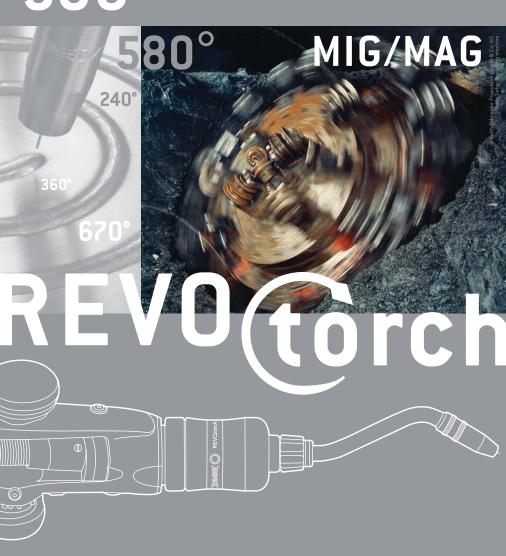


900°



Infinite rotation, maximum availability - gas/liquid-cooled. and operational safety. Unique DINSE feature: The welding torch set is carried welding current transfer to the contact tip. after air blast without losing any time for purging.



DINSE REVO.torch opens up a new dimension of robotic welding. The distinguishing features of this technology are its unlimited mobility, optimal component accessibility, minimal wear and low service costs with maximum performance

The DINSE rotary interface allows unlimited rotation of the welding torch, without having to rotate the torch set. The decisive advantage: The programming costs for complex robot movements with return paths is a thing of the past.

directly in the robotic arm but can be easily separated, both at the wire feeder and at the rotary interface. The wire feeding inside the torch set is completely insulated and ensures safe

DINSE is the only manufacturer that equips all of its torch sets with separate shield gas and air blast hoses. This prevents loss of gas and allows the welding to be started immediately

An important part of the rotary interface is DINSE's crash protection system which provides a class leading degree of safety with a deflection range of up to 15°. The automatic, precision reset to the TCP ensures problem-free operation. An optional shock sensor switch is also available to protect the tools and the machine.

The DINSE double-circuit liquid cooling flows through the torch head along its entire length by means of an annular arrangement of longitudinal channels. The contact tip and gas nozzle are both cooled in parallel.

In the DINSE gas cooling system, the shield gas is concentrically channeled to the contact tip and as a result the welding torch draws off large amounts of heat.

The greatest precision and reproducibility are achieved with plug-in contact tips which can be re-positioned exactly to the same point. The dirt-resistant trapezoidal threads of the gas nozzle provide ideal heat transfer.

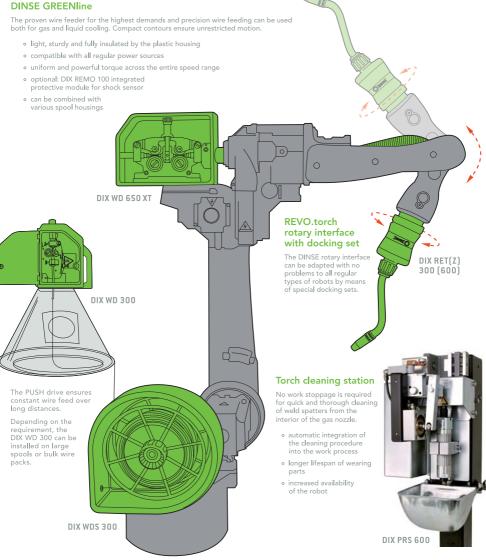
WELDING -SCHWEISSEN WELDING -SCHWEISSEN -



DINSE REVO.torch - a system for all types of robots.

The DINSE REVO.torch makes conventional MIG/MAG welding faster, more flexible and more cost-effective for robots with an integrated welding cable. Shorter welding cycles increase efficiency.

All DINSE products – from the torch head and wire feeder to the torch cleaning station – combine the highest quality and perfect compatibility. DINSE enables complex robotic welding with the system.



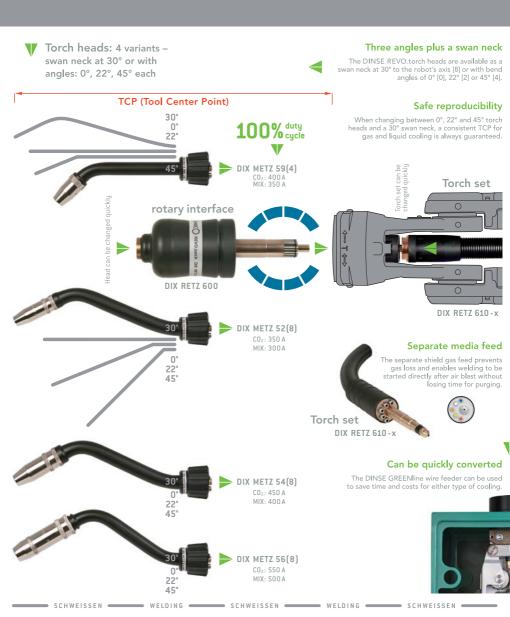
SCHWEISSEN WELDING SCHWEISSEN WELDING SCHWEISSEN



DINSE REVO.torch - minimized wear.

DINSE REVO.torch is the first torch to guarantee infinite turning of the welding torches even with liquid cooling, which means that robotic welding has limitless flexibility.

Well-known companies that give highest priority to trouble-free production rely on the liquid-cooled REVO.torch. Important advantages: The low wear part rate and a significantly reduced need for storage.





DINSE REVO.torch - optimized compatibility.

With REVO.torch – especially for gas-cooled welding, DINSE has developed a new series of torch heads, which have the same TCP as those with liquid cooling. Thanks to the standard interface at

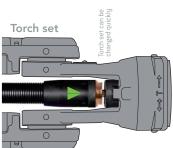
for any component geometry

The swan neck torch head was specially developed for the REVO.torch system and it adds to the userfriendliness by virtue of its optimal shape.

Torch heads: 2 variants swan neck at 30° or with angles: 0°, 22°, 45° each

with 100% duty cycle

DINSE system components are built for maximum duty cycle. For your operations: You can rely on steady work at full output.



DIX RET 310 - x







DIX RET 310 - x

and is proven and compatible

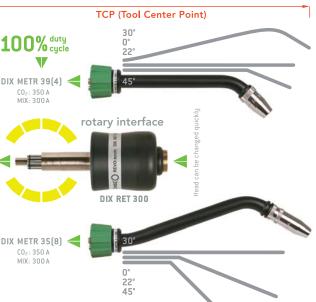
Changing from gas cooling to liquid cooling only requires the connecting of the coolant hoses.



DIX PV 1XX

Torch set

Precise checking jig for position control of the TCP. Testing the torch head for parallelism as well as center of contact tip.



DINSE checking jig with aligning module

Precise adjustment of the DINSE torch heads



DIX JM 100

DINSE torch heads can be re-aligned separately using the aligning module.



 $\textbf{DINSE} \ G.m.b.H. \ Tarpen \ 36 \cdot 22419 \ Hamburg \cdot Phone: +49 \ (0) 40 - 658 \ 75 - 0 \cdot Fax: -200 \cdot info@dinse-gmbh.com \cdot www.dinse-gmbh.com \cdot www.dins$

