



DINSE



MIG/MAG

ROBOTIC



TIG

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SCHWEISSEN

WELDING

SCHWEISSEN

WELDING

SCHWEISSEN



DINSE MIG/MAG – maximum flexibility.

DINSE offers a wide range of torch heads for MIG/MAG welding and brazing. The standardized interface of these torch heads allows them to be changed quickly with reliable reproducibility of the TCP.

Depending on the application, the material and the design, you can weld using gas or liquid cooling, with round wire or with the DINSE flat wire technology.

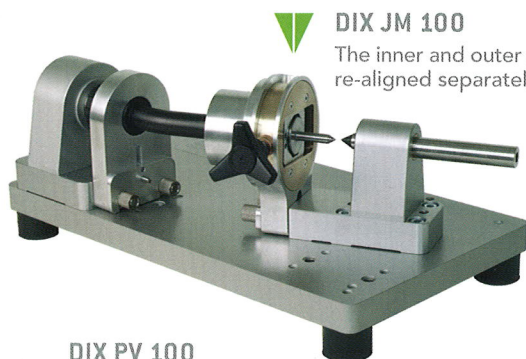
Three angles for any component geometry

Each of the DINSE MIG/MAG torch heads is available in angles of 0° (0), 22° (2) and 45° (4), allowing you to flexibly adapt to changing tasks.

Depending on the requirement, component accessibility can be selectively improved.

DINSE checking jig with aligning module

Exact adjustment of the DINSE torch heads.



DIX JM 100

The inner and outer parts of the torch head can be re-aligned separately using the aligning module.

DIX PV 100

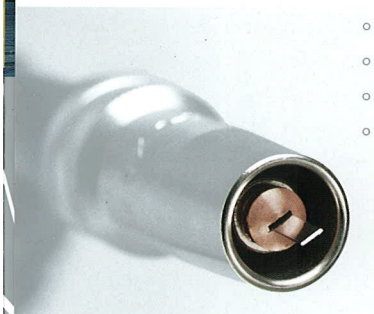
Precise checking jig for checking TCP position. Testing the torch head for parallelism and center of contact tip.

High performance technology for flat-wire welding

This DINSE innovation in welding technology combines high performance with maximum production safety.

Looking to the future with minimal effort in setting parameters.

- faster welding speeds
- excellent gap bridging
- high deposition rates
- bigger weld cross-sections
- optimal weld penetration behaviour

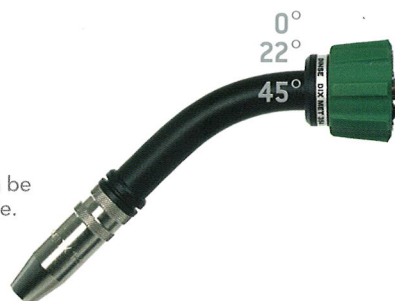


MIG/MAG torch heads

2 variants – 3 angles each



DIX MET 39(4)
CO₂: 350 A
MIX: 300 A



DIX MET 35(4)
CO₂: 350 A
MIX: 300 A

4 variants – 3 angles each



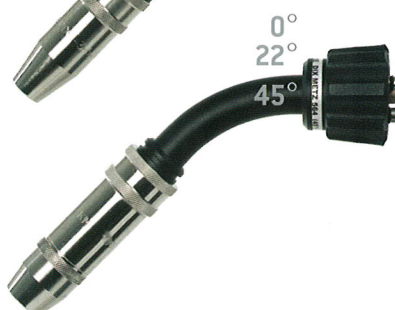
DIX METZ 59(4)
CO₂: 400 A
MIX: 350 A



DIX METZ 52(4)
CO₂: 350 A
MIX: 300 A



DIX METZ 54(4)
CO₂: 450 A
MIX: 400 A



DIX METZ 56(4)
CO₂: 550 A
MIX: 500 A

100% duty cycle



DINSE torch sets – proven system.

With DINSE, all individual parts are precisely matched and can be changed quickly and easily. This means that, depending on the requirement, you can use DINSE torch sets in MIG/MAG or TIG procedures and with an optional PUSH-PUSH or PUSH-PULL drive.

Rugged insulation and cover hoses on both sides contribute to reliable, flexible handling and reduce the load on the torch sets. The cast aluminum torch brackets for all prevalent TCPs combine a high degree of physical rigidity with minimal weight.

▼ Torch sets, torch brackets and shock sensors



DIX MEPTT(Z) 310(600)

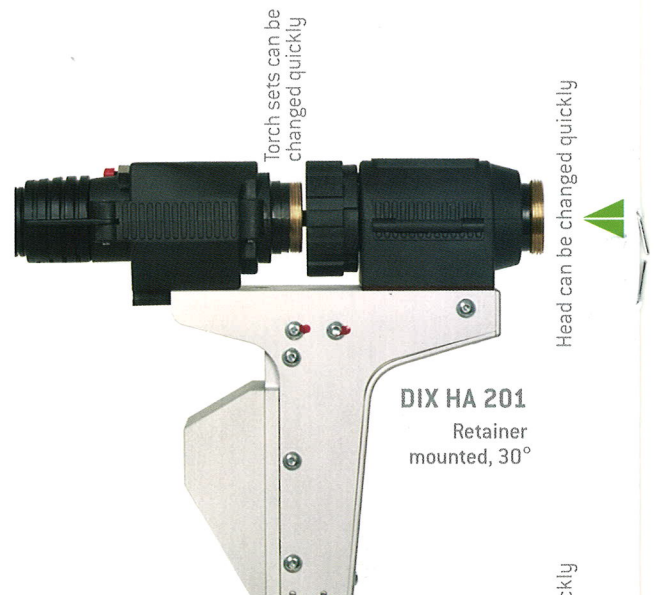
doubly separable

DIX MEP 200 (T)

Torch bracket with drive for
PUSH-PULL + (PUSH-PUSH)

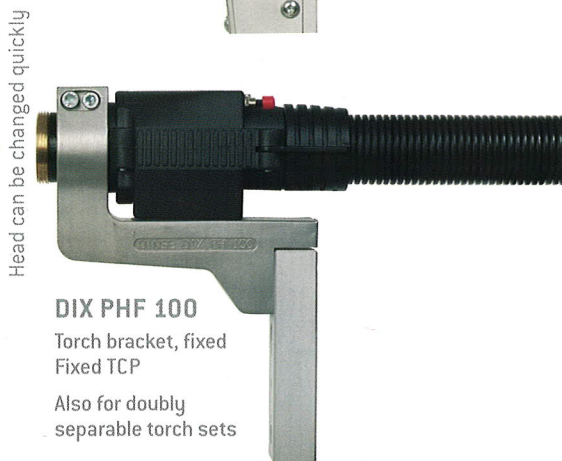
DIX SAS 200

Shock sensor



DIX HA 201

Retainer
mounted, 30°



DIX PHF 100

Torch bracket, fixed
Fixed TCP

Also for doubly
separable torch sets



DIX MET(Z) 310(600)

singly separable

DIX SAS 100

Shock sensor



DIX PHF 110

Torch bracket, fixed
Fixed TCP



DIX PHW 100

Torch bracket, adjustable
Flexible TCP setting

Also for singly
separable torch sets



DIX METT(Z) 310(600)

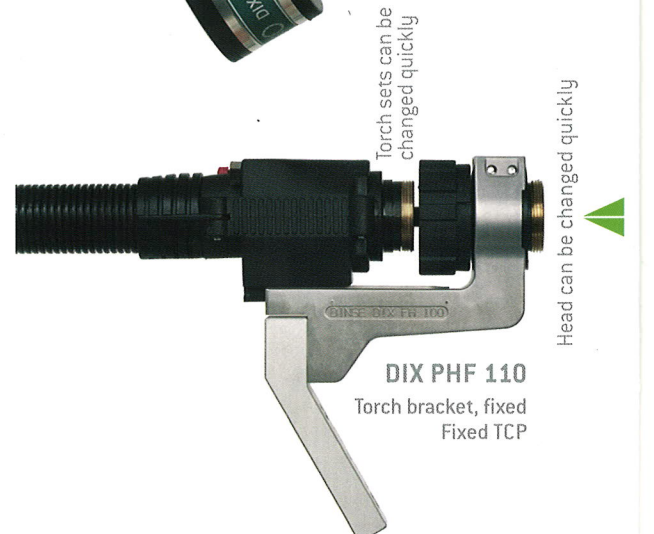
doubly separable

DIX MEK 300/600

Torch body

DIX SAS 100

Shock sensor



DIX PHF 110

Torch bracket, fixed
Fixed TCP



DINSE TIG – intelligent technology.

The TIG generation designed by DINSE represents spatter-free welding at the highest level. Whether there is a cold-wire set or not, and whether the torch head is on the robot axis or at an angle to it, DINSE TIG robotic and automated welding is characterized by its ease of handling and the best component accessibility.

The standardized torch head interface guarantees optimal interchangeability without risk of upsetting the TCP.



TIG torch heads

2 variants – 2 angles each

DIX TETZ 400 AC/DC: 400 A

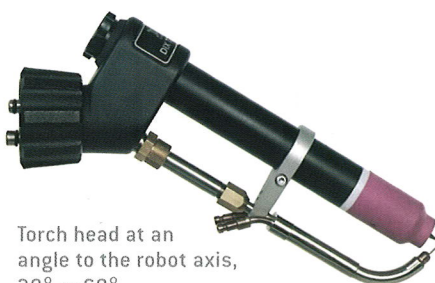
With a cold-wire set
DIX KDZ 400



Torch head on the
robot axis

DIX TETZ 400 L AC/DC: 400 A

With a cold-wire set
DIX KDZ 400



Torch head at an
angle to the robot axis,
30° or 60°

DIX TETZ 400 AC/DC: 400 A



Torch head on the
robot axis

DIX TETZ 400 L AC/DC: 400 A



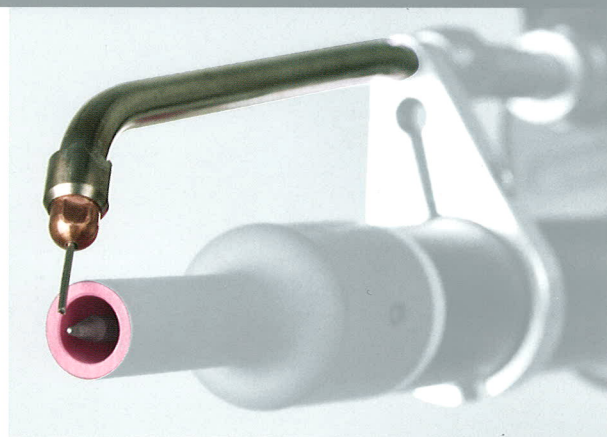
Torch head at an
angle to the robot axis,
30° or 60°

DIX EL 400

Adjustment gauge for pre-adjusting the electrodes
for quick replacement of wearing parts.



100% duty cycle



Narrow, extended gas nozzle with special
cold-wire set for improved accessibility for
unusually difficult component geometries.

PLASMA welding and brazing

DINSE offers complete sets of PLASMA
equipment for working with high-alloy steels,
nickel alloys and surface-coated materials.

- constricted electric arc with little beam divergence
- 100% successful ignition by means of a pilot electric arc
- savings in terms of material due to the small weld pool and reduced heat influence
- no corrosion of the electrodes and long service life





DINSE components – perfect interaction.

With its wire feeders and spool housings, in combination with the modular, matched torch heads, welding torch sets, torch brackets and shock sensors, DINSE offers system equipment that has been thoroughly engineered down to the last detail.

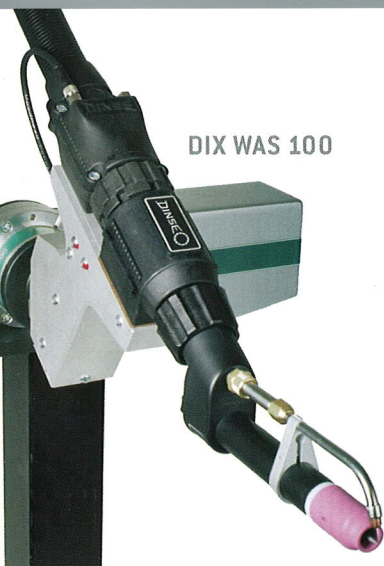
With precision accessories for changing, testing and cleaning the welding and brazing tools, DINSE solutions ensure rational production processes and production safety for robotic and automated welding.

DINSE GREENline

The proven and powerful wire feeders for the highest demands guarantee exact wire feeding, independently of torsion, inflexion and length of the torch set.

- light, sturdy and fully insulated through plastic housing
- compatible with all prevalent power sources
- uniform and powerful torque across the entire speed range
- long service-life without servicing intervals
- can be combined with different spool housings

DIX WAS 100



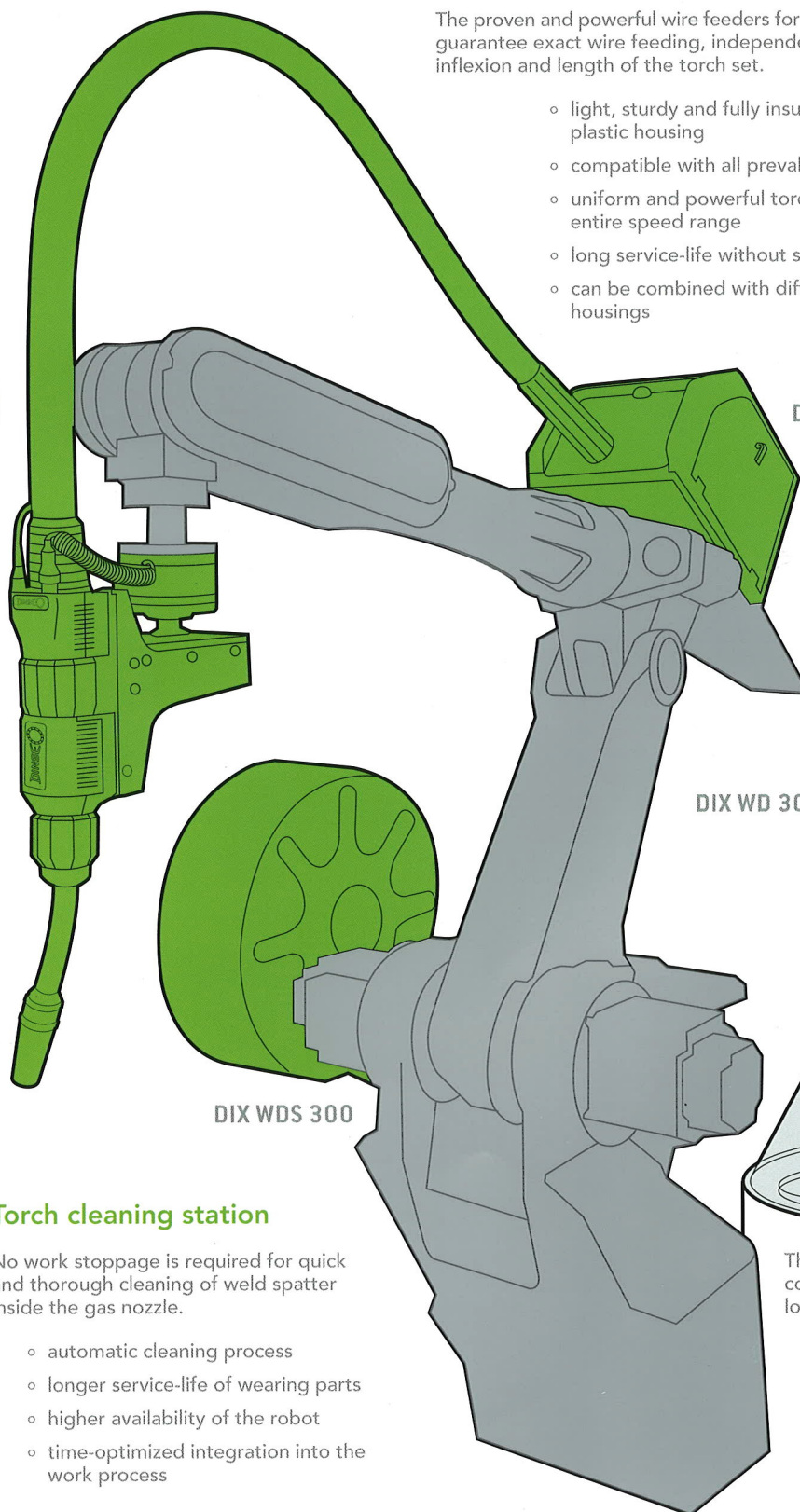
Tool storage system

Whether you want to replace wearing parts or change tools in order to change production processes, you can do so without stopping production.

- faster process switching and tool change
- easier replacement of wearing parts
- pneumatic clamping system independent of robot
- guaranteed system availability
- high degree of flexibility



DIX PRS 600



DIX WD 660

DIX WD 300

DIX WDS 300

Torch cleaning station

No work stoppage is required for quick and thorough cleaning of weld spatter inside the gas nozzle.

- automatic cleaning process
- longer service-life of wearing parts
- higher availability of the robot
- time-optimized integration into the work process

The PUSH drive ensures constant wire feed over long distances.

Depending on the requirement, the DIX WD 300 can be installed on large spools or bulk wire packs.