



TIG - With or without filler wire

Portable Smart Welding Station for orbital tube welding



OPC UA



POLYSOUDE

60 YEARS
ANNIVERSARY

P4 Portable Smart Welding Station

for orbital tube welding

Compatible with all Polysoude™ welding heads with or without filler metal

Advantages

- **Ergonomic design:** user-friendly, easy to operate human-machine-interface with wireless touchscreen
- **Modular design:** huge number of accessories can be perfectly tailored to the particular applications
- **Modern and ever evolving :** 100% Industry 4.0 compatible and IIoT (*) connectivity
Remote access to welding program loading and to data retrieval
- **Unique level of precision:** setting and control of the welding current in steps of 1/10 Ampere
- **Robust and reliable:** particularly well suited for working on site (extremely solid design, carrying handles, rugged touch wireless controllers delivered with carrying bag)

Resulting from 60 years' experience in mastering automated welding technologies

* IIoT: Industrial Internet of Things

General characteristics



LAN and WLAN compatible

Built-in printer or USB stick for welding procedure archiving and documentation

Automatic recognition of Polysoude welding heads

Closed loop regulation of torch rotation and wire speed

Welding gas control and backing gas with adjustable mass flowmeter

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

Auto-range 115 - 230 V single phase ±10% compatible with field power generators



Plug & Play software for wired or wireless touch controllers



Multiple USB ports (4 in total) for backup, transfer and archiving of welding programmes and monitored data (USB stick supplied)



Ultra-precise gas flow control with display in the graphical interface



Full-function remote control with welding programme selection



Compatible with numerous standard peripheral equipment – printer, barcode reader, oxygenmeter, etc.

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 or without filler wire



► TS Series

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

Accessories



► Polyfil Series

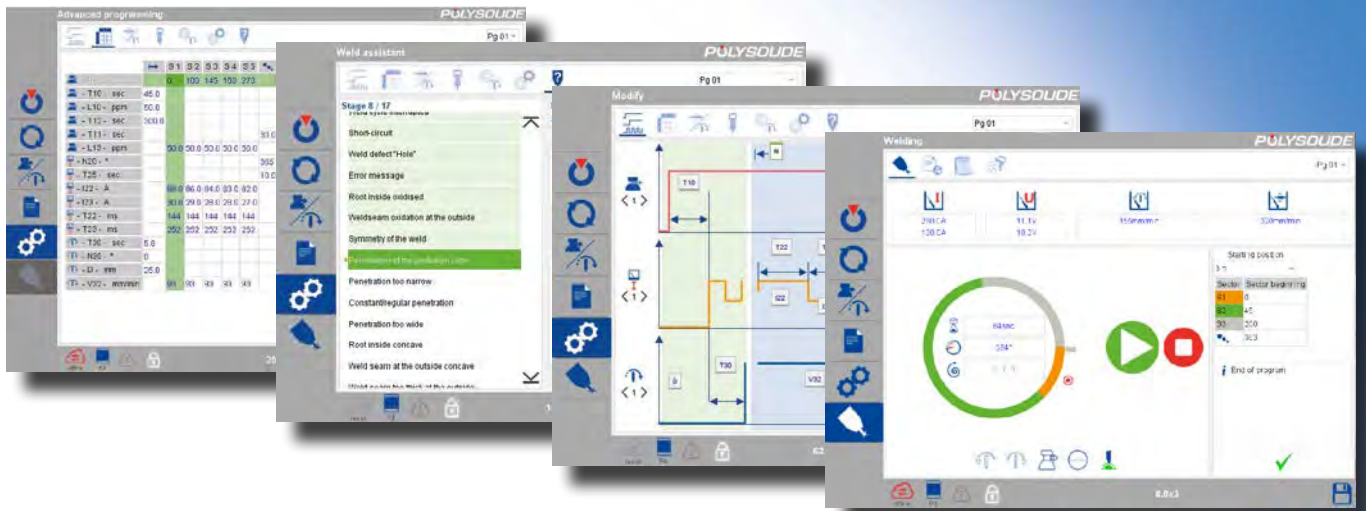
External portable wire feeders with spool protection



► Switchbox

Alternate use of two welding heads including automatic selection of the corresponding welding programme

- 
Graphical User Interface (GUI):
 Just follow the instructions!
- Intuitive graphical interface**
 With multilingual “Help” menu for optimised welding programmes including tack welding.



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Integration into a connected plant
 Thanks to the on-board OPC-UA server, performance and connectivity combine to offer new and unique services: secure transfer of data to production software, sending of remote start orders, real-time monitoring of welding data, etc.



- 
They trust us
 Our customers are our best references





Technical specifications

Welding method	TIG - DC, constant or pulsed, with or without filler wire
Input power (Auto-range)	Single phase 115 V / 230 V $\pm$ 10% - 50 / 60 Hz
Open circuit voltage	< 113 V
Insulation class	H
Protection class	IP 23 S
Welding current standard (steps of 1 A)	Range 170 A: 3 to 170 A (200 V / 230 V) 3 to 130 A (100 V / 115 V)
High precision (steps of 1/10 A)	Range 50 A: 3 to 50 A (100 V / 230 V)
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 with manual adjustment mass flowmeter, 2 nd gas (backing gas)
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
Connectivity	4 USB ports, 1 Ethernet port, 1 plug-in Wi-Fi antenna
Dimensions L x W x H	630 x 320 x 500 mm
Net weight	31 kg
Standards	EN 60974-1 / EN 60974-10



Options and accessories

- 10.5" wireless touchscreen controller with intuitive and multilingual programming software
- 10.4" quick release wired touchscreen with intuitive and multilingual programming software
- OPC-UA activation USB stick
- Full-function remote control
- Wire feeder control
- 2nd gas kit with mass flowmeter (manual adjustment)
- Wireless digital barcode-scanner with cradle and USB cable
- Manual tack welding kit including water-cooled TIG torch
- Extension cable (15 m) for welding heads
- Dual welding head switch box
- Control kit for closed welding heads fitted with tachometer or welding heads other than POLYSOUDE™



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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