Power Inverter DIX PI 400/550

„The modular MIG/MAG power source for maximum performance.“

- intuitive operation
- innovative processor and inverter technology
- modular system design
- flexible process switching
- efficient energy concept

DINSE – power supply with system.
The idea of a modular power source corresponds to the desire of our customers for a complete system solution for the entire welding application from one single source. With the primary clocked power inverter, DINSE provides a highly efficient MIG/MAG system: One size of the housing, two performance levels – depending on the welding process it can be used with or without a cooling device.

The future of welding is being shaped today.

Modular components

The DINSE power inverter is available as a basic module with 400A and 550A. Its compact dimensions and lightweight guarantee its optimized capability of integration into the automation process.

Effective cooling system

An integrated fan-cooling channel system with dust-protected electronic components minimizes the presence of dirt inside the power source. The use of filter mats is no longer required.

Easy operation

For practical handling and problem-free processes, warning notes are displayed directly on the housing of the power source via LEDs. The operator panel shows error messages in plain text.

Impressive energy efficiency

The electronic power factor correction (PFC) rounds off the economic efficiency of the DIX PI 400. Thanks to the clear reduction of the amount of reactive current consumption, the cross-section of the supply line can be reduced, which minimises installation costs significantly. Compared to conventional power source systems, the energy costs are lower.

Flexible usage

It is possible to control two wire feeding devices with one power source. In combination with a tool-changing system two different processes can be operated without manual intervention on one robot during alternating operation.

Intelligent control

The innovative processor and inverter technology ensures fast process control. Through the creation of customer-specific welding characteristics, a wide variety of applications can be designed more efficiently.
**Wire feeder DIX WF 110S**

- High-quality drive unit with fully developed functions
- Compact design and quick-lock couplings for more operating convenience
- Available with all popular torch set connections
- Optionally available with PUSH-PULL drive for precise wire feeding

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**Cooling device DIX CM 1200/5**

- Can be used separately or stacked to save space
- Pump with metal housing with proven DINSE quality
- Easy coolant check by means of viewing slots on two sides
- Bus connection for data transfer and control signals

**Operator panel DIX RP 100E**

- Easy handling for problem-free work processes
- Setting of all of the parameters for processes, materials and functions
- Call-up and application of special welding characteristics via text display
- Can be installed/removed during power source operation

**CAN Interface**

- Standardized interfaces for all components
- USB connections for the fast and secure transfer of data
- Robot interface for the automation application
- Ethernet interface for local networks in preparation
Convenient PC operation
All of the settings of the complete welding application can be quickly and easily set via a PC and flexibly adapted at any time. A characteristic editor allows customer-specific presets.

Reliable data management
The data for the welding parameters and characteristics are managed and backed up via a user-friendly PC tool. No special computer knowledge is required.

Optimized editing function
The easy editing of jobs guarantees the optimal adaptation of the parameters during the welding operation. The processes run without work interruptions, which makes them extremely economical.

Customer-specific solutions
Thanks to flexible programming and software tools, a wide variety of applications can be designed to be process-optimized. The flexible programming and software tools allow a process-optimized design for a wide variety of applications. Inside the machine, 100 standard characteristics are managed for covering the most widely used processes. In addition, up to 100 special characteristics can be managed, which are suitable for optimally adapting the power source to special processes.

Concentrated special process
The DINSE power inverter allows a new spray arc process called RMT (Rapid MAG Technology):
- highly concentrated, energy-rich electric arc
- easier seam preparation thanks to 30° weld preparation angle (instead of 45°)
- a lower number of layers means shorter cycle times
- improved quality due to minimized warping and deeper weld penetration
- maximum increase of welding speed

**Power Inverter DIX PI 400/550**

<table>
<thead>
<tr>
<th>Power Inverter</th>
<th>setting range: 40% ED: 60% ED: 100% ED: open circuit voltage:</th>
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<tbody>
<tr>
<td>DIX PI 400</td>
<td>5-390 A 380 A 350 A 310 A 70 V</td>
</tr>
<tr>
<td>DIX PI 550</td>
<td>5-550 A 550 A 530 A 440 A 70 V</td>
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DIX PI 400/550 – RMT process:
- steel plate: 6 mm mixes gas: 82/18 current: 300A wire: 11 m/min Vw: 530 mm/min forehand without seam preparation
- steel plate: 8 mm mixes gas: 82/18 current: 300A wire: 11 m/min Vw: 530 mm/min backhand without seam preparation