Perfect welding systems from a single source for any procedure and any application. DINSE provides you with intelligent, complete solutions, from the torch head and wire feeder to the power sources.

Adapting the highest quality, compatibility and reproducibility on all your systems is the hallmark of DINSE. The wide range of DINSE welding systems can be adapted to all of the commonly used types of robots ensuring maximum availability for your operations.

**Tried and tested DINSE components**
- 100% duty cycle. The modular and mutually compatible DINSE system components guarantee continuous operation.
- Two efficient control systems. DINSE power supply up to 300 A, DINSE inverter/IGBT welding up to 500 A. The complete system meets the requirements.
- Fast switching between gas and liquid cooling, without re-programming, is possible with a standard TCF in all cases.
- Universal compatibility between the different processes.
- The newly established dual and replacement part system of the DINSE 500 system ensures minimal wear and a significantly reduced need for storage.

**Precision drive concepts**
For precision wire feed, DINSE provides three powerful drive concepts: the PULL drive solution and the PUS-PULL concept with two coupled drive units to the complete drive structure of the PUS-PULL technology. Depending on the welding task, the DINSE GREEDrive wire feeder modules are available already, which in combination with a spool holder or as a separate unit on a large speed housing or bulk wire pack.

**Specific power sources**
DINSE’s complete offer includes a power source that is ideally suited for your requirements. The DINSEpower interface offers options for single, digital industrial interface.
Perfect welding systems from a single source for any procedure and any job.

MIG/MAG and TIG technologies, LASER and PLASMA systems for constructive welding and brazing to fit the application. DINSE provides you with intelligent, complete solutions, from the torch head and wire feeder to the power source.

Advancing the highest quality, compatibility and reproducibility on all elements is the hallmark of DINSE. The ease with which DINSE welding systems can be adapted to all the commonly used types of robots ensures maximum availability for your operations.

DINSE's complete offer includes a power source that is ideally suited for your requirements. The DINSE Robo interface offers options for sealing, digital industrial bus interfaces.

Tested and reliable DINSE components:
- 100% duty cycle. The modular and mutually compatible DINSE system components guarantee continuous operation.
- Two efficient cooling systems: DINSE gas cooler for up to 360 A, DINSE oil-chiller/liquid cooling up to 500 A.
- The application determines the equipment.
- Fast switching between gas and liquid cooling without re-programming, is possible with a standard TCP in all cases.
- Universal compatibility between the different processes.
- The mix of established tools and replacement part system of the DINSE Robo ensure minimal wear and a significantly reduced need for storage.

Precision drive concepts:
For precision wire feed, DINSE provides three powerful drive concepts after the PLV unit solution and the TWIN-PULL concept with two coupled drive units to the compact drive structure of the PLV-PULL technology.

Depending on the welding task, the DINSE GREENWire wire feed modules are available directly on the robot in combination with a speed holder or as a separate unit on a large speed housing or bulk wire pack.

Specific power sources:
DINSE’s complete offer includes a power source that is ideally suited for your requirements. The DINSE Robo interface offers options for sealing, digital industrial bus interfaces.
DINSE MIG/MAG PUSH-PULL — for welding robots with a hollow wrist.

The standardized interfaces of all DINSE components ensure maximum flexibility and productivity during gas metal arc welding. The drive allows double-exchange DINSE MIG/MAG torch units to be mounted on both standard and hollow-wrist robots and the suitable uses of gas-in-torch cooling.

This is a versatile movement and a suitable solution for PUSH-PULL applications, providing reliable handling of arcs that is comparable to linishing.

DINSE REVO torch — endless rotation with integrated welding cable

This innovative DINSE technology gives a new dimension to conventional MIG/MAG welding. Thanks to endless rotation, DINSE REVO torches guarantee significantly shorter welding cycles. The programming for constant-voltage welding provides passive advantages - a constant larger. Larger benefits for the welding torch have assembly which is to be born.

DINSE REVO torches can be adapted to all of the commonly used hollow-wrist robots, with the specially developed seamless torch head allowing a system size in the component.

DINSE LASER PUSH-PUSH — for high-speed welding and braizing.

Maximum production reliability for demanding processes. The use of fiber optic wires offers decisive technological advantages. Mild alloying of materials, prevention of heat cracks when welding aluminum, reduced process temperatures and energy-saving and easy-welding tolerances range. Without it is to indicate, for example, the modular design allows a three procedure.

DINSE’s unique advantages. The new joint sensor with integrated encoder for repeatable wire positioning and monitoring of the wire feed.

Ranges of applications

Tools and robot solutions for maximum efficiency, such as welding robots and welding and brazing robots.

- Precise sheet welding
- Welding of high alloyed steels and aluminum alloys
- Brazing of surface coated materials

For detailed information, see DINSE REVO torch brochures.

DINSE Process monitoring

- Unique in DINSE: a new lead sensor with high accuracy and positioning before starting.
- Simple and easy to set up.
- The sensor has a material to be set.
- The sensor is napkin to monitor processes.
- The sensor is napkin to be set.

The measurement data can be continuously output by a display.

Range of application

Bolts of special steels and thin-walled steels and the steel welding system due to the torch brass assembly fitting through the robotic hollow wrist.

- Handling of thin-walled and thin alloyed steel.
- Welding high-speed steel.
- Fiber laser used in a high building, in the automotive and supply industry and in the production of form machinery.

For detailed information, see DINSE REVO torch brochures.
**DINSE MIG/MAG Push-Pull** — for welding robots with a hollow wrist.

The standardized interface of all DINSE components ensures maximum flexibility and productivity during gas metal arc welding. This allows the doubleovable DINSE MIG/MAG torch set to be mounted on both standard and hollow wrist robots. The doubleovel of all DINSE torch heads, and the suitable gas of gas feed cooling.

This is a novel approach and a valuable option for PUSH-PULL applications, providing reliable, zero-related arc that is insensible to know.

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**DINSE MIG/MAG REVOTorch — endless rotation with integrated welding cable.**

This innovative DINSE technology gives a new orientation to conventional MIG/MAG welding. Thanks to endless rotation, DINSE REVOTorch guarantees perfectly anisotropic welding. The programming of the gas flow provides the most current ratio to gas, ensuring advantage. A continuous rotation ensures the welding torch head assembly which is free from rotation.

DINSE REVOTorch can be adapted to all the currently used hollow wrist robots, with the specially developed nozzle head. The fully developed system head allows full access to the component.

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**DINSE LASER PUSH-PULL** — for high-speed welding and braizing.

Maximum production reliability for demanding processes. The use of fiber optics offers decisive technological advantages. High-quality, three-dimensional welding aluminium, reduced process temperatures in a contactless point, and other high-temperature ranges. Whether it is a standard, complex, hybrid solution, the modular design allows all three procedures.

DINSE’s unique integrations. The new head design with integrated evacuator for repeatable wire positioning and monitoring of the wire feed.

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**DINSE Process monitoring**

- Unique DINSE Arc feed sensor measures the length and position of the wire continuously.
- Consists of an application for the direct sampling of the materials back propagation.
- The power is maintained in high-power.
- The arc feed sensor is located on the wire.
- The protection against back propagation.
- The contactless wire feed sensor is constantly operated on a display.

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**Range of applications**

Ballistics: Special steels and martensitic steels due to the workpiece welding center due to the torch head assembly fitting through the robotic hollow wrist.

- Welding of fine and thick Al alloys and Al alloys of various types.
- Welding Al/Cr and Al/Cr stock in a high stability, in the automotive and supply industry in the production of flame machines.

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**Range of application**

- Suitable for high-performance welding for different actuating systems in metal welding or using MIG/MAG torch.ercan be selected from standard or modified versions in addition to welding Al and Al alloys of various types.
- Suitable for welding stainless steel and high-alloy steel in high stability, in the automotive and supply industry in the production of flame machines.
- Suitable for welding Al/Cr and Al/Cr stock in a high stability, in the automotive and supply industry in the production of flame machines.
DINSE TIG PUSH-PUSH – sputter-free welding in series.

The TIG welding system designed by DINSE represents a cost-effective solution for series welding without finishing work. The TIG torch heads allow problem-free production, with or without the cold wire set, thanks to their lightweight, compact design and high welding performance, even for components that are difficult to access. The pre-settable electrode guarantees absolute pin-point precision.

As with MIG/MAG welding, PUSH-PUSH technology ensures the most precise wire feeding possible in the DINSE TIG process as well.

One piece of equipment – 3 processes

The DINSE models are uniformly mutually compatible and all of the components can be substituted in ideal ways. Changing from pin-point precision TIG welding in series to MIG/MAG or PLASMA applications in PUSH-PUSH mode only requires swapping out the torch head and the power source.

Range of application

Clean working with high production performance – perfect for manufacturing exhaust systems, pipe work, apparatus construction, container fabrication for the food and chemical industries and aircraft and turbine manufacturing.

- Small to large material thickness
- Welding of highly alloyed steel
- Handling of aluminum and nickel-based alloys

Range of application

Material-saving process with reduced heat effect and 100% successful ignition by means of pilot electric arc – especially for automotive and apparatus construction and medical technology.

- Micro-welding of extremely thin sheets
- Welding of highly alloyed steels and special alloys
- Braiding of surface coated materials

For detailed information, see DINSE ROBOTIC brochure.

DINSE MIG/MAG BASIC – the well established standard solution for robotic welding.

In this tried and tested welding system, the powerful feeder or the robot ensures precise feeding of the wire. A wide selection of torch heads and singly and doubly separable fittings ensure the greatest possible flexibility for applications. The required TCP can be achieved via fixed or adjustable brackets.

All of the DINSE torch heads are available in various angles, which allow the welding equipment to be quickly and easily adapted to changing tasks.

Range of applications

Tried and tested technology for maximum performance, especially used in the automotive industry, from the supply industry to automobile construction.

- Handling of non-alloyed and low alloyed types of steel
- Welding highly alloyed steel
- Also tried and tested in ship-building, machine and system building, container fabrication and in the production of farm machinery
**DINSE MIG/MAG PUSH-PULL – the drive concept for wire that is susceptible to kinking.**

When a high degree of precision is required while performing MIG/MAG welding and brazing with wires that are difficult to feed, the DINSE PUSH-PULL method of operation is highly recommended. The electronically coupled drives located in the wire feeder and directly on the welding torch ensure that the filler wire is repeatedly fed through the torch set. This guarantees uniform feeding of the wire. This protects particularly pliable and sensitive wire against buckling and ensures problem-free production.

**Range of application**

A tried and tested system, which ensures maximum productivity in automotive construction, ship building, machine and system building and in container fabrication.

- Precise thin sheet welding
- Welding of high-alloy steels and aluminum alloys
- Brazing of surface coated materials

**DINSE MIG/MAG PUSH-PUSH – constant wire feeding over long distances.**

In the DINSE PUSH-PUSH technology, two completely uncoupled drive units ensure the most precise wire feeding possible, regardless of tension, bending and the length of the torch set. The adjustable maximum torque of the rear motor prevents the filler wire in the torch set from buckling out. The front, speed-controlled motor precisely adjusts the quantity of wire needed for the process. Very low frictional forces minimize the amount of feeding required, either when being used with standard robots or hollow wrist robots.

**Accessibility and service – perfect!**

- The robot is not burdened by an additional wire feeder, nor is it limited in its movement.
- The drive unit is easily accessible and maintenance-friendly.
- The feeder can be flexibly mounted on large size housings or on a bulk wire pack.

**Range of application**

For the highest demands in machine and system building, container fabrication, automotive production or in train and ship building.

- Precision thin sheet welding
- Welding of high-alloy steels and aluminum alloys
- Brazing of surface coated materials and mixed combinations of different materials

For detailed information, see DINSE ROBOTIC brochure.

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**SCHWEISSEN**

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**Accessibility and service – perfect!**

- The robot is not burdened by an additional wire feeder, nor is it limited in its movement.
- The drive unit is easily accessible and maintenance-friendly.
- The feeder can be flexibly mounted on large spot welding or a bulk wire pack.

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**Range of application**

For the highest demands in machine and system building, container fabrication, automotive production or in train and ship building.

- Precision thin sheet welding
- Welding of high-alloy steels and aluminum alloys
- Brazing of surface coated materials and mixed combinations of different materials

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For detailed information, see DINSE ROBOTIC brochure.
DINSE TIG PUSH-PUSH – spatter-free welding in series.

The TIG welding system designed by DINSE represents a cost-effective solution for series welding without finishing work. The TIG torch heads allow problem-free production, with or without the cold wire set, thanks to their lightweight, compact design and high welding performance, even for components that are difficult to access. The pre-setting electrode guarantees absolute pin-point precision.

As with MIG/MAG welding, PUSH-PUSH technology ensures the most precise wire feeding possible in the DINSE TIG process as well.

One piece of equipment – 3 processes

The DINSE models are uniformly mutually compatible and all of the components can be substituted in ideal ways. Changing from pin-point precision TIG welding in series to MIG/MAG or PLASMA applications in PUSH-PUSH mode only requires swapping out the torch head and the power source.

DINSE BASIC – the well established standard solution for robotic welding.

In this tried and tested welding system, the powerful feeder or the robot ensures precise feeding of the wire. A wide selection of torch heads and singly and doubly separable fittings ensure the greatest possible flexibility for applications. The required TCP can be achieved via fixed or adjustable brackets.

All of the DINSE torch heads are available in various angles, which allow the welding equipment to be quickly and easily adapted to changing tasks.
**DINSE MIG/MAG PUSH-PULL** – for welding robots with a hollow wrist.

The standardized interfaces of all DINSE components ensure maximum flexibility and productivity during gas-metal-arc welding. This allows the double escapable DINSE MIG/MAG torch sets to be inserted on both standard and hollow wrist robots. Also, the use of all DINSE torches and the suitable use of gas in flash cooling.

This is a real investment and a valuable option for PUSH-PULL applications, providing reliable, lasting control of one that is tamperable to linking.

**DINSE MIG/MAG REVO tech** – endless rotation with integrated welding cable.

This innovative DINSE technology gives a new direction to conventional MIG/MAG welding. Thanks to endless rotation, DINSE REVO torch guarantees significantly shorter welding cycles. The programming mode for gas-metal-arc welding guarantees a longer life of the cable. Another advantage: A considerably larger flared opening for the welding torch base assembly which is free from backfire. DINSE REVO torches can be adapted to all of the commonly used hollow wrist robots, with the specially developed sweetheart torch head allowing system access to the component.

**DINSE LASER PUSH-PUSH** – for high-speed welding and brazing.

Maximum productivity reliably for detaching processes. The use of fiber arcs offers decisive technological advantages. Modulability of materials, prevention of heat transfer when welding aluminum, reduced process temperatures, access cleaning and easy line alignment. Whether it is in transportation, automotive or hybrid solutions, the modular design allows all these procedures.

DINSE’s unique design. The one head comes with integrated sensor for repeatable wire positioning and monitoring of the wire feed.