Infinite rotation, maximum availability - gas/liquid-cooled.

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

**Infinite rotation**

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.

**Doubly separable**

Unique DINSE feature: The welding torch set is controlled directly in the robot's arm but can be easily separated, both at the wire feeder and at the rotary interface. This wire feeding system makes it possible to change the wire more quickly and reduces the time for welding current transfer to the contact tip.

**Unlimited usage**

DINSE is the only manufacturer that supplies all of its torch sets with separate shield gas and an air blast hose. This prevents loss of gas and allows the welding to be started immediately after an air blast without having any time for purging.

**Exactly safe**

An important part of the rotary interface is DINSE's crash protection system which provides a low bending degree of safety with a deflection range of up to 10°. The automatic precision reset to the TCP ensures problem-free operation. An optional shock sensor switch is also available to protect the torch and the machine.

**Innovative cooling**

The DINSE double-channel liquid cooling flows through the torch head along its entire length by means of an angular 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 conventionally channeled to the contact tip and as a result, the welding torch draws off large amounts of heat.

**Exceptional precision**

The greatest precision and reproducibility are achieved with clean contact tips which can be manufactured exactly to the same point. The dimensionally increased thickness of the gas nozzle provides ideal heat transfer.

DINSE REVo torch opens up a new dimension of robotic welding. The distinguishing feature of this technology is its unparalleled mobility, optimal component accessibility, minimal wear and low service costs with maximum performance and operational safety.

**Infinite rotation**

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.

**Double gas supply**

Uniquely DINSE feature. The welding torch set is centered directly in the robotic arm but can be easily separated, both at the wire feeder and at the nozzles interface. This wire feeding design allows a direct gas supply and assures safe welding current transfer to the contact tip.

**Uninterrupted gas supply**

DINSE is the only manufacturer that equips all of its torch sets with separate gas line and air blast housings. This prevents loss of gas and allows the welding to be started immediately after an air blast without having any time for purging.

**Integrally cooled**

An important part of the rotary interface is DINSE’s crash protection system which provides a safe bending degree of safety with a deflection range of up to 180°. The automatic precision reset to the TCP ensures problem-free operation. An optional check sensor switch is also available to protect the torch and the machine.

**Innovative cooling**

The DINSE double-fluid 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 nozzles are both cooled in parallel.

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

**Exceptional precision**

The greatest precision and reproducibility are achieved with SUPRO contact tips which can be manufactured exactly to the same process. The distinctive integrated threads of the gas nozzles provide ideal heat transfer.

© DINSE GmbH, Teppen 56, 22449 Hamburg Phone: +49 (0)40-458 70-0 Fax: -299 info@dinse-gmbh.com www.dinse-gmbh.com
**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. ALLDINSE products—from the torch head and slide feeder to the torch cleaning station—combine the highest quality and perfect compatibility. DINSE enables complete robotic welding with the system.

**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. We are the company that gives highest priority to trouble-free production daily on the liquidcool 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 gascooled 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 the entry antennas, these are compatible with all gascooled DINSE torch sets. Thus, you can adapt your welding tool in multidirectional ways to different tasks and change it depending on the requirement.

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**Torch heads: 4 variants – swan neck at 30° or with angles: 0°, 12°, 45° each**

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**Safe reproducibility**

Three angles plus a swan neck The DINSE REVO torch heads are available as a swan neck at 30° or the torch can be used with three angles of 0°, 12°, 45° (or 0°, 30°, 45°).

Three angles plus a swan neck

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**Separate media feed**

The separate media feed prevents dirt from settling on the tube and eliminates the need for an additional liquid feed for the contact tip. This saves time for setup and cleaning.

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**Can be quickly converted**

The REVO REVO torch heads can be used to save time and effort for other types of welding and is proven and compatible. Changing from gas cooling to liquid cooling only requires the conversion of the coolant lines.

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**TCP (Tool Center Point)**

100% Any TCP

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**For the best efficiency**

Another unique DINSE feature: The coolant connection is automatically transferred to the contact tip.

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**DINSE checking ip withaligning module**

Precise adjustment of the DINSE torch heads
DINSE REVO torch – a system for all types of robots.

DINSE REVO torches represent a major advance in MIG/MAG welding, offering more flexibility and more cost-effectiveness for robot systems, with an integrated welding cable. Shorter welding cycle times increase efficiency.

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

DINSE REVO torch – minimized wear.

DINSE REVO torches are the first torches to guarantee infinite turning of the welding torches even with liquid cooling, which means that robotic welding has limitless flexibility. 100% more accessible than the standard torches, the REVO torch is designed to make production easy and the liquid-cooled REVO torch is designed to make production easy.

DINSE REVO torch – optimized compatibility.

With REVO torches, 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 the entry point, there are compatible with all provided DINSE torch sets. Thus, you can adapt your welding tool in multivariant ways to different tasks and change it depending on the requirement.

Torch heads: 2 variants – mean neck at 30° or with angles 8°, 13°, 45° each

Three angles plus a mean neck

The DINSE REVO torch heads are available in a mean neck at 30°, the torch necks are 8°, 13°, 45° each.

Safe reproducibility

Three-component angle for every torch head and a 30° mean neck, a standard TCP for gas and flux. The torch tip is always guaranteed.

for any component geometry

The mean neck torch head was specifically developed for the REVO torch system and is suitable for the component by virtue of its optimal design.

Torch heads: 4 variants – mean neck at 30° or with angles 8°, 13°, 45° each

Separate media feed

The separate media feed prevents gas loss and ensures a more efficient welding process. The new drive reduces the running time for purging.

Can be quickly converted

The DINSE REVO torches can be quickly converted to save time and costs for other types of welding and is proven and compatible.

TCP (Tool Center Point)

100% any TCP 30°

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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.

The DINSE products—from the torch head and wire feeder to the torch cleaning station—combine the highest quality and perfect compatibility. DINSE offers a complete robotic welding solution with the system.

**DINSE GREENLine**
- The pressure wire feeder for the highest demands and production wire feeding can be used both dry or dry fed cooling. General safety norms ensure simplified operation.
- Light, sturdy and fully-welded by the alien fixture.
- Used for both ARC and CO2 welding.
- Optional REVO-GS for integrated protective gas systems for high豚ion and various wire feeders.

**DINSE REVO torch – minimized wear.**

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

In European countries, the highest priority is placed on easy production only on the liquid-cooled REVO torch. Important advantages: The lower wear rate and a significantly reduced need for storage.

**Torch heads:** 4 variants – mean neck at 30° or with angles: 9°, 33°, 45° each

**Safe reproducibility**
- When changing the torch head, the distance of the torch head and the 3D torch axis is maintained. TCP for gas and light gas torches is always guaranteed.

**DINSE REVO torch – optimized compatibility.**

With REVO torch—especially for gascooled 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 the entry interface, they are compatible with all gascooled DINSE torch sets.

Thus, you can adapt your welding tool in multifaceted ways to different tasks and change it depending on the requirement.

**Torch heads:** 2 variants – mean neck at 30° or with angles: 9°, 33°, 45° each

**Separate media feed**
- The separate media feed prevents flow back and enables precision welding in the overlap zones. The design is also suitable for manual welding.

**Can be quickly converted**
- The DINSE REVO torch is available in 3 variants, which can be quickly converted to suit the welding process, the service life of the torch parts, and the availability of the robot.

**TCP (Tool Center Point)**

- 100% Any TCP
- 100% Any TCP
- 100% Any TCP

**DINSE REVO torch – optimized compatibility.**

With REVO torch—especially for gascooled 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 the entry interface, they are compatible with all gascooled DINSE torch sets.

Thus, you can adapt your welding tool in multifaceted ways to different tasks and change it depending on the requirement.

**Torch heads:** 2 variants – mean neck at 30° or with angles: 9°, 33°, 45° each

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

Infinite rotation
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.

Doubly separable
Unique DINSE feature. The welding torch set is controlled directly from the robotic arm but can be easily separated both at the wire feeder and at the torch interface. This wire feeding system is fully separable, safe and ensures safe welding current transfer to the contact tip.

Unmatched design
DINSE is the only manufacturer that equips all of its torch sets with separate shield gas and arc blast boxes. This prevents loss of gas and allows the welding to be started immediately after an arc blast without having any time for purging.

Mechanically safe
An important part of the rotary interface is DINSE’s arc protection system which provides a high degree of safety with a deflection range of up to 180°. The automatic protection stops the torch, even if the torch tip is touched by the welder.

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

Exceptional precision
The greatest precision and reproducibility are achieved with a gas-in-contact tip which can be pre-positioned exactly to the same point. The discontinuous gas jets provide ideal heat transfer.