

P4

TIG - With or without filler wire

Portable power source for orbital tube welding



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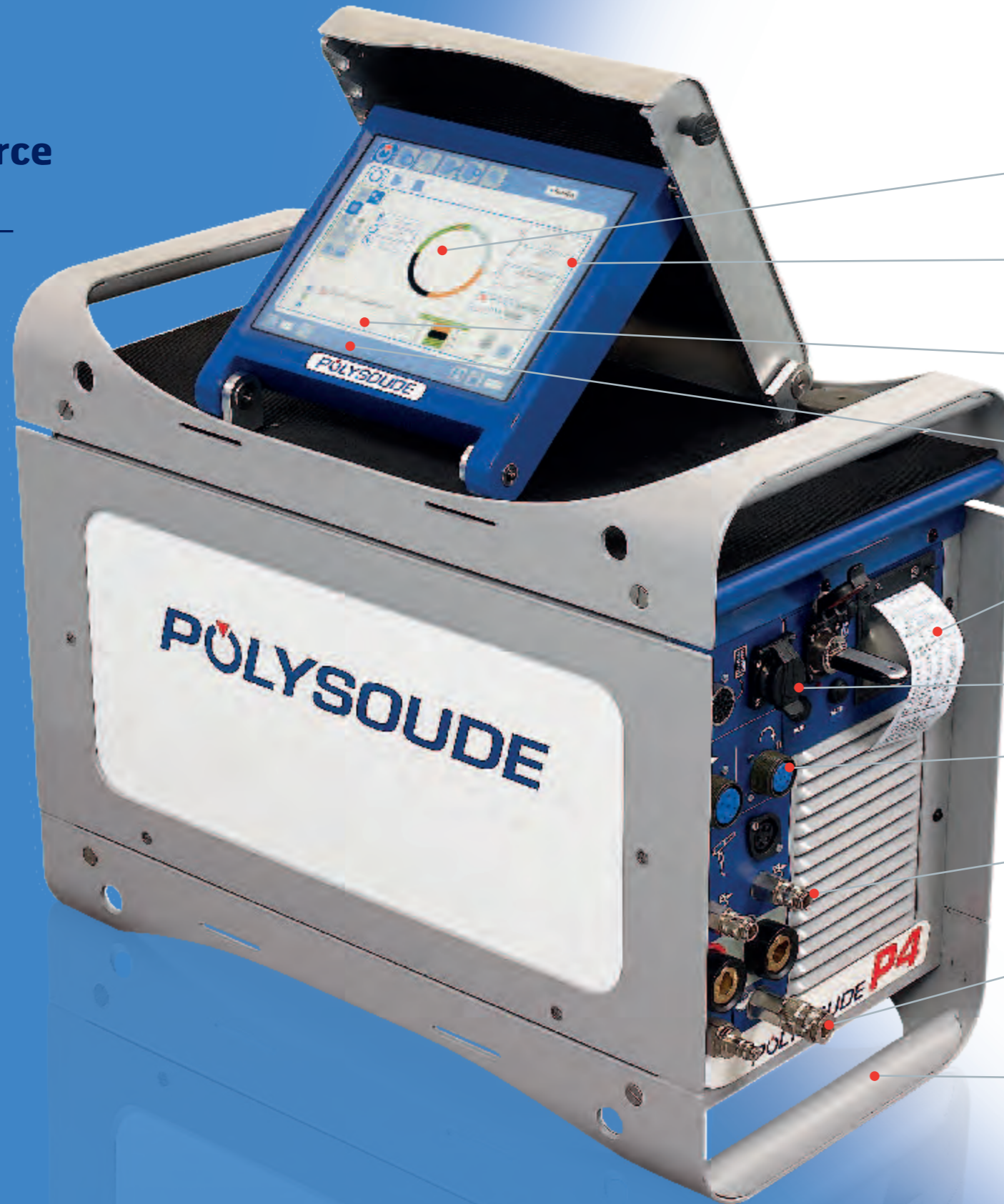
Portable power source for orbital tube welding

Compatible with all Polysoude™ welding heads and welding heads using filler wire

Advantages

- ▶ Automatic welding procedure generation with an intelligent and intuitive user interface combined with the latest most reliable industrial electronics
- ▶ Real time welding data acquisition
- ▶ High precision inverter power source, compact design with integrated water cooling system
- ▶ Total net weight only 32 kg

Resulting from 50 years' experience in mastering welding technologies



General characteristics

Program control by time or angular degrees calibrated in mm/min or inch/min

Comprehensive real-time welding data acquisition

Error-diagnostic system

Automatic welding head recognition

Built-in printer for welding procedure archiving and documentation

Ethernet compatible

Closed loop regulation of torch rotation and wire speed

Welding gas control and backing gas with safety valve

Built-in closed loop water cooling system with safety valve for welding head and torch

Auto-range 100 - 230 V single phase ± 10% compatible with field power generators



Offline & online programming with standard PC as well as optional touch screen



USB memory stick for saving, loading and archiving of welding programs and monitored welding data



Compatible with standard peripheral equipment – printer, bar code reader, oxygen indicator, etc.



Full function remote control with welding program selection

Associated Welding Heads



▶ UHP + MW Series

Closed welding heads for TIG tube to tube welding without filler wire



▶ MU Series

Open welding heads for TIG tube to tube welding with filler wire



▶ TS Series

Open and closed welding heads for TIG tube to tubesheet welding with or without filler wire

Wire Feeders



▶ Polyfil Series

External portable wire feeders with spool protection



Technical specifications

Welding method	TIG - DC with or without filler wire
Input power (Auto-range)	Single phase 100 V / 115 V / 200 V / 230 V \pm 10% - 50 / 60 Hz
Open circuit voltage	< 113 V
Insulation class	H
Protection class	IP 23 (touch screen closed)
Welding current standard (steps of 1 A)	Range 170 A: 3 to 170 A (200 V / 230 V)
High precision (steps of 1/10 A)	3 to 130 A (100 V / 115 V)
	Range 50 A: 3 to 50 A (100 / 230 V) } Constant or pulsed
Welding current precision	\pm 1 A when $I \leq 100$ A and \pm 1% when $I > 100$ A
Duty cycle	170 A / 25% at 230 V • 130 A / 40% at 115 V 110 A / 100% at 230 V • 100 A / 100% at 115 V
Motion controls	Torch rotation: constant or pulsed Wire feeder: constant or pulsed / automatic wire retract
Shielding gas control	Welding gas, backing gas with flow safety valve
Power source cooling	Forced ventilation
Welding torch cooling	Built-in closed loop water cooling system with flow safety valve
Display / recording (non-volatile) of real values during welding	Arc Voltage, welding current, electrode position in angular degrees, welding speed and wire speed
Welding program storage / transfer	Hard disc / USB memory stick
Dimensions L x W x H	630 x 320 x 500 mm
Net weight	32 kg
Standards	EN 60974-1 / EN 60974-10



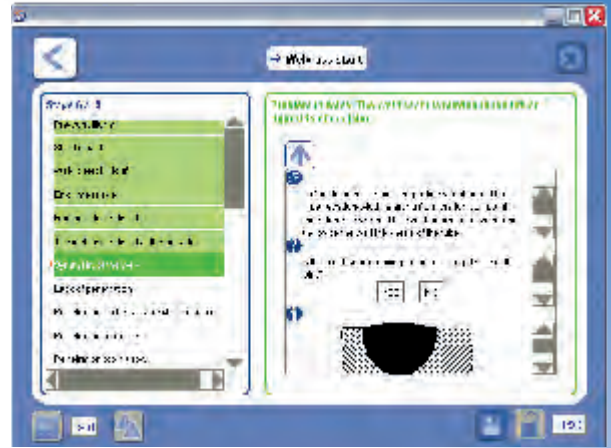
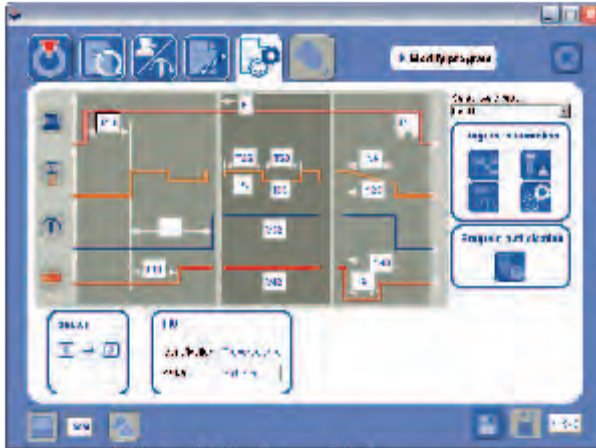
Options and accessories

- Large 10,4" colour touch screen with multilingual, graphically assisted welding software
- Laptop
- Control kit for closed welding heads fitted with tachometer or welding heads other than POLYSOUDE™
- Full function remote control
- Wire feeder control
- Manual tack welding kit including water-cooled TIG torch
- Extension cable (15 m) for welding heads
- Kit for backing gas
- Dual welding head switch box
- Equipment trolley with gas cylinder support

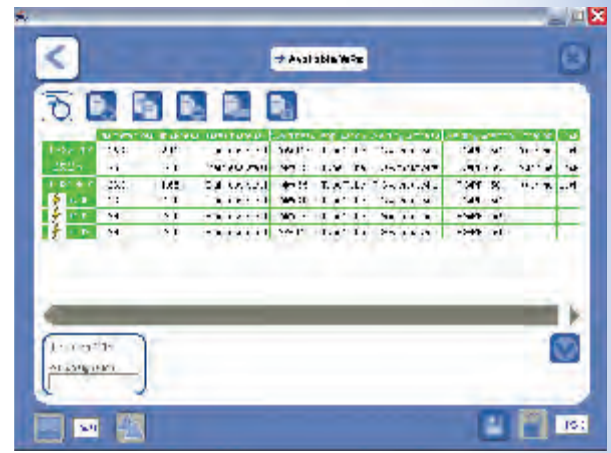
Graphical User Interface (GUI): Just follow the instructions!

► Intuitive graphical interface

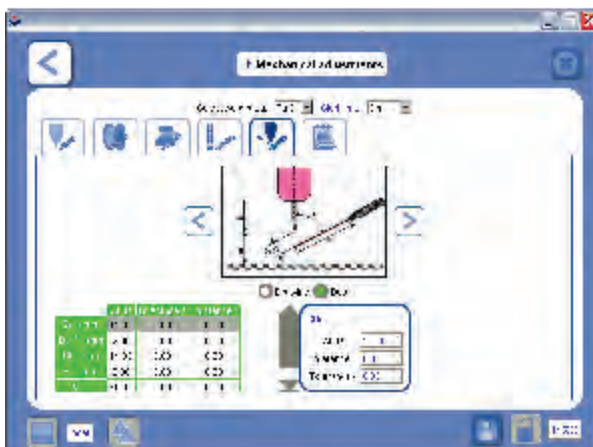
With multilingual “Help” menu for optimised welding programs



► Synergic mode auto-programming



► Traceability and complete documentation of mechanical and electrical parameters



POLYSOUDE : Related services

► Guidance and technical support

A welding application specialist in your area will advise you on the welding process and appropriate equipment for your application.

► Commissioning / Training

A complete training program will enable you to start using the equipment immediately and in the best way possible.

► Maintenance / Repair

Maintenance and repair operations can be carried out at the Polysoude plant as well as on site by our service network.

► Rental service

Increase the flexibility of your production! A large range of equipment is available for rental from our hire fleet.

Your partners worldwide

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