Flange	OTC Daihen	AX-V4	DIX ADFR 6306	687003306	
Flange	OTC Daihen	AX-V4L	DIX ADFR 6306	687003306	
Flange	OTC Daihen	FD-4L	DIX ADFR 6306	687003306	
Flange	OTC Daihen	FD-B4LS	DIX ADFR 6306	687003306	
Flange	OTC Daihen	FD-B4s	DIX ADFR 6306	687003306	
Flange	OTC Daihen	FD-B4, Bore pattern 45° rotated	DIX ADFR 6306/1	6870033061	
Flange	OTC Daihen	FD-B4L, Bore pattern 45° rotated	DIX ADFR 6306/1	6870033061	
Flange	Panasonic	TB 1800	DIX ADFR 6309	687003309	
Flange	Panasonic	TM 1100	DIX ADFR 6312	687003312	
Flange	Panasonic	TM 1400	DIX ADFR 6312	687003312	
Flange	Panasonic	TM 1600 WG III	DIX ADFR 6312	687003312	
Flange	Panasonic	TM 1800	DIX ADFR 6312	687003312	
Flange	Panasonic	TM 2000	DIX ADFR 6312	687003312	
Flange	Reis	RV20-6HW	DIX ADFR 6308	687003308	
Flange	Reis	RV20-10HW	DIX ADFR 6308	687003308	
Flange	Reis	RV30-10HW	DIX ADFR 6308	687003308	
1	Flange	Yaskawa Motoman	EA 1400 N	DIX ADFR 6300	687003300
	Flange	Yaskawa Motoman	EA 1800 N	DIX ADFR 6300	687003300
	Flange	Yaskawa Motoman	EA 1900 N	DIX ADFR 6300	687003300
	Flange	Yaskawa Motoman	MA 1400	DIX ADFR 6300	687003300
	Flange	Yaskawa Motoman	MA 1550	DIX ADFR 6300	687003300
	Flange	Yaskawa Motoman	MA 1800 N	DIX ADFR 6300	687003300
	Flange	Yaskawa Motoman	MA 1900 N	DIX ADFR 6300	687003300
	Flange	Yaskawa Motoman	MA 3100	DIX ADFR 6300	687003300
	Flange	Yaskawa Motoman	SSA 2000	DIX ADFR 6300	687003300
	Flange	Yaskawa Motoman	VA 1400	DIX ADFR 6300	687003300
	Flange	Yaskawa Motoman	AR 2010	DIX ADFR 6303	687003303
	Flange	Yaskawa Motoman	AR 3210	DIX ADFR 6303	687003303
	Flange	Yaskawa Motoman	GP12	DIX ADFR 6303	687003303
	Flange	Yaskawa Motoman	GP20HL	DIX ADFR 6303	687003303
	Flange	Yaskawa Motoman	MA 1440	DIX ADFR 6303	687003303
	Flange	Yaskawa Motoman	MA 2010	DIX ADFR 6303	687003303
	Flange	Yaskawa Motoman	MA 3120	DIX ADFR 6303	687003303
	Flange	Yaskawa Motoman	MH12	DIX ADFR 6303	687003303
	Flange	Yaskawa Motoman	MH24	DIX ADFR 6303	687003303

► Other flanges on request.

# Adapter flanges DIX ADFRD 63xx

For robotic and automatic torches ECO.torch  
MIG/MAG



System components

Description	Manufacturer	Robot type	Part name	Part number
1 Flange	ABB	IRB 1520 ID	DIX ADFRD 6302	687003402
Flange	ABB	IRB 1600 ID	DIX ADFRD 6302	687003402
Flange	ABB	IRB 1600 ID 4-155	DIX ADFRD 6311	687003411
Flange	ABB	IRB 1600 ID 6-155	DIX ADFRD 6311	687003411
Flange	ABB	IRB 1660 ID 6-155	DIX ADFRD 6311	687003411
Flange	ABB	IRB 2600 ID 15/1.85	DIX ADFRD 6311	687003411
Flange	ABB	IRB 2600 ID 8/2.0	DIX ADFRD 6311	687003411
Flange	CRP	RH-14-10-W	DIX ADFRD 6303	687003403
Flange	Fanuc	710iC/12L	DIX ADFRD 6303	687003403
Flange	Fanuc	ARC Mate 100iC	DIX ADFRD 6303	687003403
Flange	Fanuc	ARC Mate 100iC/6L	DIX ADFRD 6303	687003403
Flange	Fanuc	ARC Mate 100iC/7L	DIX ADFRD 6303	687003403
Flange	Fanuc	ARC Mate 100iC/8L	DIX ADFRD 6303	687003403
Flange	Fanuc	ARC Mate 100iC/12	DIX ADFRD 6303	687003403
Flange	Fanuc	ARC Mate 100iC/12S	DIX ADFRD 6303	687003403
Flange	Fanuc	ARC Mate 120iC	DIX ADFRD 6303	687003403
Flange	Fanuc	ARC Mate 120iC/10L	DIX ADFRD 6303	687003403
Flange	Fanuc	ARC Mate 120iC/12L	DIX ADFRD 6303	687003403
Flange	Fanuc	710iC/12L (HW)	DIX ADFRD 6303	687003403
Flange	Fanuc	M 10 iA	DIX ADFRD 6303	687003403
Flange	Fanuc	M 10 iA/8L	DIX ADFRD 6303	687003403
Flange	Fanuc	M 10 iA/12S	DIX ADFRD 6303	687003403
Flange	Fanuc	M 20 iA	DIX ADFRD 6303	687003403
Flange	Fanuc	AM100iD/8L	DIX ADFRD 6307	687003407
Flange	Fanuc	ARC Mate 100iD	DIX ADFRD 6307	687003407
Flange	Fanuc	ARC Mate 100iD/10L	DIX ADFRD 6307	687003407
Flange	Fanuc	M-10iD	DIX ADFRD 6307	687003407
Flange	Fanuc	M-10iD/12	DIX ADFRD 6307	687003407
Flange	Kawasaki	BA006L	DIX ADFRD 6313	687003413
Flange	Kawasaki	BA006N	DIX ADFRD 6313	687003413
Flange	Kuka	KR 5 arc HW	DIX ADFRD 6304	687003404
Flange	Kuka	KR 6 R1820 arc HW	DIX ADFRD 6304	687003404





# Adapter flanges DIX ADFRD 63xx

For robotic and automatic torches ECO.torch  
MIG/MAG



	Description	Manufacturer	Robot type	Part name	Part number
	Flange	Kuka	KR 8 R1420 arc HW	DIX ADFRD 6304	687003404
	Flange	Kuka	KR 8 R1620 arc HW	DIX ADFRD 6304	687003404
	Flange	Kuka	KR 8 R2100 arc HW	DIX ADFRD 6304	687003404
	Flange	Kuka	KR 16 L8 arc HW	DIX ADFRD 6304	687003404
	Flange	Kuka	KR 16 arc HW	DIX ADFRD 6305	687003405
	Flange	OTC Daihen	All-B4	DIX ADFRD 6306	687003406
	Flange	OTC Daihen	All-B4L	DIX ADFRD 6306	687003406
	Flange	OTC Daihen	AX-V4	DIX ADFRD 6306	687003406
	Flange	OTC Daihen	AX-V4L	DIX ADFRD 6306	687003406
	Flange	OTC Daihen	FD-4L	DIX ADFRD 6306	687003406
	Flange	OTC Daihen	FD-B4LS	DIX ADFRD 6306	687003406
	Flange	OTC Daihen	FD-B4s	DIX ADFRD 6306	687003406
	Flange	OTC Daihen	FD-B4, Bore pattern 45° rotated	DIX ADFRD 6306/1	6870034061
	Flange	OTC Daihen	FD-B4L, Bore pattern 45° rotated	DIX ADFRD 6306/1	6870034061
	Flange	OTC Daihen	FD-B6	DIX ADFRD 6315	687003415
	Flange	OTC Daihen	FD-B6L	DIX ADFRD 6315	687003415
	Flange	Panasonic	TB 1800	DIX ADFRD 6309	687003409
	Flange	Panasonic	TM 1100	DIX ADFRD 6312	687003412
	Flange	Panasonic	TM 1400	DIX ADFRD 6312	687003412
	Flange	Panasonic	TM 1600 WG III	DIX ADFRD 6312	687003412
	Flange	Panasonic	TM 1800	DIX ADFRD 6312	687003412
	Flange	Panasonic	TM 2000	DIX ADFRD 6312	687003412
	Flange	Reis	RV20-6HW	DIX ADFRD 6308	687003408
	Flange	Reis	RV20-10HW	DIX ADFRD 6308	687003408
	Flange	Reis	RV30-10HW	DIX ADFRD 6308	687003408
1	Flange	Yaskawa Motoman	EA 1400 N	DIX ADFRD 6300	687003400
	Flange	Yaskawa Motoman	EA 1800 N	DIX ADFRD 6300	687003400
	Flange	Yaskawa Motoman	EA 1900 N	DIX ADFRD 6300	687003400
	Flange	Yaskawa Motoman	MA 1400	DIX ADFRD 6300	687003400
	Flange	Yaskawa Motoman	MA 1550	DIX ADFRD 6300	687003400
	Flange	Yaskawa Motoman	MA 1800 N	DIX ADFRD 6300	687003400
	Flange	Yaskawa Motoman	MA 1900 N	DIX ADFRD 6300	687003400
	Flange	Yaskawa Motoman	MA 3100	DIX ADFRD 6300	687003400
	Flange	Yaskawa Motoman	SSA 2000	DIX ADFRD 6300	687003400
	Flange	Yaskawa Motoman	VA 1400	DIX ADFRD 6300	687003400
	Flange	Yaskawa Motoman	AR 2010	DIX ADFRD 6303	687003403
	Flange	Yaskawa Motoman	AR 3210	DIX ADFRD 6303	687003403
	Flange	Yaskawa Motoman	GP12	DIX ADFRD 6303	687003403
	Flange	Yaskawa Motoman	GP20HL	DIX ADFRD 6303	687003403
	Flange	Yaskawa Motoman	MA 1440	DIX ADFRD 6303	687003403
	Flange	Yaskawa Motoman	MA 2010	DIX ADFRD 6303	687003403
	Flange	Yaskawa Motoman	MA 3120	DIX ADFRD 6303	687003403
	Flange	Yaskawa Motoman	MH12	DIX ADFRD 6303	687003403
	Flange	Yaskawa Motoman	MH24	DIX ADFRD 6303	687003403

▶ Other flanges on request.





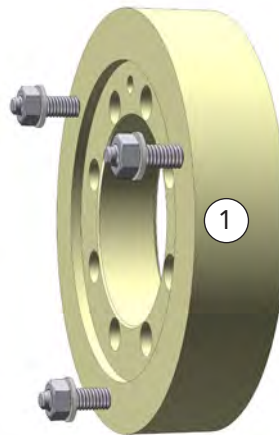
# Adapter flanges

## DIX ADFL 63xx

For robotic and automatic torches T.Connector HW  
MIG/MAG

Rotary interface

RET 363  
RETZ 663



Robot

Application sample

System components

Description	Manufacturer	Robot type	Part name	Part number
1 Flange	ABB	IRB 1520 ID	DIX ADFL 6302	687003502
Flange	ABB	IRB 1600 ID	DIX ADFL 6302	687003502
Flange	ABB	IRB 1600 ID 4-155	DIX ADFL 6311	687003511
Flange	ABB	IRB 1600 ID 6-155	DIX ADFL 6311	687003511
Flange	ABB	IRB 1660 ID 6-155	DIX ADFL 6311	687003511
Flange	ABB	IRB 2600 ID 8/2.00	DIX ADFL 6311	687003511
Flange	ABB	IRB 2600 ID 15/1.85	DIX ADFL 6311	687003511
Flange	CRP	RH-14-10-W	DIX ADFL 6303	687003503
Flange	Fanuc	710iC/12L	DIX ADFL 6303	687003503
Flange	Fanuc	ARC Mate 100iC	DIX ADFL 6303	687003503
Flange	Fanuc	ARC Mate 100iC/6L	DIX ADFL 6303	687003503
Flange	Fanuc	ARC Mate 100iC/7L	DIX ADFL 6303	687003503
Flange	Fanuc	ARC Mate 100iC/8L	DIX ADFL 6303	687003503
Flange	Fanuc	ARC Mate 100iC/12	DIX ADFL 6303	687003503
Flange	Fanuc	ARC Mate 100iC/12S	DIX ADFL 6303	687003503
Flange	Fanuc	ARC Mate 120iC	DIX ADFL 6303	687003503
Flange	Fanuc	ARC Mate 120iC/10L	DIX ADFL 6303	687003503
Flange	Fanuc	ARC Mate 120iC/12L	DIX ADFL 6303	687003503
Flange	Fanuc	710iC/12L (HW)	DIX ADFL 6303	687003503
Flange	Fanuc	M 10 iA	DIX ADFL 6303	687003503
Flange	Fanuc	M 10 iA/8L	DIX ADFL 6303	687003503
Flange	Fanuc	M 10 iA/12S	DIX ADFL 6303	687003503
Flange	Fanuc	M 20 iA	DIX ADFL 6303	687003503
Flange	Fanuc	AM100iD/8L	DIX ADFL 6307	687003507
Flange	Fanuc	ARC Mate 100iD	DIX ADFL 6307	687003507
Flange	Fanuc	ARC Mate 100iD/10L	DIX ADFL 6307	687003507
Flange	Fanuc	M-10iD	DIX ADFL 6307	687003507
Flange	Fanuc	M-10iD/12	DIX ADFL 6307	687003507
Flange	Kawasaki	BA006L	DIX ADFL 6313	687003513
Flange	Kawasaki	BA006N	DIX ADFL 6313	687003513
Flange	Kuka	KR 5 arc HW	DIX ADFL 6304	687003504
Flange	Kuka	KR 6 R1820 arc HW	DIX ADFL 6304	687003504
Flange	Kuka	KR 8 R1420 arc HW	DIX ADFL 6304	687003504
Flange	Kuka	KR 8 R1620 arc HW	DIX ADFL 6304	687003504



# Adapter flanges

## DIX ADFL 63xx

### For robotic and automatic torches T.Connector HW MIG/MAG



	Description	Manufacturer	Robot type	Part name	Part number
	Flange	Kuka	KR 8 R2100 arc HW	DIX ADFL 6304	687003504
	Flange	Kuka	KR 16 L8 arc HW	DIX ADFL 6304	687003504
	Flange	Kuka	KR 16 arc HW	DIX ADFL 6305	687003505
	Flange	OTC Daihen	All-B4	DIX ADFL 6306	687003506
	Flange	OTC Daihen	All-B4L	DIX ADFL 6306	687003506
	Flange	OTC Daihen	AX-V4	DIX ADFL 6306	687003506
	Flange	OTC Daihen	AX-V4L	DIX ADFL 6306	687003506
	Flange	OTC Daihen	FD-4L	DIX ADFL 6306	687003506
	Flange	OTC Daihen	FD-B4LS	DIX ADFL 6306	687003506
	Flange	OTC Daihen	FD-B4s	DIX ADFL 6306	687003506
	Flange	OTC Daihen	FD-B4 Bore pattern 45° rotated	DIX ADFL 6306/1	6870035061
	Flange	OTC Daihen	FD-B4L Bore pattern 45° rotated	DIX ADFL 6306/1	6870035061
	Flange	OTC Daihen	FD-B6	DIX ADFL 6315	687003515
	Flange	OTC Daihen	FD-B6L	DIX ADFL 6315	687003515
	Flange	Panasonic	TB 1800	DIX ADFL 6309	687003509
	Flange	Panasonic	TM 1100	DIX ADFL 6312	687003512
	Flange	Panasonic	TM 1400	DIX ADFL 6312	687003512
	Flange	Panasonic	TM 1600 WG III	DIX ADFL 6312	687003512
	Flange	Panasonic	TM 1800	DIX ADFL 6312	687003512
	Flange	Panasonic	TM 2000	DIX ADFL 6312	687003512
	Flange	Reis	RV20-6HW	DIX ADFL 6308	687003508
	Flange	Reis	RV20-10HW	DIX ADFL 6308	687003508
	Flange	Reis	RV30-10HW	DIX ADFL 6308	687003508
1	Flange	Yaskawa Motoman	EA 1400 N	DIX ADFL 6300	687003500
	Flange	Yaskawa Motoman	EA 1800 N	DIX ADFL 6300	687003500
	Flange	Yaskawa Motoman	EA 1900 N	DIX ADFL 6300	687003500
	Flange	Yaskawa Motoman	MA 1400	DIX ADFL 6300	687003500
	Flange	Yaskawa Motoman	MA 1550	DIX ADFL 6300	687003500
	Flange	Yaskawa Motoman	MA 1800 N	DIX ADFL 6300	687003500
	Flange	Yaskawa Motoman	MA 1900 N	DIX ADFL 6300	687003500
	Flange	Yaskawa Motoman	MA 3100	DIX ADFL 6300	687003500
	Flange	Yaskawa Motoman	SSA 2000	DIX ADFL 6300	687003500
	Flange	Yaskawa Motoman	VA 1400	DIX ADFL 6300	687003500
	Flange	Yaskawa Motoman	AR 2010	DIX ADFL 6303	687003503
	Flange	Yaskawa Motoman	AR 3210	DIX ADFL 6303	687003503
	Flange	Yaskawa Motoman	GP12	DIX ADFL 6303	687003503
	Flange	Yaskawa Motoman	GP20HL	DIX ADFL 6303	687003503
	Flange	Yaskawa Motoman	MA 1440	DIX ADFL 6303	687003503
	Flange	Yaskawa Motoman	MA 2010	DIX ADFL 6303	687003503
	Flange	Yaskawa Motoman	MA 3120	DIX ADFL 6303	687003503
	Flange	Yaskawa Motoman	MH12	DIX ADFL 6303	687003503
	Flange	Yaskawa Motoman	MH24	DIX ADFL 6303	687003503

► Other flanges on request.





# Adapter flanges

## DIX 61-3-20xx

For tool storage system WAS 100  
MIG/MAG, WIG

System components

WAS KD 3100



Robot

Application sample

	Description	Manufacturer	Robot type	Part name	Part number
1	Flange	ABB	IRB 1000	DIX 61-3-2010*	683112010
	Flange	ABB	IRB 1000	DIX 61-3-2012**	683112012
	Flange	ABB	IRB 1200	DIX 61-3-2401**	683112401
	Flange	ABB	IRB 1400	DIX 61-3-2010*	683112010
	Flange	ABB	IRB 1400	DIX 61-3-2012**	683112012
	Flange	ABB	IRB 1500	DIX 61-3-2010*	683112010
	Flange	ABB	IRB 1600	DIX 61-3-2010	683112010
	Flange	ABB	IRB 2000	DIX 61-3-2010*	683112010
	Flange	ABB	IRB 2000	DIX 61-3-2012**	683112012
	Flange	ABB	IRB 2400	DIX 61-3-2018/1*	6831120181
	Flange	ABB	IRB 2400/10	DIX 61-3-2018/1**	6831120181
	Flange	ABB	IRB 2400/10	DIX 61-3-2018/AL*	P683112001-001
	Flange	ABB	IRB 2400/16	DIX 61-3-2018/1**	683112018
	Flange	ABB	IRB 2400/16	DIX 61-3-2018/AL*	P683112001-001
	Flange	ABB	IRB 2400L	DIX 61-3-2010*	683112010
	Flange	ABB	IRB 2500	DIX 61-3-2010*	683112010
	Flange	ABB	IRB 2500	DIX 61-3-2012**	683112012
	Flange	ABB	IRB 2600-12/1,65	DIX 61-3-2018/1**	683112018
	Flange	ABB	IRB 2600-12/1,65	DIX 61-3-2018/AL*	P683112001-001
	Flange	ABB	IRB 2600-12/1,85	DIX 61-3-2018/1**	683112018
	Flange	ABB	IRB 2600-12/1,85	DIX 61-3-2018/AL*	P683112001-001
	Flange	ABB	IRB 2600-20/1,65	DIX 61-3-2018/1**	683112018
	Flange	ABB	IRB 2600-20/1,65	DIX 61-3-2018/AL*	P683112001-001
	Flange	ABB	IRB 3000	DIX 61-3-2014*	683112014
	Flange	ABB	IRB 3400	DIX 61-3-2014*	683112014
	Flange	ABB	IRB 4400/45	DIX 61-3-2013**	683112013
	Flange	ABB	IRB 4400/60	DIX 61-3-2013**	683112013
	Flange	ABB	IRB 4400/L10	DIX 61-3-2018/1**	683112018
	Flange	ABB	IRB 4400/L30	DIX 61-3-2013**	683112013
	Flange	ABB	IRB 4450/S	DIX 61-3-2013**	683112013
	Flange	ABB	IRB 4600/20	DIX 61-3-2018**	683112018

\* Aluminium flange  
\*\* Insulating flange



# Adapter flanges

## DIX 61-3-20xx

### For tool storage system WAS 100 MIG/MAG, WIG



Description	Manufacturer	Robot type	Part name	Part number
Flange	ABB	IRB 4600/40	DIX 61-3-2013	683112013
Flange	ABB	IRB 4600/60	DIX 61-3-2013**	683112013
Flange	ABB	IRB 6	DIX 61-3-2010*	683112010
Flange	ABB	IRB 6	DIX 61-3-2012**	683112012
Flange	ABB	IRB 640 M98	DIX 61-3-2017	683112017
Flange	ABB	IRB 6400	DIX 61-3-2017*	683112017
Flange	ABB	TR 5002	DIX 61-3-2015 A*	6831120150
Flange	ABB	TR 5002	DIX 61-3-2015 B*	6831120151
Flange	ABB	TR 5002	DIX 61-3-2015 C*	6831120152
Flange	Acma	TH8	DIX 61-3-2180*	683112180
Flange	Afma	R3V	DIX 61-3-2190*	683112190
Flange	Afma	R4	DIX 61-3-2191	683112191
Flange	Cincinnati	T3 – 746	DIX 61-3-2140*	683112140
Flange	Cloos	R310, R360	DIX 61-3-2033*	683112033
Flange	Cloos	R320, R350, R410	DIX 61-3-2033*	683112033
Flange	Cloos	Romat 105/106	DIX 61-3-2030*	683112030
Flange	Cloos	Romat 106/So AH	DIX 61-3-2034*	683112034
Flange	Cloos	Romat 56	DIX 61-3-2031*	683112031
Flange	Cloos	Romat 75/76	DIX 61-3-2032*	683112032
Flange	Comau	Smart S2	DIX 61-3-2220**	683112220
Flange	Comau	Smart S4	DIX 61-3-2221*	683112221
Flange	Comau	Smart S4	DIX 61-3-2222**	683112222
Flange	Commercy	CY 1006	DIX 61-3-2130*	683112130
Flange	Commercy	CY 2006	DIX 61-3-2131*	683112131
Flange	Commercy	CY 2006	DIX 61-3-2132*	683112132
Flange	Commercy	CY 800	DIX 61-3-2130*	683112130
Flange	Fanuc	100 i / 100 iB	DIX 61-3-2010	683112010
Flange	Fanuc	ARC-Mate 100/120iC	DIX 61-3-2024	683112024
Flange	Fanuc	ARC-Mate 100/S-6	DIX 61-3-2010	683112010
Flange	Fanuc	ARC-Mate 1001	DIX 61-3-2151*	683112151
Flange	Fanuc	ARC-Mate 120	DIX 61-3-2012**	683112012
Flange	Fanuc	M-16iB/20-iB/10L	DIX 61-3-2042	683112042
Flange	Fanuc	M-710iC/12L	DIX 61-3-2024	683112024
Flange	Fanuc	R-2000 iA 125L	DIX 61-3-2017	683112017
Flange	Fanuc	R-2000 iA 165F/R/L	DIX 61-3-2017	683112017
Flange	Fanuc	S 420 R	DIX 61-3-2153*	683112153
Flange	Fanuc	S1 17°	DIX 61-3-2150/1*	6831121501
Flange	Fanuc	S1; ARC.Mate 100/M6, mit Flangeadapter	DIX 61-3-2150	683112150
Flange	Fanuc	S1; ARC.Mate 100/M6, mit Flangeadapter	DIX 61-3-2150 AL	683112152

\* Aluminium flange  
\*\* Insulating flange



# Adapter flanges

## DIX 61-3-20xx

### For tool storage system WAS 100

#### MIG/MAG, WIG

Description	Manufacturer	Robot type	Part name	Part number
Flange	Fanuc	S500	DIX 61-3-2150	683112150
Flange	Fanuc	SS 10	DIX 61-3-2150*	683112150
Flange	GDA		DIX 61-3-2210*	683112210
Flange	Hitachi	HPR 10	DIX 61-3-2020*	683112020
Flange	Hitachi	HPR 10	DIX 61-3-2025**	683112025
Flange	Hitachi	LR 10	DIX 61-3-2020*	683112020
Flange	Hitachi	LR 10	DIX 61-3-2025**	683112025
Flange	Hitachi	M 50/30	DIX 61-3-2022*	683112022
Flange	Hitachi	M 6060/2	DIX 61-3-2020*	683112020
Flange	Hitachi	M 6100	DIX 61-3-2020*	683112020
Flange	Hitachi	M 6100	DIX 61-3-2025**	683112025
Flange	Hitachi	M 6300	DIX 61-3-2023*	683112023
Flange	Hitachi	M6060/2	DIX 61-3-2025**	683112025
Flange	Hitachi	MR 6060	DIX 61-3-2042*	683112042
Flange	Hitachi	MR 6100	DIX 61-3-2042*	683112042
Flange	Hitachi	PW 10/2	DIX 61-3-2020*	683112020
Flange	Hitachi	PW 10/2	DIX 61-3-2025**	683112025
Flange	IGM	Limat 2000	DIX 61-3-2050*	683112 050
Flange	Kawasaki	FA 06 E	DIX 61-3-2042*	683112 042*
Flange	Kawasaki	FA 10 L	DIX 61-3-2046*	683112046*
Flange	Kawasaki	FS06	DIX 61-3-2042*	683112013
Flange	Kawasaki	JS-10	DIX 61-3-2042*	683112042*
Flange	Kawasaki	JS-6	DIX 61-3-2042*	683112042*
Flange	Kawasaki	RS006L	DIX 61-3-2042*	683112013
Flange	Kuka	IR 160/15	DIX 61-3-2080*	683112080
Flange	Kuka	IR 160/25	DIX 61-3-2080*	683112080
Flange	Kuka	IR 160/60	DIX 61-3-2081*	683112081
Flange	Kuka	IR 161/15	DIX 61-3-2080*	683112080
Flange	Kuka	IR 361/8	DIX 61-3-2083*	683112083
Flange	Kuka	IR 363/8	DIX 61-3-2082*	683112082
Flange	Kuka	IR 364/10	DIX 61-3-2087*	683112087
Flange	Kuka	IR 364/15	DIX 61-3-2084*	6831120841
Flange	Kuka	IR 364/6	DIX 61-3-2084*	6831120841
Flange	Kuka	IR 364/8	DIX 61-3-2084**	6831120841
Flange	Kuka	IR 365/30	DIX 61-3-2082*	683112082
Flange	Kuka	IR363/6	DIX 61-3-2084*	6831120841
Flange	Kuka	KR 15/2	DIX 61-3-2084*	6831120841
Flange	Kuka	KR 16	DIX 61-3-2084*	6831120841
Flange	Kuka	KR 16 HW	DIX 61-3-2305	683112305
Flange	Kuka	KR 16 L8 HW	DIX 61-3-2029	683112029
Flange	Kuka	KR 16 R2010	DIX 61-3-2084*	6831120841
Flange	Kuka	KR 16-2	DIX 61-3-2084*	6831120841

\* Aluminium flange  
\*\* Insulating flange



# Adapter flanges

## DIX 61-3-20xx

### For tool storage system WAS 100

### MIG/MAG, WIG

Description	Manufacturer	Robot type	Part name	Part number
Flange	Kuka	KR 30 L16-2	DIX 61-3-2084*	683112084
Flange	Kuka	KR 30/2	DIX 61-3-2013**	683112013
Flange	Kuka	KR 30/2	DIX 61-3-2086*	683112086
Flange	Kuka	KR 30-3	DIX 61-3-2086	683112086
Flange	Kuka	KR 45/2	DIX 61-3-2086*	683112086
Flange	Kuka	KR 6	DIX 61-3-2042*	683112042
Flange	Kuka	KR 6 ARC	DIX 61-3-2042*	683112042
Flange	Kuka	KR 60 L30-3	DIX 61-3-2086	683112086
Flange	Kuka	KR 60 L45-3	DIX 61-3-2086	683112086
Flange	Kuka	KR 60-3	DIX 61-3-2086	683112086
Flange	Kuka	KR 6-2	DIX 61-3-2042*	683112042
Flange	Kuka	KR 8 R2010	DIX 61-3-2084*	6831120841
Flange	Kuka	KR16 L6	DIX 61-3-2042*	683112042
Flange	Kuka	KR20 R1810	DIX 61-3-2084*	6831120841
Flange	Kuka	KR30/1	DIX 61-3-2082	683112082
Flange	Kuka	VKR 125; KR 150	DIX 61-3-2085*	683112085P
Flange	Manutec	R15	DIX 61-3-2070*	683112070
Flange	Manutec	R15 D	DIX 61-3-2070*	683112070
Flange	Manutec	R15, Bohrungen 30° gedreht	DIX 61-3-2071*	683112071
Flange	Manutec	R3	DIX 61-3-2070*	683112070
Flange	Manutec	R3, Bohrungen 30° gedreht	DIX 61-3-2071*	683112071
Flange	Meyer	GMFS 5	DIX 61-3-2123B*	6831121231
Flange	Milacron	T3 – 586	DIX 61-3-2141*	683112141
Flange	Nachi	5000	DIX 61-3-2170*	683112170
Flange	OTC	AX M H3	DIX 61-3-2010	683112010
Flange	OTC	DR 4400	DIX 61-3-2092**	683112092
Flange	OTC	FD V35 / V50 / V70	DIX 61-3-2082*	683112082
Flange	OTC	FD-H5 (A2-5H)	DIX 61-3-2010	683112010
Flange	OTC	G01	DIX 61-3-2093*	683112093
Flange	OTC	G01 S	DIX 61-3-2095**	683112095
Flange	OTC	G01 SAF	DIX 61-3-2094*	683112094
Flange	OTC	IRB 511	DIX 61-3-2092*	683112092
Flange	OTC	IRB 511	DIX 61-3-2097**	683112097
Flange	OTC	LX	DIX 61-3-2091**	683112091
Flange	OTC	Thor-K	DIX 61-3-2090*	683112090
Flange	OTC	V01	DIX 61-3-2092*	683112092
Flange	OTC	V01 / V10 / AX M H3	DIX 61-3-2097**	683112097
Flange	OTC	V20 S	DIX 61-3-2096**	683112096
Flange	OTC	V6/V6L	DIX 61-3-2019	683112019
Flange	OTC	W01 S	DIX 61-3-2098*	683112098
Flange	Panasonic	AW – 550	DIX 61-3-2160*	683112160

\* Aluminium flange  
 \*\* Insulating flange





# Adapter flanges

## DIX 61-3-20xx

### For tool storage system WAS 100

### MIG/MAG, WIG

System components

Description	Manufacturer	Robot type	Part name	Part number
Flange	Panasonic	AW – 8010	DIX 61-3-2160*	683112160
Flange	Panasonic	TAWERS TA 1400	DIX 61-3-2161*	683112161
Flange	Panasonic	VR 006 / VR 008	DIX 61-3-2161*	683112161
Flange	Reis	2102	DIX 61-3-2104**	683112104
Flange	Reis	A6	DIX 61-3-2103*	683112103
Flange	Reis	RH 12	DIX 61-3-2102*	683112102
Flange	Reis	RH 15	DIX 61-3-2102*	683112102
Flange	Reis	RH 16	DIX 61-3-2102*	683112102
Flange	Reis	RR V 12	DIX 61-3-2100*	683112100
Flange	Reis	RR V 15S	DIX 61-3-2100*	683112100
Flange	Reis	RV 10-6	DIX 61-3-2103*	683112103
Flange	Reis	RV 12	DIX 61-3-2102*	683112102
Flange	Reis	RV 12L	DIX 61-3-2102*	683112102
Flange	Reis	RV 15	DIX 61-3-2102*	683112102
Flange	Reis	RV 16	DIX 61-3-2102*	683112102
Flange	Reis	RV 20-16	DIX 61-3-2102*	683112102
Flange	Reis	RV 20-6	DIX 61-3-2103*	683112103
Flange	Reis	RV 30	DIX 61-3-2101*	683112101
Flange	Reis	RV 30-16	DIX 61-3-2102*	683112102
Flange	Reis	RV 6	DIX 61-3-2103*	683112103
Flange	Reis	V6	DIX 61-3-2102*	683112102
Flange	Samsung	AM 2	DIX 61-3-2220**	683112220
Flange	SEF	SR 25	DIX 61-3-2250*	683112250*
Flange	Stäubli	RS 156	DIX 61-3-2200*	683112200
Flange	Unimation	Puma	DIX 61-3-2120*	683112120
Flange	Unimation	Puma 562	DIX 61-3-2122*	683112122
Flange	Unimation	Puma 761/2	DIX 61-3-2121*	683112121
Flange	VW	G10	DIX 61-3-2060*	683112060
Flange	VW	G15	DIX 61-3-2060*	683112060
Flange	VW	G8	DIX 61-3-2060*	683112060
Flange	Yaskawa Motoman	Eurobot 10	DIX 61-3-2045**	683112045
Flange	Yaskawa Motoman	10GB	DIX 61-3-2044*	683112044
Flange	Yaskawa Motoman	3S-10	DIX 61-3-2042*	683112042
Flange	Yaskawa Motoman	HP6/HP20	DIX 61-3-2042*	683112042
Flange	Yaskawa Motoman	JS-6	DIX 61-3-2042*	683112042
Flange	Yaskawa Motoman	K10S	DIX 61-3-2042*	683112042
Flange	Yaskawa Motoman	K205S	DIX 61-3-2042*	683112042
Flange	Yaskawa Motoman	K30	DIX 61-3-2043*	683112043
Flange	Yaskawa Motoman	K6S	DIX 61-3-2042*	683112042
Flange	Yaskawa Motoman	L106	DIX 61-3-2045**	683112045

\* Aluminium flange  
\*\* Insulating flange





# Adapter flanges

## DIX 61-3-20xx

### For tool storage system WAS 100

#### MIG/MAG, WIG



Description	Manufacturer	Robot type	Part name	Part number
Flange	Yaskawa Motoman	L106, 8 Bohrungen 12,8°	DIX 61-3-2040/1*	6831120401
Flange	Yaskawa Motoman	L106, 8 Bohrungen 45°	DIX 61-3-2040/2*	6831120402
Flange	Yaskawa Motoman	L15	DIX 61-3-2041*	683112041
Flange	Yaskawa Motoman	L20	DIX 61-3-2041*	683112041
Flange	Yaskawa Motoman	L30	DIX 61-3-2041*	683112041
Flange	Yaskawa Motoman	MH50-20	DIX 61-3-2042*	683112042
Flange	Yaskawa Motoman	MH6	DIX 61-3-2042*	683112042
Flange	Yaskawa Motoman	SK-6/10/16	DIX 61-3-2042*	683112042
Flange	Yaskawa Motoman	UP20	DIX 61-3-2042*	683112042
Flange	Yaskawa Motoman	UP6	DIX 61-3-2042*	683112042

System components

5



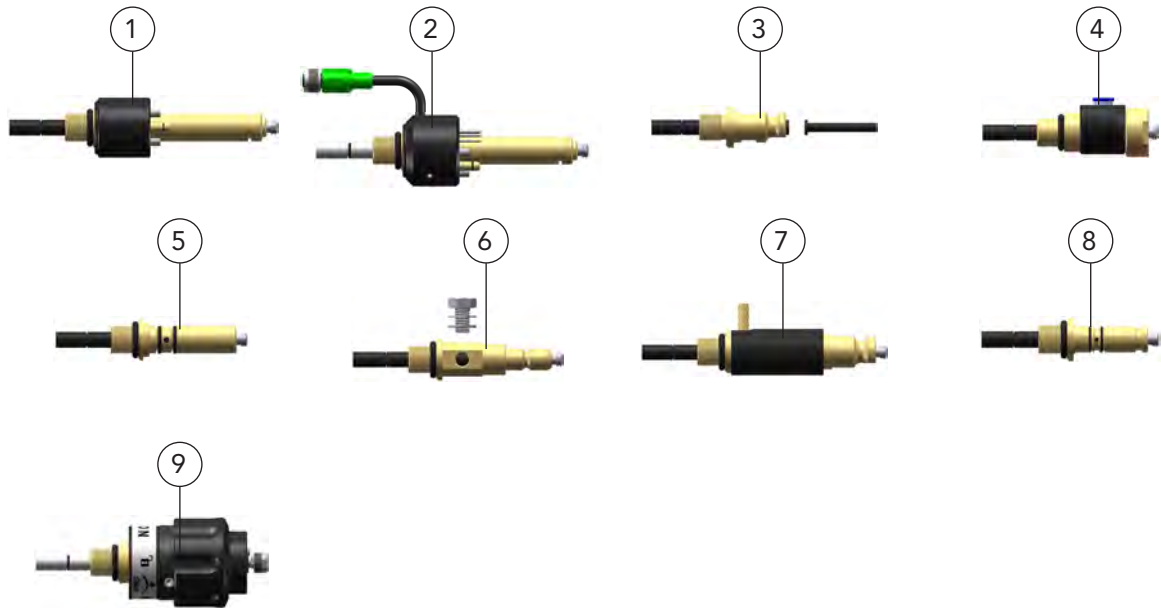
\* Aluminium flange  
 \*\* Insulating flange



# Power pins DIX PP 1xx

## For automation MIG/MAG

Only for plugs with N (neutral) connection.



● For information on the compact plugs for power pins, see Chapter 1 MIG/MAG Automation or ask your DINSE consultant.

	Description	Manufacturer	Wire feeder Type	Part name	Part number
1	Power Pin	Fronius	VR 5000 rob/PAP	DIX PP 108	639118009
2	Power Pin	Fronius*	WF 15i, WF 25i, WF 30i	DIX PP 110	639118032
3	Power Pin	Kemppi	DT 410(L)	DIX PP 114	639118016
4	Power Pin	Lincoln	Auto Drive 4R90, Auto Drive 4R100, Auto Drive 4R220	DIX PP 1092	639118028
5	Power Pin	Miller	Axcess Feeder 60 Series, Axcess Feeder 70 Series	DIX PP 102	639118003
6	Power Pin	OTC	AF-4001, AFA-4001, AFT-4201, AFU-4201	DIX PP 113	639118015
7	Power Pin	Panasonic	Gun Slinger 260 Standard	DIX PP 104	639118005
8	Power Pin	Tweco #4		DIX PP 103	639118004
9	Power Pin + Media connection	Every wire feeder with EURO central connection		DIX PP 117 DIX REMA PP 117 SA	639118024 718231004

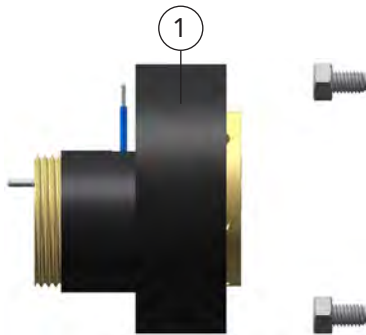
► Other power pins on request.



# Torch body DIX MEK 54xx For automation MIG/MAG



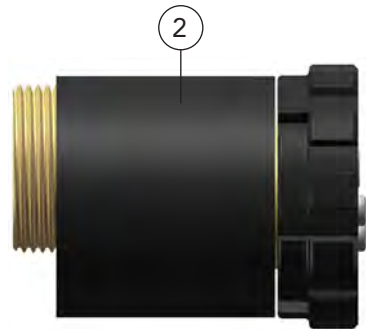
Connection view  
IGM Torch set



Connection view  
DINSE Torch head



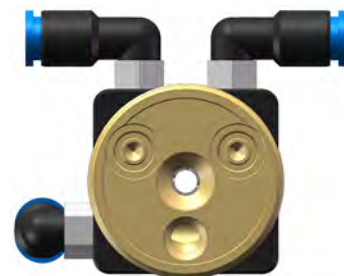
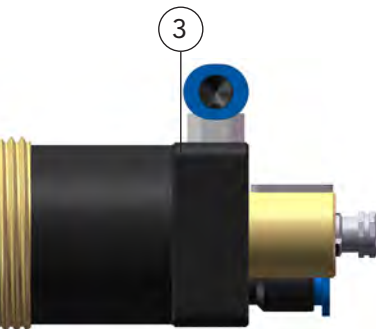
Connection view  
Cloos Torch set



Connection view  
DINSE Torch head



Connection view  
OTC Torch set



Connection view  
DINSE Torch head

System components

5

Description	Manufacturer	Part name	Part number
1 Torch body	IGM	DIX MEK 5400	6310155400
2 Torch body	Cloos	DIX MEK 5401	6310155401
3 Torch body	OTC	DIX MEK 5402	6310155402

► Other torch bodies on request.

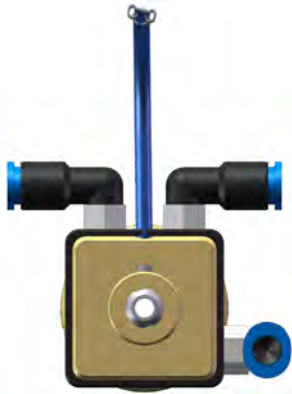
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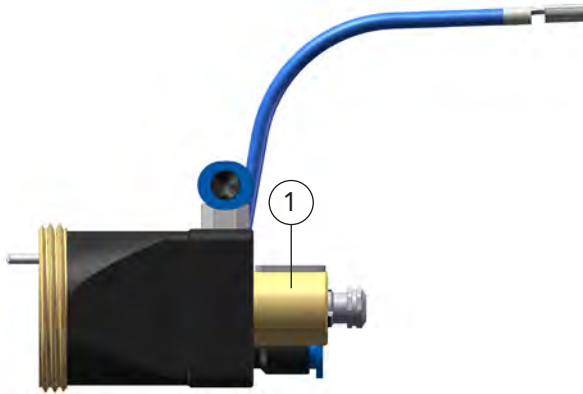


# Torch body DIX MEK 54xx For automation MIG/MAG

System components



Connection view  
Panasonic Torch set



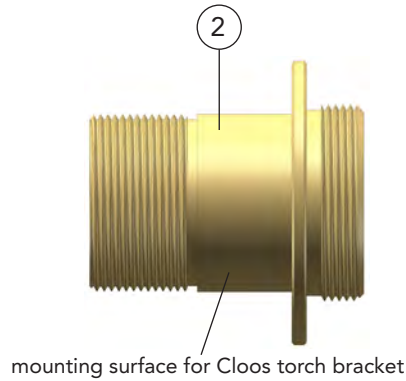
1



Connection view  
DINSE Torch head



Connection view  
Cloos Torch set



2

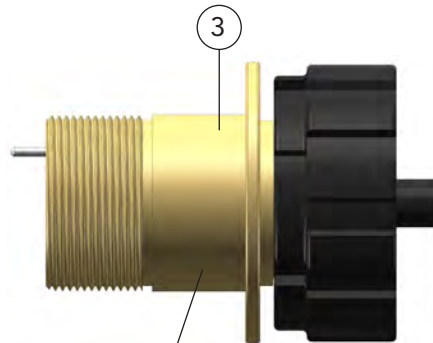
mounting surface for Cloos torch bracket



Connection view  
DINSE Torch head



Connection view  
DINSE Torch set



3

mounting surface for Cloos torch bracket

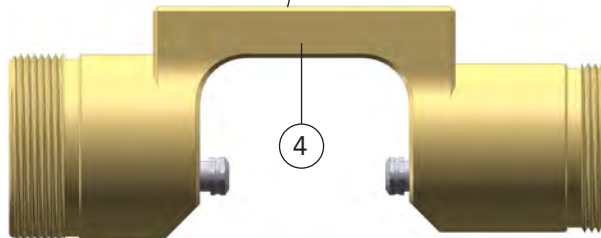


Connection view  
DINSE Torch head

mounting surface for Cloos drive unit (in top of the drive unit)



Connection view  
Cloos Torch set



4



Connection view  
DINSE Torch head

Description	Manufacturer	Part name	Part number
1 Torch body	Panasonic	DIX MEK 5403	6310155403
2 Torch body, with mounting surface suitable for Cloos torch bracket	Cloos	DIX MEK 5404	6310155406
3 Torch body, with mounting surface suitable for Cloos torch bracket	Cloos	DIX MEK 5405	6310155407
4 Torch body, with mounting surface suitable for Cloos drive unit	Cloos	DIX MEK 5406	6310155408

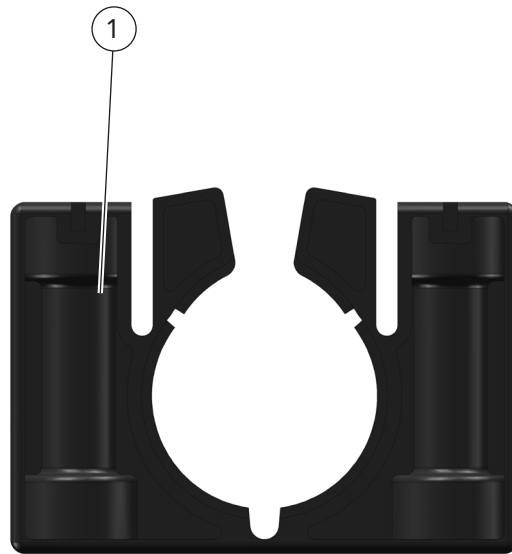
▶ Other torch bodies on request.

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# System holder for supply hose

## For manual, robotic and automatic torches MIG/MAG, TIG, LASER



Description	Diameter nominal	Dimension (W/H/D in mm)	Part name	Part number
1 Holder Fixing for cover hose set DIX VL 230-__	DN 29	71.6/49.5/30	DIX VLH 29	62923550413
Holder Fixing for intermediate hose package DIX ZSR 70-__, DIX ZSRZ 70-__, DIX WFL-400/550-__ and VSD package DIX WFL-S-__	DN 36	88.6/61.6/30	DIX VLH 36	62923550313
Holder Fixing for cover hose set WIG DIX VL 237-__	DN 42	88.0/72.5/38	DIX VLH 42	62923550214
Holder Fixing for intermediate hose package DIX ZSRZ 95-__ and VSD package DIX WFL-S-__, DIX WFL-SE-__	DN 48	88.6/72.5/30	DIX VLH 48	62923550213

-- Enter the desired length of the cover hose set, intermediate hose package or VSD package. Please ask your DINSE consultant.

► Mounting parts and other nominal diameters on request



# Wire adjusting units

## DIX DRE 100, DIX DRE 100 V, DIX DRE 101

### For robotic and automatic torch sets MIG/MAG, TIG

#### Properties

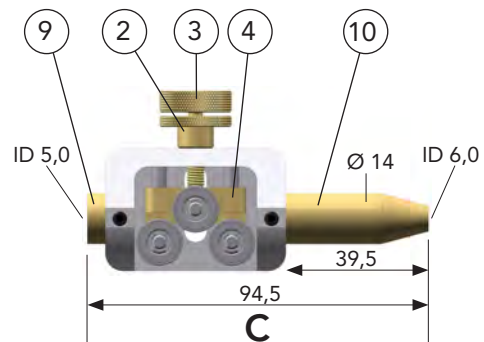
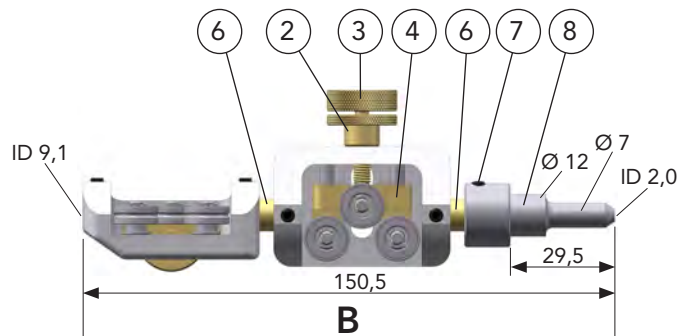
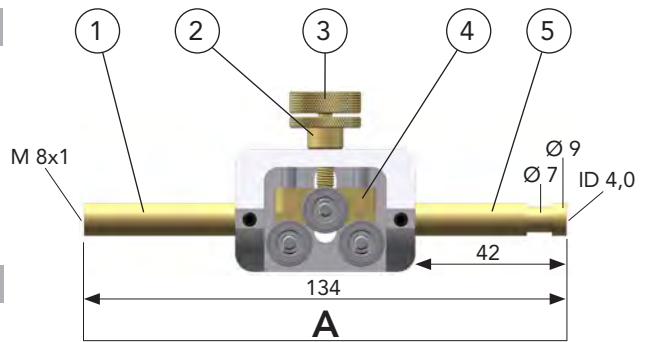
- ▶ Small design
- ▶ Low weight
- ▶ Accurate wire aligning

#### Application

- ▶ Steel welding wire
- ▶ Aluminum welding wire
- ▶ Flux-cored welding wire

#### Technical data:

Wire diameter: 0.6 - 1.6 mm



Description	Dimensions (mm)	Part name	Part number
A Wire adjusting unit	L 134 / wire-Ø 1,0 - 1,6	DIX DRE 100	6382600100
B Wire adjusting unit package	L 150,5 / wire-Ø 1,0 - 1,6	DIX DRE 100 V	6382600101
C Wire adjusting unit	L 94,5 / wire-Ø 1,0 - 1,6	DIX DRE 101	6382610100

#### Spare parts and wear parts

1 End sleeve 2		DIX DRE 100-08	6382608100
2 Lock nut		DIX DRE 100-06	6382606100
3 Adjusting screw		DIX DRE 100-05	6382605100
4 Slide bar		DIX DRE 100-02	6382602100
5 End sleeve 1		DIX DRE 100-07	6382607100
6 End sleeve		DIX DRE 100-10	6382610402
7 Screw pin M 4x 6 ISO4026 sw 45H			6390601400022
8 Wire guide		DIX FD100 WG-PNV	7430030063
9 Intake spout		DIX DRE 100 FLD	6382610101
10 End sleeve		DIX DRE 100-01 FLD	6382610102

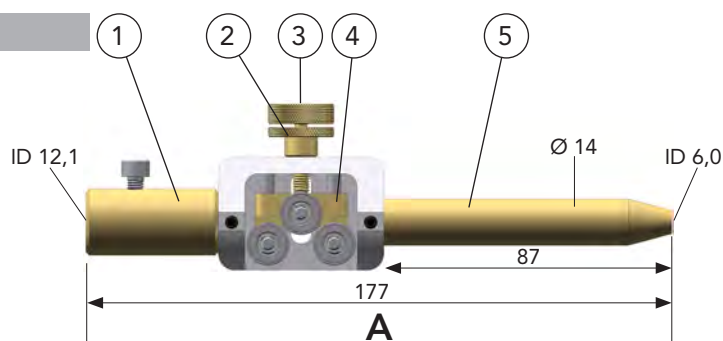
# Wire adjusting units

## DIX DRE 102, DIX DRE 103, DIX DRE 104

### For robotic and automatic torch sets MIG/MAG, TIG

#### Properties

- ▶ Small design
- ▶ Low weight
- ▶ Accurate wire aligning

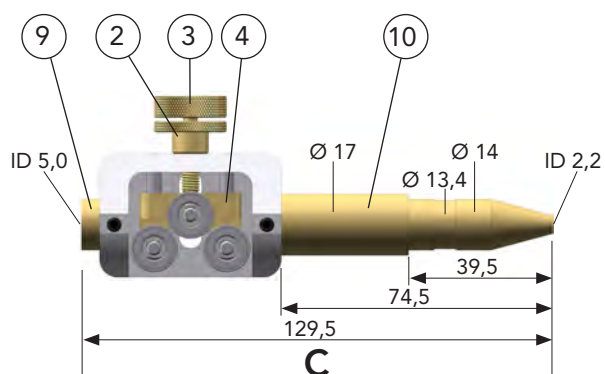
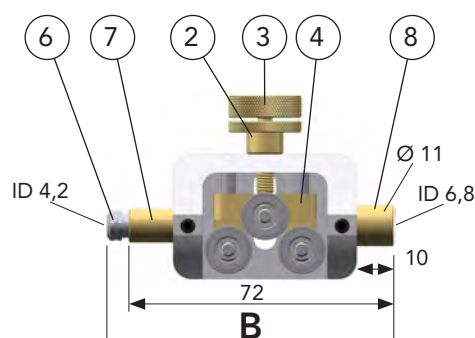


#### Application

- ▶ Steel welding wire
- ▶ Aluminum welding wire
- ▶ Flux-cored welding wire

#### Technical data:

Wire diameter: 0.6 - 1.6 mm



Description	Dimensions (mm)	Part name	Part number
A Wire adjusting unit	L 177 / wire-Ø 1,0 - 1,6	DIX DRE 102	6382610200
B Wire adjusting unit	L 80 / wire-Ø 1,0 - 1,6	DIX DRE 103	6382610300
C Wire adjusting unit	L 129,5 / wire-Ø 1,0 - 1,6	DIX DRE 104	6382610400

#### Spare parts and wear parts

1 Intake spout, complete	DIX DRE 102-02	6382610201
2 Lock nut	DIX DRE 100-06	6382606100
3 Adjusting screw	DIX DRE 100-05	6382605100
4 Slide bar	DIX DRE 100-02	6382602100
5 End sleeve	DIX DRE 102-01	6382610202
6 Clamp sleeve	DIX SH 270	629270270
7 SH Aufnahme	DIX DRE 103-01	6382610301
8 Fixture	DIX DRE 103-02	6382610302
9 Intake spout	DIX DRE 100 FLD	6382610101
10 End sleeve	DIX DRE 104-01	6382610401





# Wire feed system Supraliner for robotic-, automatic- and laser applications

## Technical data:

Supraliner	VLSL 201
Wire diameter:	ø 0.8-1.6 mm
Outside diameter:	ø 37 mm
Minimum bending radius:	150 mm
Allowed distortion:	180°/meter



Supraliner DIX VLSL 201

## Advantage

- ▶ Perfect for high dynamic movements
- ▶ No abrasion due to extremely small forces to the wire
- ▶ Low maintenance
- ▶ Without any sliding friction
- ▶ 90° shifted rolls guides the wire
- ▶ Allowed bending radius is 150 mm
- ▶ Low weight
  
- ▶ Options:  
Connection sets WDX 109 WD 300 for wire feeder and  
Connection set WB-SC for wire bulk container
- ▶ Connection to drive unit  
FD 200 M(ME) and  
Drive unit FD 100 LS-(WB)  
(Connection set FD 100 CS-SF)



Supraliner, wire feeder and wire bulk container  
application sample - Laser

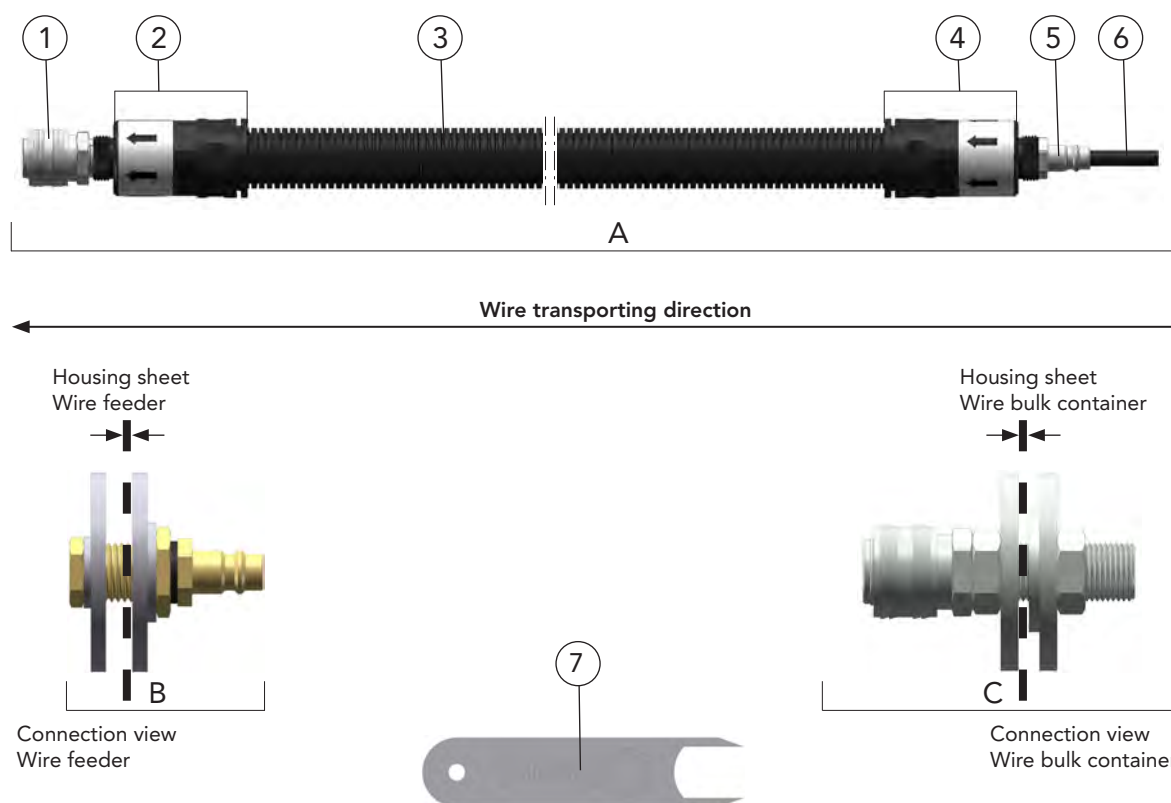
## Application

- ▶ Support of welding wires
- ▶ Connection from wire bulk container to the wire feeder
- ▶ Connection from wire bulk container to the welding torch
- ▶ Connection from wire feeder to the welding torch





# Wire feed system Supraliner for robotic-, automatic- and laser applications



System components

5

Description	Dimension ID/length	Part name	Part number
A Supraliner		DIX VLSL 201-__	6292140__0
▶ Other lengths on request.			
Options:			
B Connection set For wire feeder		DIX SF-DV	629201407
C Connection set wire bulk container For wire bulk container		DIX WB-CS	738100011
Spare and wear parts:			
1 Coupling socket, G 1/4 AG		DIX FD100 SO	629201403
2 Wire outlet		DIX WGO 201	629214002
3 Cover hose		DIX VLSL 230-__	6292320__
4 Wire inlet		DIX WGI 201	629214003
5 Coupling plug, G 1/4 AG		DIX FD100 PN	719261280
6 Wire guide	ø 10 mm / 68 mm	DIX FD 100 WG-SF	7430030062
7 VLSL Separating tool 3G for Supraliner			629214004
Supraliner, not shown Without Pos. 2, 3, and 4	ø 1.6 mm / 25 m	DIX VLSL 202	629214000

-- In case of order enter the desired length, e.g.: 10 = 1.0 m or 20 = 20.0 m.  
Standard lengths: 1.0 m, 4.0 m, 7.0 m, 8.0 m, 10.0 m, 20.0 m and 22.0 m





# Wire feeders for MIG/MAG Welding applications

## DIX WD 300

### For robotic and half automation applications

Technical data (IEC 60974-5):	
<b>Wire feeder</b>	<b>DIX WD 300</b>
Wire feed speed	0 - 24 m/min
Welding current, max.	500A/60% duty cycle
Wire diameter	0.8 - 1.6 mm
Line voltage	42V/50Hz
Protection class	IP 23
Dimension (L/W/H)	275/220/250 mm
Weight	approx. 7.2 kg
<b>Spool holder (optional)</b>	<b>DIX WDS 200</b> <b>DIX WDS 300</b>

Options according to range of application



Model for supportive PUSH operation

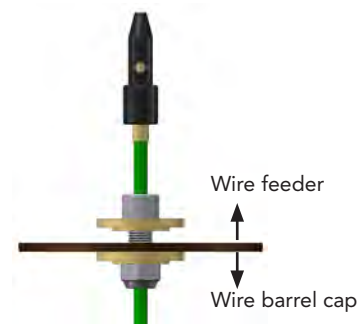
System components

#### Properties

- ▶ Supportive PUSH operation for wire feeding through long distances
- ▶ Torque controlled motor with adjustable maximum torque (feed power) prevents the filler wire from snapping
- ▶ Exact wire feeding independent of twisting, bending and torch set length
- ▶ For all power sources
- ▶ Light, robust and fully insulated through plastic housing

#### Application

- ▶ Solid and flux-cored wires
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper- and nickel alloys



Optional DFS-connection marathon DIX 36-2 to the connection between wire feeder DIX WD 300 and wire barrel cap application sample



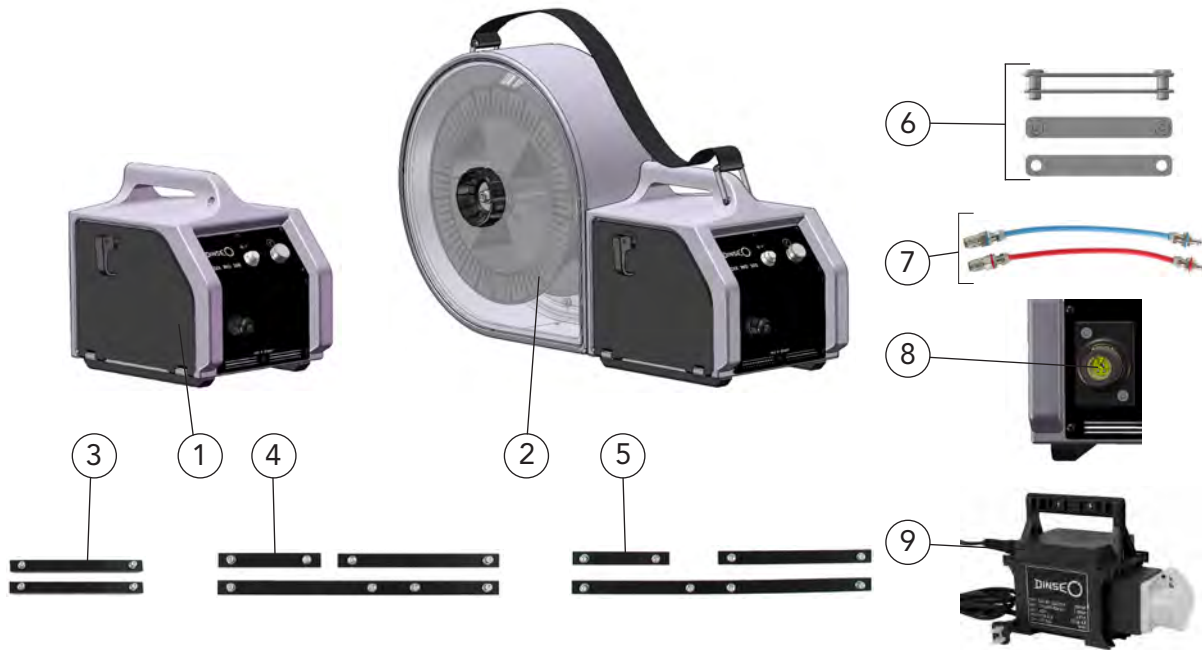
Model with wire barrel respectively for PUSH-PUSH operation



# Wire feeders for MIG/MAG Welding applications

## DIX WD 300

For robotic and half automation applications



System components

5

Description	Part name	Part number
1 Wire feeder Without drive roll*	DIX WD 300	730030000
2 Spool holder	DIX WDS 200	730520000
Spool holder	DIX WDS 300	730530000
<b>Options:</b>		
3 Slide bar set For wire feeder DIX WD 300	DIX WDG 100	738030000
4 Slide bar set For wire feeder DIX WD 300 with spool holder DIX WDS 200	DIX WDG 200	738035200
5 Slide bar set For wire feeder DIX WD 300 with spool holder DIX WDS 300	DIX WDG 300	738035300
6 Connection set For Connectiong DIX WD 300 with DIX WDS 200/300	DIX WDV 100	738010000
7 Water set For liquid cooled model	DIX WDW 100	738040000
8 Torch Connectiong set Only ready-installed available		
9 Power transformer, line voltage 230 Vac / 50-60Hz, output voltage 42 Vac	DIX NT 342	719590010
Cold wire set	DIX WDA 300	738050009
Hot wire set	DIX WDA 301	738050011
MAG set	DIX WDA 302	738050012
TIG set Not shown	DIX WDA 303	738050013
Gas solenoid valve set Not shown, for cold wire-, hot wire- and TIG set	DIX WDX 100	719280001
DFS-connection for marathon, not shown	DIX 36-2	718250001

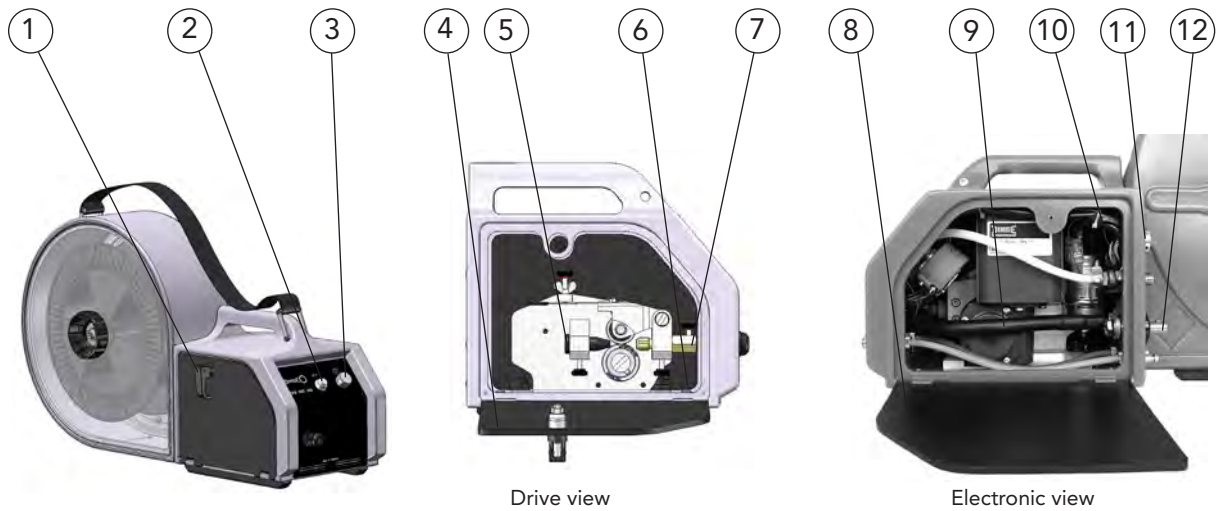
\* Each wire diameter requires his own drive roll.  
Part names and part numbers of the drive rolls are given in the spare parts and wear parts lists.

► All sets available ready-installed on request (specify when placing an order).  
Other fittings on request.

**Hint:** Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.



## Wire feeder WD 300



System components

Description	Part name	Part number
1 Cover plate catch	DIX WD-13-400	739130000
2 Sealing cap	DIX DV-32 DK	719329000
3 Potentiometer fixing	DIX DV-WS-005/2	71814000510
4 Cover (drive)	DIX WD-11-A	739110000
5 Intake spout	DIX 36-2 WDET	629363005
6 Screw, 2 pcs.	DIX DV-17-4000	719174000
7 Connectiong adapter	DIX 36-2 DV	629363000
Clamping sleeve Not shown	DIX 27-2 MAP	629270041
Clamping nut Not shown	DIX 28-2 SA	629280040
8 Cover (electronic)	DIX WD-11-E	739110100
9 Power cable	DIX DV-25-1410/095	719254141095
10 Solenoid valve	DIX GMV-42	719280042
11 Mounting plug	DIX DV-37-23/BURNDY	719377023
12 Plug	DIX SE 50/70	122300050
13 Compact socket	DIX EC 2-976 DV	650002976
14 Mounting socket	DIX DV-38-23/BURNDY	719387023
15 Front plate	DIX FP 977	659060977
16 SA - socket	DIX SAB 3-002 WIG	650103002



# Spare parts and wear parts

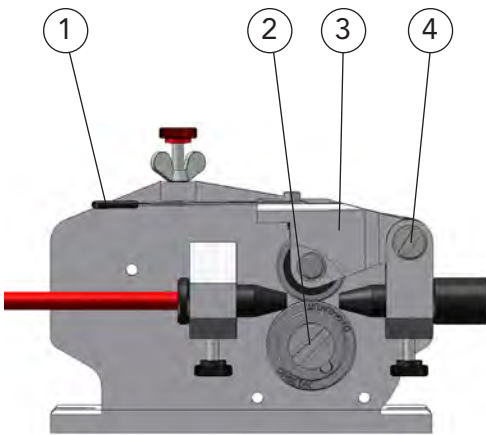


## Wire feeder WD 300 Drive rolls, Drive, Wiring set

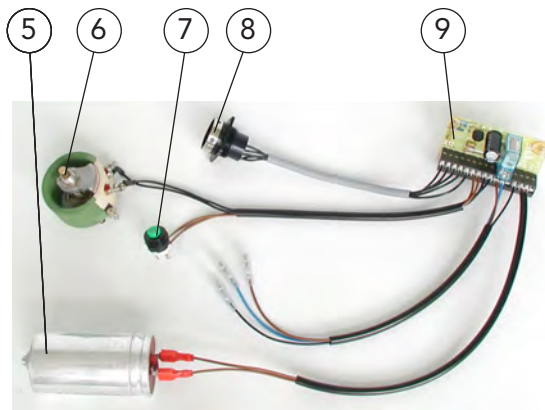


Description	Dimension	Part name	Part number
<b>Type of application for steel wire electrodes:</b>			
Drive roll	Wire ø 0.8 mm	DIX DV-04-08/08 T	719042080
Drive roll	Wire ø 1.0 mm	DIX DV-04-10/10 T	719042100
Drive roll	Wire ø 1.2 mm	DIX DV-04-12/12 T	719042120
Drive roll	Wire ø 1.6 mm	DIX DV-04-16/16 T	719042160
<b>Type of application for aluminum alloy wire electrodes:</b>			
Drive roll	Wire ø 0.8 mm	DIX DV-04-08/08 A	719041080
Drive roll	Wire ø 1.0 mm	DIX DV-04-10/10 A	719041100
Drive roll	Wire ø 1.2 mm	DIX DV-04-12/12 A	719041120
Drive roll	Wire ø 1.6 mm	DIX DV-04-16/16 A	719041160

► Each wire diameter requires his own drive roll. Other diameters on request.



2 rolls drive



Wiring set

Description	Part name	Part number
1 Spring plate	DIX DV-06 F	71906030013
2 Holding screw For drive roll	DIX DV-05 S	719050400
3 Pressure shackle, compl.	DIX DV-06 P	719060300
4 Steering pivot pin	DIX DV-07 S	719070400
5 Capacitor	DIX DV-KS 02	718130002
6 Resistor	DIX DV-WS-002/1	71814000211
7 Tipping switch	DIX DV-32	719320000
8 Mounting plug	DIX DV-37-23/BURNDY	719377023
9 Logic board	DIX ESLO 0202	719430202

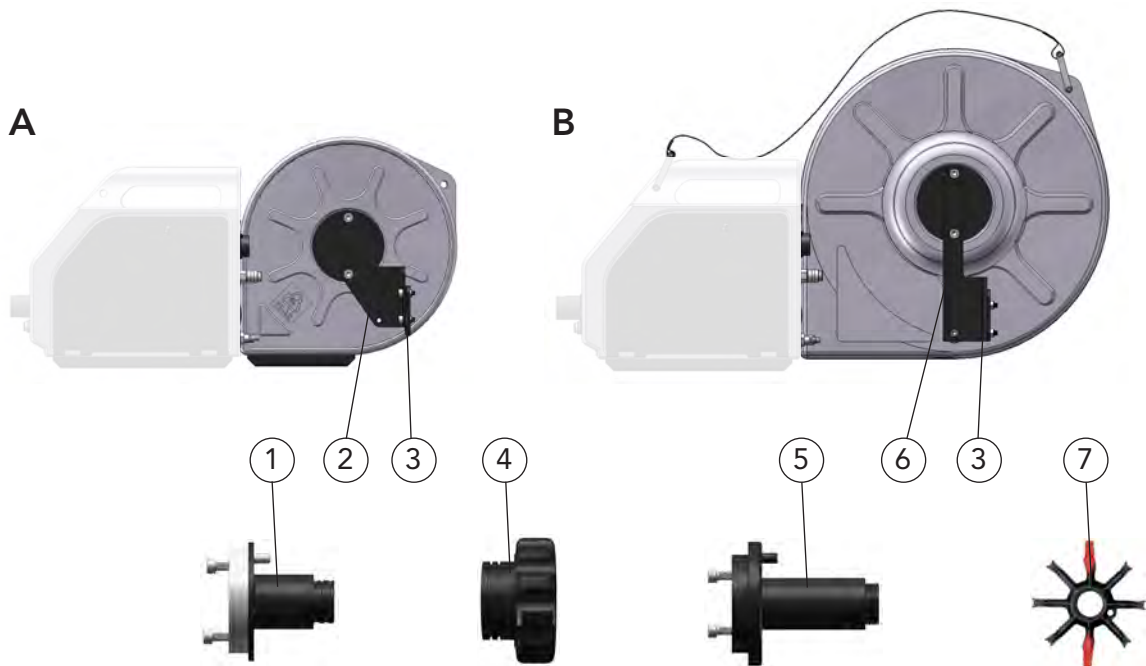
System components

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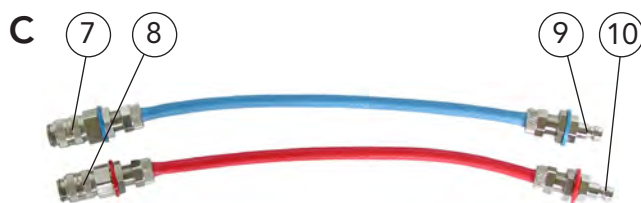


## Wire feeder WD 300

### Spool holder, Water set, Carry strap set



Description	Part name	Part number
A Spool holder, right version	DIX WDS 200	730520000
B Spool holder, right version	DIX WDS 300	730530000
Spool holder, left version	DIX WDS 300 LINKS	730530001
1 Spool mandrel (WDS 200)	DIX WDS-19-200	739190020
2 ZS - support	DIX WDS-23-120	739230120
3 ZS - supporting plate	DIX WDS-23-200	739230200
4 Spool nut For DIX WDS 200(300)	DIX DV-24-2400	719242400
5 Spool mandrel (WDS 300)	DIX WDS-19-300	739190030
6 ZS - support	DIX WDS-23-130	739230130
7 Coil adapter	DIX DV-KA	718500100
Spool holder cover Transparent, DIX WDS 200, not shown	DIX WDS-11-200	739115200
Spool holder cover Transparent, DIX WDS 300, not shown	DIX WDS-11-300	739115300



Description	Part name	Part number
C Water set	DIX WDW 100	738040000
7 Plug coupling, blue	DIX WD-30 BLAU	739300001
8 Plug coupling, red	DIX WD-30 ROT	739300002
9 Water plug, blue	DIX WD-26 BLAU	739260001
10 Water plug, red	DIX WD-26 ROT	739260002



# Wire feeders TIG Welding applications

## DIX WD 300/PI TIG

### For robotic and half automation applications TIG

Technical datas (IEC 60974-5):	
Wire feeder	DIX WD 300/PI WIG
Wire feed speed	0 - 24 m/min
Welding current, max.	500A/60% duty cycle
Wire diameter	0.8 - 1.6 mm
Line voltage	42V/50Hz
Protection class	IP 23
Dimension (L/W/H)	275/220/250 mm
Weight	approx. 7.2 kg
Spool holder (optional)	DIX WDS 200 DIX WDS 300

Options according to range of application



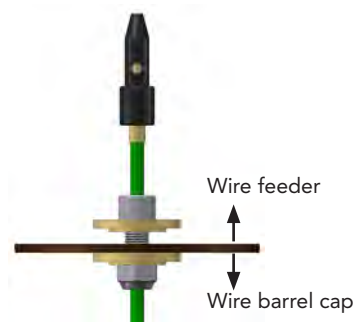
Model for supportive PUSH operation

#### Properties

- ▶ Supportive PUSH operation for wire feeding through long distances
- ▶ Torque controlled motor with adjustable maximum torque (feed power) prevents the filler wire from snapping
- ▶ Exact wire feeding independent of twisting, bending and torch set length
- ▶ For all power sources
- ▶ Light, robust and fully insulated through plastic housing

#### Application

- ▶ Solid and flux-cored wires
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper-and nickel alloys
- ▶ Small to large material thicknesses



Optional DFS connection marathon DIX 36-2 for connection between wire feeder DIX WD 300 and wire barrel application example

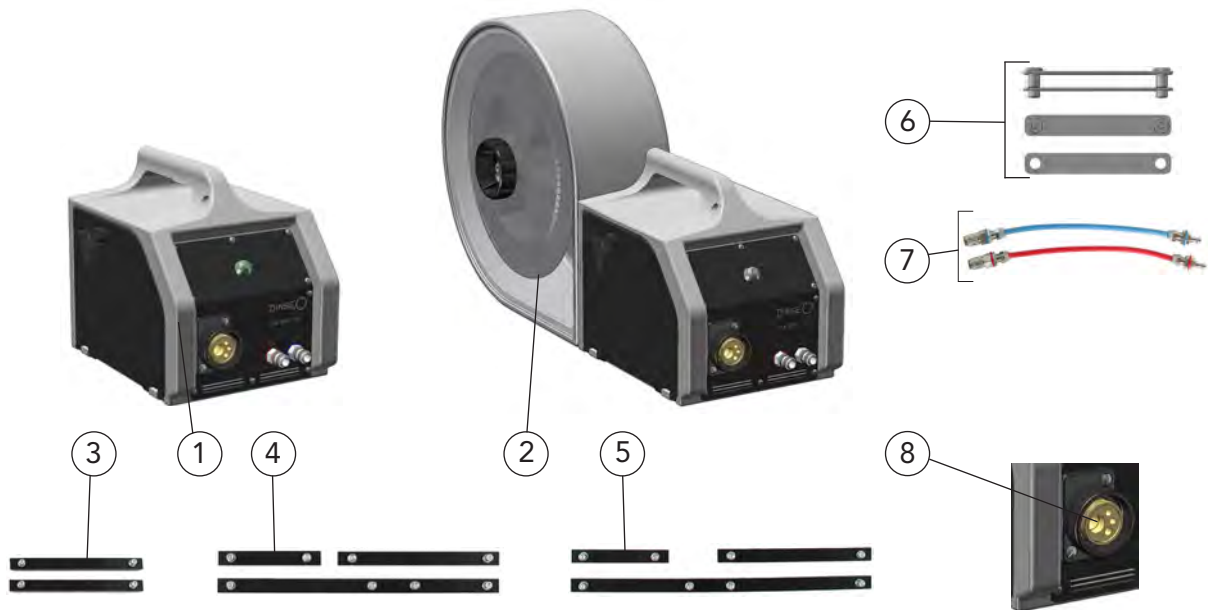


Version with wire barrel for PUSH-PUSH operation

# Wire feeders TIG Welding applications

## DIX WD 300/PI TIG

For robotic and half automation applications  
MIG/MAG, TIG, LASER



System components

Description	Part name	Part number
1 Wire feeder Without drive roll*	DIX WD 300/PI WIG	7410040182
2 Spool holder	DIX WDS 200	730520000
Spool holder	DIX WDS 300	730530000
Options:		
3 Slide bar set For wire feeder DIX WD 300	DIX WDG 100	738030000
4 Slide bar set For wire feeder DIX WD 300 with spool holder DIX WDS 200	DIX WDG 200	738035200
5 Slide bar set For wire feeder DIX WD 300 with spool holder DIX WDS 300	DIX WDG 300	738035300
6 Connection set For Connectiong DIX WD 300 with DIX WDS 200/300	DIX WDV 100	738010000
7 Water set For liquid cooled model	DIX WDW 100	738040000
8 Torch Connectiong set Only ready-installed available		
Cold wire set	DIX WDA 300	738050009
Hot wire set	DIX WDA 301	738050011
MAG set	DIX WDA 302	738050012
TIG set not shown	DIX WDA 303	738050013
Gas solenoid valve set Not shown, for cold wire-, hot wire- and TIG set	DIX WDX 100	719280001

\* Each wire diameter requires his own drive roll.  
Part names and part numbers of the drive rolls are given in the spare parts and wear parts lists.

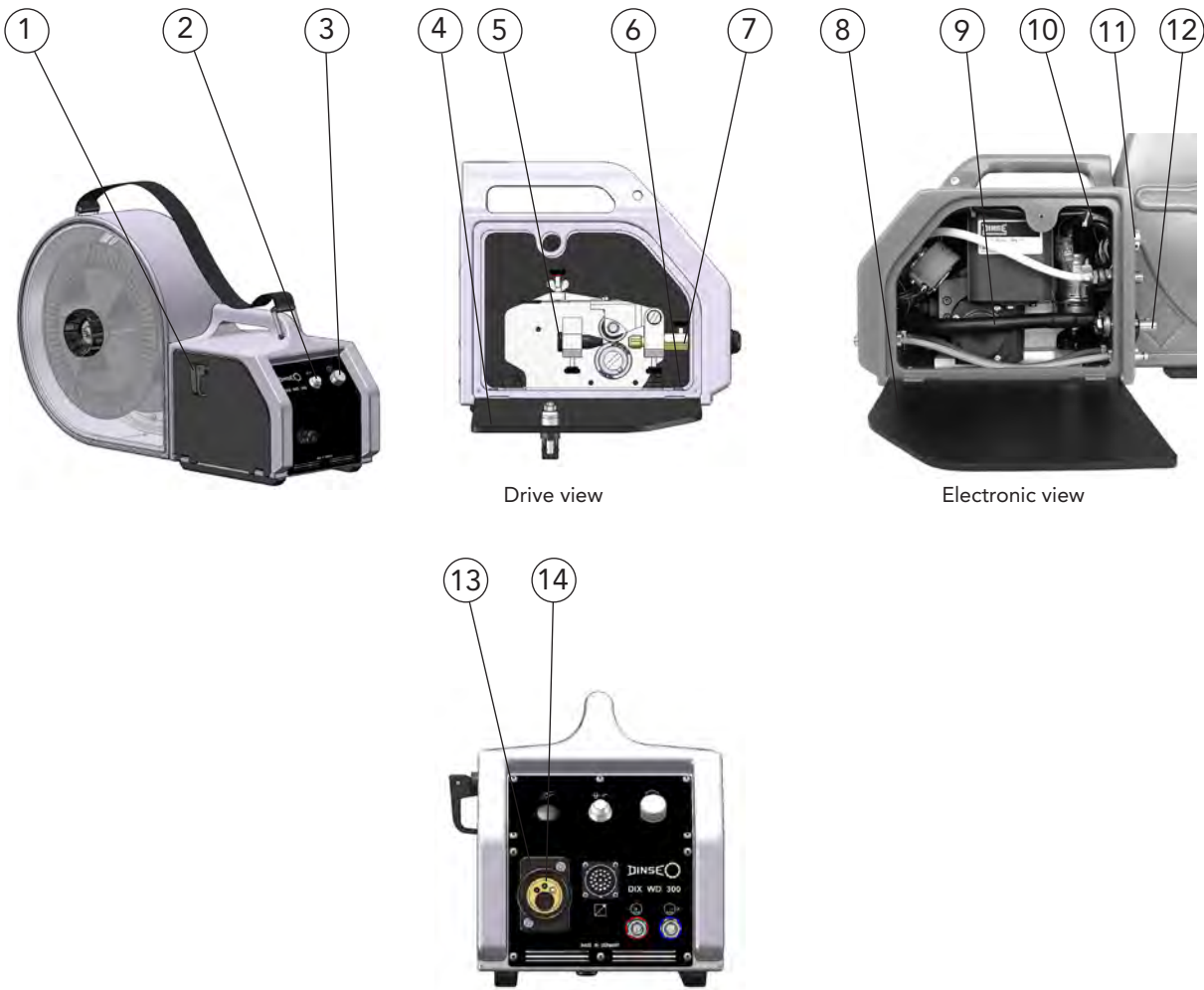
► All sets available ready-installed on request (specify when placing an order).  
Other fittings on request.

Hint:  
Liners, capillary liners and service tools you will find in Chapter Wear parts respectively Tools and Accessories.





## Wire feeder WD 300/PI TIG



Description	Part name	Part number
1 Cover plate catch	DIX WD-13-400	739130000
2 Sealing cap	DIX DV-32 DK	719329000
3 Potentiometer fixing	DIX DV-WS-005/2	71814000510
4 Cover (drive)	DIX WD-11-A	739110000
5 Intake spout	DIX 36-2 WDET	629363005
6 Screw, 2 pcs.	DIX DV-17-4000	719174000
7 Connecting adapter	DIX 36-2 DV	629363000
Clamping sleeve Not shown	DIX 27-2 MAP	629270041
Clamping nut Not shown	DIX 28-2 SA	629280040
8 Cover (electronic)	DIX WD-11-E	739110100
9 Power cable	DIX DV-25-1410/095	719254141095
10 Solenoid valve	DIX GMV-42	719280042
11 Mounting plug	DIX DV-37-23/BURNDY	719377023
12 Plug	DIX SE 50/70	122300050
13 Front plate	DIX FP 977	659060977
14 SA - socket	DIX SAB 3-002 WIG	650103002



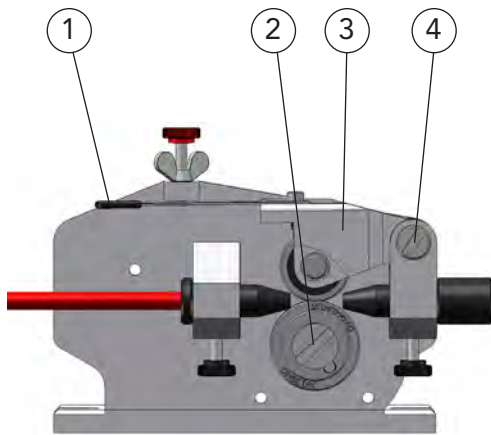
## Spare parts and wear parts

### Wire feeder WD 300/PI TIG Drive rolls, Drive, Wiring set

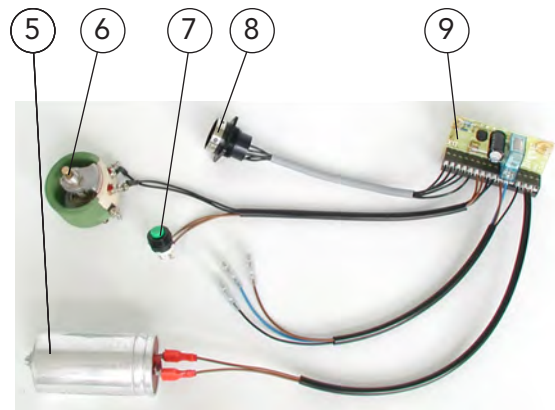


Description	Dimension	Part name	Part number
Type of application for steel wire electrodes:			
Drive roll	Wire ø 0.8 mm	DIX DV-04-08/08 T	719042080
Drive roll	Wire ø 1.0 mm	DIX DV-04-10/10 T	719042100
Drive roll	Wire ø 1.2 mm	DIX DV-04-12/12 T	719042120
Drive roll	Wire ø 1.6 mm	DIX DV-04-16/16 T	719042160
Type of application for aluminum alloy wire electrodes:			
Drive roll	Wire ø 0.8 mm	DIX DV-04-08/08 A	719041080
Drive roll	Wire ø 1.0 mm	DIX DV-04-10/10 A	719041100
Drive roll	Wire ø 1.2 mm	DIX DV-04-12/12 A	719041120
Drive roll	Wire ø 1.6 mm	DIX DV-04-16/16 A	719041160

► Each wire diameter requires his own drive roll. Other diameters on request.



2 rolls drive



Wiring set

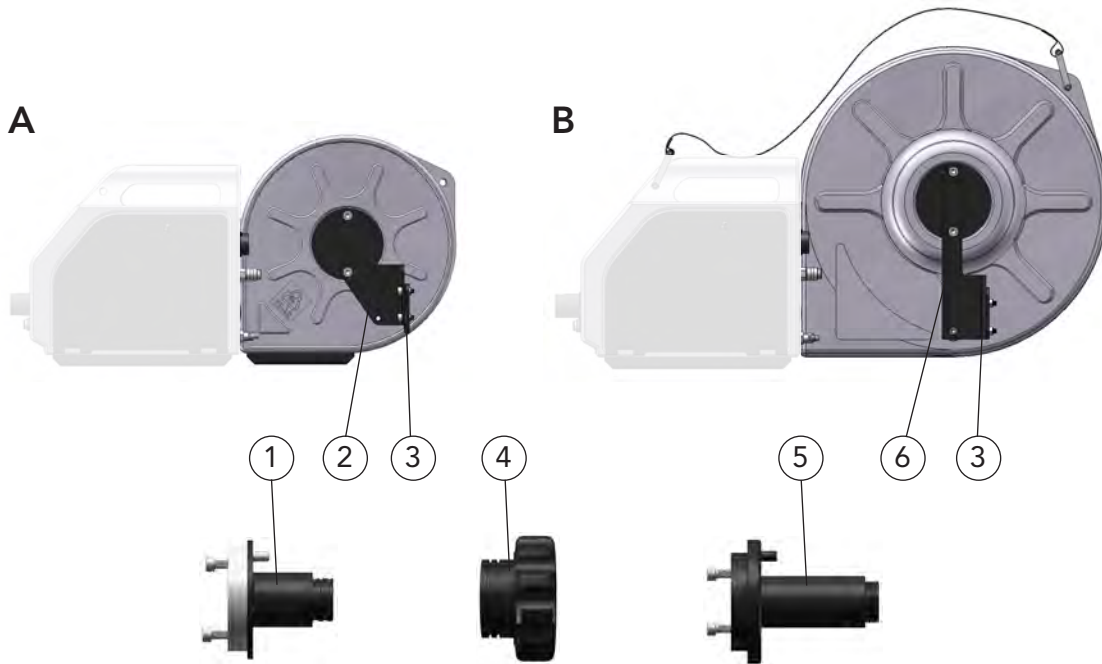
Description	Part name	Part number
1 Spring plate	DIX DV-06 F	71906030013
2 Holding screw For drive roll	DIX DV-05 S	719050400
3 Pressure shackle, compl.	DIX DV-06 P	719060300
4 Steering pivot pin	DIX DV-07 S	719070400
5 Capacitor	DIX DV-KS 02	718130002
6 Resistor	DIX DV-WS-002/1	71814000211
7 Tipping switch	DIX DV-32	719320000
8 Mounting plug	DIX DV-37-23/BURNDY	719377023
9 Logic board	DIX ESLO 0202	719430202



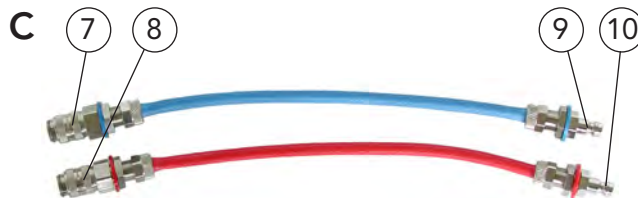
# Spare parts and wear parts



## Wire feeder WD 300/PI TIG Spool holder, Water set, Carry strap set



Description	Part name	Part number
A Spool holder, for 5 kg spools	DIX WDS 200	730520000
B Spool holder, for 15 kg spools	DIX WDS 300	730530000
1 Spool mandrel (WDS 200)	DIX WDS-19-200	739190020
2 ZS - support	DIX WDS-23-120	739230120
3 ZS - supporting plate	DIX WDS-23-200	739230200
4 Spool nut For DIX WDS 200(300)	DIX DV-24-2400	719242400
5 Spool mandrel (WDS 300)	DIX WDS-19-300	739190030
6 ZS - support	DIX WDS-23-130	739230130
Spool holder cover Transparent, DIX WDS 200, Not shown	DIX WDS-11-200	739115200
Spool holder cover Transparent, DIX WDS 300, Not shown	DIX WDS-11-300	739115300



Description	Part name	Part number
C Water set	DIX WDW 100	738040000
7 Plug coupling, blue	DIX WD-30 BLAU	739300001
8 Plug coupling, red	DIX WD-30 ROT	739300002
9 Water plug, blue	DIX WD-26 BLAU	739260001
10 Water plug, red	DIX WD-26 ROT	739260002

System components

5



# ECO.flow pressure regulator

## For robotic and automatic torch sets MIG/MAG, WIG



Example figure



Example figure



Example figure

Description	In	Out	max. pressure / flow rate	Part name	Part number
<b>Cylinder pressure reducer</b>					
1 Pressure regulator**	W21,8x1/14"	G1/4"	200 bar / 0-20 l/min	DIX DRV-100	628080100
Pressure regulator**	W21,8x1/14"	G3/8"	200 bar / 0-34 l/min	DIX DRV-101	628080101
Pressure regulator*, lockable	W21,8x1/14"	G1/4"	200 bar / 0-20 l/min	DIX DRV-102	628080102
Pressure regulator*, lockable	W21,8x1/14"	G1/4"	200 bar / 0-34 l/min	DIX DRV-103	628080103
Pressure regulator*, with two flowmeters	W21,8x1/14"	G1/4"	200 bar / 0-20/34l/min	DIX DRV-104	628080104
Pressure regulator*	W30x2	G1/4"	300 bar / 0-20 l/min	DIX DRV-105	628080105
Pressure regulator*	W30x2	G1/4"	300 bar / 0-34 l/min	DIX DRV-106	628080106
Pressure regulator*, lockable	W30x2	G1/4"	300 bar / 0-20 l/min	DIX DRV-107	628080107
Pressure regulator*, lockable	W30x2	G1/4"	300 bar / 0-34 l/min	DIX DRV-108	628080108
<b>Sampling points pressure regulator</b>					
2 Pressure regulator*	G3/8"	G1/4"	10 bar / 0-20 l/min	DIX DRV-200	628080200
Pressure regulator*	G3/8"	G1/4"	10 bar / 0-34 l/min	DIX DRV-201	628080201
Pressure regulator*, lockable	G3/8"	G1/4"	10 bar / 0-20 l/min	DIX DRV-202	628080202
Pressure regulator*, lockable	G3/8"	G1/4"	10 bar / 0-34 l/min	DIX DRV-203	628080203
Pressure regulator*, lockable	G3/8"	G3/8"	10 bar / 0-34 l/min	DIX DRV-204	628080204
<b>Built-in pressure regulator</b>					
3 Pressure regulator*, without handwheel	G1/4"	G1/4"	10 bar	DIX DRV-301	628080301
Pressure regulator*, with handwheel	G1/4"	G1/4"	10 bar	DIX DRV-302	628080302

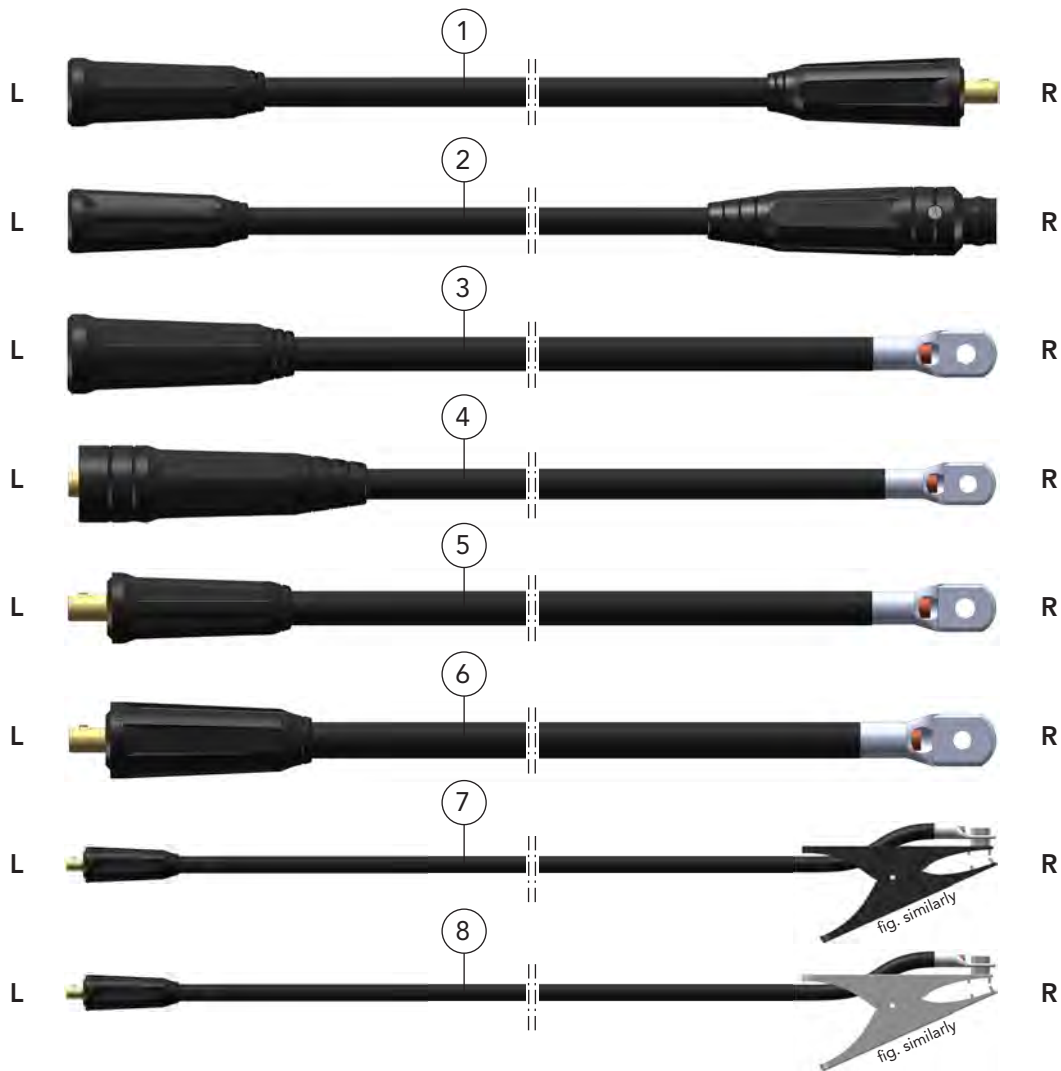
\* Ar/mix

\*\* Ar/mix alternatively CO<sup>2</sup>



## Ground cables

DIX BKK / SKK, DIX BKS / BKK, DIX BKK / KS, DIX SKS / KS  
DIX GL-x / 70, DIX GL-x / 95, DIX GL.M



Description	Length x cross section	Connection L / R	Part name	Part number
1 Ground cable	9,0 m x 70 mm <sup>2</sup>	BKK 70 / SKK 70	DIX BKK / SKK 70-9	629900294
Ground cable	11,5 m x 70 mm <sup>2</sup>	BKK 70 / SKK 70	DIX BKK / SKK 70-11,5	629900295
Ground cable	15,0 m x 70 mm <sup>2</sup>	BKK 70 / SKK 70	DIX BKK / SKK 70-15	629900300
2 Ground cable	15,0 m x 70 mm <sup>2</sup>	BKK 70 / BKS 95-54*	DIX BKS / BKK 70-15 /54	629900341
3 Ground cable	13,0 m x 70 mm <sup>2</sup>	BKK 70 / Cable lug M10	DIX BKK / KS 10mm-13	629900342
4 Ground cable	1,5 m x 70 mm <sup>2</sup>	SKS 95 / Cable lug M10	DIX SKS / KS 10mm-1,5	629900343
5 Ground cable	1,5 m x 70 mm <sup>2</sup>	SK 70 / Cable lug M10	DIX GL-1,5-70	7410087141
Ground cable	5,0 m x 70 mm <sup>2</sup>	SK 70 / Cable lug M10	DIX GL-5/70	7410087005
Ground cable	10,0 m x 70 mm <sup>2</sup>	SK 70 / Cable lug M10	DIX GL-10/70	7410087010
Ground cable	13,0 m x 70 mm <sup>2</sup>	SK 70 / Cable lug M10	DIX GL-13/70	7410087145
Ground cable	18,0 m x 70 mm <sup>2</sup>	SK 70 / Cable lug M10	DIX GL-18/70	7410087140
6 Ground cable	5,0 m x 95 mm <sup>2</sup>	SKK 95 / Cable lug M10	DIX GL-5/95	7410089505
Ground cable	10,0 m x 95 mm <sup>2</sup>	SKK 95 / Cable lug M10	DIX GL-10/95	7410089510
Ground cable	25,0 m x 95 mm <sup>2</sup>	SKK 95 / Cable lug M10	DIX GL-25/95	7410089525
7 Ground cable	5,0 m x 95 mm <sup>2</sup>	SKK 95 / Ground terminal	DIX GL-5/95/1	7410189505
8 Ground cable	4,0 m x 16 mm <sup>2</sup>	SKM 25 / Metal sheet pliers 200A	DIX GL.M 16-4	7420070000
Ground cable	4,0 m x 25 mm <sup>2</sup>	SK 25 / Metal sheet pliers 300A	DIX GL.M 25-4	7420070001
Ground cable	5,0 m x 35 mm <sup>2</sup>	SK 50 / Metal sheet pliers 400A	DIX GL.M 35-5	7420070002
Ground cable	5,0m x 50 mm <sup>2</sup>	SK 50 / Metal sheet pliers 400A	DIX GL.M 50-5	7420070003
Ground cable	5,0 m x 70 mm <sup>2</sup>	SK 70 / Metal sheet pliers 500A	DIX GL.M 70-5	7420070004
Ground cable	5,0 m x 95 mm <sup>2</sup>	SKK 95 / Metal sheet pliers 600A	DIX GL.M 95-5	7420070005

\* The socket BKS 95-54 is water proof according class IP 54.



# Tool storage system DIX WAS 100 For robotic applications MIG/MAG, TIG

Technical data:	
Tool storage system	WAS 100
Fixture mandrel	WAS KD 3100
Tool holder	WAS WT 3200
Storage station	WAS WS 3300
SAS - flange	WAS FL 100
Adapterflansch (bore pattern dependent of robot type)	61-3-2xxx
Dimension (D/H):	ø 100 / 4.5 mm



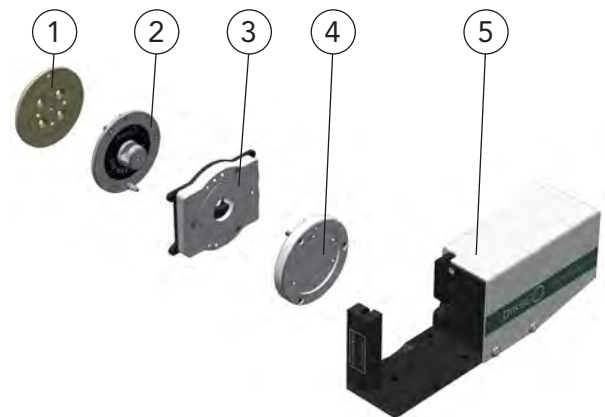
Storage station with fixture mandrel, tool holder and SAS - flange



Torch system with fixture mandrel, tool holder and SAS - flange mounted



Torch system in the storage station uncoupled from robot



### Properties

- ▶ High flexibility and guaranteed system availability through quick tool change with storage station
- ▶ Tool position can be reproduced on the robot through positive interlocking
- ▶ Pneumatic clamping system independent of robot
- ▶ Monitoring the tool storage via reed contact
- ▶ Auto-clamping by springs during power failure
- ▶ Options: Tool identification in the storage station

### Application

- ▶ For all common tools
- ▶ Replacement of wearing parts without stopping production
- ▶ For changing production processes

Description	Part name	Part number
1 Adapter flange, depends on the robot type, the appropriate adapter flange you will find from page 428.	DIX 61-3-20_ _	6831120_ _ _ _
2 Fixture mandrel	DIX WAS KD 3100	683403100
3 Tool holder	DIX WAS WT 3200	683403200
4 SAS - flange	DIX WAS FL 100	683403310
5 Storage station	DIX WAS WS 3300	683403300

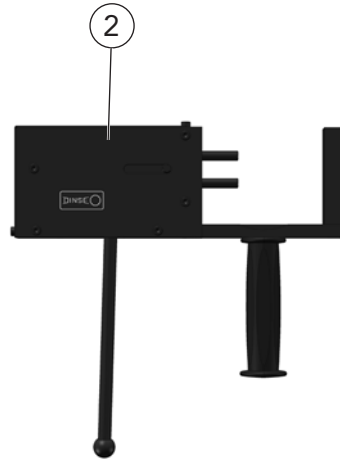
▶ Variants deviating of the standard fittings on request.



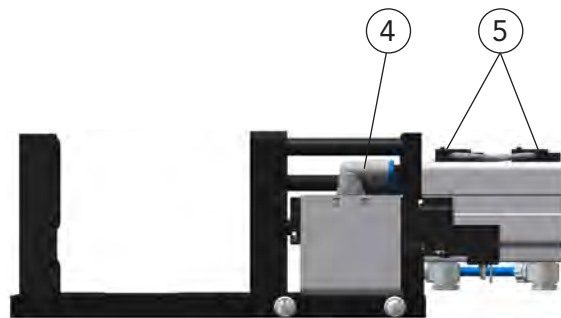
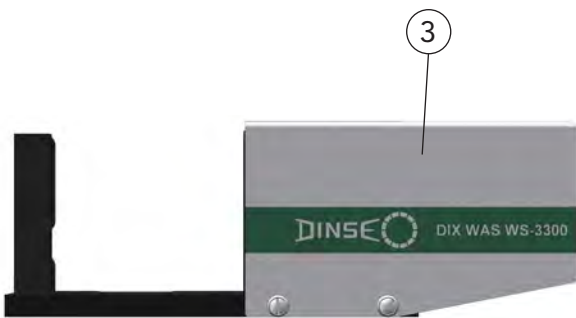
# Tool storage system DIX WAS 100 For robotic applications MIG/MAG, TIG



## Accessories, Spare parts and wear parts



Description	Part name	Part number
Accessories		
1 Proximity switch For storage station	DIX WAS WS 3307	683403307
2 Manual tool changer	DIX WAS HW 3400	683403400



Description	Part name	Part number
Spare parts and wear parts		
3 Cap	DIX WAS WS 3306	683403306
4 Valve	DIX WAS WS 3305	683403305
5 Reed contact 2 pcs. existing	DIX WAS WS 3304	683403304

System components

5





# Torch cleaning stations MIG/MAG

## DIX PRS 600

### For robotic applications

Technical data:	
Working pressure	6 bar
Air consumption	7 l/s
Cleaning time, max.	4 s
Operating voltage	24 VDC
Protection class	IP 23
Dimension(L/W/H)	180/260/350 mm
Weight	approx. 9.5 kg
Power consumption	2.5 VA



Torch cleaning station DIX PRS 600

#### Properties

- ▶ Robust and compact design
- ▶ Precise fixing of the gas nozzle by the clamping prism
- ▶ Fast and thorough cleaning of the gas nozzle interior of welding spatters
- ▶ Constant distribution of anti-stick agent in the gas nozzle by two spraying nozzles
- ▶ Suitable reamers for all common gas nozzles
- ▶ **Options:** Wire cutter, assembly fixture



Optional with wire cutter DIX PRA 600 and assembly fixture DIX PRF 600

#### Applications

- ▶ Perfected for DINSE robotic torch heads
- ▶ Fixing variants independent of location
- ▶ High availability of the robot through long life time of wearing parts



Options according to range of application

Robot with mounted DINSE torch head during the cleaning in the torch cleaning station





# Torch cleaning stations MIG/MAG

## DIX PRS 600

### For robotic applications



System components

5

	Description	Part name	Part number
1	Torch cleaning station With reamer	DIX PRS 600	811012001
<b>Options</b>			
2	Wire cutter Only ready-installed available	DIX PRA 600	811012006
3	Anti-stick agent, 5 litres	DIX PRM 600	811012002
4	Assembly fixture	DIX PRF 600	811012005

► The corresponding reamer you will find in the accessories list. Variants deviating of the standard fittings on request.



# Torch cleaning stations MIG/MAG

## DIX PRS 600

For robotic applications

### Accessories, Spare parts and wear parts



Pistolenkopf	Gasdüse	Kontaktspitze	AD	ID	Bestellbezeichnung	Artikelnr.
M.Flex 44XX	DIX 1-2-4015	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
M.Flex 44XX	DIX 1-2-4018	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
M.Flex 44XX	DIX 1-3-5415 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
M.Flex 44XX	DIX 1-3-5418 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
M.Flex 44XX	DIX 1-3-5421 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
M.Flex 44XX	DIX 1-3-5515 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
M.Flex 44XX	DIX 1-3-5518 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
M.Flex 44XX	DIX 1-3-5521 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
MBTZ 54XX	DIX 1-3-5413 A/AK/AKR/AR	DIX 3-2-__ S/SK/RS/SRK/SA/SAK/SAE/SKAL	13	8	DIX PRX 653 Fräser D 12 / d 9	811012053
MBTZ 54XX	DIX 1-3-5413 A/AK/AKR/AR	DIX 3-2-__ (CR-ZR)/(XX)	13	8	DIX PRX 653 Fräser D 12 / d 9	811012053
MBTZ 54XX	DIX 1-3-5413 A/AK/AKR/AR	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	13	10	DIX PRX 670 Fräser D 12,5/d 10,5	811012078
MBTZ 54XX	DIX 1-3-5415 A/AK/AKR/AR	DIX 3-2-__ S/SK/RS/SRK/SA/SAK/SAE/SKAL	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MBTZ 54XX	DIX 1-3-5415 A/AK/AKR/AR	DIX 3-2-__ (CR-ZR)/(XX)	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MBTZ 54XX	DIX 1-3-5415 A/AK/AKR/AR	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
MBTZ 54XX	DIX 1-3-5417 A	DIX 3-2-__ S/SK/RS/SRK/SA/SAK/SAE/SKAL	17	8	DIX PRX 661 Fräser D 16 / d 11	811012061
MBTZ 54XX	DIX 1-3-5417 A	DIX 3-2-__ (CR-ZR)/(XX)	17	8	DIX PRX 661 Fräser D 16 / d 11	811012061
MBTZ 54XX	DIX 1-3-5417 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	17	10	DIX PRX 661 Fräser D 16 / d 11	811012061
MBTZ 54XX	DIX 1-3-5418 A/AK/AR	DIX 3-2-__ S/SK/RS/SRK/SA/SAK/SAE/SKAL	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
MBTZ 54XX	DIX 1-3-5418 A/AK/AR	DIX 3-2-__ (CR-ZR)/(XX)	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
MBTZ 54XX	DIX 1-3-5418 A/AK/AR	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
MBTZ 54XX	DIX 1-3-5421 A	DIX 3-2-__ S/SK/RS/SRK/SA/SAK/SAE/SKAL	21	8	DIX PRX 667 Fräser D 20 / d 13	811012067
MBTZ 54XX	DIX 1-3-5421 A	DIX 3-2-__ (CR-ZR)/(XX)	21	8	DIX PRX 667 Fräser D 20 / d 13	811012067
MBTZ 54XX	DIX 1-3-5421 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
MEDD 7000	DIX 1-3-5418 A/AK/AR	DIX 3-1-70__	18	11	DIX PRX 655 Fräser D 17 / d 13	811012055
MEDD 7000	DIX 1-3-5421 A	DIX 3-1-70__	21	11	DIX PRX 667 Fräser D 20 / d 13	811012067
MET 32XX	DIX 1-3-5211 AR/AKR	DIX 3-2-__ /47,5	11	8	DIX PRX 651 Fräser D 10,5 / d 8,5	811012051
MET 32XX	DIX 1-3-5212 A/AR/AK/AKR	DIX 3-2-__ /47,5	12	8	DIX PRX 656 Fräser D 11 / d 8,5	811012056
MET 32XX	DIX 1-3-5213 AK	DIX 3-2-__ /47,5	13,5	8	DIX PRX 681 Fräser D 13 / d 9	811012081
MET 32XX	DIX 1-3-5215 A/AK/AR	DIX 3-2-__ /47,5	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MET 32XX	DIX 1-3-5216	DIX 3-2-__ /47,5	16	8	DIX PRX 659 Fräser D 15 / d 9	811012059
MET 32XX	DIX 1-3-5218 A	DIX 3-2-__ /47,5	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
MET 35X	DIX 1-3-5209 A	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	9	6	DIX PRX 650 Fräser D 8,5 / d 6,2	811012050
MET 35X	DIX 1-3-5209 A	DIX 3-1-__ (CR)/(XX)	9	6	DIX PRX 650 Fräser D 8,5 / d 6,2	811012050
MET 35X	DIX 1-3-5211 AR/AKR	DIX 3-2-__ (CR-ZR)/(XX)	11	8	DIX PRX 651 Fräser D 10,5 / d 8,5	811012051
MET 35X	DIX 1-3-5211 AR/AKR	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	11	6	DIX PRX 658 Fräser D 10,5 / d 7	811012058
MET 35X	DIX 1-3-5211 AR/AKR	DIX 3-1-__ (CR)/(XX)	11	6	DIX PRX 658 Fräser D 10,5 / d 7	811012058
MET 35X	DIX 1-3-5212 A/AR/AK/AKR	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	12	6	DIX PRX 652 Fräser D 11 / d 7	811012052
MET 35X	DIX 1-3-5212 A/AR/AK/AKR	DIX 3-1-__ (CR)/(XX)	12	6	DIX PRX 652 Fräser D 11 / d 7	811012052
MET 35X	DIX 1-3-5212 A/AR/AK/AKR	DIX 3-2-__ (CR-ZR)/(XX)	12	8	DIX PRX 656 Fräser D 11 / d 8,5	811012056
MET 35X	DIX 1-3-5213 AK	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	13,5	6	DIX PRX 669 Fräser D 13 / d 7	811012069
MET 35X	DIX 1-3-5213 AK	DIX 3-1-__ (CR)/(XX)	13,5	6	DIX PRX 669 Fräser D 13 / d 7	811012069
MET 35X	DIX 1-3-5213 AK	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	13,5	10	DIX PRX 670 Fräser D 12,5/d 10,5	811012078
MET 35X	DIX 1-3-5213 AK	DIX 3-2-__ (CR-ZR)/(XX)	13,5	8	DIX PRX 681 Fräser D 13 / d 9	811012081



# Torch cleaning stations MIG/MAG

## DIX PRS 600

### For robotic applications



## Accessories, Spare parts and wear parts

Pistolenkopf	Gasdüse	Kontaktspitze	AD	ID	Bestellbezeichnung	Artikelnr.
MET 35X	DIX 1-3-5215 A/AK/AR	DIX 3-1-___ S/SA/SK/SR/SRK/SAE/SAK	15	6	DIX PRX 654 Fräser D 14 / d 9	811012054
MET 35X	DIX 1-3-5215 A/AK/AR	DIX 3-1-___ (CR)/(XX)	15	6	DIX PRX 654 Fräser D 14 / d 9	811012054
MET 35X	DIX 1-3-5215 A/AK/AR	DIX 3-2-___ (CR-ZR)/(XX)	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MET 35X	DIX 1-3-5215 A/AK/AR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
MET 35X	DIX 1-3-5216	DIX 3-1-___ S/SA/SK/SR/SRK/SAE/SAK	16	6	DIX PRX 659 Fräser D 15 / d 9	811012059
MET 35X	DIX 1-3-5216	DIX 3-1-___ (CR)/(XX)	16	6	DIX PRX 659 Fräser D 15 / d 9	811012059
MET 35X	DIX 1-3-5216	DIX 3-2-___ (CR-ZR)/(XX)	16	8	DIX PRX 659 Fräser D 15 / d 9	811012059
MET 35X	DIX 1-3-5216	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	16	10	DIX PRX 665 Fräser D 15 / d 11	811012065
MET 35X	DIX 1-3-5218 A	DIX 3-1-___ S/SA/SK/SR/SRK/SAE/SAK	18	6	DIX PRX 662 Fräser D 17 / d 11	811012062
MET 35X	DIX 1-3-5218 A	DIX 3-1-___ (CR)/(XX)	18	6	DIX PRX 662 Fräser D 17 / d 11	811012062
MET 35X	DIX 1-3-5218 A	DIX 3-2-___ (CR-ZR)/(XX)	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
MET 35X	DIX 1-3-5218 A	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
MET 39X	DIX 1-3-5911 A/AK/AKSO/SO	DIX 3-2-___ (CR-ZR)/(XX)	11	8	DIX PRX 651 Fräser D 10,5 / d 8,5	811012051
MET 39X	DIX 1-3-5913 AR	DIX 3-2-___ (CR-ZR)/(XX)	13,5	8	DIX PRX 681 Fräser D 13 / d 9	811012081
MET 39X	DIX 1-3-5914 _/A	DIX 3-2-___ (CR-ZR)/(XX)	14	8	DIX PRX 681 Fräser D 13 / d 9	811012081
MET 39X	DIX 1-3-5915 A/ASO/AK	DIX 3-2-___ (CR-ZR)/(XX)	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MET 39X	DIX 1-3-5918 A/AL	DIX 3-2-___ (CR-ZR)/(XX)	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
MET 39XX	DIX 1-3-5911 A/AK/AKSO/SO	DIX 3-2-___/46	11	8	DIX PRX 651 Fräser D 10,5 / d 8,5	811012051
MET 39XX	DIX 1-3-5913 AR	DIX 3-2-___/46	13,5	8	DIX PRX 681 Fräser D 13 / d 9	811012081
MET 39XX	DIX 1-3-5914 _/A	DIX 3-2-___/46	14	8	DIX PRX 681 Fräser D 13 / d 9	811012081
MET 39XX	DIX 1-3-5915 A/ASO/AK	DIX 3-2-___/46	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MET 39XX	DIX 1-3-5918 A/AL	DIX 3-2-___/46	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 54X (L)(XL)	DIX 1-3-5413 A/AK/AKR/AR	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	13	8	DIX PRX 653 Fräser D 12 / d 9	811012053
METZ 54X (L)(XL)	DIX 1-3-5413 A/AK/AKR/AR	DIX 3-2-___ (CR-ZR)/(XX)	13	8	DIX PRX 653 Fräser D 12 / d 9	811012053
METZ 54X (L)(XL)	DIX 1-3-5413 A/AK/AKR/AR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	13	10	DIX PRX 670 Fräser D 12,5 / d 10,5	811012078
METZ 54X (L)(XL)	DIX 1-3-5415 A/AK/AKR/AR/ARZ	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
METZ 54X (L)(XL)	DIX 1-3-5415 A/AK/AKR/AR/ARZ	DIX 3-2-___ (CR-ZR)/(XX)	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
METZ 54X (L)(XL)	DIX 1-3-5415 A/AK/AKR/AR/ARZ	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
METZ 54X (L)(XL)	DIX 1-3-5417 A	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	17	8	DIX PRX 661 Fräser D 16 / d 11	811012061
METZ 54X (L)(XL)	DIX 1-3-5417 A	DIX 3-2-___ (CR-ZR)/(XX)	17	8	DIX PRX 661 Fräser D 16 / d 11	811012061
METZ 54X (L)(XL)	DIX 1-3-5417 A	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	17	10	DIX PRX 661 Fräser D 16 / d 11	811012061
METZ 54X (L)(XL)	DIX 1-3-5418 A/AK/AR	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 54X (L)(XL)	DIX 1-3-5418 A/AK/AR	DIX 3-2-___ (CR-ZR)/(XX)	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 54X (L)(XL)	DIX 1-3-5418 A/AK/AR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 54X (L)(XL)	DIX 1-3-5421 A	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	21	8	DIX PRX 667 Fräser D 20 / d 13	811012067
METZ 54X (L)(XL)	DIX 1-3-5421 A	DIX 3-2-___ (CR-ZR)/(XX)	21	8	DIX PRX 667 Fräser D 20 / d 13	811012067
METZ 54X (L)(XL)	DIX 1-3-5421 A	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
METZ 56X (L)(XL)	DIX 1-3-5415 A/AK/AKR/AR/ARZ	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
METZ 56X (L)(XL)	DIX 1-3-5415 A/AK/AKR/AR/ARZ	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
METZ 56X (L)(XL)	DIX 1-3-5417 A	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	17	8	DIX PRX 661 Fräser D 16 / d 11	811012061
METZ 56X (L)(XL)	DIX 1-3-5417 A	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	17	10	DIX PRX 661 Fräser D 16 / d 11	811012061
METZ 56X (L)(XL)	DIX 1-3-5418 A/AK/AR	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 56X (L)(XL)	DIX 1-3-5418 A/AK/AR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 56X (L)(XL)	DIX 1-3-5421 A	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	21	8	DIX PRX 667 Fräser D 20 / d 13	811012067
METZ 56X (L)(XL)	DIX 1-3-5421 A	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
METZ 56X (L)(XL)	DIX KMG115TR	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	13	8	DIX PRX 653 Fräser D 12 / d 9	811012053
METZ 56X (L)(XL)	DIX KMG115TR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	13	10	DIX PRX 670 Fräser D 12,5 / d 10,5	811012078
METZ 56X (L)(XL)	DIX KMG118TR	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 56X (L)(XL)	DIX KMG118TR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 56X (L)(XL)	DIX KMG121TR	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	21	8	DIX PRX 667 Fräser D 20 / d 13	811012067
METZ 56X (L)(XL)	DIX KMG121TR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
METZ 59X (L)(XL)	DIX 1-3-5911 A/AK/AKSO/SO	DIX 3-2-___ (CR-ZR)/(XX)	11	8	DIX PRX 651 Fräser D 10,5 / d 8,5	811012051
METZ 59X (L)(XL)	DIX 1-3-5913 AR	DIX 3-2-___ (CR-ZR)/(XX)	13,5	8	DIX PRX 681 Fräser D 13 / d 9	811012081

System components

5



# Torch cleaning stations MIG/MAG

## DIX PRS 600

For robotic applications

### Accessories, Spare parts and wear parts

Pistolenkopf	Gasdüse	Kontaktspitze	AD	ID	Bestellbezeichnung	Artikelnr.
METZ 59X (L)(XL)	DIX 1-3-5914 _/A	DIX 3-2-__ (CR-ZR)/(XX)	14	8	DIX PRX 681 Fräser D 13 / d 9	811012081
METZ 59X (L)(XL)	DIX 1-3-5915 A/ASO/AK	DIX 3-2-__ (CR-ZR)/(XX)	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
METZ 59X (L)(XL)	DIX 1-3-5918 A/AL	DIX 3-2-__ (CR-ZR)/(XX)	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 64XX (L)(XL)	DIX 1-3-5413 A/AK/AKR/AR	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	13	10	DIX PRX 670 Fräser D 12,5 / d 10,5	811012078
METZ 64XX (L)(XL)	DIX 1-3-5415 A/AK/AKR/ARZ	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
METZ 64XX (L)(XL)	DIX 1-3-5417 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	17	10	DIX PRX 661 Fräser D 16 / d 11	811012061
METZ 64XX (L)(XL)	DIX 1-3-5418 A/AK/AR	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 64XX (L)(XL)	DIX 1-3-5421 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
METZ 52X (L)(XL)	DIX 1-3-5209 A	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	9	6	DIX PRX 650 Fräser D 8,5 / d 6,2	811012050
METZ 52X (L)(XL)	DIX 1-3-5209 A	DIX 3-1-__ (CR)/(XX)	9	6	DIX PRX 650 Fräser D 8,5 / d 6,2	811012050
METZ 52X (L)(XL)	DIX 1-3-5211 AR/AKR	DIX 3-2-__ (CR-ZR)/(XX)	11	8	DIX PRX 651 Fräser D 10,5 / d 8,5	811012051
METZ 52X (L)(XL)	DIX 1-3-5211 AR/AKR	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	11	6	DIX PRX 658 Fräser D 10,5 / d 7	811012058
METZ 52X (L)(XL)	DIX 1-3-5211 AR/AKR	DIX 3-1-__ (CR)/(XX)	11	6	DIX PRX 658 Fräser D 10,5 / d 7	811012058
METZ 52X (L)(XL)	DIX 1-3-5212 A/AR/AK/AKR	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	12	6	DIX PRX 652 Fräser D 11 / d 7	811012052
METZ 52X (L)(XL)	DIX 1-3-5212 A/AR/AK/AKR	DIX 3-1-__ (CR)/(XX)	12	6	DIX PRX 652 Fräser D 11 / d 7	811012052
METZ 52X (L)(XL)	DIX 1-3-5212 A/AR/AK/AKR	DIX 3-2-__ (CR-ZR)/(XX)	12	8	DIX PRX 656 Fräser D 11 / d 8,5	811012056
METZ 52X (L)(XL)	DIX 1-3-5213 AK	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	13,5	6	DIX PRX 669 Fräser D 13 / d 7	811012069
METZ 52X (L)(XL)	DIX 1-3-5213 AK	DIX 3-1-__ (CR)/(XX)	13,5	6	DIX PRX 669 Fräser D 13 / d 7	811012069
METZ 52X (L)(XL)	DIX 1-3-5213 AK	DIX 3-2-__ (CR-ZR)/(XX)	13,5	8	DIX PRX 681 Fräser D 13 / d 9	811012081
METZ 52X (L)(XL)	DIX 1-3-5215 A/AK/AR	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	15	6	DIX PRX 654 Fräser D 14 / d 9	811012054
METZ 52X (L)(XL)	DIX 1-3-5215 A/AK/AR	DIX 3-1-__ (CR)/(XX)	15	6	DIX PRX 654 Fräser D 14 / d 9	811012054
METZ 52X (L)(XL)	DIX 1-3-5215 A/AK/AR	DIX 3-2-__ (CR-ZR)/(XX)	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
METZ 52X (L)(XL)	DIX 1-3-5216	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	16	6	DIX PRX 659 Fräser D 15 / d 9	811012059
METZ 52X (L)(XL)	DIX 1-3-5216	DIX 3-1-__ (CR)/(XX)	16	6	DIX PRX 659 Fräser D 15 / d 9	811012059
METZ 52X (L)(XL)	DIX 1-3-5216	DIX 3-2-__ (CR-ZR)/(XX)	16	8	DIX PRX 659 Fräser D 15 / d 9	811012059
METZ 52X (L)(XL)	DIX 1-3-5218 A	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	18	6	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 52X (L)(XL)	DIX 1-3-5218 A	DIX 3-1-__ (CR)/(XX)	18	6	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 52X (L)(XL)	DIX 1-3-5218 A	DIX 3-2-__ (CR-ZR)/(XX)	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 57X (L)(XL)	DIX 1-3-5715 A/AK	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
METZ 57X (L)(XL)	DIX 1-3-5715 SAD	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
METZ 57X (L)(XL)	DIX 1-3-5718 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 57X (L)(XL)	DIX 1-3-5718 SAD	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
METZ 57X (L)(XL)	DIX 1-3-5721 A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
METZ 57X (L)(XL)	DIX 1-3-5721 SAD	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
METZ 57X (L)(XL)	DIX 1-3-5721 SAD OVAL	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	13	10	DIX PRX 670 Fräser D 12,5 / d 10,5	811012078
METZ 58XX (L)(XL)	DIX 1-3-5811 A	DIX 3-1-__ (CR)/(XX)	11	6	DIX PRX 658 Fräser D 10,5 / d 7	811012058
METZ 58XX (L)(XL)	DIX 1-3-5815 A	DIX 3-1-__ (CR)/(XX)	15	6	DIX PRX 654 Fräser D 14 / d 9	811012054
MFTZ 59XX	DIX 1-3-5911 A/AK/AKSO/SO	DIX 3-2-__ (CR-ZR)/(XX)	11	8	DIX PRX 651 Fräser D 10,5 / d 8,5	811012051
MFTZ 59XX	DIX 1-3-5913 AR	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	13,5	10	DIX PRX 670 Fräser D 12,5 / d 10,5	811012078
MFTZ 59XX	DIX 1-3-5913 AR	DIX 3-2-__ (CR-ZR)/(XX)	13,5	8	DIX PRX 681 Fräser D 13 / d 9	811012081
MFTZ 59XX	DIX 1-3-5914 _/A	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	14	10	DIX PRX 670 Fräser D 12,5 / d 10,5	811012078
MFTZ 59XX	DIX 1-3-5914 _/A	DIX 3-2-__ (CR-ZR)/(XX)	14	8	DIX PRX 681 Fräser D 13 / d 9	811012081
MFTZ 59XX	DIX 1-3-5915 A/ASO/AK	DIX 3-2-__ (CR-ZR)/(XX)	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MFTZ 59XX	DIX 1-3-5915 A/ASO/AK	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
MFTZ 59XX	DIX 1-3-5918 A/AL	DIX 3-2-__ (CR-ZR)/(XX)	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
MFTZ 59XX	DIX 1-3-5918 A/AL	DIX 3-2-__ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
MFTZ 52X	DIX 1-3-5209 A	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	9	6	DIX PRX 650 Fräser D 8,5 / d 6,2	811012050
MFTZ 52X	DIX 1-3-5209 A	DIX 3-1-__ (CR)/(XX)	9	6	DIX PRX 650 Fräser D 8,5 / d 6,2	811012050
MFTZ 52X	DIX 1-3-5211 AR/AKR	DIX 3-2-__ (CR-ZR)/(XX)	11	8	DIX PRX 651 Fräser D 10,5 / d 8,5	811012051
MFTZ 52X	DIX 1-3-5211 AR/AKR	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	11	6	DIX PRX 658 Fräser D 10,5 / d 7	811012058
MFTZ 52X	DIX 1-3-5211 AR/AKR	DIX 3-1-__ (CR)/(XX)	11	6	DIX PRX 658 Fräser D 10,5 / d 7	811012058
MFTZ 52X	DIX 1-3-5212 A/AR/AK/AKR	DIX 3-1-__ S/SA/SK/SR/SRK/SAE/SAK	12	6	DIX PRX 652 Fräser D 11 / d 7	811012052
MFTZ 52X	DIX 1-3-5212 A/AR/AK/AKR	DIX 3-1-__ (CR)/(XX)	12	6	DIX PRX 652 Fräser D 11 / d 7	811012052



# Torch cleaning stations MIG/MAG

## DIX PRS 600

### For robotic applications



## Accessories, Spare parts and wear parts

Pistolenkopf	Gasdüse	Kontaktspitze	AD	ID	Bestellbezeichnung	Artikelnr.
MFTZ 52X	DIX 1-3-5212 A/AR/AK/AKR	DIX 3-2-___ (CR-ZR)/(XX)	12	8	DIX PRX 656 Fräser D 11 / d 8,5	811012056
MFTZ 52X	DIX 1-3-5213 AK	DIX 3-1-___ S/SA/SK/SR/SRK/SAE/SAK	13,5	6	DIX PRX 669 Fräser D 13 / d 7	811012069
MFTZ 52X	DIX 1-3-5213 AK	DIX 3-1-___ (CR)/(XX)	13,5	6	DIX PRX 669 Fräser D 13 / d 7	811012069
MFTZ 52X	DIX 1-3-5213 AK	DIX 3-2-___ (CR-ZR)/(XX)	13,5	8	DIX PRX 681 Fräser D 13 / d 9	811012081
MFTZ 52X	DIX 1-3-5215 A/AK/AR	DIX 3-1-___ S/SA/SK/SR/SRK/SAE/SAK	15	6	DIX PRX 654 Fräser D 14 / d 9	811012054
MFTZ 52X	DIX 1-3-5215 A/AK/AR	DIX 3-1-___ (CR)/(XX)	15	6	DIX PRX 654 Fräser D 14 / d 9	811012054
MFTZ 52X	DIX 1-3-5215 A/AK/AR	DIX 3-2-___ (CR-ZR)/(XX)	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MFTZ 52X	DIX 1-3-5216	DIX 3-1-___ S/SA/SK/SR/SRK/SAE/SAK	16	6	DIX PRX 659 Fräser D 15 / d 9	811012059
MFTZ 52X	DIX 1-3-5216	DIX 3-1-___ (CR)/(XX)	16	6	DIX PRX 659 Fräser D 15 / d 9	811012059
MFTZ 52X	DIX 1-3-5216	DIX 3-2-___ (CR-ZR)/(XX)	16	8	DIX PRX 659 Fräser D 15 / d 9	811012059
MFTZ 52X	DIX 1-3-5218 A	DIX 3-1-___ S/SA/SK/SR/SRK/SAE/SAK	18	6	DIX PRX 662 Fräser D 17 / d 11	811012062
MFTZ 52X	DIX 1-3-5218 A	DIX 3-1-___ (CR)/(XX)	18	6	DIX PRX 662 Fräser D 17 / d 11	811012062
MFTZ 52X	DIX 1-3-5218 A	DIX 3-2-___ (CR-ZR)/(XX)	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
MFTZ 54XX	DIX 1-3-5413 A/AK/AKR/AR	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	13	8	DIX PRX 653 Fräser D 12 / d 9	811012053
MFTZ 54XX	DIX 1-3-5413 A/AK/AKR/AR	DIX 3-2-___ (CR-ZR)/(XX)	13	8	DIX PRX 653 Fräser D 12 / d 9	811012053
MFTZ 54XX	DIX 1-3-5413 A/AK/AKR/AR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	13	10	DIX PRX 670 Fräser D 12,5/d 10,5	811012078
MFTZ 54XX	DIX 1-3-5415 A/AK/AKR/AR/ARZ	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MFTZ 54XX	DIX 1-3-5415 A/AK/AKR/AR/ARZ	DIX 3-2-___ (CR-ZR)/(XX)	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MFTZ 54XX	DIX 1-3-5415 A/AK/AKR/AR/ARZ	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
MFTZ 54XX	DIX 1-3-5417 A	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	17	8	DIX PRX 661 Fräser D 16 / d 11	811012061
MFTZ 54XX	DIX 1-3-5417 A	DIX 3-2-___ (CR-ZR)/(XX)	17	8	DIX PRX 661 Fräser D 16 / d 11	811012061
MFTZ 54XX	DIX 1-3-5417 A	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	17	10	DIX PRX 661 Fräser D 16 / d 11	811012061
MFTZ 54XX	DIX 1-3-5418 A/AK/AR	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
MFTZ 54XX	DIX 1-3-5418 A/AK/AR	DIX 3-2-___ (CR-ZR)/(XX)	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
MFTZ 54XX	DIX 1-3-5418 A/AK/AR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
MFTZ 54XX	DIX 1-3-5421 A	DIX 3-2-___ S/SK/RS/SRK/SA/SAK/SAE/SKAL	21	8	DIX PRX 667 Fräser D 20 / d 13	811012067
MFTZ 54XX	DIX 1-3-5421 A	DIX 3-2-___ (CR-ZR)/(XX)	21	8	DIX PRX 667 Fräser D 20 / d 13	811012067
MFTZ 54XX	DIX 1-3-5421 A	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
MFTZ 57XX	DIX 1-3-5715 A/AK	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
MFTZ 57XX	DIX 1-3-5715 SAD	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
MFTZ 57XX	DIX 1-3-5718 A	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
MFTZ 57XX	DIX 1-3-5718 SAD	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
MFTZ 57XX	DIX 1-3-5721 A	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
MFTZ 57XX	DIX 1-3-5721 SAD	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	21	10	DIX PRX 667 Fräser D 20 / d 13	811012067
MFTZ 57XX	DIX 1-3-5721 SAD OVAL	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	13	10	DIX PRX 670 Fräser D 12,5/d 10,5	811012078
MMZ 304	DIX 1-2-413	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	13	10	DIX PRX 670 Fräser D 12,5/d 10,5	811012078
MMZ 304	DIX 1-2-415	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
MMZ 304	DIX 1-2-418	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062
MMZ 330	DIX 1-2-313 TR	DIX 3-2-___ (CR-ZR)/(XX)	13	8	DIX PRX 653 Fräser D 12 / d 9	811012053
MMZ 330	DIX 1-2-313 TR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	13	10	DIX PRX 670 Fräser D 12,5/d 10,5	811012078
MMZ 330	DIX 1-2-315 TR	DIX 3-2-___ (CR-ZR)/(XX)	15	8	DIX PRX 654 Fräser D 14 / d 9	811012054
MMZ 330	DIX 1-2-315 TR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	15	10	DIX PRX 657 Fräser D 14 / d 11	811012057
MMZ 330	DIX 1-2-318 TR	DIX 3-2-___ (CR-ZR)/(XX)	18	8	DIX PRX 662 Fräser D 17 / d 11	811012062
MMZ 330	DIX 1-2-318 TR	DIX 3-2-___ M8/(XX)(R) (CR-ZR)	18	10	DIX PRX 662 Fräser D 17 / d 11	811012062

➤ Other reamers on request.

System components

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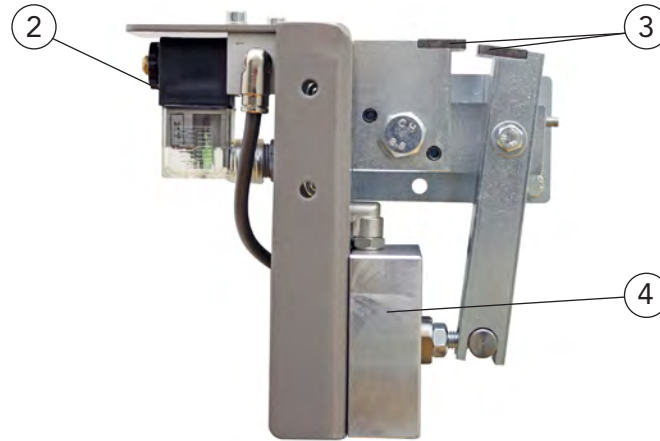


# Torch cleaning stations MIG/MAG

## DIX PRS 600

For robotic applications

### Accessories, Spare parts and wear parts



Description	Part name		Part number
<b>Spare parts and wear parts</b>			
2 Solenoid valve	DIX	PRX 623	811012032
3 Knife set	DIX	PRX 620	811012026
4 Cylinder	DIX	PRX 619	811012025

5 System components



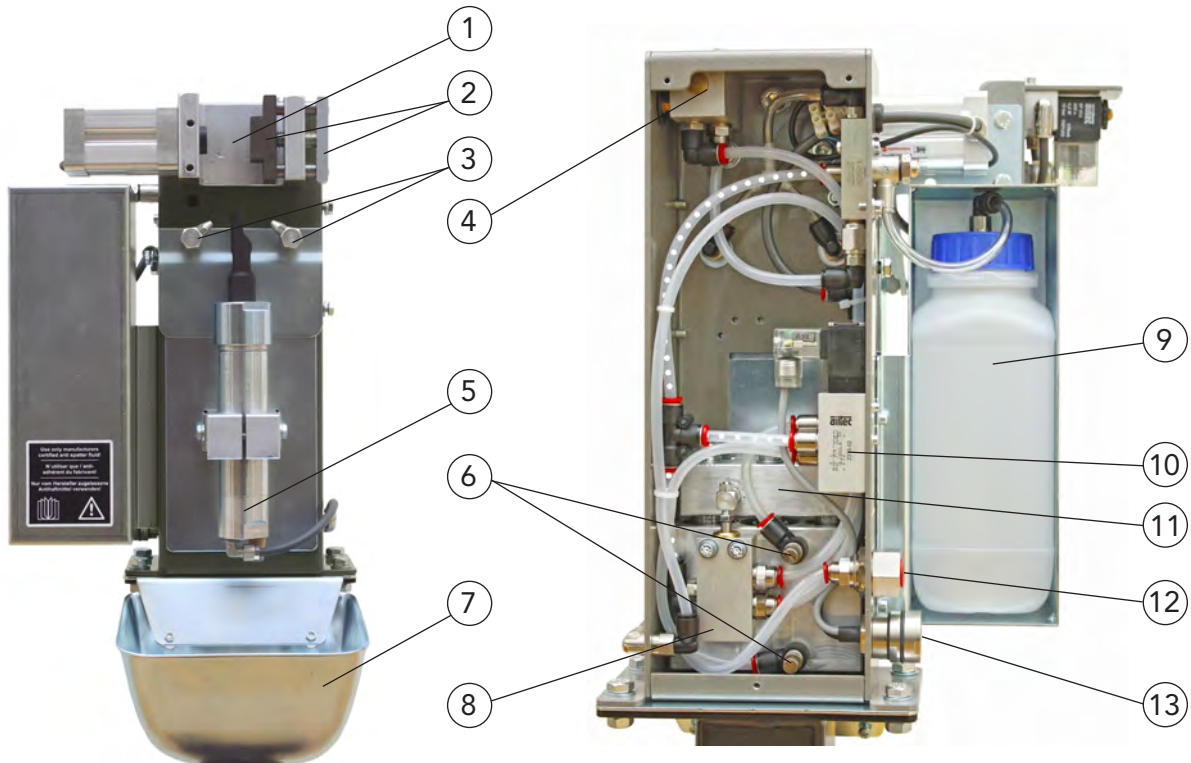
# Torch cleaning stations MIG/MAG

## DIX PRS 600

For robotic applications



### Accessories, Spare parts and wear parts



System components

5

Description	Part name	Part number
1 Clamping cylinder,complete	DIX PRX 601	811012007
2 Lock, complete	DIX PRX 604	811012029
3 Spraying nozzle	DIX PRX 621	811012027
4 Signal contact breaker	DIX PRX 605	811012030
5 Pneumatic motor	DIX PRX 615	811012021
6 Throttle relief valve B	DIX PRX 611	811012017
7 Cup With holder	DIX PRX 603	811012009
Limit switch For clamping cylinder back position, not shown	DIX PRX 602	811012008
8 Distributing valve 5/2 way	DIX PRX 608	811012014
9 Tank	DIX PRX 622	811012028
10 Solenoid valve With manual operation	DIX PRX 609	811012015
11 Sliding unit	DIX PRX 610	811012016
12 Air connection 1/4" complete	DIX PRX 627	811012018
13 Plug 5 pins	DIX PRX 614	811012020
Socket 5 pins, not shown	DIX PRX 613	811012019



# Torch cleaning stations MIG/MAG DIX PRS 600 TD (TANDEM) For robotic applications

Technical data:	
Compressed air.	6 bar
Air consumption	approx. 420 l/min
Cleaning time, max	7,5 s
Operating voltage	24 VDC
Protection class	IP 21
Dimension (L/W/H)	419/300/520 mm
Weight	approx. 15.8 kg



Tandem torch cleaning station DIX PRS 600 TD with wire cutter DIX PRS 610 and assembly fixture DIX PRF 600 TD

## Properties

- ▶ Robust and compact design
- ▶ Special clamping collet for precise fixing of the tandem gas nozzle
- ▶ Fast and thorough cleaning of the tandem gas nozzle interior and contact tip from welding splatters
- ▶ Two spraying nozzles for distribution of anti-stick agent into the gas nozzle
- ▶ Effective accessibility of the components
- ▶ **Option:** Wire cutter, assembly fixture

## Application

- ▶ Optimized for DINSE Tandem robotic torch heads
- ▶ Fixing variants independent of location
- ▶ High availability of the robot through long life time of wearing parts



Robot with mounted Dinse Tandem torch head during the cleaning in the Tandem torch cleaning station



# Torch cleaning stations MIG/MAG

## DIX PRS 1000

### For robotic applications



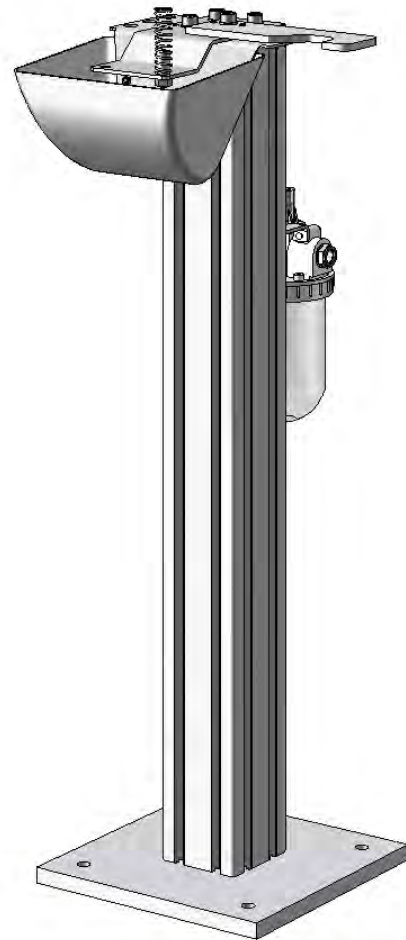
Technical data:	
Input pressure	
Dosing unit	max. 16 bar
Connection hose	ø 6 mm
Dimension(L/W/H)	330/290/810 mm
Weight	approx. 8.5-11 kg
Depending on the equipment	

#### Advantage

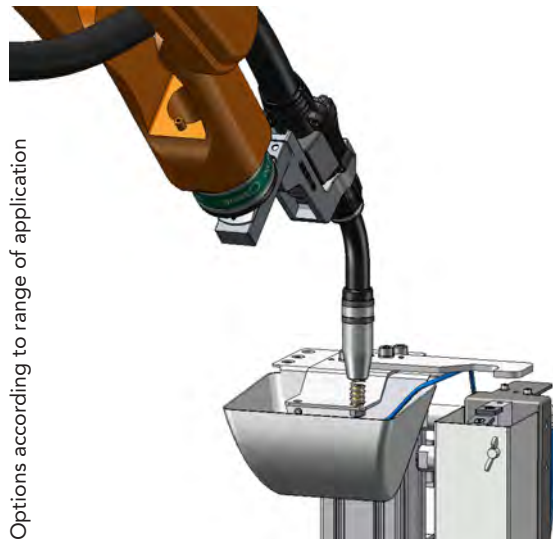
- ▶ Short cleaning cycle
- ▶ Gently cleaning method of the wear parts
- ▶ Robust and compact design
- ▶ Modular expandable
- ▶ **Options:** Wire cutter, spraying nozzle and control valve

#### Properties

- ▶ Perfected for DINSE robotic torch heads
- ▶ Especially developed spring principle for thorough cleaning of the gas nozzle interior from welding spatter
- ▶ Matching cleaning springs for all established gas nozzles diameter
- ▶ Uniform distribution of the lubricant in the gas nozzle by spraying nozzle (optional) or via air blast
- ▶ Precise position control



Torch cleaning station DIX PRS 1000



Options according to range of application

Application sample: Cleaning process of the gas nozzle

System components

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# Torch cleaning stations MIG/MAG

## DIX PRS 1000 D

### For robotic applications

#### Technical data:

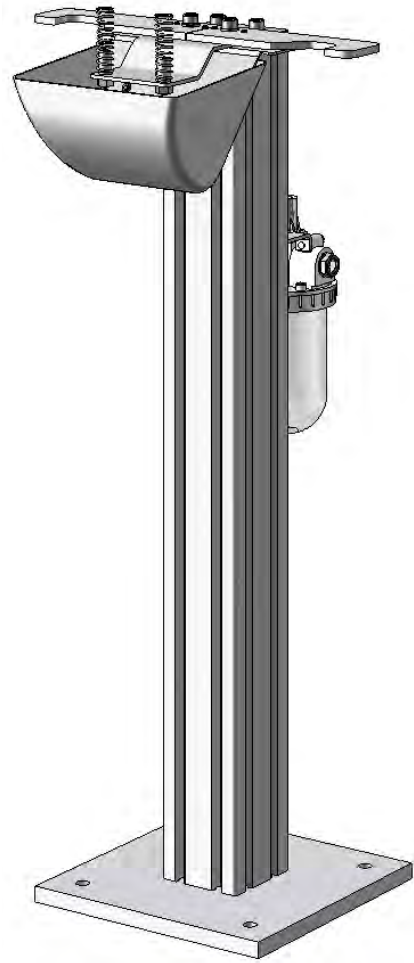
Input pressure	
Dosing unit	max. 16 bar
Connection hose	ø 6 mm
Dimension(L/W/H)	330/335/810 mm
Weight	approx. 8.5-13.5 kg
Depending on the equipment	

#### Advantage

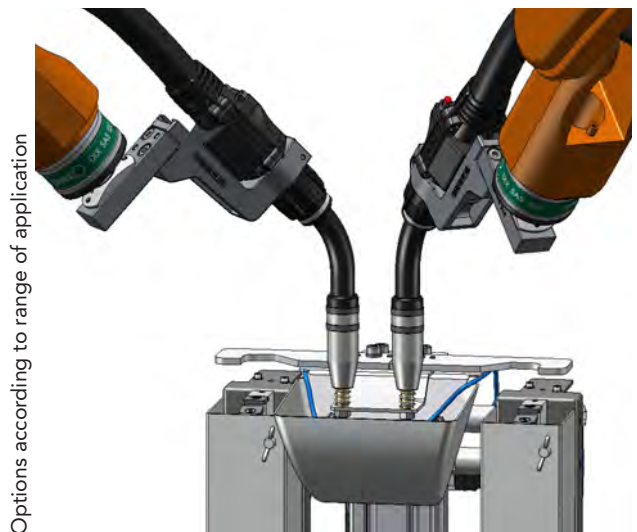
- ▶ At the same time 2 robots can carry out the cleaning process
- ▶ Short cleaning cycle
- ▶ Gently cleaning method of the wear parts
- ▶ Robust and compact design
- ▶ Modular expandable
- ▶ **Options:** Wire cutter, spraying nozzle and control valve

#### Properties

- ▶ Simultaneous cleaning of two welding torches
- ▶ Perfected for DINSE robotic torch heads
- ▶ Especially developed spring principle for thorough cleaning of the gas nozzle interior from welding spatter
- ▶ Matching cleaning springs for all established gas nozzles diameter
- ▶ Uniform distribution of the lubricant in the gas nozzle by spraying nozzle (optional) or via air blast
- ▶ Precise position control



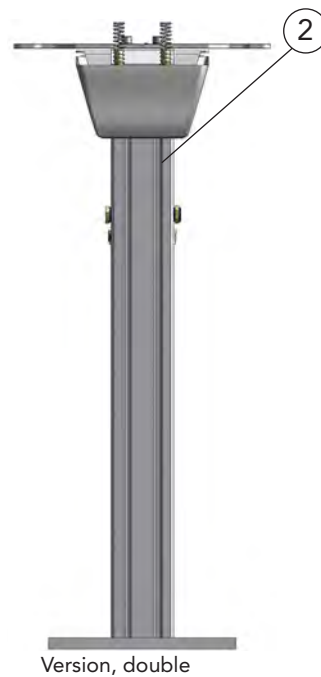
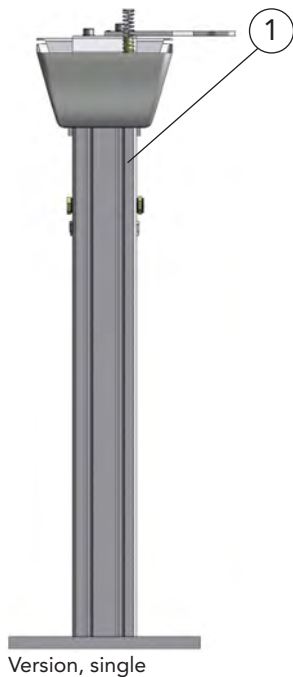
Torch cleaning station DIX PRS 1000 D



Application sample: Cleaning process of the gas nozzle



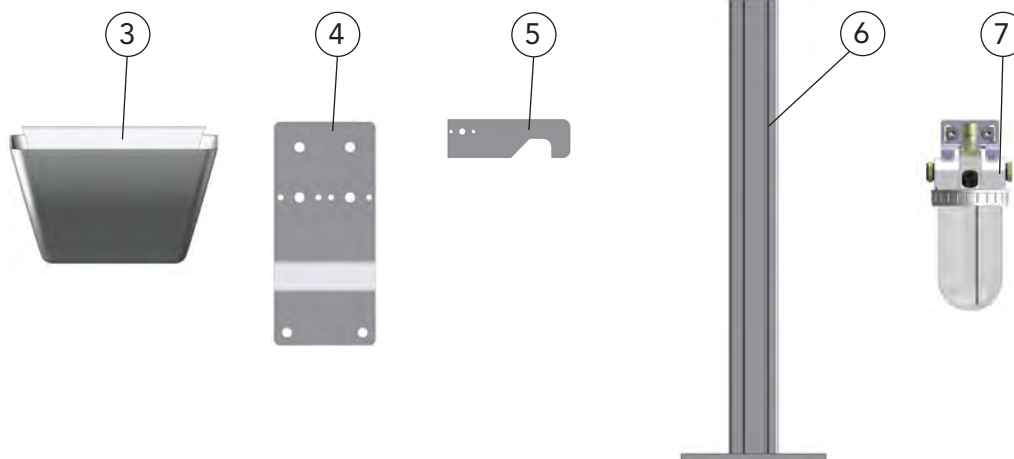
# Torch cleaning stations MIG/MAG DIX PRS 1000 (D) For robotic applications



Description	Part name	Part number
1 Torch cleaning station Spraying of anti-stick agent externally via air blast, without cleaning springs	DIX PRS 1000	811012600

2 Torch cleaning station Spraying of anti-stick agent externally via air blast, without cleaning springs	DIX PRS 1000 D	811012601
----------------------------------------------------------------------------------------------------------------	----------------	-----------

► The corresponding cleaning springs you will find in the spare parts and wear parts list!  
Variants deviating of the standard fittings on request.



Description	Part name	Part number
3 Cup With holder	DIX PRC 1000	811012645

4 Holder With mounting parts	DIX PRH 1000	811012628
------------------------------	--------------	-----------

5 Positioning facility For single and double version, with pins	DIX PRP 1000	811012622
--------------------------------------------------------------------	--------------	-----------

6 Assembly fixture	DIX PRF 1000	811012623
--------------------	--------------	-----------

7 Dosing unit With mounting parts	DIX PRD 1000	811012624
-----------------------------------	--------------	-----------

► The corresponding cleaning springs you will find in the spare parts and wear parts list!



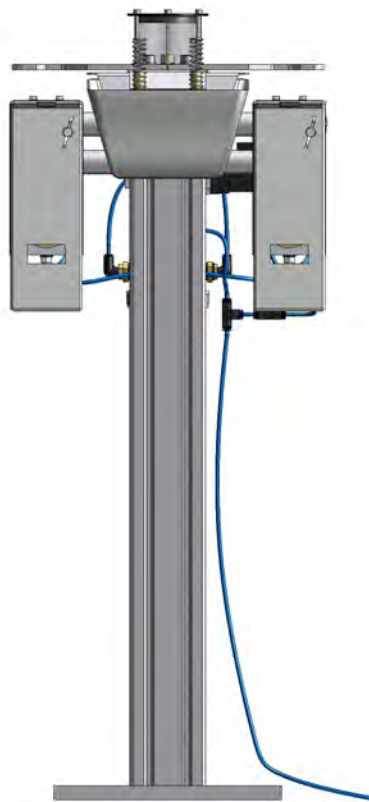


# Torch cleaning stations MIG/MAG

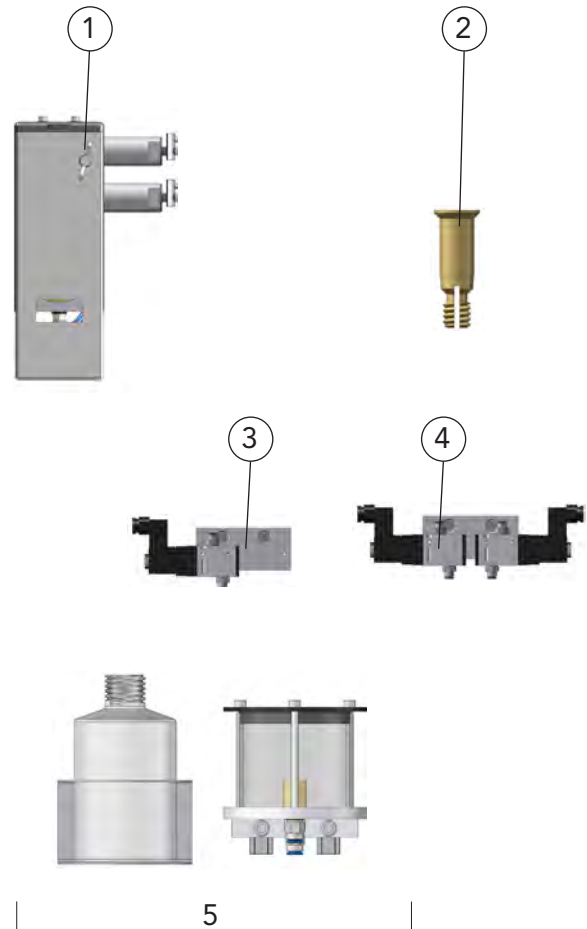
## DIX PRS 1000 (D)

For robotic applications

### Accessories



Complete equipment type



5 System components

Description	Part name	Part number
<b>Options:</b>		
1 Wire cutter With mounting parts	DIX PRA 1000	811012635
2 Spraying nozzle For spraying of anti-stick agent by cleaning springs	DIX PRNI 1000	811012629
3 Control valve For single version	DIX PRV 1000	811012625
4 Control valve For double version	DIX PRVD 1000	811012626
5 Spraying system	DIX PRIS 1000	811012639



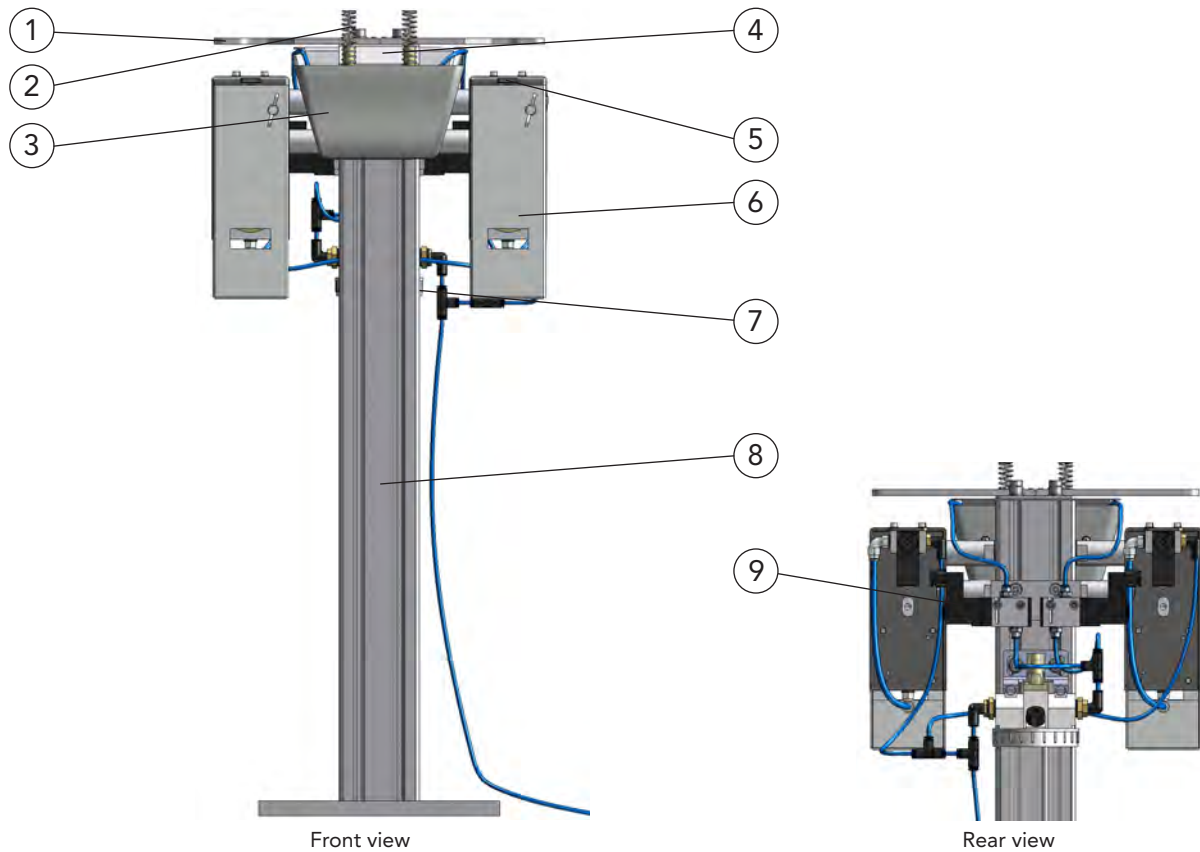
# Torch cleaning stations MIG/MAG

## DIX PRS 1000 (D)

### For robotic applications



## Spare parts and wear parts



Torch cleaning station DIX PRS 1000 D

System components

5

	Description	Part name	Part number
1	Positioning facility, for single and double version, with pins	DIX PRP 1000	811012622
2	Cleaning springs, without spraying nozzle	DIX PRCS 10xx	8110126xx
3	Cup, with holder	DIX PRC 1000	811012645
4	Holder, with mounting parts	DIX PRH 1000	811012628
5	Knife set	DIX PRX 620	811012026
6	Wire cutter	DIX PRA 1000	811012635
7	Dosing unit, with mounting parts	DIX PRD 1000	811012624
8	Assembly fixture	DIX PRF 1000	811012623
9	Control valve, for double version	DIX PRVD 1000	811012626
	Control valve, for single version, not shown	DIX PRV 1000	811012625
	Spraying nozzle, not shown	DIX PRNI 1000	811012629

► Variants deviating of the standard fittings on request.

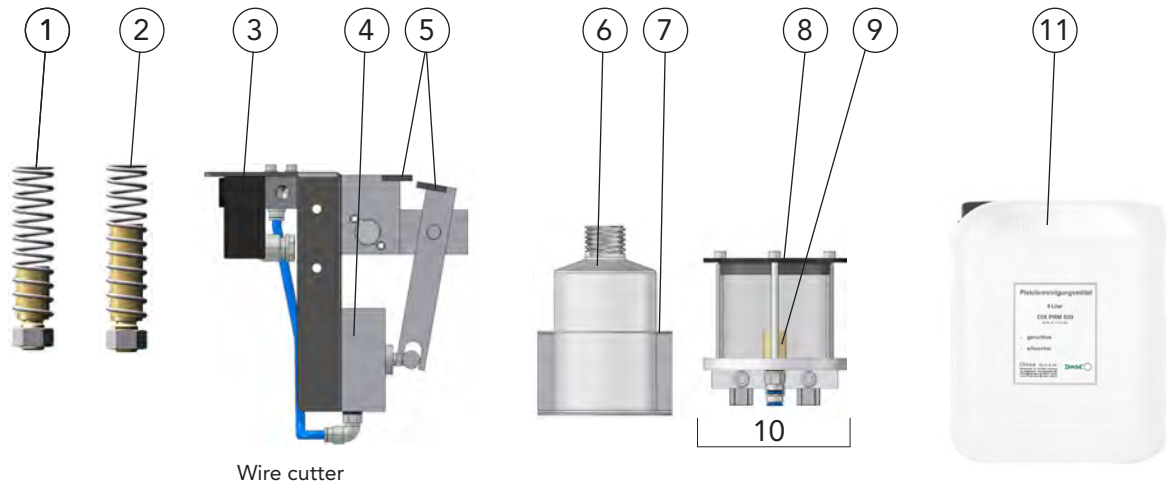


# Torch cleaning stations MIG/MAG

## DIX PRS 1000 (D)

For robotic applications

### Spare parts and wear parts



Wire cutter

System components

Description	Gas nozzle diameter, inside (DI)	Part name	Part number
1 Cleaning spring No spraying of the spring	DI ø 11 mm	DIX PRCS 1011	811012646
Cleaning spring No spraying of the spring	DI ø 12 mm	DIX PRCS 1012	811012647
Cleaning spring No spraying of the spring	DI ø 13 mm	DIX PRCS 1013	811012638
Cleaning spring	DI ø 14 mm	DIX PRCS 1014	811012631
Cleaning spring	DI ø 15 mm	DIX PRCS 1015	811012632
Cleaning spring	DI ø 17 mm	DIX PRCS 1017	811012636
Cleaning spring	DI ø 18 mm	DIX PRCS 1018	811012633
Cleaning spring	DI ø 21 mm	DIX PRCS 1021	811012634
2 Cleaning spring , for short gas nozzle	DI ø 12 mm	DIX PRCS 1012 L	811012648
Cleaning spring , for short gas nozzle	DI ø 13 mm	DIX PRCS 1013 L	811012649
Cleaning spring , for short gas nozzle	DI ø 14 mm	DIX PRCS 1014 L	811012650
Cleaning spring , for short gas nozzle	DI ø 15 mm	DIX PRCS 1015 L	811012651
3 Solenoid valve		DIX PRX 623	811012032
4 Cylinder		DIX PRX 619	811012025
5 Knife set		DIX PRX 620	811012026
6 Bottle, 250 ml		DIX PRB 1000	811012644
7 Bottle holder, complete With mounting parts		DIX PRBH 1000	811012643
8 Brush		DIX PRBR 1000	811012642
9 Spraying nozzle		DIX PRIN 1000	811012641
10 Spraying unit		DIX PRID 1000	811012640
11 Anti-stick agent, 5l		DIX PRM 600	811012002

► All cleaning springs without spraying nozzle.  
Other cleaning springs on request.





# 06 TOOLS & ACCESSORIES

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# Checking and aligning system for torch necks MIG/MAG

## Over view







The table below shows you what checking jig which torch necks can be tested with the corresponding aligning set. If you also want to re-align the torch necks, you will need the optional aligning module DIX JM 100. More detailed information on the individual checking jig can be found on the following pages.

Checking jig	Torch necks	Aligning set
DIX PV 100 	DIX MET 350/352/354	JS 350/520
	DIX MET 3700/3722/3745	JS 3700
	DIX METZ 520/522/524	JS 350/520
	DIX METZ 540/542/544	JS 540
	DIX METZ 560/562/564	JS 560
	DIX METZ 570/572/574	JS 570
	DIX METZ 6400/6422/6445	JS 540/001
	DIX METZ 5500/5522/5545	JS 5500
DIX PV 100 XL 	DIX METZ 520/522/524 + L + XL	JS 350/520
	DIX METZ 540/542/544 + L + XL	JS 540
	DIX METZ 560/562/564 + L + XL	JS 560
	DIX METZ 570/572/574 + L + XL	JS 570
	DIX METZ 6400/6422/6445 + L + XL	JS 540/001
	DIX METZ 5500/5522/5545 + L + XL	JS 5500
DIX PV 150 	DIX MET 390/392/394	JS 390/590
	DIX MET 3900/3922/3945	JS 390/590
	DIX METZ 590/592/594	JS 390/590
DIX PV 150 XL 	DIX MET 390/392/394	JS 390/590
	DIX MET 3900/3922/3945	JS 390/590
	DIX METZ 590/592/594 + L + XL	JS 390/590
DIX PV 158/003 	DIX MET 350/352/354	JS 350/520
	DIX METZ 520/522/524/528	JS 350/520
	DIX METZ 540/542/544/548	JS 540
	DIX METZ 560/562/564/568	JS 560
	DIX METZ 598	JS 390/590
DIX PV 160 	DIX METZ 5800/5822/5845	JS 5800
DIX PV 160 XL 	DIX METZ 5800/5822/5845 + L + XL	JS 5800
DIX PF 100 F 	DIX MFTZ 5200/5222/5236/5245	JS 350/520
	DIX MFTZ 5400/5422/5436/5445	JS 540
	DIX MFTZ 5700/5722/5736/5745	JS 570
DIX PV 158 F 	DIX MFTZ 5900/5922/5936/5945	JS 390/590



# Checking and aligning system for torch necks MIG/MAG

## Over view

Checking jig	Torch necks	Aligning set
DIX PV 200 	DIX MET 350/352/354	JS 350/520
	DIX MET 3700/3722/3745	JS 3700
	DIX METZ 520/522/524	JS 350/520
	DIX METZ 540/542/544	JS 540
	DIX METZ 560/562/564	JS 560
	DIX METZ 570/572/574	JS 570
	DIX METZ 6400/6422/6445	JS 540/001
	DIX METZ 5500/5522/5545	JS 5500
DIX PV 200 XL 	DIX METZ 520/522/524 + L + XL	JS 350/520
	DIX METZ 540/542/544 + L + XL	JS 540
	DIX METZ 560/562/564 + L + XL	JS 560
	DIX METZ 570/572/574 + L + XL	JS 570
	DIX METZ 6400/6422/6445 + L + XL	JS 540/001
	DIX METZ 5500/5522/5545 + L + XL	JS 5500
DIX PV 250 	DIX MET 390/392/394	JS 390/590
	DIX MET 3900/3922/3945	JS 390/590
	DIX METZ 590/592/594	JS 390/590
DIX PV 250 XL 	DIX MET 390/392/394	JS 390/590
	DIX MET 3900/3922/3945	JS 390/590
	DIX METZ 590/592/594 + L + XL	JS 390/590

# Checking and aligning system for torch necks MIG/MAG DIX PV 100, DIX PV 100 XL



## Standard torch necks

### For robotic- and automatic components

Technical data:	
Checking jig	PV 100
Checking jig	PV 100 XL

#### Advantage

- ▶ Precise checking jig for position control of the TCP, made of an high grade aluminum alloy for a long lifetime
- ▶ Checking and aligning of the standard torch necks concerning parallelism and center of contact tip
- ▶ PV 100  
Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°)
- ▶ PV 100 XL  
Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°) and version L +70 mm and XL +150 mm longer than standard torch necks
- ▶ Optionally aligning module to re-aligning the inner and outer parts of the torch head separately.
- ▶ PV 100 XL with straightening set for straightening torch necks L- und XL-version.

#### Application

- ▶ For DINSE standard torch heads

**gas cooled**  
DIX MET 350/352/354 (JS 350/520)  
DIX MET 3700/3722/3745 (JS 3700)

**liquid cooled**  
DIX METZ 520/522/524 (JS 350/520)  
DIX METZ 540/542/544 (JS 540)  
DIX METZ 560/562/564 (JS 560)  
DIX METZ 570/572/574 (JS 570)  
DIX METZ 6400/6422/6445 (JS 540/001)  
DIX METZ 5500/5522/5545 (JS 5500)

DIX METZ 520/522/524 L (JS 350/520)  
DIX METZ 540/542/544 L (JS 540)  
DIX METZ 560/562/564 L (JS 560)  
DIX METZ 570/572/574 L (JS 570)  
DIX METZ 6400/6422/6445 L (JS 540/001)  
DIX METZ 5500/5522/5545 L (JS 5500)

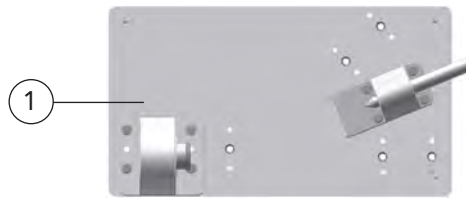
DIX METZ 520/522/524 XL (JS 350/520)  
DIX METZ 540/542/544 XL (JS 540)  
DIX METZ 560/562/564 XL (JS 560)  
DIX METZ 570/572/574 XL (JS 570)  
DIX METZ 6400/6422/6445 XL (JS 540/001)  
DIX METZ 5500/5522/5545 XL (JS 5500)

- ▶ Quality assurance in welding production

(0) Alligning set matching to this torch head

Description	Part name	Part number
1 Checking jig, compl. With torch adapter DIX PVP 100, support set DIX PVS 100 and set up pins DIX PVL 106, DIX PVL 108	DIX PV 100	685300101
2 Checking jig, compl. not shown With torch adapter DIX PVP 102, support set DIX PVS 102, set up pins DIX PVL 106, DIX PVL 108 and straightening set DIX PVR 102	DIX PV 100 XL	685310100

- ▶ Spare and wear parts can be found from Seite 361.
- ▶ Variants deviating of the standard fittings on request.



Checking jig DIX PV 100



Checking jig DIX PV 100 XL

#### Application samples



Checking jig PV 100 with standard torch head and optionally Aligning module



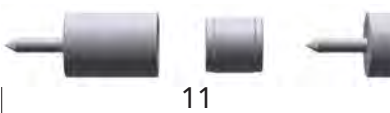
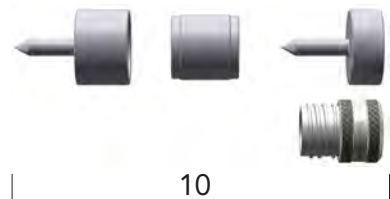
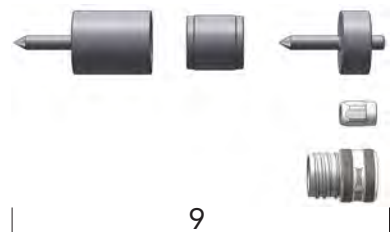
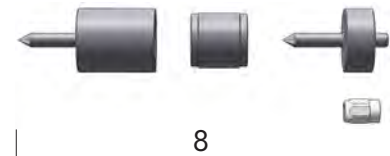
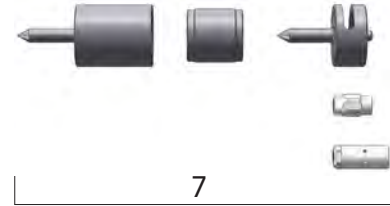
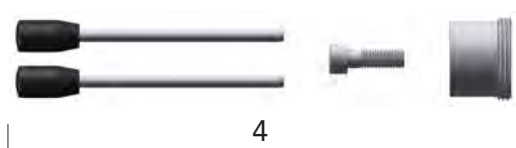
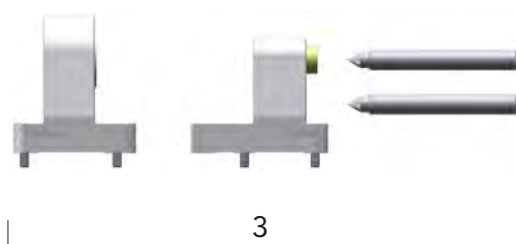
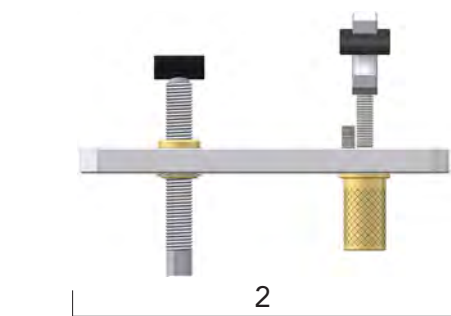
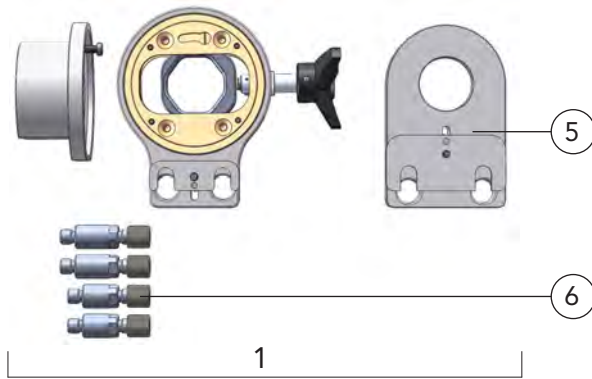
Checking jig PV 100 XL with standard torch head and optionally Aligning module



Checking jig PV 100 XL with torch head XL version, optionally straightening set PVR 102, aligning bracket JH 100 and support set PVS 102 with torch adapter PVP 102



## Accessories



Description	Part name	Part number
1 Aligning module, complete	DIX JM 100	685305100
2 Straightening set, needs pos. 3, 4, 5 and two pcs. 6	DIX PVR 102	685305160
3 Support set	DIX PVS 102	685302117
4 Torch adapter complete	DIX PVP 102	685303115
5 Aligning bracket	DIX JH 100	685305120
6 Aligning pin - H	DIX JBH 100	685305150
7 Aligning set, 350/520	DIX JS 350/520	685305200
8 Aligning set, 540	DIX JS 540	685305210
9 Aligning set, 560	DIX JS 560	685305220
10 Aligning set, 570	DIX JS 570	685305250
11 Aligning set, 5500	DIX JS 5500	685305290
12 Aligning set, 3700	DIX JS 3700	685305260

➤ Spare and wear parts can be found from Seite 361.

➤ Variants deviating of the standard fittings on request.

# Checking and aligning system for torch necks MIG/MAG DIX PV 150, DIX PV 150 XL



## Standard torch necks

### For robotic- and automatic components

Technical data:	
Checking jig	PV 150
Checking jig	PV 150 XL

#### Advantage

- ▶ Precise checking jig for position control of the TCP, made of an high grade aluminum alloy for a long lifetime
- ▶ Checking and aligning of the standard torch necks concerning parallelism and center of contact tip
- ▶ PV 150  
Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°)
- ▶ PV 150 XL  
Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°) and version L +70 mm and XL +150 mm longer than standard torch necks
- ▶ Optionally aligning module to re-aligning the inner and outer parts of the torch head separately.
- ▶ PV 150 XL with straightening set for straightening torch necks L- und XL-version.

#### Application

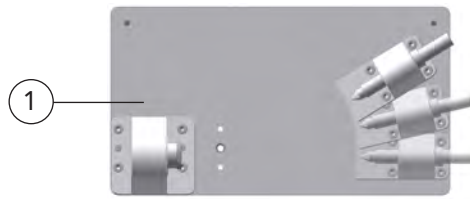
- ▶ For DINSE standard torch heads

**gas cooled**  
DIX MET 390/392/394 (JS 390/590)  
DIX MET 3900/3922/3945 (JS 390/590)

**liquid cooled**  
DIX METZ 590/592/594 (JS 390/590)  
DIX METZ 590/592/594 L (JS 390/590)  
DIX METZ 590/592/594 XL (JS 390/590)

- ▶ Quality assurance in welding production

() Alligning set matching to this torch head

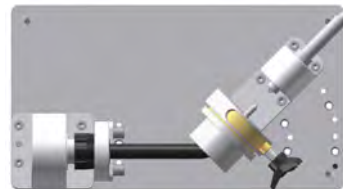


Checking jig DIX PV 150



Checking jig DIX PV 150 XL

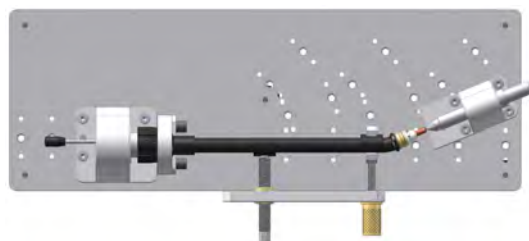
#### Application samples



Checking jig PV 150 with standard torch head and optionally Aligning module



Checking jig PV 150 XL with standard torch head and optionally Aligning module



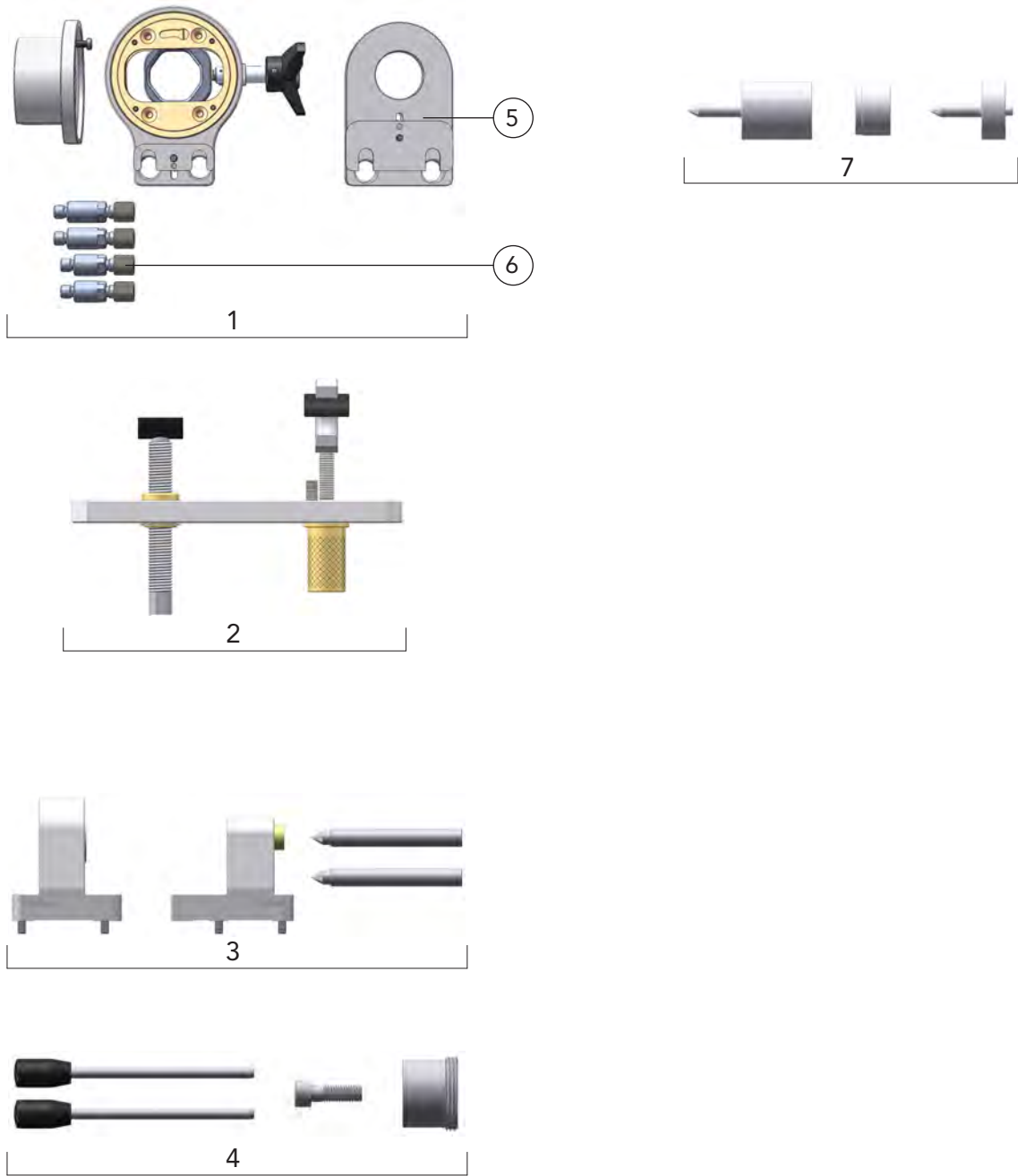
Checking jig PV 150 XL with torch head XL version, optionally straightening set PVR 102, Aligning bracket JH 100 and support set PVS 102 with torch adapter PVP 102

Description	Part name	Part number
1 Checking jig, compl. With torch adapter DIX PVP 100, support set DIX PVS 100 and set up pins DIX PVL 106, DIX PVL 108	DIX PV 150	685300151
2 Checking jig, compl. With torch adapter DIX PVP 102, support set DIX PVS 102, set up pins DIX PVL 106, DIX PVL 108 and straightening set DIX PVR 102	DIX PV 150 XL	685310150

- ▶ Spare and wear parts can be found from Seite 361.
- ▶ Variants deviating of the standard fittings on request.



## Accessories



Description	Part name	Part number
1 Aligning module, complete	DIX JM 100	685305100
2 Straightening set, needs pos. 3, 4, 5 and two pcs. 6	DIX PVR 102	685305160
3 Support set	DIX PVS 102	685302117
4 Torch adapter complete	DIX PVP 102	685303115
5 Aligning bracket	DIX JH 100	685305120
6 Aligning pin - H	DIX JBH 100	685305150
7 Aligning set, JS 390/590	DIX JS 390/590	685305230

- ▶ Spare and wear parts can be found from Seite 361.
- ▶ Variants deviating of the standard fittings on request.

# Checking and aligning system for torch necks MIG/MAG DIX PV 158/003

## Standard torch necks

### For robotic- and automatic components



Technical data:	
Checking jig	PV 158/003



Checking jig DIX PV 158/003

#### Advantage

- Precise checking jig for position control of the TCP, made of an high grade aluminum alloy for a long lifetime
- Checking and aligning of the standard torch necks concerning parallelism and center of contact tip
- Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°)
- Optionally aligning module to re-aligning the inner and outer parts of the torch head separately.

#### Application

- For DINSE standard torch heads

**gas cooled**  
DIX MET 350/352/354 (JS 350/520)  
DIX MET 3900/3922/3945 (JS 390/590)

**liquid cooled**  
DIX METZ 520/522/524/528 (JS 350/520)  
DIX METZ 540/542/544/548 (JS 540)  
DIX METZ 560/562/564/568 (JS 560)

DIX METZ 598 (JS 390/590)

- Quality assurance in welding production

() Alligning set matching to this torch head

#### Application samples



Checking jig PV 158/003 with standard torch head and optionally Aligning module



Checking jig PV 158/003 with double bent standard torch head

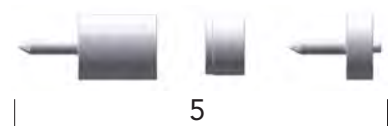
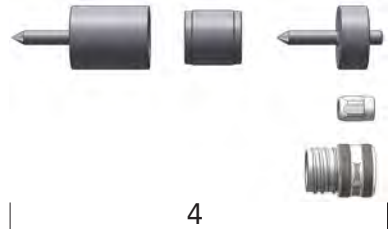
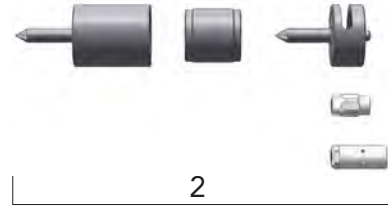
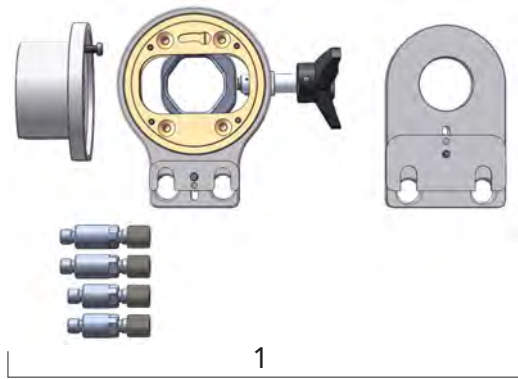
**NOTE** Torch necks with two bends can not be straightened with the testing and straightening device but only tested.  
If the torch head has to be straightened, please contact DINSE.

Description	Part name	Part number
1 Checking jig, compl. With torch adapter DIX PVP 100, support set DIX PVS 100 and set up pins DIX PVL 106, DIX PVL 108	DIX PV 158	685300151

- Spare and wear parts can be found from Seite 361.
- Variants deviating of the standard fittings on request.



## Accessories



Description	Part name	Part number
1 Aligning module, complete	DIX JM 100	685305100
2 Aligning set, 350/520	DIX JS 350/520	685305200
3 Aligning set, 540	DIX JS 540	685305210
4 Aligning set, 560	DIX JS 560	685305220
5 Aligning set, JS 390/590	DIX JS 390/590	685305230

- ▶ Spare and wear parts can be found from Seite 361.
- ▶ Variants deviating of the standard fittings on request.



# Checking and aligning system for torch necks MIG/MAG DIX PV 160, DIX PV 160 XL

## Standard torch necks

### For robotic- and automatic components

Technical data:	
Checking jig	PV 160
Checking jig	PV 160 XL



Checking jig DIX PV 160



Checking jig DIX PV 160 XL

#### Advantage

- ▶ Precise checking jig for position control of the TCP, made of an high grade aluminum alloy for a long lifetime
- ▶ Checking and aligning of the standard torch necks concerning parallelism and center of contact tip
- ▶ PV 160  
Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°)
- ▶ PV 160 XL  
Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°) and version L +70 mm and XL +150 mm longer than standard torch necks
- ▶ Optionally aligning module to re-aligning the inner and outer parts of the torch head separately.
- ▶ PV 160 XL with straightening set for straightening torch necks L- und XL-version.

#### Application

- ▶ For DINSE standard torch heads

#### liquid cooled

DIX METZ 5800/5822/5845 (JS 5800)

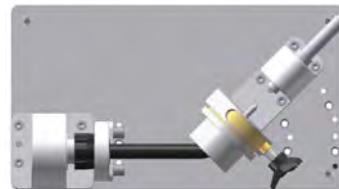
DIX METZ 5800/5822/5845 L (JS 5800)

DIX METZ 5800/5822/5845 XL (JS 5800)

- ▶ Quality assurance in welding production

(0) Alligning set matching to this torch head

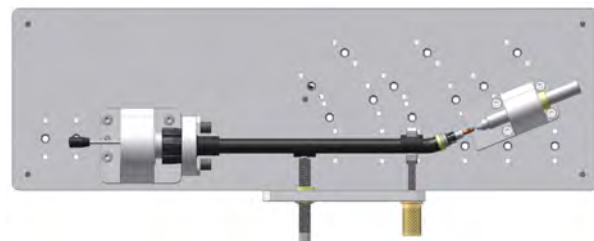
#### Application samples



Checking jig PV 160 with standard torch head and optionally Aligning module



Checking jig PV 160 XL with standard torch head and optionally Aligning module



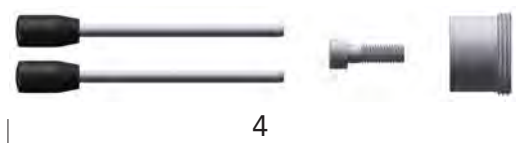
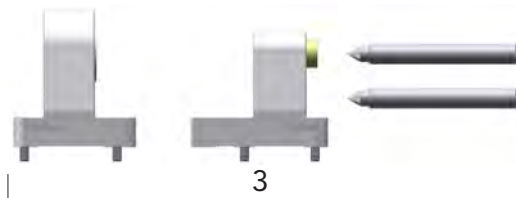
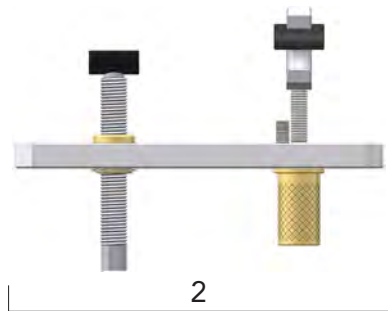
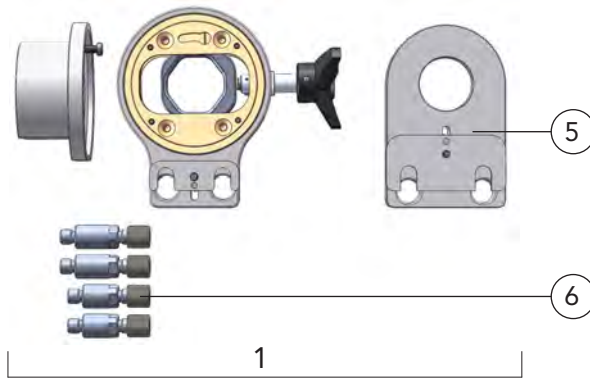
Checking jig PV 160 XL with torch head XL version, optionally straightening set PVR 102, Aligning bracket JH 100 and support set PVS 102 with torch adapter PVP 102

Description	Part name	Part number
1 Checking jig, compl. With torch adapter DIX PVP 100, support set DIX PVS 100 and set up pins DIX PVL 106, DIX PVL 108	DIX PV 160	685300160
2 Checking jig, compl. With torch adapter DIX PVP 102, support set DIX PVS 102, set up pins DIX PVL 106, DIX PVL 108 and straightening set DIX PVR 102	DIX PV 160 XL	685310160

- ▶ Spare and wear parts can be found from Seite 361.
- ▶ Variants deviating of the standard fittings on request.



## Accessories



Description	Part name	Part number
1 Aligning module, complete	DIX JM 100	685305100
2 Straightening set, needs pos. 3, 4, 5 and two pcs. 6	DIX PVR 102	685305160
3 Support set	DIX PVS 102	685302117
4 Torch adapter complete	DIX PVP 102	685303115
5 Aligning bracket	DIX JH 100	685305120
6 Aligning pin - H	DIX JBH 100	685305150
7 Aligning set, 5800	DIX JS 5800	685305280

- Spare and wear parts can be found from Seite 361.
- Variants deviating of the standard fittings on request.

# Checking and aligning system for torch necks MIG/MAG DIX PV 100 F, DIX PV 158 F

Torch necks with interface fitting with Fronius®\* torch sets  
For robotic- and automatic components

Technical data:	
Checking jig	PV 100 F
Checking jig	PV 158 F

## Advantage

- ▶ Precise checking jig for position control of the TCP, made of an high grade aluminum alloy for a long lifetime
- ▶ Checking and aligning of the standard torch necks concerning parallelism and center of contact tip
- ▶ Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 36°, 45°)
- ▶ Optionally aligning module to re-aligning the inner and outer parts of the torch head separately.



Checking jig DIX PV 100 F



Checking jig DIX PV 158 F

## Application

- ▶ **PV 100 F**  
For DINSE torch heads with interface fitting with Fronius®\* torch sets

### liquid cooled

DIX MFTZ 5200/5222/5236/5245 (JS 350/520)

DIX MFTZ 5400/5422/5436/5445 (JS 540)

DIX MFTZ 5700/5722/5736/5745 (JS 570)

- ▶ **PV 158 F**  
For DINSE torch necks with interface fitting with Fronius®\* torch sets

### liquid cooled

DIX MFTZ 5900/5922/5936/5945 (JS 390/590)

- ▶ Quality assurance in welding production

( ) Alligning set matching to this torch head

## Application samples



Checking jig PV 100 F with standard torch head and optionally Aligning module



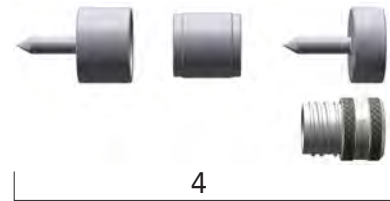
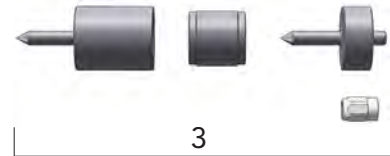
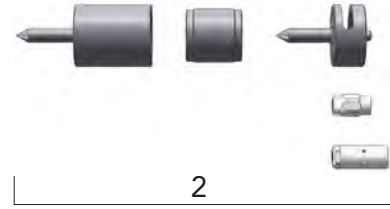
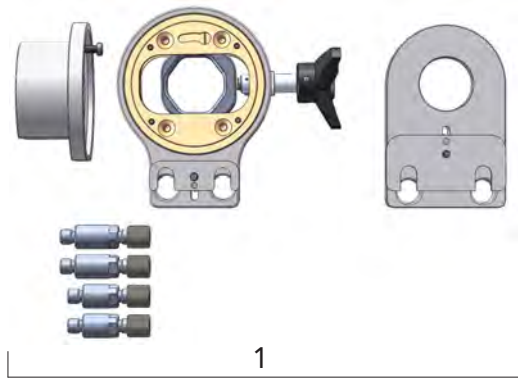
Checking jig PV 158 F with standard torch head and optionally Aligning module

Description	Part name	Part number
1 Checking jig, compl. With torch adapter DIX PVP 100, support set DIX PVS 100 and set up pins DIX PVL 106, DIX PVL 108	DIX PV 100 F	685432001
2 Checking jig, compl. With torch adapter DIX PVP 100, support set DIX PVS 100 and set up pins DIX PVL 106, DIX PVL 108	DIX PV 158 F	685452001
▶ Spare and wear parts can be found from Seite 361.		
▶ Variants deviating of the standard fittings on request.		

\*Fronius® is a registered trademark of Fronius International GmbH



## Accessories



Description	Part name	Part number
1 Aligning module, complete	DIX JM 100	685305100
2 Aligning set, 350/520	DIX JS 350/520	685305200
3 Aligning set, 540	DIX JS 540	685305210
4 Aligning set, 570	DIX JS 570	685305250
5 Aligning set, JS 390/590	DIX JS 390/590	685305230

- ▶ Spare and wear parts can be found from Seite 361.
- ▶ Variants deviating of the standard fittings on request.



# Checking jig for torch systems MIG/MAG

## DIX PV 200, DIX PV 200 XL

### For robotic- and automatic components

Technical data:	
Checking jig	PV 200
Checking jig	PV 200 XL
TCP for torch necks with torch bracket PHF, PHS or MEP and shock sensor DIX SAS 100 or 200: 400 mm from robotic flange 470 mm from robotic flange (L version) 550 mm from robotic flange (XL version)	

#### Advantage

- ▶ Precise checking jig for position control of the TCP, made of an high grade aluminum alloy for a long lifetime
- ▶ Checking of the standard torch necks concerning parallelism and center of contact tip with complete system of torch set, torch bracket and shock sensor
- ▶ PV 200  
Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°)
- ▶ PV 200 XL  
Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°) and version L +70 mm and XL +150 mm longer than standard torch necks
- ▶ Optionally aligning module to re-aligning the inner and outer parts of the torch head separately.
- ▶ PV 200 XL with straightening set for straightening torch necks L- und XL-version.

#### Application

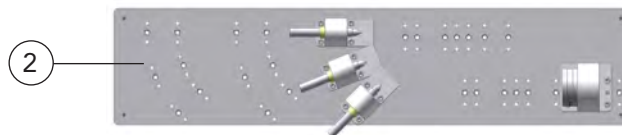
- ▶ For DINSE standard torch heads
  - gas cooled**
  - DIX MET 350/352/354 (JS 350/520)
  - DIX MET 3700/3722/3745 (JS 3700)
  - liquid cooled**
  - DIX METZ 520/522/524 (JS 350/520)
  - DIX METZ 540/542/544 (JS 540)
  - DIX METZ 560/562/564 (JS 560)
  - DIX METZ 570/572/574 (JS 570)
  - DIX METZ 6400/6422/6445 (JS 540/001)
  - DIX METZ 5500/5522/5545 (JS 5500)
  - DIX METZ 520/522/524 L (JS 350/520)
  - DIX METZ 540/542/544 L (JS 540)
  - DIX METZ 560/562/564 L (JS 560)
  - DIX METZ 570/572/574 L (JS 570)
  - DIX METZ 6400/6422/6445 L (JS 540/001)
  - DIX METZ 5500/5522/5545 L (JS 5500)
  - DIX METZ 520/522/524 XL (JS 350/520)
  - DIX METZ 540/542/544 XL (JS 540)
  - DIX METZ 560/562/564 XL (JS 560)
  - DIX METZ 570/572/574 XL (JS 570)
  - DIX METZ 6400/6422/6445 XL (JS 540/001)
  - DIX METZ 5500/5522/5545 XL (JS 5500)

- ▶ Quality assurance in welding production

(0) Alligning set matching to this torch head



Checking jig DIX PV 200



Checking jig DIX PV 200 XL

#### Application samples



Checking jig PV 200 with complete torch system, separable, torch bracket, fixed and shock sensor DIX SAS 100



Checking jig PV 200 XL with complete torch system, separable, torch bracket, fixed and shock sensor DIX SAS 100



Checking jig PV 200 converted to the straightening device with support set DIX PVS 100, torch adapter DIX PVP 100 and aligning module DIX JM 100



Checking jig PV 200 XL converted to the straightening device with support set DIX PVS 102, aligning bracket JH 100, torch dapter DIX PVP 102 and straightening set PVR 102

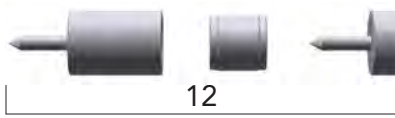
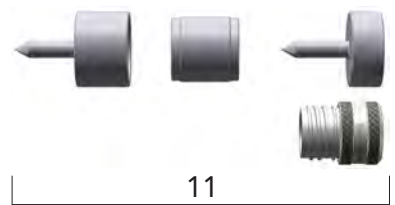
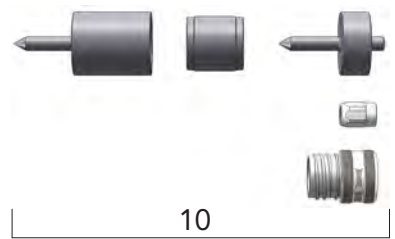
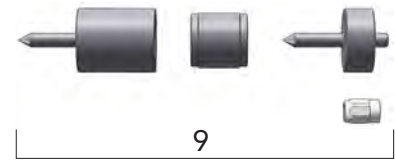
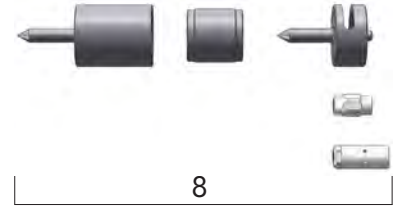
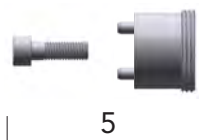
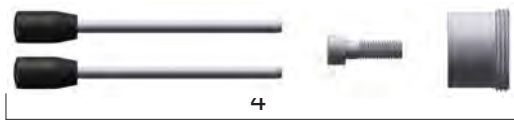
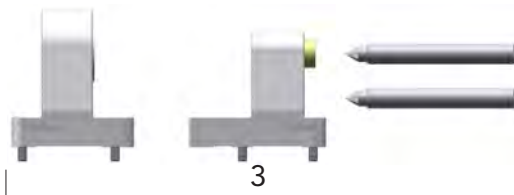
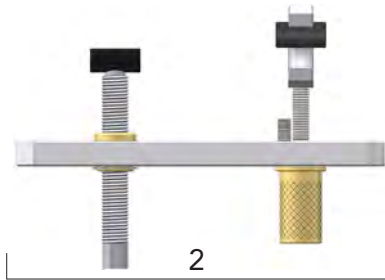
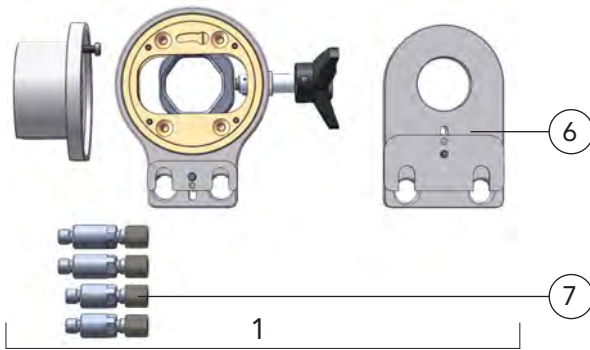
● The Checking jigs DIX PV 200 and DIX PV 200 XL are primarily intended for checking torch systems only.  
The Checking jigs can be converted, so that with them torch necks can also be individually checked and aligned.

Description	Part name	Part number
1 Checking jig, complete With torch adapter DIX PVP 100, support set DIX PVS 100 and set up pins DIX PVL 106, DIX PVL 108	DIX PV 200	685300201
2 Checking jig, complete With SAS adapter DIX PVA 100, support set DIX PVS 102, set up pins DIX PVL 106, DIX PVL 108 and straightening set DIX PVR 102	DIX PV 200 XL	685300202

- ▶ Variants deviating of the standard fittings on request.



## Accessories



Description	Part name	Part number
1 Aligning module, complete	DIX JM 100	685305100
2 Straightening set, needs pos. 3, 4, 6 and two pcs. 7	DIX PVR 102	685305160
3 Support set	DIX PVS 100	685302105
Support set	DIX PVS 102	685302117
4 Torch adapter complete	DIX PVP 102	685303115
5 Torch adapter complete	DIX PVP 100	685303112
6 Aligning bracket	DIX JH 100	685305120
7 Aligning pin - H	DIX JBH 100	685305150
8 Aligning set, 350/520	DIX JS 350/520	685305200
9 Aligning set, 540	DIX JS 540	685305210
10 Aligning set, 560	DIX JS 560	685305220
11 Aligning set, 570	DIX JS 570	685305250
12 Aligning set, 5500	DIX JS 5500	685305290
13 Aligning set, 3700	DIX JS 3700	685305260

➤ Spare and wear parts can be found from Seite 361.

➤ Variants deviating of the standard fittings on request.



# Checking jig for torch systems MIG/MAG

## DIX PV 250, DIX PV 250 XL

### For robotic- and automatic components

Technical data:	
Checking jig	PV 250
Checking jig	PV 250 XL
TCP for torch necks with torch bracket PHF, PHS or MEP and shock sensor DIX SAS 100 or 200: 441 mm from robotic flange 511 mm from robotic flange (L version) 591 mm from robotic flange (XL version)	

#### Advantage

- ▶ Precise checking jig for position control of the TCP, made of an high grade aluminum alloy for a long lifetime
- ▶ Checking of the standard torch necks concerning parallelism and center of contact tip with complete system of torch set, torch bracket and shock sensor
- ▶ PV 250  
Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°)
- ▶ PV 250 XL  
Bore pattern in the checking jig with standard positions for torch necks, (0°, 22°, 45°) and version L +70 mm and XL +150 mm longer than standard torch necks
- ▶ Optionally aligning module to re-aligning the inner and outer parts of the torch head separately.
- ▶ PV 250 XL with straightening set for straightening torch necks L- und XL-version.

#### Application

- ▶ For DINSE standard torch heads

**gas cooled**  
DIX MET 390/392/394 (JS 390/590)  
DIX MET 3900/3922/3945 (JS 390/590)


**liquid cooled**  
DIX METZ 590/592/594 (JS 390/590)

DIX METZ 590/592/594 L (JS 390/590)

DIX METZ 590/592/594 XL (JS 390/590)

- ▶ Quality assurance in welding production

( ) Aligning set matching to this torch head

 The Checking jigs DIX PV 250 and DIX PV 250 XL are primarily intended for checking torch systems only. The Checking jigs can be converted, so that with them torch necks can also be individually checked and aligned.

Description	Part name	Part number
1 Checking jig, complete With torch adapter DIX PVP 100, support set DIX PVS 100 and set up pins DIX PVL 106, DIX PVL 108	DIX PV 250	685300251
2 Checking jig, complete With SAS adapter DIX PVA 100, support set DIX PVS 102, set up pins DIX PVL 106, DIX PVL 108 and straightening set DIX PVR 102	DIX PV 250 XL	685300203

- ▶ Spare and wear parts can be found from Seite 361.
- ▶ Variants deviating of the standard fittings on request.



Checking jig DIX PV 250



Checking jig DIX PV 250 XL

#### Application samples



Checking jig PV 250 with complete torch system, separable, torch bracket, fixed and shock sensor DIX SAS 100



Checking jig PV 250 XL with complete torch system, separable, torch bracket, fixed and shock sensor DIX SAS 100

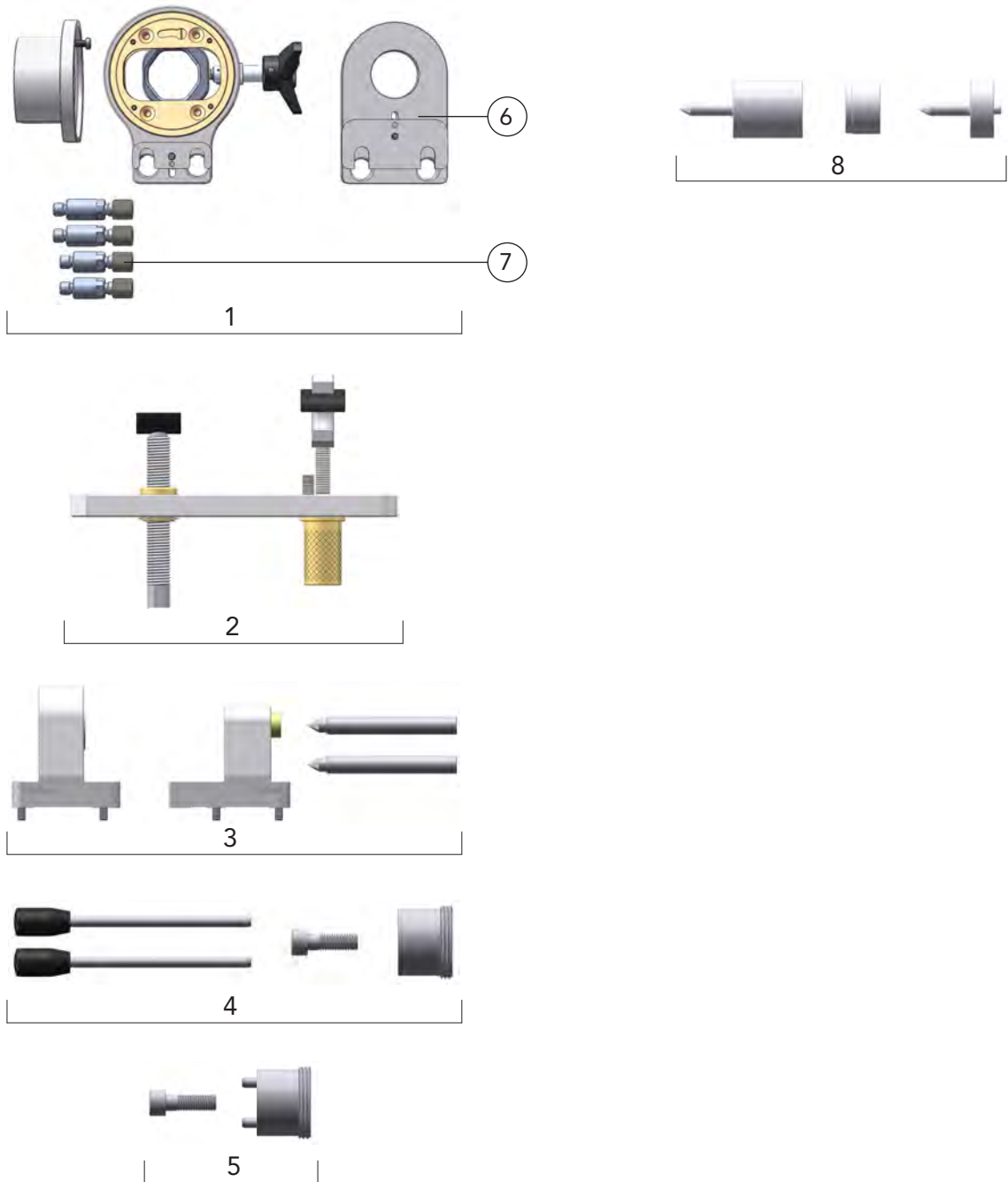


Checking jig PV 250 converted to the straightening device with support set DIX PVS 100, torch adapter DIX PVP 100 and aligning module DIX JM 100



Checking jig PV 250 XL converted to the straightening device with support set DIX PVS 102, aligning bracket JH 100, torch dapter DIX PVP 102 and straightening set PVR 102

## Accessories



Description	Part name	Part number
1 Aligning module, complete	DIX JM 100	685305100
2 Straightening set, needs pos. 3, 4, 6 and two pcs. 7	DIX PVR 102	685305160
3 Support set	DIX PVS 102	685302117
4 Torch adapter complete	DIX PVP 102	685303115
5 Torch adapter complete	DIX PVP 100	685303112
6 Aligning bracket	DIX JH 100	685305120
7 Aligning pin - H	DIX JBH 100	685305150
8 Aligning set, JS 390/590	DIX JS 390/590	685305230

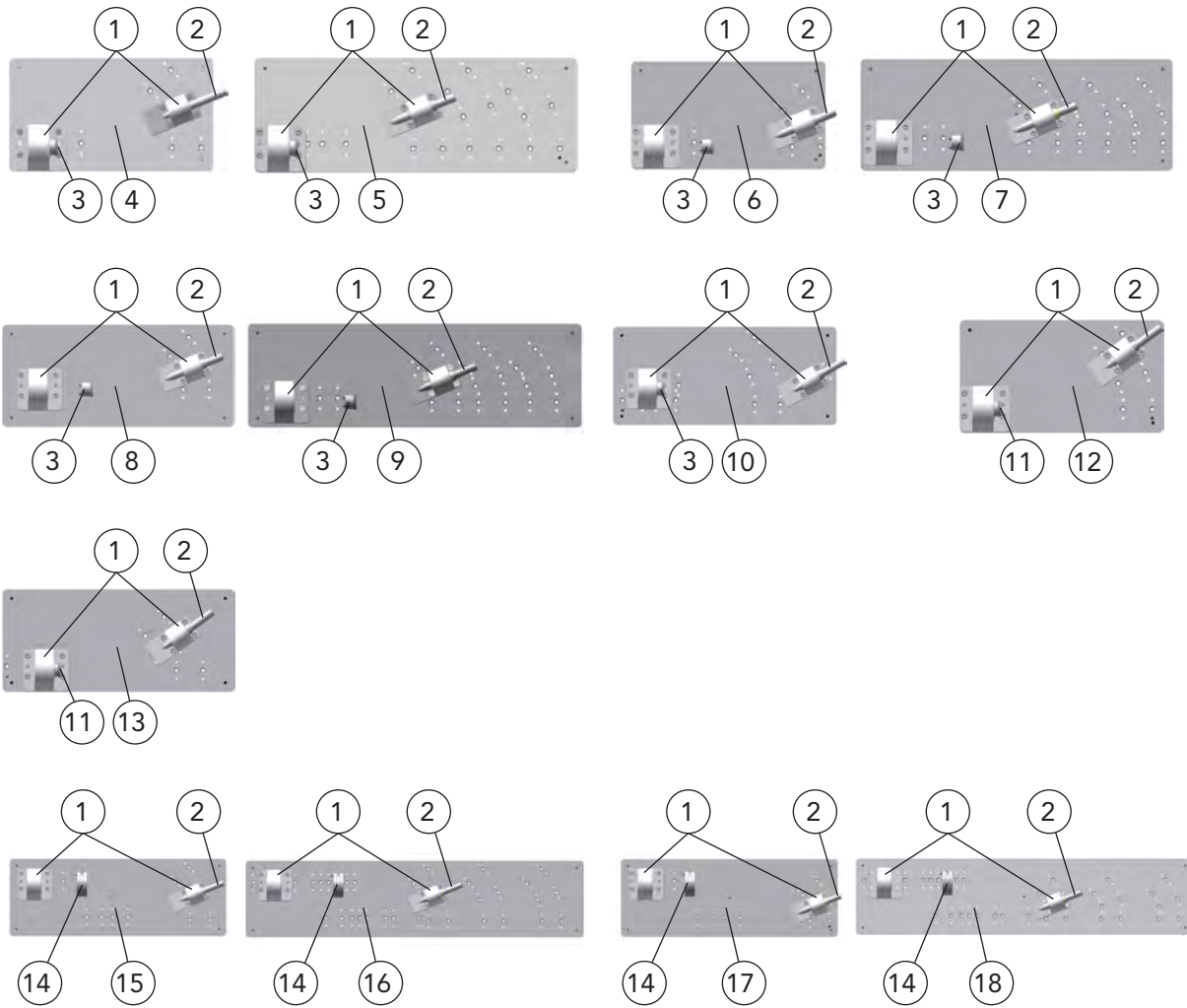
- ▶ Spare and wear parts can be found from Seite 361.
- ▶ Variants deviating of the standard fittings on request.



# Checking and aligning system for torch necks MIG/MAG

## Checking jigs

### Spare and wear parts



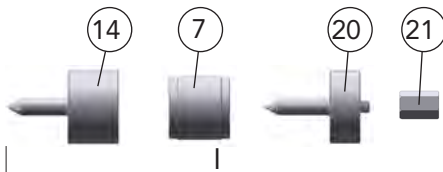
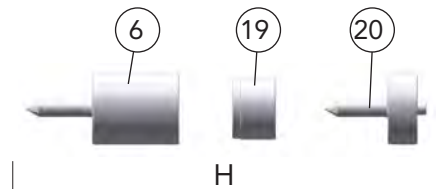
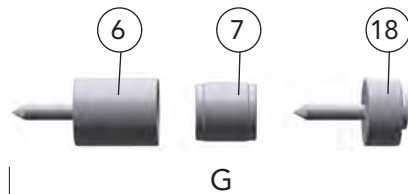
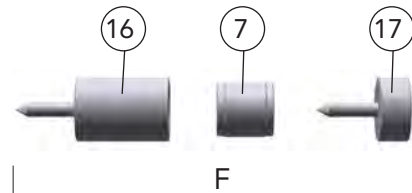
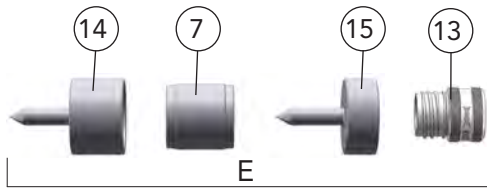
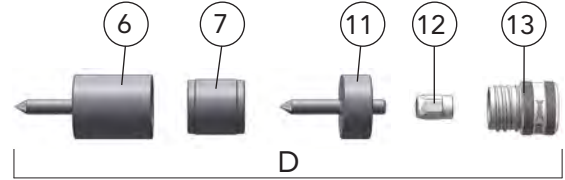
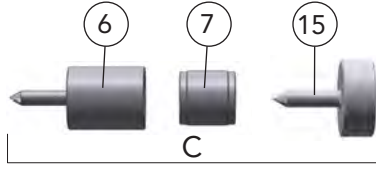
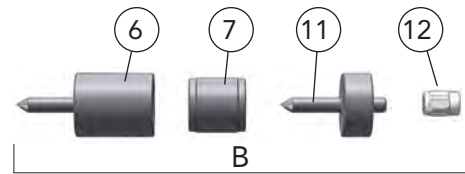
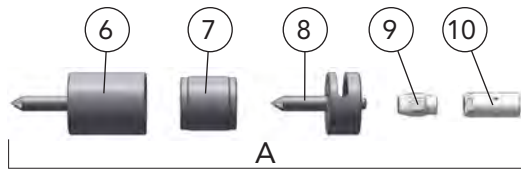
Description	Part name	Part number
1 Support set, fixing and gauge support	DIX PVS 100	685302105
2 Set up pin, for contact tips with outside diameter: 6 mm	DIX PVL 106	685302115
Set up pin, for contact tips with outside diameter: 8 mm	DIX PVL 108	685302114
3 Torch adapter	DIX PVP 100	685303112
4 Base plate, for Checking jig PV 100	DIX PVB 100	685301101
5 Base plate, for Checking jig PV 100 XL	DIX PVB 100 XL	685311100
6 Base plate, for Checking jig PV 150	DIX PVB 150	685301151
7 Base plate, for Checking jig PV 150 XL	DIX PVB 150 XL	685311150
8 Base plate, for Checking jig PV 160	DIX PVB 160	685301160
9 Base plate, for Checking jig PV 160 XL	DIX PVB 160 XL	685311160
10 Base plate, for Checking jig PV 158/003	DIX PVB 158/003	68530115802
11 Torch adapter	DIX PVP 101	685303114
12 Base plate, for Checking jig PV 100 F	DIX PVB 100 F	685301103
13 Base plate, for Checking jig PV 158 F	DIX PVB 158 F	68530115801
14 SAS - Adapter	DIX PVA 100	685303160
15 Base plate, for Checking jig PV 200	DIX PVB 200	685301201
16 Base plate, for Checking jig PV 200 XL	DIX PVB 200 XL	685301202
17 Base plate, for Checking jig PV 250	DIX PVB 250	685301251
18 Base plate, for Checking jig PV 250 XL	DIX PVB 250 XL	685301203



# Checking and aligning system for torch necks MIG/MAG

## Aligning sets

### Spare and wear parts



Description	Part name	Part number
A Aligning set	DIX JS 350/520	685305200
B Aligning set	DIX JS 540	685305210
C Aligning set	DIX JS 540/001	685305240
D Aligning set	DIX JS 560	685305220
E Aligning set	DIX JS 570	685305250
F Aligning set	DIX JS 5500	685305290
G Aligning set	DIX JS 3700	685305260
H Aligning set	DIX JS 390/590	685305230
I Aligning set	DIX JS 5800	685305280
6 Justierzylinder	DIX JSZ 104	685305201
7 Justieradapter	DIX JSA 100	685305211
8 Justierlehre	DIX JSL 106	685305221
9 Spannmutter	DIX 4-1-MAS	6390452000
10 Zentriersockel	DIX CS 300	6390433000
11 Justierlehre	DIX JSL 108	685305222
12 Spannmutter	DIX 4-2-MAS	6390454000
13 Schraubadapter	DIX SAD 2-404/540	628140000
14 Justierzylinder	DIX JSZ 107	685305202
15 Justierlehre	DIX JSL 109 M8	685305224
16 Justierzylinder	DIX JSZ 5500	685305206
17 Justierlehre	DIX JSL 5500	685305227
18 Justierlehre 3700	DIX JSL 110	685305225
19 Justieradapter	DIX JSA 101	685305212
20 Justierlehre	DIX JSL 107	685305223
21 Justieradapter	DIX JSA 5800	685305281



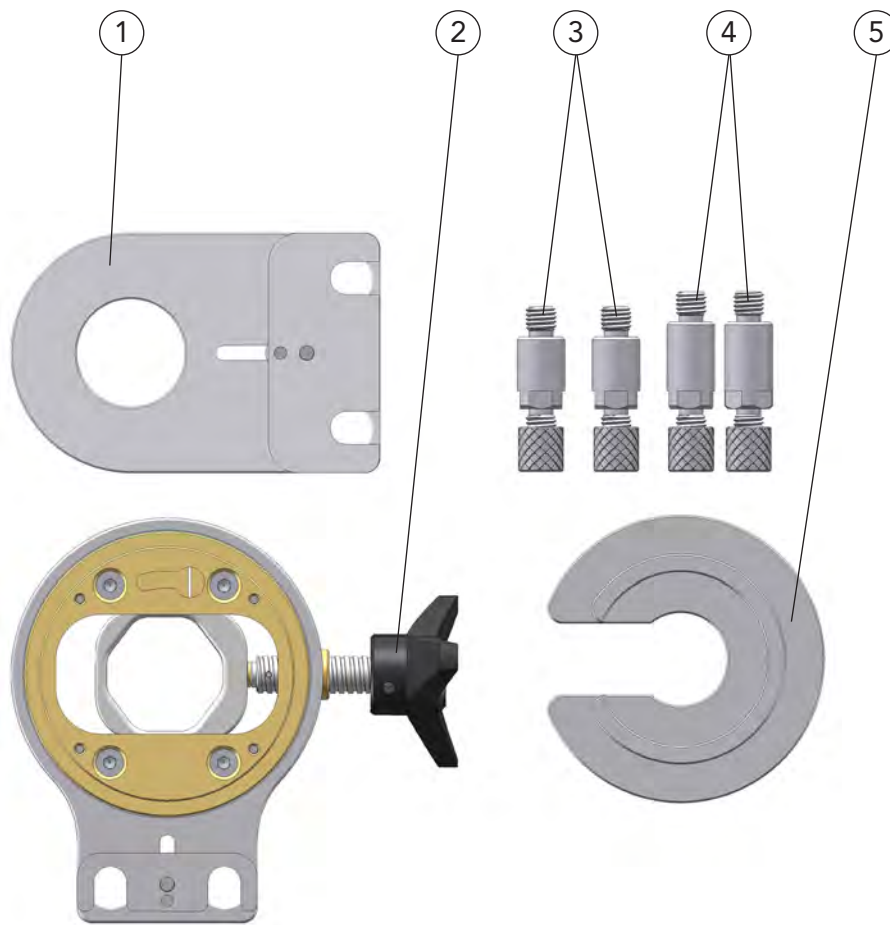
# Checking and aligning system for torch necks MIG/MAG

## Aligning modul DIX JM 100

### Standard, L and XL torch necks



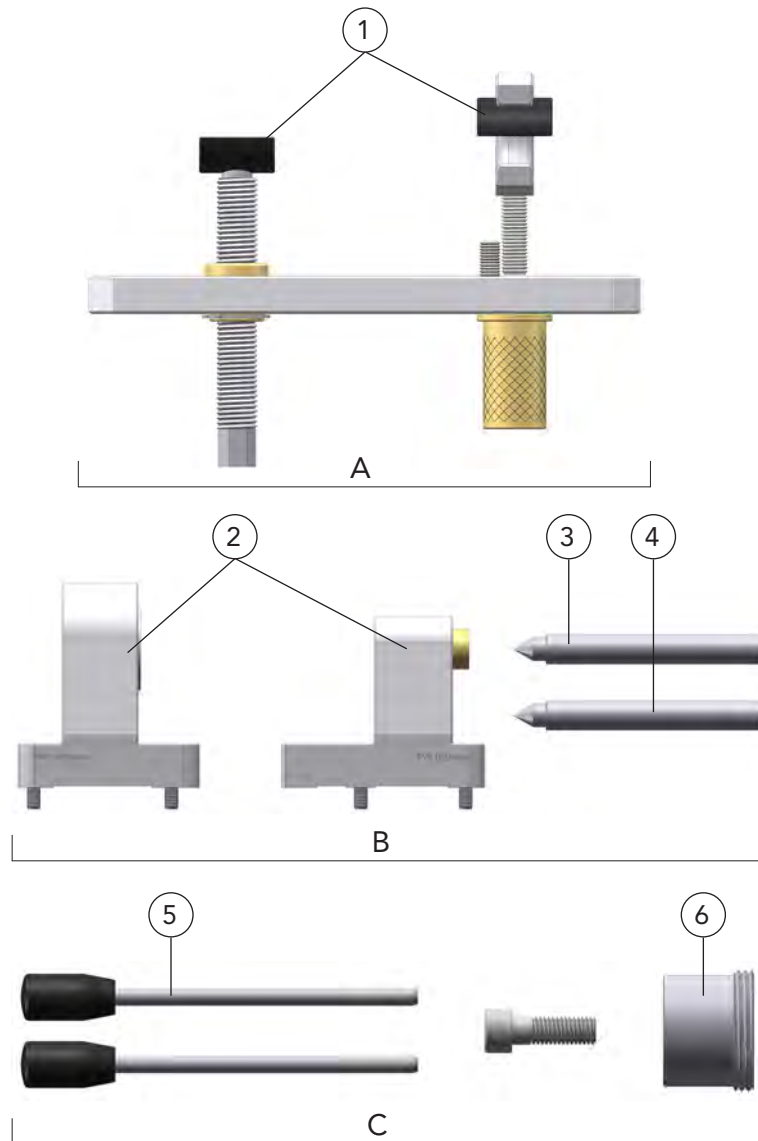
#### Spare parts and wear parts



Description	Part name	Part number
1 Aligning bracket	DIX JH 100	685305120
2 Aligning tool	DIX JW 100	685305110
3 Aligning pin - H	DIX JBH 100	685305150
4 Aligning pin - W	DIX JBW 100	685305140
5 Aligning socket	DIX JB 100	685305130



# Checking and aligning system for torch necks MIG/MAG Straightening set DIX PVR 102, Support set DIX PVS 102, Torch adapter DIX PVP 102 Spare and wear parts



Benennung	Bestellbezeichnung	Artikelnummer
A Straightening set	DIX PVR 102	685305160
B Support set	DIX PVS 102	685302117
C Torch adapter complete	DIX PVP 102	685303115
1 Pressure shell	DIX PVR 102 D	68530516013
2 Support set, fixing and gauge support	DIX PVS 102	685302117
3 Set up pin, for contact tips with outside diameter: 6 mm	DIX PVL 106	685302115
4 Set up pin, for contact tips with outside diameter: 8 mm	DIX PVL 108	685302114
5 Locking pin, complete	DIX PVP 102 A	685302119
6 Torch adapter	DIX PVP 100	685303112

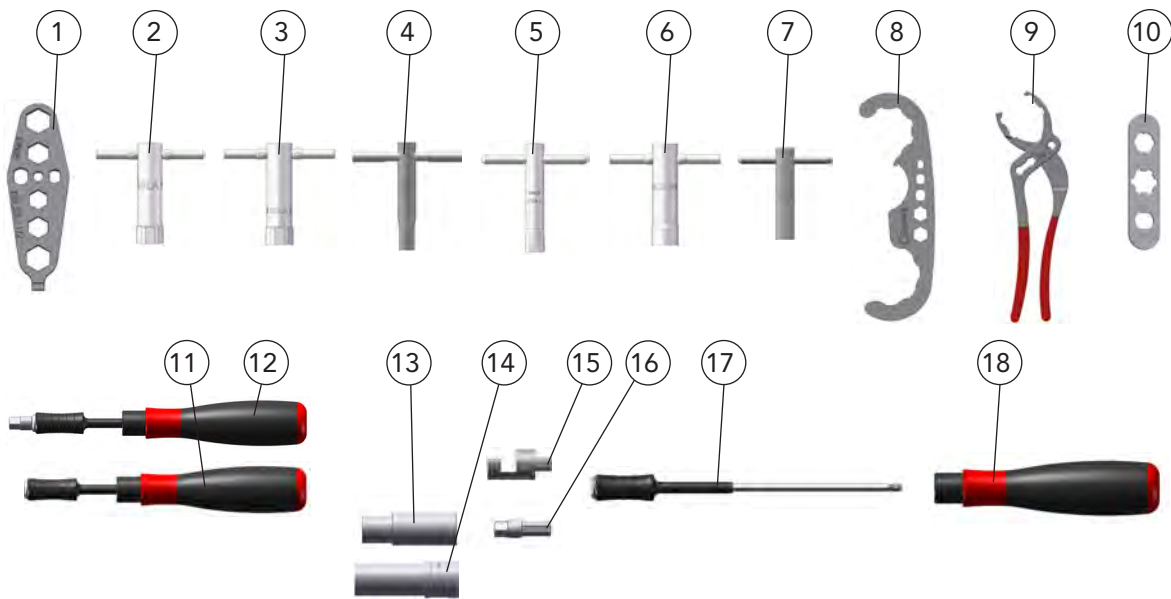
► Variants deviating of the standard fittings on request.



# Service tools

## For robotic and half automatic torches

### MIG/MAG, TIG



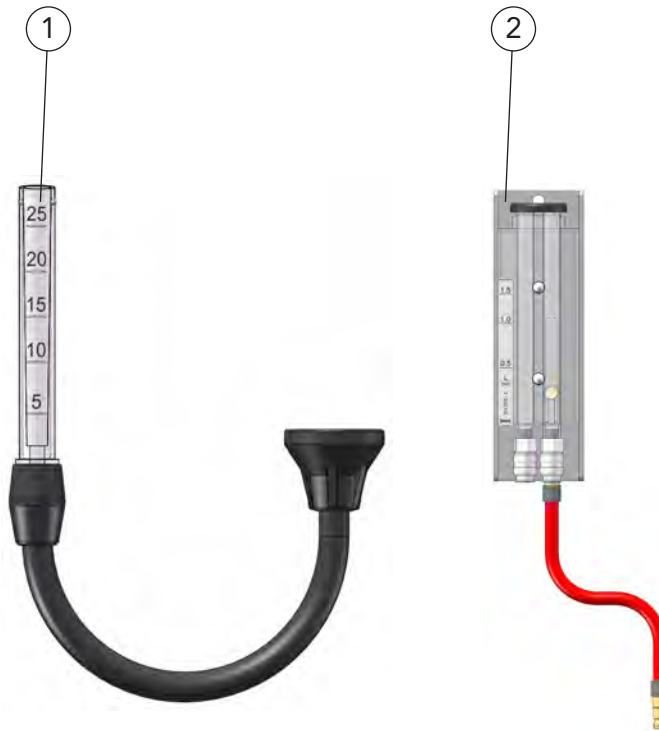
Description	Part name	Part number
1 Special spanner, for tighten M6 / M8 contact tips and tip adapters	DIX SSL 1/2	628010012
2 Socket spanner, for tighten contact tips DIX 3-1-xx SA(R) and clamp nut DIX 4-1-MAS	DIX SSLA 1	618010005
3 Socket spanner, for tighten contact tips DIX 3-2-xx SA(R) and clamp nut DIX 4-2-MAS	DIX SSLA 2	628010005
4 Socket spanner, for tighten contact tips DIX 3-2-xx (CR-ZR) (M6)	DIX STLA 2 M6	628010001
5 Socket spanner, for tighten contact tips DIX 3-2-xx M8 (CR-ZR)	DIX STLA 3 M8	6380101080
6 Socket spanner, for tighten contact tips DIX 3-1-xx SA(R) and center clamp nut DIX CS 300	DIX SCS 300	638010003
7 Socket spanner, for tighten contact tips DIX 3-3-55xx (M9)	DIX STLA 3 M9	6380101081
8 Hook spanner, for tighten the MIG/MAG, TIG robotic, torch heads, automatic torch sets and contact tips	DIX SLAT 4	6380160001
9 Pliers, for tighten the MIG/MAG, TIG robotic, torch heads	DIX MET	628030003
10 Gas diffuser wrench	DIX GVTS 100	628010002
11 Torque wrench 1,1 Nm (without torque bit), for tighten contact tips	DIX DMS 100	638400002
12 Torque wrench 6,0 Nm (without torque bit), for tighten clamp nut at plugged contact tips	DIX DMS 101	638400012
<b>Spare parts and wear parts for torque wrench Pos. 11+12</b>		
13 Torque bit, for Pos. 12 and plugged contact tips DIX 3-1-x.x SA(SR)	DIX DMB 100-SA1	638400008
14 Torque bit, for Pos. 12 and plugged contact tips DIX 3-2-x.x SA(SR)	DIX DMB 100-SA2	638400015
15 Torque bit, for Pos. 11 and screwed contact tips M6	DIX DMB 100-M6	638400003
Torque bit, for Pos. 11 and screwed contact tips M8	DIX DMB 100-M8	638400005
16 Adapter, for Pos. 17 in conjunction with Pos. 13+14	DIX DMA 101-1/4"	638400011
17 Torque extension, for Pos. 18	DIX DMV 100	638400004
18 Torque transmitter, for tighten contact tips	DIX DMG 100-1.1 Nm	638400001
Torque transmitter, for tighten the clamp nut at plugged contact tips	DIX DMG 100-6.0 Nm	638400010





## Service tools

### For robotic and half automatic torches MIG/MAG, TIG



	Description	Part name	Part number
1	Gas flow meter For robotic and half automatic torches	DIX GMA 2	628080005
2	Flow meter For measuring coolant flow of liquid cooling units.	DIX DFZ 2	628091000



# Digital Tacho Control

## Wire measuring unit

### MIG/MAG, TIG



Technical data:	
Digital Tacho Control	DTC 100
m/min	0.10-1999
ft/min	0.40-6550
in/min	4.00-78700
m/sec	0.10-33.30
ft/sec	0.10-109
m	0.00-99999
ft	0.00-99999
in	0.00-99999
Speed:	0,10-19999 U/min
Measurement precision:	± 0.02 % / ± 1 digit U/min
Maximum ambient temperature	- 20-70° C
Automatic shut-off after 30 sec	



- Advantage**
- ▶ Quality control in welding production
  - ▶ Tool for creating and documenting welding procedure specifications (WPS) and welding procedure qualification (WPAR)
  - ▶ Calculation of wire consumption at the welding production
  - ▶ Important tool at the welder training and carrying out of welding experiments
  - ▶ Evidence at the calibration of welding equipment

- Properties**
- ▶ Calibration certificate for DIN EN ISO 9001:2000
  - ▶ Detecting of rotation speed, wire speed, distance measurement, welding speed and amount of wire
  - ▶ Optical measuring with light or mechanical measuring with adapter

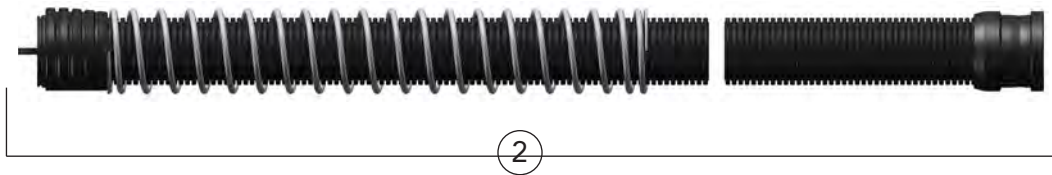
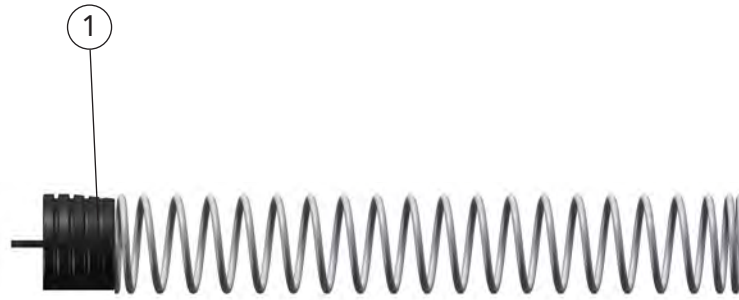
Description	Part name	Part number
Digital Tacho Control	DIX DTC 100	718163100



## Bend protection

For robotic and half automatic torch heads MIG/MAG

Torch sets ME(P)T(T) 310 (371) / ME(P)T(T)Z 600 (671) (WB 1)



Description	Part name	Part number
1 Bend protection	DIX DIX 25-3-601 ME	6392526001
2 Cover hose set	DIX DIX VL 233-__	639236011-__

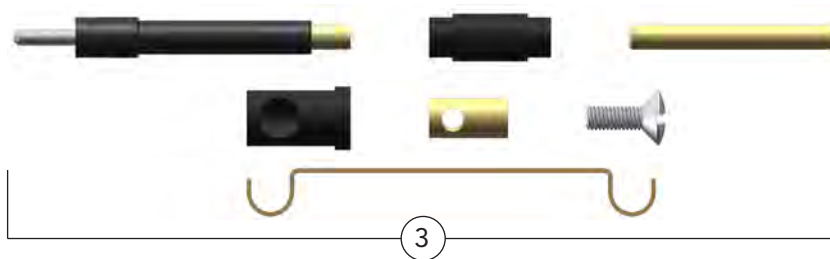
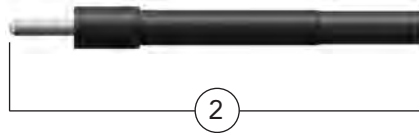
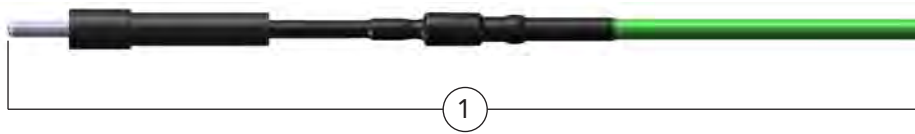
► Bend protection can be retrofitted to existing torch sets with a cover hose set DIX VL 230-\_\_.



# Measuring sensor set, Contact sets

## For robotic and automatic torches MIG/MAG

### Torch sets ME(P)T(T)(Z) 310(600), RET(Z) 310(610)



Description	Part name	Part number
1 Contact set Fitting for robotic and automatic torch sets with sensor function through gas nozzle.	DIX K 150 ME	639153040
2 Contact set Fitting for torch body DIX MEK 300/600 with sensor function through gas nozzle.	DIX K 300/600 MEK	639350008
3 Contact set Fitting for torch bracket DIX MEP 200 with sensor function through gas nozzle.	DIX K 300/600 MEP	639350001
4 Measuring sensor set Fitting for robotic and automatic torch sets with sensor function for welding voltage measurement.	DIX M 150 ME	639153041

► All sets only ready-installed.



For notes:

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07

WEAR PARTS

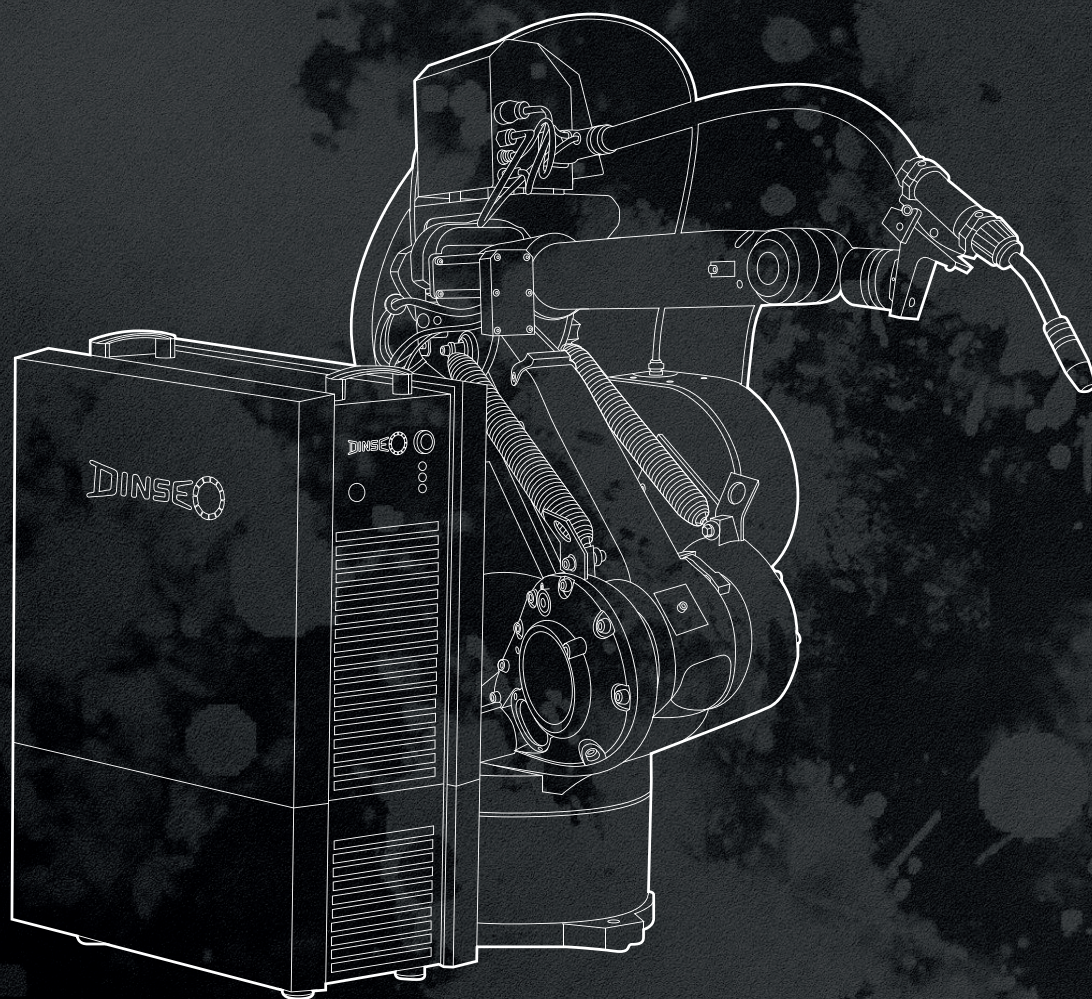
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# UPGRADE FOR YOUR ROBOT SYSTEM



## RETROFIT

### Rejuvenation for your robot system

- ▶ Easy retrofitting without prolonged downtime
- ▶ Boost in productivity
- ▶ Increase in system efficiency
- ▶ Retrofit packages tailored to the application
- ▶ Perfectly matched components
- ▶ Complete retrofit system from a single source

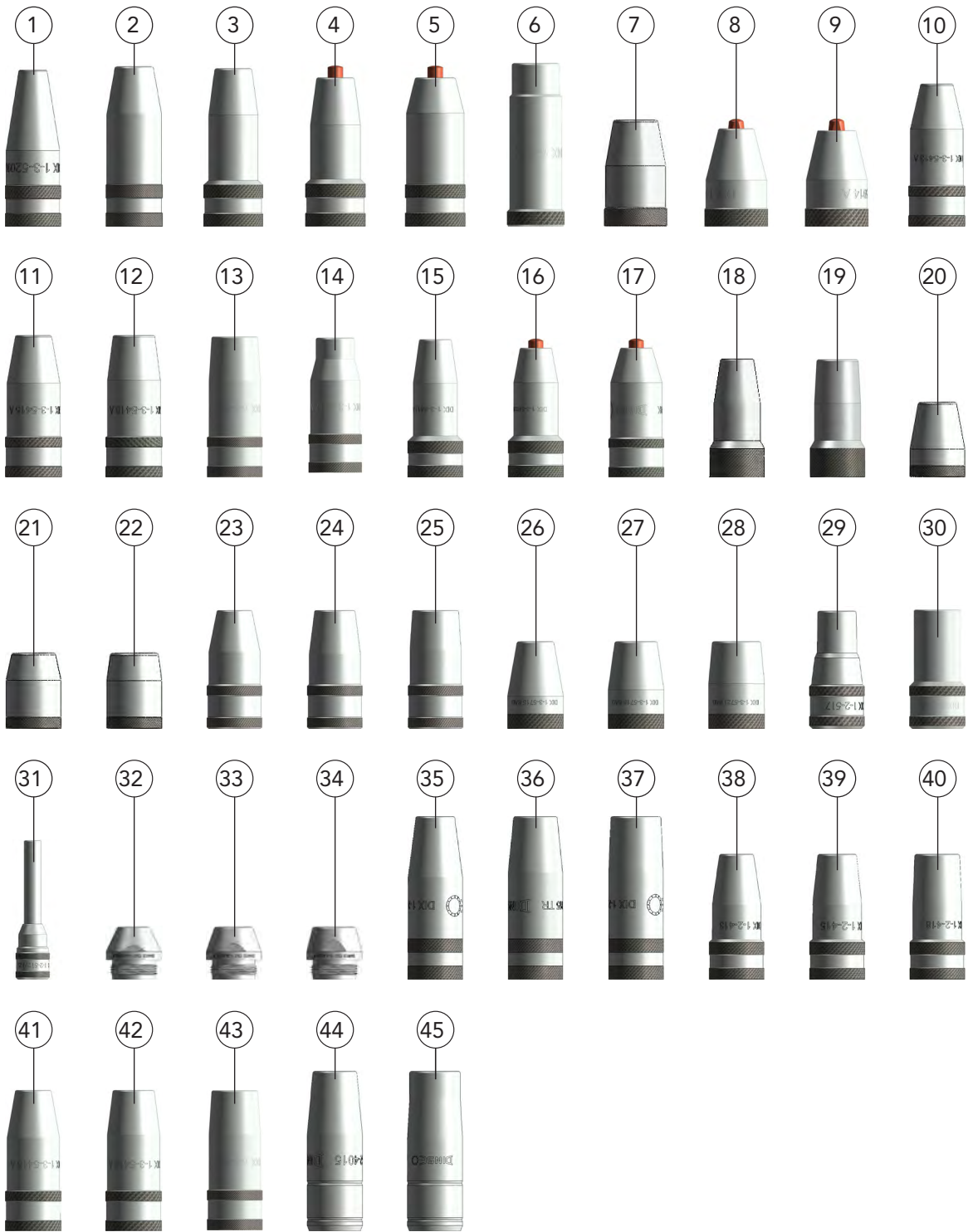


# Gas nozzles

## For robotic and half automatic torch heads

### MIG/MAG

Wearparts



7



# Gas nozzles

## For robotic and half automatic torch heads

### MIG/MAG



	Description	Dimensions (mm)	Part name	Part number	For use with
1	Gas nozzle	L 68/OD 23/ID 9	DIX 1-3-5209 A	6390152090	
2	Gas nozzle	L 68/OD 23/ID 12	DIX 1-3-5212 A	6390152120	
	Gas nozzle	L 68/OD 23/ID 15	DIX 1-3-5215 A	6390152150	
	Gas nozzle	L 68/OD 23/ID 18	DIX 1-3-5218 A	6390152180	
3	Gas nozzle	L 68/OD 20/ID 11	DIX 1-3-5211 AR	6390152115	
	Gas nozzle	L 68/OD 20/ID 12	DIX 1-3-5212 AR	6390152125	
	Gas nozzle	L 68/OD 20/ID 15	DIX 1-3-5215 AR	6390152155	MET(R) 35_, MET 32_-, MFTZ 52_-, METZ 52_-(L)(XL)
4	Gas nozzle	L 63/OD 20/ID 11	DIX 1-3-5211 AKR	6390152116	
	Gas nozzle	L 63/OD 20/ID 12	DIX 1-3-5212 AKR	6390152126	
5	Gas nozzle	L 63/OD 23/ID 12	DIX 1-3-5212 AK	6390152121	
	Gas nozzle	L 63/OD 23/ID 13	DIX 1-3-5213 AK	6390152131	
	Gas nozzle	L 63/OD 23/ID 15	DIX 1-3-5215 AK	6390152151	
6	Gas nozzle	L 68/OD 22/ID 16	DIX 1-3-5216	6390190002	
7	Gas nozzle	L 41/OD 27/ID 14	DIX 1-3-5914 A	6390159140	
	Gas nozzle	L 46/OD 27/ID 15	DIX 1-3-5915 A	6390159150	
	Gas nozzle	L 46/OD 27/ID 18	DIX 1-3-5918 A	6390159180	MET(R) 39_, MET 39_-, MFTZ 59_-, METZ 59_-(L)(XL)
8	Gas nozzle	L 42/OD 27/ID 11	DIX 1-3-5911 A	6390159110	
9	Gas nozzle <sup>1</sup>	L 41/OD 27/ID 14	DIX 1-3-5914	6390159149	
10	Gas nozzle <sup>2</sup>	L 76/OD 28/ID 13	DIX 1-3-5413 A	6390154130	
11	Gas nozzle <sup>2</sup>	L 76/OD 28/ID 15	DIX 1-3-5415 A	6390154150	
12	Gas nozzle <sup>2</sup>	L 76/OD 28/ID 18	DIX 1-3-5418 A	6390154180	
13	Gas nozzle <sup>2</sup>	L 76/OD 28/ID 21	DIX 1-3-5421 A	6390154210	
14	Gas nozzle <sup>2</sup>	L 76/OD 25/ID 15	DIX 1-3-5415 ARZ	6390154154	
	Gas nozzle <sup>2</sup>	L 76/OD 28/ID 17	DIX 1-3-5417 A	6390154170	MET 37_-, METZ 54x (L)(XL), METZ 64_-(L)(XL), MFTZ 54_-, MBTZ 54_-
15	Gas nozzle <sup>2</sup>	L 76/OD 24/ID 13	DIX 1-3-5413 AR	6390154135	
	Gas nozzle <sup>2</sup>	L 76/OD 24/ID 15	DIX 1-3-5415 AR	6390154155	
	Gas nozzle <sup>2</sup>	L 76/OD 24/ID 18	DIX 1-3-5418 AR	6390154185	METZ 56_-(L)(XL), MMZ 306 <sup>2</sup>
16	Gas nozzle <sup>2</sup>	L 71/OD 24/ID 13	DIX 1-3-5413 AKR	6390154136	
	Gas nozzle <sup>2</sup>	L 71/OD 24/ID 15	DIX 1-3-5415 AKR	6390154156	
17	Gas nozzle <sup>2</sup>	L 71/OD 28/ID 13	DIX 1-3-5413 AK	6390154131	
	Gas nozzle <sup>2</sup>	L 71/OD 28/ID 15	DIX 1-3-5415 AK	6390154151	
	Gas nozzle <sup>2</sup>	L 71/OD 28/ID 18	DIX 1-3-5418 AK	6390154181	
18	Gas nozzle	L 54/OD 21/ID 11	DIX 1-3-5811 A	6390158110	
19	Gas nozzle	L 54/OD 21/ID 15	DIX 1-3-5815 A	6390158150	METZ 58_-(L)(XL)
20	Gas nozzle <sup>3</sup>	L 32/OD 28/ID 13	DIX KMG 115 TR	628040315	
21	Gas nozzle <sup>3</sup>	L 32/OD 28/ID 18	DIX KMG 118 TR	628040318	METZ 56_-(L)(XL)
22	Gas nozzle <sup>3</sup>	L 32/OD 28/ID 21	DIX KMG 121 TR	628040321	
23	Gas nozzle	L 65/OD 28/ID 15	DIX 1-3-5715 A	6390157150	
24	Gas nozzle	L 65/OD 28/ID 18	DIX 1-3-5718 A	6390157180	
25	Gas nozzle	L 65/OD 28/ID 21	DIX 1-3-5721 A	6390157210	
26	Gas nozzle <sup>4</sup>	L 47/OD 28/ID 15	DIX 1-3-5715 SAD	6390257157	
27	Gas nozzle <sup>4</sup>	L 47/OD 28/ID 18	DIX 1-3-5718 SAD	6390257187	METZ 57_-(L)(XL), MFTZ 57_-, MMZ 305
28	Gas nozzle <sup>4</sup>	L 47/OD 28/ID 21	DIX 1-3-5721 SAD	6390257217	
29	Gas nozzle	L 65/OD 30/ID 17	DIX 1-2-517	629010517	
30	Gas nozzle	L 65,1/OD 30/ID 21	DIX 1-2-521	629010521	
31	Gas nozzle	L 125/OD 30/ID 11	DIX 1-2-512/125	6290191528	
32	Gas nozzle <sup>5</sup>	L 20/OD 33,5/ID 15	DIX 1-3-5515 A	6390155150	
33	Gas nozzle <sup>5</sup>	L 20/OD 33,5/ID 18	DIX 1-3-5518 A	6390155180	METZ 55_-(L)(XL), M.Flex 44_ _SAZ <sup>6</sup>
34	Gas nozzle <sup>5</sup>	L 20/OD 33,5/ID 21	DIX 1-3-5521 A	6390155210	
35	Gas nozzle	L 72/OD 24/ID 13	DIX 1-2-313 TR	6290103130	
36	Gas nozzle	L 72/OD 24/ID 15	DIX 1-2-315 TR	6290103150	MMZ 330
37	Gas nozzle	L 72/OD 24/ID 16	DIX 1-2-318 TR	6290103180	
38	Gas nozzle	L 62/OD 27/13	DIX 1-2-413	629010413	
39	Gas nozzle	L 62/OD 27/15	DIX 1-2-415	629010415	MMZ 304
40	Gas nozzle	L 62/OD 27/18	DIX 1-2-418	629010418	
41	Gas nozzle <sup>7</sup>	L 76/OD 28/ID 15	DIX 1-3-5415 A	6390154150	
42	Gas nozzle <sup>7</sup>	L 76/OD 28/ID 18	DIX 1-3-5418 A	6390154180	
43	Gas nozzle <sup>7</sup>	L 76/OD 28/ID 21	DIX 1-3-5421 A	6390154210	M.Flex 44_ _SAZ
44	Gas nozzle <sup>8</sup>	L 70/OD 24/ID 15	DIX 1-2-4015	629010015	
45	Gas nozzle <sup>8</sup>	L 70/OD 24/ID 18	DIX 1-2-4018	629010018	

<sup>1</sup> with spatter protecting ring

<sup>2</sup> Suitable for METZ 56\_-(L)(XL) and MMZ 306 only in conjunction with screw adapter DIX SAD 2-404/540, page 377.

<sup>3</sup> Cooling jacket DIX KM 100 required, page 377

<sup>4</sup> Screw adapter DIX SAD 5700 required, page 377

<sup>5</sup> Cooling jacket DIX 5-3-550 required, page 377

<sup>6</sup> Suitable for M.Flex 44\_ \_SAZ only in conjunction with cooling jacket DIX KM 155, page 377

<sup>7</sup> Screw adapter DIX SAD 2-404/540 required, page 377

<sup>8</sup> Clamping adapter DIX KAD 4040 required, page 377

Wearparts

7



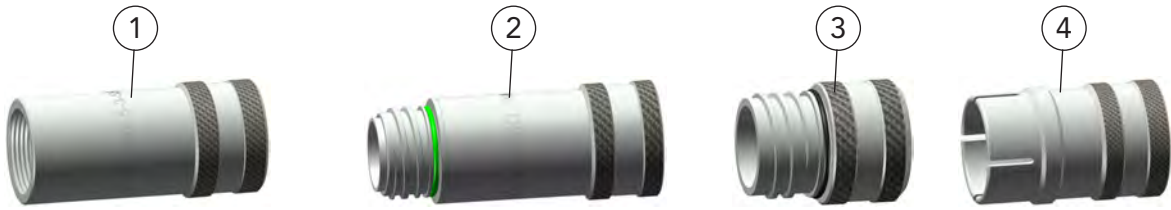




# Cooling jackets and screw adapters

## For robotic and half automatic torch heads

### MIG/MAG



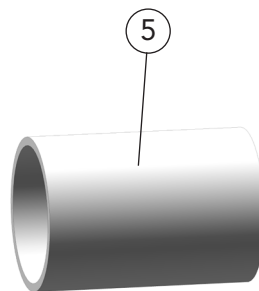
Application sample

Part name	Part number	For use with
Cooling jacket		
1 DIX 5-3-550	6390555000	METZ 55_ (L)(XL) with gas nozzle 1-3-55_
2 DIX KM 100	628040301	METZ 56_ (L)(XL), MMZ 306 with gas nozzle KMG 1_
DIX KM 155	628040304	M.Flex 44_ SAZ
3 Screw adapter		
DIX SAD 5700	628145700	METZ 57_ (L)(XL), MFTZ 57xx with gas nozzle 1-3-57_ SAD
DIX SAD 2-404/540	628140000	MMZ 306, METZ 56_ (L)(XL), M.Flex 44_ SAZ with gas nozzle 1-3-54_
Clamp adapter		
4 DIX KAD 4040	629051400	M.Flex 44_ SAZ

# Insulators

## For gas nozzles

### MIG/MAG



Application sample

Part name	Part number	For use with
5 DIX 2-3-520	6390252000	1-3-5209 A 1-3-5212 AK
DIX 2-3-500	6390250000	1-3-5413 A 1-3-5413 AK Cooling jacket 5-3-550
DIX KME 110	628040303	Cooling jacket KM 100

Wearparts

7

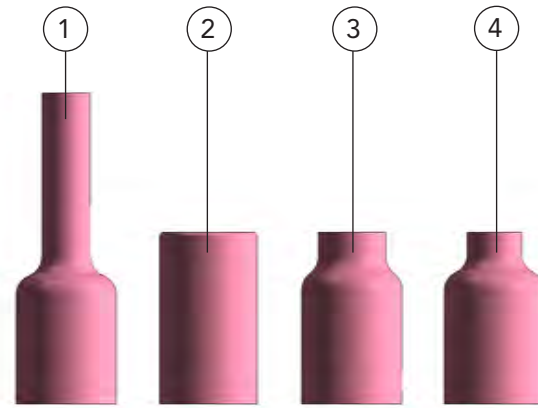




# TIG-gas nozzles

## For robotic and half automatic torch heads

### TIG



Wearparts

Description	Abmessungen	Part name	Part number	For use with
1 Gas nozzle	L 76/OD 24,7/ID 8.5	DIX GD 405 L	649015004	TAZ 400, TAZ 8000, TETZ 400, TETZ 8000, TETZ 400 L, TETZ 8000 L, TETZ 85xx
2 Gas nozzle	L 42/OD 24,7/ID 9.5	DIX GD 406	649015001	
3 Gas nozzle	L 42/OD 24,7/ID 12.5	DIX GD 408	649015002	
4 Gas nozzle	L 42/OD 24,7/ID 19.5	DIX GD 412	649015003	

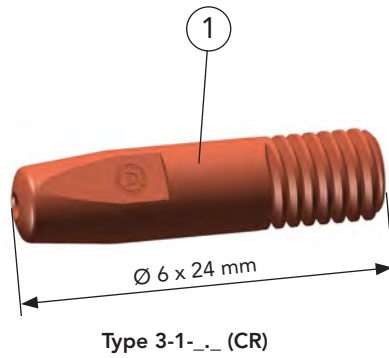
7



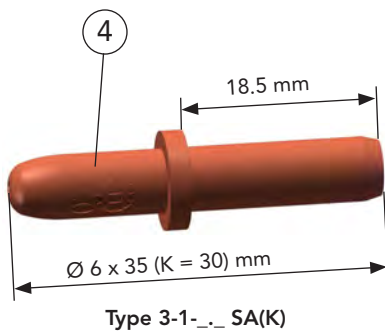
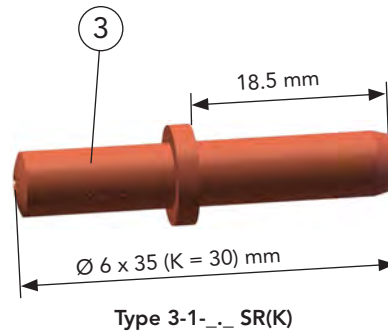
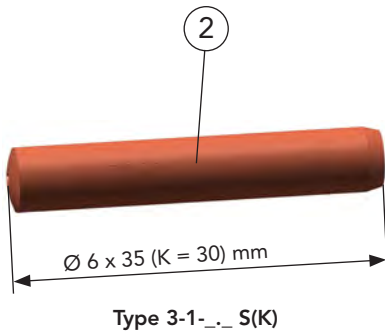
# Contact tips

## For robotic and half automatic torch heads

### MIG/MAG



Part name	Part number	For use with
1 DIX 3-1-__ 3-1-__ CR	6190300__ 6190330__	MET(R) 35_, METZ 52_ (L)(XL), METZ 58_ (L)(XL), MFTZ 52_ , MMZ 330



Part name	Part number	For use with
2 DIX 3-1-__ S	6190374__	
DIX 3-1-__ SK	6190376__	
3 DIX 3-1-__ SR	6190354__	MET(R) 35_, METZ 52_ (L)(XL), MFTZ 52_
DIX 3-1-__ SRK	6190356__	
4 DIX 3-1-__ SA	6190355__	
DIX 3-1-__ SAK	6190357__	

\_\_ Define here the wire diameter, e.g.: 12 = 1.2 mm or 16 = 1.6 mm.

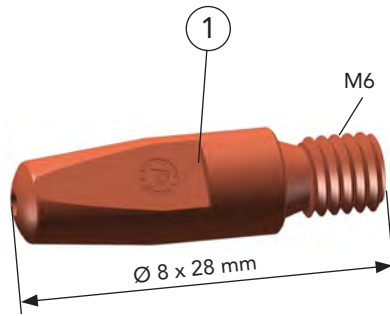
Common wire diameters: 0.8 mm, 1.0 mm, 1.2 mm, 1.4 mm, 1.6 mm und 2.0 mm



# Contact tips

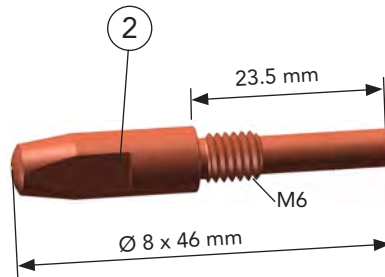
## For robotic and half automatic torch heads

### MIG/MAG



Type 3-2-\_\_ (CR-ZR)

Part name	Part number	For use with
1 DIX 3-2-__	6290300__	MMZ 330, MET(R) 35__, MET(R) 39__, METZ 52_ (L)(XL), METZ 59_ (L)(XL),
DIX 3-2-__ CR-ZR	6290330__	METZ 54_ (L)(XL), MFTZ 52__, MFTZ 59__, MFTZ 54__, MBTZ 54__

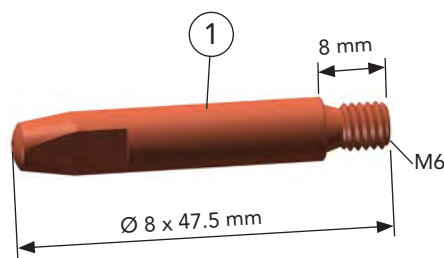


Type 3-2-\_\_/46

Part name	Part number	For use with
2 DIX 3-2-__/46	6290346__	DIX MET 39__

\_\_ Define here the wire diameter, e.g.: 12 = 1.2 mm or 16 = 1.6 mm.

Common wire diameters: 0.8 mm, 1.0 mm, 1.2 mm, 1.4 mm, 1.6 mm und 2.0 mm



Type 3-2-\_\_/47.5

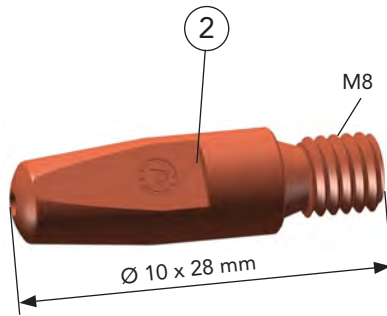
Part name	Part number	For use with
1 DIX 3-2-__/47.5	6290342__	DIX MET 32__, DIX MET 37__



# Contact tips

## For robotic and half automatic torch heads

### MIG/MAG

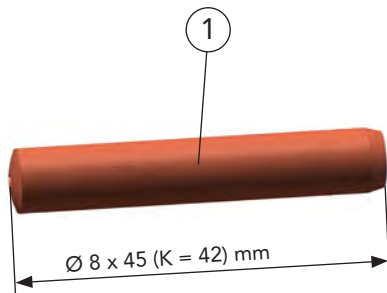


Type 3-2-\_\_ M8 (CR-ZR)

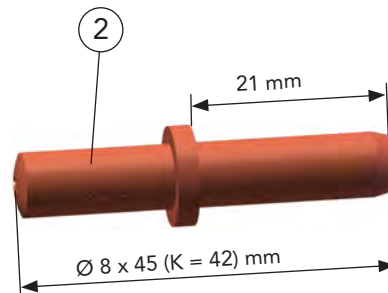
Part name	Part number	For use with
2 DIX 3-2-__ M8		MMZ 330, MMZ 304, MMZ 305, MMZ 306, MET(R) 35_, METZ 54_(L)(XL), METZ 56_(L)(XL), METZ 57_(L)(XL), METZ 64_(L)(XL), MFTZ 59_, MFTZ 54_, MFTZ 57_, MBTZ 54_
DIX 3-2-__ M8 CR-ZR		

\_\_ Define here the wire diameter, e.g.: 12 = 1.2 mm or 16 = 1.6 mm.

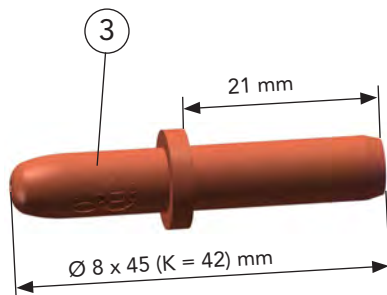
Common wire diameters: 0.8 mm, 1.0 mm, 1.2 mm, 1.4 mm, 1.6 mm und 2.0 mm



Type 3-2-\_\_ S(K)



Type 3-2-\_\_ SR(K)



Type 3-2-\_\_ SA(K)

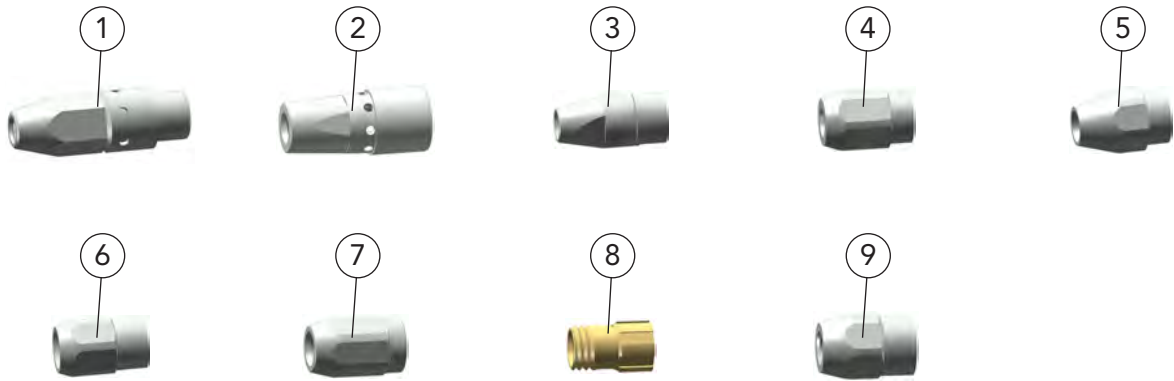
Part name	Part number	For use with
1 DIX 3-2-__ S	6290374__	MMZ 306, METZ 54_(L)(XL), METZ 56_(L)(XL), MFTZ 54_, MBTZ 54_
DIX 3-2-__ SK	6290376__	
2 DIX 3-2-__ SR	6290354__	
DIX 3-2-__ SRK	6290356__	
3 DIX 3-2-__ SA	6290304__	
DIX 3-2-__ SAK	6290306__	

\_\_ Define here the wire diameter, e.g.: 12 = 1.2 mm or 16 = 1.6 mm.

Common wire diameters: 0.8 mm, 1.0 mm, 1.2 mm, 1.4 mm, 1.6 mm und 2.0 mm



## Tip adapters For robotic and half automatic torch heads MIG/MAG



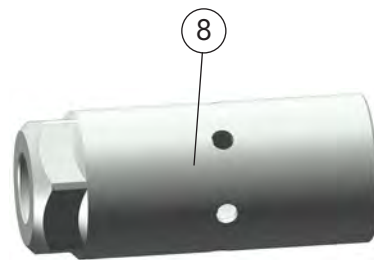
Part name	Part number	For use with
1 DIX 4-2-K M6 DIX 4-2-K M8	629040010 629040110	MMZ 330
2 DIX GS 300 M6 DIX GS 300 M8	629040301 629040302	MET(R) 35_
3 DIX GS 1	618150006	METZ 52_ (L)(XL), MFTZ 52_ _
4 DIX GS 1-K	618150001	METZ 52_ (L)(XL), MFTZ 52_ _
5 DIX GS 1-K/001	618150005	METZ 52_ (L)(XL), MFTZ 52_ _
6 DIX GS 1-K M8	618150004	METZ 52_ (L)(XL), MFTZ 52_ _
7 DIX GS 2-M8	628150008	MMZ 306, METZ 56_ (L)(XL)
8 DIX GS 590/M6 DIX GS 590/M8	639069257313 639069257314	MFTZ 59_ _
9 DIX GS 5800	619040560	METZ 58_ _ (L)(XL)

Wearparts

## Clamp nut, Centering sleeve For robotic and half automatic torch heads MIG/MAG



Application sample



Application sample

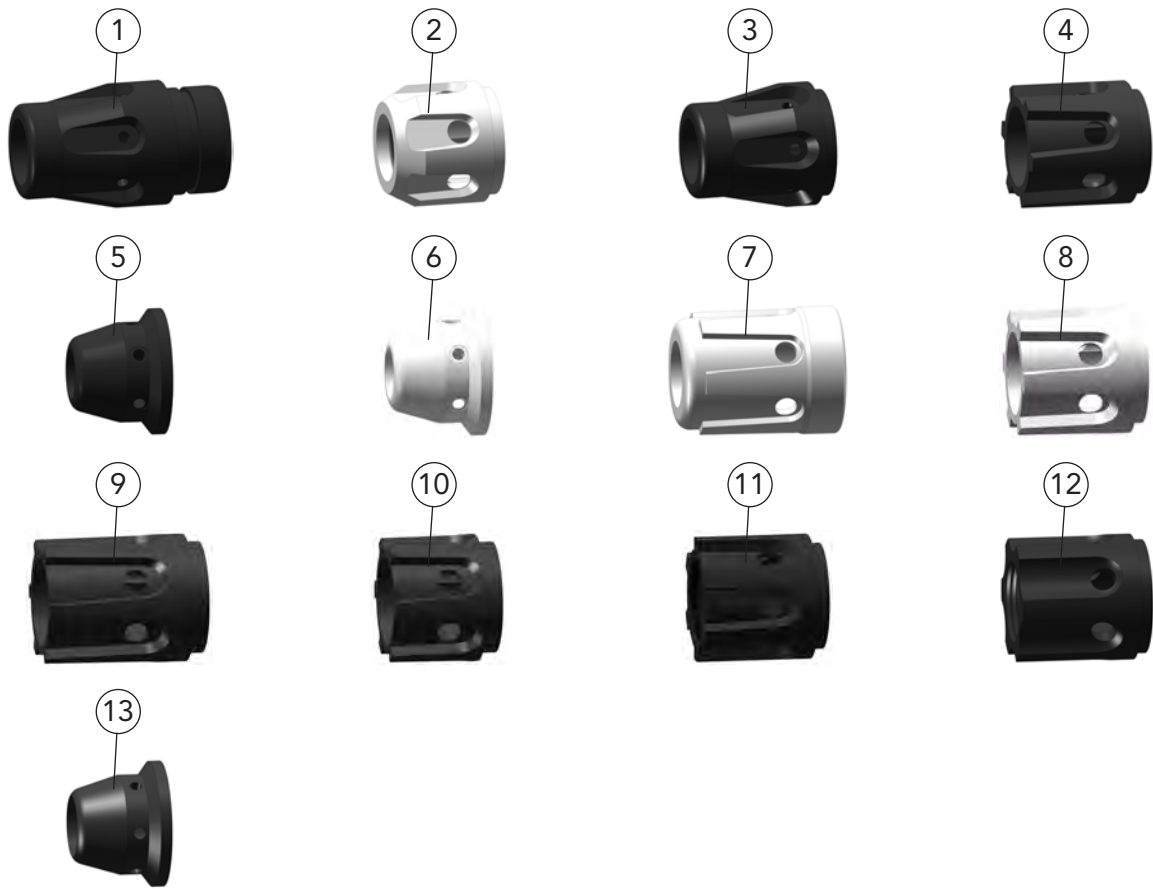
Part name	Part number	For use with
7 Clamp nut		
DIX 4-1-MAS	6390452000	METZ 52_ (L)(XL), MFTZ 52_ _
DIX 4-2-MAS	6390454000	MMZ 306, METZ 54_ (L)(XL), METZ 56_ (L)(XL)
8 Centering sleeve		
DIX CS 300	6390433000	MET(R) 35_



# Gas diffusors

## For robotic and half automatic torch heads

### MIG/MAG



Wearparts

Part name	Part number	For use with
1 DIX 10-2-304	629100324	MMZ 304
2 DIX 10-2-305 K*	6291003051	METZ 57_ (L)(XL), MFTZ 57_ _
3 DIX 10-2-305	6291003052	METZ 57_ (L)(XL), MFTZ 57_ _
4 DIX 10-3-540	6391054000	MMZ 306, METZ 54_ (L)(XL), METZ 56_ (L)(XL), MFTZ 54_ _ , MBTZ 54_ _
5 DIX GVT 590	6391059001	MET(R) 39_ , MET(R) 39_ _ , METZ 59_ (L)(XL), MFTZ 59_ _
6 DIX GVT 590 K*	6391059003	MET(R) 39_ , MET(R) 39_ _ , METZ 59_ (L)(XL)
7 DIX GVT 3200 K*	6391052001	MET 32_ _
8 DIX GVT 3700 K*	63910916072	MET 37_ _
9 DIX 10-1-MAS	619100002	METZ 52_ (L)(XL), MFTZ 52_ _
10 DIX GVT 5800	619100560	METZ 58_ _ (L)(XL)
11 DIX 10-3-540/1607	63910916071	METZ 64_ _ (L)(XL)
12 DIX 10-3-550	6391055000	METZ 55_ _ (L)(XL)
13 DIX GVT 590/001	6391059002	MFTZ 59_ _

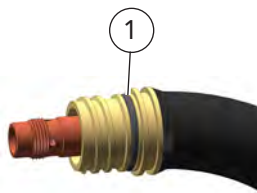
\* Gas diffuser made of ceramic



# O-rings

## For automatic torch sets, robotic- and automatic torch heads

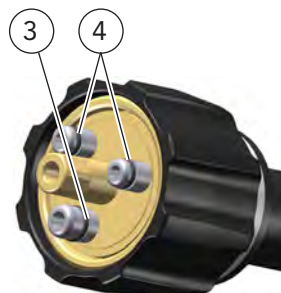
### MIG/MAG



Torch head  
(application sample)



Cooling jacket  
Screw adapter



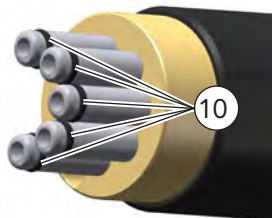
MET(Z) torch head



MBTZ torch head



MFTZ torch head



ECO.torch RET(Z) torch set



Torch set with  
euro connection



Screw adapter



MFTZ2 torch head

Wearparts

	Dimensions	pcs.	Part no.	For use with
1	O-Ring VITON 17.0 x 1.5 mm	(10)	639060004	MET(R) 35x, MET 32xx
	O-Ring VITON 20.0 x 1.5 mm	(10)	629061021	MET 39x, MET 39xx
	O-Ring VITON 22.0 x 2.0 mm	(10)	639060003	MET 37xx, METZ 54x, METZ 64xx, MBTZ 54xx, MFTZ 54xx
	O-Ring 17.0 x 1.5 mm	(10)	639060002	METZ 52x, MFTZ 52xx, MMZ 304
	O-Ring 20.0 x 1.5 mm	(10)	639060001	METZ 59x, MFTZ 59xx
	O-Ring 18.0 x 2.0 mm	(12)	639060005	METZ 56x, METZ 57x, METZ 500/007 TD, METZ 500/010 TD, MFTZ 57xx, MMZ 306, M.Flex 44xx
	O-Ring 23.0 x 2.0 mm	(12)	629900016	METZ 55xx
2	O-Ring VITON 23.0 x 1.5 mm	(10)	629110904	Cooling jacket DIX KM 100 (METZ 560), screw adapter DIX SAD 2-404/540 (METZ 54x, MFTZ 54xx, MBTZ 54xx)
3	O-Ring 5.1 x 1.6 mm	(10)	629061014	every MET- and METZ torch head
4	O-Ring 4.1 x 1.6 mm	(10)	629061013	every METZ torch heads
5	O-Ring 4.0 x 1.0 mm	(10)	629110901	every MBTZ torch heads
6	O-Ring 8.0 x 1.0 mm	(10)	629900270	every MBTZ torch heads
7	O-Ring 4.0 x 1.2 mm	(10)	629900351	every MFTZ torch heads
8	O-Ring 7.0 x 1.5 mm	(10)	639159009	every MFTZ torch heads
9	O-Ring 6.0 x 1.5 mm	(10)	639060008	every MFTZ torch heads
10	O-Ring 5.0 x 1.5 mm	(10)	629061018	ECO.torch RET 330-x N(NE)- and RETZ 630-x N(NE) torch sets
11	O-Ring 4.0 x 1.0 mm	(10)	629110901	every torch sets with euro connection
12	O-Ring VITON 24.0 x 1.0 mm	(10)	639060007	Screw adapter DIX SAD 5700 (METZ 57x, MFTZ 57xx)
13	O-Ring 10,0 x 1,0 mm	(10)	629900404	every MFTZ2 torch heads

7

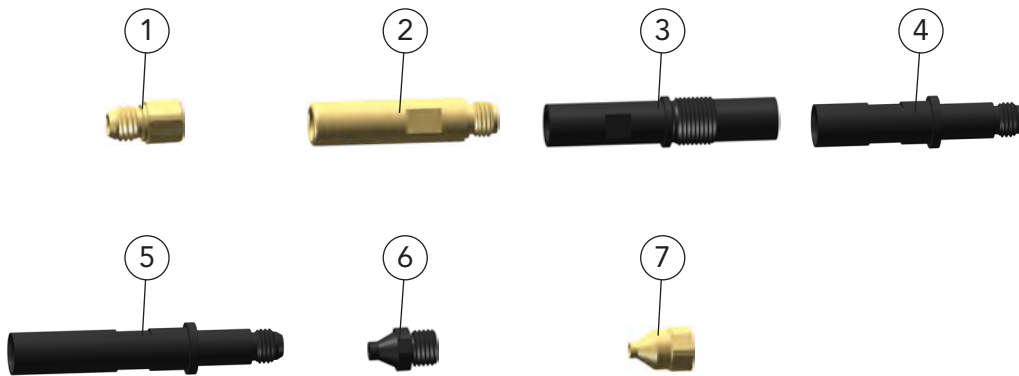




# Connecting pieces, Intake nozzles

## For robotic and half automatic torch heads

### MIG/MAG, TIG



Part name	Part number	For use with
<b>Connecting piece</b>		
1 DIX MES 300/500*	639061500041	MET(R) 35_, MET(R) 39_, MET 32_-, MET 37_-, MET(R) 39_-, METZ 52_ (L)(XL), METZ 59_ (L)(XL), METZ 54_ (L)(XL), METZ 56_ (L)(XL), METZ 57_ (L)(XL), METZ 58_ (L)(XL), METZ 64_ (L)(XL), METZ 55_ (L)(XL)
2 DIX MEPS 300/500**	6390665000	MET(R) 35_, MET(R) 39_, MET 32_-, MET 37_-, MET(R) 39_-, METZ 52_ (L)(XL), METZ 59_ (L)(XL), METZ 54_ (L)(XL), METZ 56_ (L)(XL), METZ 57_ (L)(XL), METZ 58_ (L)(XL), METZ 64_ (L)(XL), METZ 55_ (L)(XL)
3 DIX MEP 151	6391536003	MEPTT 310, MEPTTZ 600, MEPWTTZ 600 SAZ/TA, MEPWTTZ 600 SAZ/EC
4 DIX TES 400***	649066002	TETZ 400 (L)
5 DIX TEPS 400****	649066001	TETZ 400 (L)
<b>Intake nozzle</b>		
6 DIX MEP 152	6391536005	MEPTT 310, MEPTTZ 600, MEPWTTZ 600 SAZ/TA, MEPWTTZ 600 SAZ/EC
7 DIX RET 301	639151003	RET 310 (A), RETZ 610 (A)

\* For torch sets MET(T), MET(T)Z and front drive FD 200 M(E)  
 \*\* With torch bracket MEP 200  
 \*\*\* For TIG torch sets TETZ 600 SAZ  
 \*\*\*\* With TIG torch bracket MEP 200 EW(TW), MEP 201 EW(TW)

Wearparts

7





## Insulating sleeves

For robotic and half automatic torch heads  
MIG/MAG



Part name	Part number	For use with
1 DIX 10-2	629100000	MMZ 330
2 DIX IH 300	6391053000	MET(R) 35_

Wearparts

7



# Contact clamp

## For robotic and automatic torch sets ECO.torch MIG/MAG



Application sample

Description	Part name	Part number
1 Contact clamp Fitting for robotic and automatic torch sets with sensor function through gas nozzle.	DIX K 180 ME	687311011

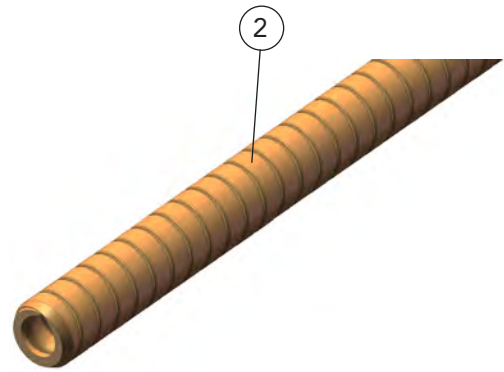
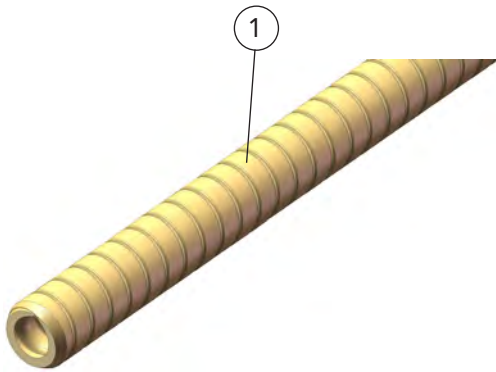
Wearparts

7



# Liner

## For robotic and automatic torches MIG/MAG, TIG



Liner for welding wire of non- and low alloyed steels

Description	Dimension I <sub>D</sub> /length/color	Part name	Part number
1 Liner For wire diameter 0.8 mm	ø 1.5 mm / 50 m brass-plated steel	DIX DS 4/1.5-50	613000100
Liner For wire diameter 1.0 mm (PUSH-PUSH/PULL wire diameter 0.8 mm)	ø 1.8 mm / 50 m brass-plated steel	DIX DS 4/1.8-50	613000200
Liner For wire diameter 1.2 mm (PUSH-PUSH/PULL wire diameter 1.0 mm)	ø 2.2 mm / 50 m brass-plated steel	DIX DS 4/2.2-50	623000300
Liner For wire diameter 1.4 mm (PUSH-PUSH/PULL wire diameter 1.2 mm)	ø 2.4 mm / 50 m brass-plated steel	DIX DS 4/2.4-50	623000400
Liner For wire diameter 1.6 mm (PUSH-PUSH/PULL wire diameter 1.2 mm)	ø 2.9 mm / 50 m brass-plated steel	DIX DS 4/2.9-50	623001500
2 Bronze Liner for wire diameter 1.2 mm, (PUSH-PUSH/PULL wire diameter 1.0 mm)	ø 2,2 mm / 25 m Bronze	DIX DS 4/2,2- 25	623001200

► Liner for other wire diameters on request.

# Liner

## Pre-cut parts



Description	Dimensions ID/length	Part name	Part number
1 Liner	ø 1.5 mm / 0.2 m	DIX DS 4/1.5- 0.2	613000102
Liner	ø 1.5 mm / 3.5 m	DIX DS 4/1.5- 3.5	613000135
Liner	ø 1.5 mm / 5.5 m	DIX DS 4/1.5- 5.5	613000155
Liner	ø 1.5 mm / 7.5 m	DIX DS 4/1.5- 7.5	613000175
Liner	ø 1.5 mm / 8.5 m	DIX DS 4/1.5- 8.5	613000185
Liner	ø 1.5 mm / 10.5 m	DIX DS 4/1.5- 10.5	6130001105
Liner	ø 1.5 mm / 15.5 m	DIX DS 4/1.5- 15.5	6130001155
Liner	ø 1.8 mm / 0.2 m	DIX DS 4/1.8- 0.2	613000202
Liner	ø 1.8 mm / 0.3 m	DIX DS 4/1.8- 0.3	639300001
Liner	ø 1.8 mm / 0.5 m	DIX DS 4/1.8- 0.5	639300004
Liner	ø 1.8 mm / 3.5 m	DIX DS 4/1.8- 3.5	613000235
Liner	ø 1.8 mm / 4.5 m	DIX DS 4/1.8- 4.5	613000245
Liner	ø 1.8 mm / 5.5 m	DIX DS 4/1.8- 5.5	613000255
Liner	ø 1.8 mm / 8.5 m	DIX DS 4/1.8- 8.5	613000285
Liner	ø 1.8 mm / 10.5 m	DIX DS 4/1.8- 10.5	6130002105
Liner	ø 1.8 mm / 12.5 m	DIX DS 4/1.8- 12.5	6130002125
Liner	ø 1.8 mm / 15.5 m	DIX DS 4/1.8- 15.5	6130002155
Liner	ø 2.2 mm / 0.2 m	DIX DS 4/2.2- 0.2	623000302
Liner	ø 2.2 mm / 0.3 m	DIX DS 4/2.2- 0.3	639300002
Liner	ø 2.2 mm / 0.5 m	DIX DS 4/2.2- 0.5	623000305
Liner	ø 2.2 mm / 1.0 m	DIX DS 4/2.2- 1	623000310
Liner	ø 2.2 mm / 7.5 m	DIX DS 4/2.2- 7.5	623000375
Liner	ø 2.2 mm / 8.5 m	DIX DS 4/2.2- 8.5	623000385
Liner	ø 2.2 mm / 10.5 m	DIX DS 4/2.2- 10.5	6230003105
Liner	ø 2.2 mm / 15.5 m	DIX DS 4/2.2- 15.5	6230003155
Liner	ø 2.4 mm / 0.2 m	DIX DS 4/2.4- 0.2	623000402
Liner	ø 2.4 mm / 8.5 m	DIX DS 4/2.4- 8.5	623000485
Liner	ø 2.4 mm / 10.5 m	DIX DS 4/2.4- 10.5	6230004105
Liner	ø 2.4 mm / 15.5 m	DIX DS 4/2.4- 15.5	6230004155
Liner	ø 2.9 mm / 0.2 m	DIX DS 4/2.9- 0.2	623000502
Liner	ø 2.9 mm / 0.25 m	DIX DS 4/2.9- 0.25	6230005025
Liner	ø 2.9 mm / 2.7 m	DIX DS 4/2.9- 2.7	623000527
Liner	ø 2.9 mm / 3.5 m	DIX DS 4/2.9- 3.5	623000535
Liner	ø 2.9 mm / 4.5 m	DIX DS 4/2.9- 4.5	623000545
Liner	ø 2.9 mm / 5.5 m	DIX DS 4/2.9- 5.5	623000555
Liner	ø 2.9 mm / 8.5 m	DIX DS 4/2.9- 8.5	623000585
Liner	ø 2.9 mm / 10.5 m	DIX DS 4/2.9- 10.5	6230005105
Liner	ø 2.9 mm / 12.5 m	DIX DS 4/2.9- 12.5	6230005125
2 Bronze Liner	ø 2.2 mm / 0.228 m	DIX DS 4/2.2- 228	6230012228

➤ Further pre-cut parts on request.

Wearparts

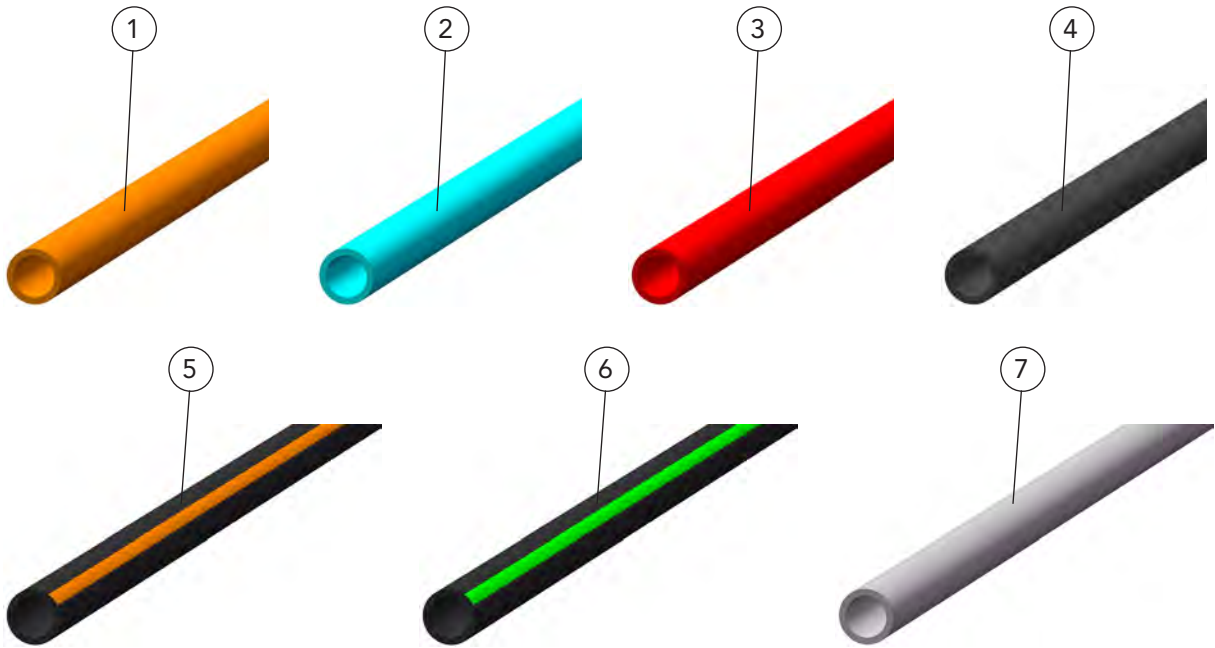
7





# Capillary liner

## For robotic and automatic torches MIG/MAG, TIG



Capillary liner for welding wire of high alloyed steels, copper-, aluminum-, magnesium- and nickel alloys

Wearparts

	Description	Dimension I <sub>D</sub> /length/color	Part name		Part number
1	Capillary liner For wire diameter 0.8 mm	ø 1.65 mm / 100 m orange	DIX	DSK 1-100	613002000
2	Capillary liner For wire diameter 1.0 and 1.2 mm (PUSH-PUSH/PULL wire diameter 0.8 mm)	ø 2.25 mm / 100 m turquoise	DIX	DSK 2-100	623002000
3	Capillary liner For wire diameter 1.6 mm (PUSH-PUSH/PULL wire diameter 1.2 mm)	ø 2.95 mm / 100 m red	DIX	DSK 3-100	623002500
4	Capillary liner with a very high bending strength For wire diameter 1.0 and 1.2 mm (PUSH-PUSH/PULL wire diameter 0.8 mm)	ø 2.00 mm / 50 m black	DIX	DSK 4-50	623002700
Capillary liner for special use with high - temperature applications					
5	Capillary liner For wire diameter 0.8 mm	ø 1.5 mm / 100 m black / orange	DIX	DST 1-100	613001000
6	Capillary liner For wire diameter 1.0 and 1.2 mm (PUSH-PUSH/PULL wire diameter 0.8 mm)	ø 2.2 mm / 100 m black / green	DIX	DST 2-100	623001000
Capillary liner for special use with high - abrasive applications					
7	Capillary liner For wire diameter 1.0 and 1.2 mm (PUSH-PUSH/PULL wire diameter 0.8 mm)	ø 2.3 mm / 100 m grey	DIX	DSS 2-100	623003000

► Capillary liner for other wire diameters on request.



# Capillary liner

## Pre-cut parts



	Description	Dimension ID/length	Part name	Part number
1	Capillary liner	ø 1.65 mm / 0.2 m	DIX DSK 1- 0.2	613002002
	Capillary liner	ø 1.65 mm / 0.3 m	DIX DSK 1- 0.3	613002003
	Capillary liner	ø 1.65 mm / 2.5 m	DIX DSK 1- 2.5	613002025
	Capillary liner	ø 1.65 mm / 3.5 m	DIX DSK 1- 3.5	613002035
	Capillary liner	ø 1.65 mm / 4.5 m	DIX DSK 1- 4.5	613002045
	Capillary liner	ø 1.65 mm / 5.5 m	DIX DSK 1- 5.5	613002055
	Capillary liner	ø 1.65 mm / 10.5 m	DIX DSK 1- 10.5	6130020105
	2	Capillary liner	ø 2.25 mm / 0.2 m	DIX DSK 2- 0.2
Capillary liner		ø 2.25 mm / 0.3 m	DIX DSK 2- 0.3	623002003
Capillary liner		ø 2.25 mm / 1.5 m	DIX DSK 2- 1.5	623002015
Capillary liner		ø 2.25 mm / 1.7 m	DIX DSK 2- 1.7	623002017
Capillary liner		ø 2.25 mm / 2.5 m	DIX DSK 2- 2.5	623002025
Capillary liner		ø 2.25 mm / 3.5 m	DIX DSK 2- 3.5	623002035
Capillary liner		ø 2.25 mm / 4.5 m	DIX DSK 2- 4.5	623002045
Capillary liner		ø 2.25 mm / 5.5 m	DIX DSK 2- 5.5	623002055
Capillary liner		ø 2.25 mm / 6.5 m	DIX DSK 2- 6.5	623002065
Capillary liner		ø 2.25 mm / 8.5 m	DIX DSK 2- 8.5	623002085
Capillary liner		ø 2.25 mm / 10.5 m	DIX DSK 2- 10.5	6230020105
Capillary liner		ø 2.25 mm / 15.5 m	DIX DSK 2- 15.5	6230020155
3		Capillary liner	ø 2.95 mm / 0.078 m	DIX DSK 3- 0.078
	Capillary liner	ø 2.95 mm / 0.2 m	DIX DSK 3- 0.2	623002502
	Capillary liner	ø 2.95 mm / 0.25 m	DIX DSK 3- 0.25	6230025025
	Capillary liner	ø 2.95 mm / 0.3 m	DIX DSK 3- 0.3	6230025030
	Capillary liner	ø 2.95 mm / 2.5 m	DIX DSK 3- 2.5	623002525
	Capillary liner	ø 2.95 mm / 3.5 m	DIX DSK 3- 3.5	623002535
	Capillary liner	ø 2.95 mm / 4.5 m	DIX DSK 3- 4.5	623002545
	Capillary liner	ø 2.95 mm / 5.5 m	DIX DSK 3- 5.5	623002555
	Capillary liner	ø 2.95 mm / 7.5 m	DIX DSK 3- 7.5	623002575
	Capillary liner	ø 2.95 mm / 8.5 m	DIX DSK 3- 8.5	623002585
	Capillary liner	ø 2.95 mm / 10.5 m	DIX DSK 3- 10.5	6230025105
	Capillary liner	ø 2.95 mm / 12.5 m	DIX DSK 3- 12.5	6230025125
	4	Capillary liner	ø 2.00 mm / 2.5 m	DIX DSK 4- 2.5
5	Capillary liner	ø 1.5 mm / 0.2 m	DIX DST 1- 0.2	613001302
	Capillary liner	ø 1.5 mm / 3.5 m	DIX DST 1- 3.5	613001350
	Capillary liner	ø 1.5 mm / 4.5 m	DIX DST 1- 4.5	613001450
	Capillary liner	ø 1.5 mm / 5.5 m	DIX DST 1- 5.5	613001550
	Capillary liner	ø 1.5 mm / 10 m	DIX DST 1- 10	6130011000
6	Capillary liner	ø 2.2 mm / 0.2 m	DIX DST 2- 0.2	623001002
	Capillary liner	ø 2.2 mm / 0.3 m	DIX DST 2- 0.3	623001003
	Capillary liner	ø 2.2 mm / 0.5 m	DIX DST 2- 0.5	623001005
	Capillary liner	ø 2.2 mm / 2.5 m	DIX DST 2- 2.5	623001250
	Capillary liner	ø 2.2 mm / 3.5 m	DIX DST 2- 3.5	623001350
	Capillary liner	ø 2.2 mm / 4.5 m	DIX DST 2- 4.5	623001450
	Capillary liner	ø 2.2 mm / 5.5 m	DIX DST 2- 5.5	623001550
	Capillary liner	ø 2.2 mm / 6.5 m	DIX DST 2- 6.5	623001650
7	Capillary liner	ø 2.3 mm / 0.2 m	DIX DSS 2- 0.2	623003002
	Capillary liner	ø 2.3 mm / 0.6 m	DIX DSS 2- 0.6	623003006
	Capillary liner	ø 2.3 mm / 3.5 m	DIX DSS 2- 3.5	623003035
	Capillary liner	ø 2.3 mm / 4.5 m	DIX DSS 2- 4.5	623003045
	Capillary liner	ø 2.3 mm / 5.5 m	DIX DSS 2- 5.5	623003055
	Capillary liner	ø 2.3 mm / 6.5 m	DIX DSS 2- 6.5	623003065
	Capillary liner	ø 2.3 mm / 8.5 m	DIX DSS 2- 8.5	623003085

Further pre-cut parts on request.

Wearparts

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# Distance sleeves

For manual, robotic and automatic torches  
MIG/MAG, TIG, LASER



Wearparts

Description	Dimension	Part name		Part number
1 Distance sleeve <small>For torch neck sizes: 230, 330, 304, 305, 306</small>		DIX	DSH 300	628100001
2 Distance sleeve		DIX	DSH 5900	638100006
3 Distance sleeve <small>For torch heads (LASER): LH 1xx SW/AW/SB, LHZ 100/0xx</small>		DIX	DSH 3/001	638100005
4 Liner <small>For torch neck sizes: 230, 330, 304, 305, 306</small>	ø2.2 mm/0.17 m	DIX	DSH 4-0.17	629300002
5 Liner <small>Allows an individual length</small>	ø2.2 mm/0.3 m	DIX	DSH 4-0.3*	629300001
Capillary liner, not shown	ø2.2 mm/0.3 m	DIX	DSK 2-0.3	623002003

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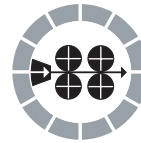
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