

P 6 SERIES

TIG - DC - Cold Wire / Hot Wire

Mobile Smart Welding Station
for orbital welding



 **OPC UA**



P6 SERIES

Mobile Smart Welding Station for orbital welding

Compatible with all Polysoude™ welding heads particularly with those equipped with Arc Voltage Control (AVC) and Torch Oscillation Control (OSC)

Advantages

- ▶ Ergonomic design: user-friendly, easy to operate human-machine-interface with wireless touchscreen
- ▶ Modular design: Smart Welding Station and range of accessories can be perfectly tailored to the particular applications
- ▶ Modern and ever evolving: 100% Industry 4.0 compatible and IoT connectivity. Remote access to welding program loading and to data retrieval
- ▶ Powerful: current range 300 or 520 A, with or without arc voltage control (AVC) and torch oscillation control (OSC)
- ▶ Robust and reliable: particularly well suited for prefabrication due to its structure sturdiness and resistance to harsh environmental conditions

The results of 60 years' experience in mastering welding technologies

* IoT: Internet of Things

General characteristics



Plug & Play software for wired and 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 graphic interface



Fullfunction remote control 4-axes or 6-axes with welding program selection



Built-in printer or USBstick for welding procedure archiving and documentation

LAN and WLAN compatible, Wifi & Ethernet

Automatic recognition of Polysoude welding heads

Closed loop regulation of wire speed

Closed loop regulation of torch rotation

Built-in Arc Voltage Control (AVC) and Torch Oscillation Control (OSC)

Welding gas control and backing gas (option) with adjustable mass flowmeter

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



Compatible with many standard peripheral equipment - printer, barcode reader, oxygen meter, etc.

Associated welding heads



▶ MU Series

Open welding heads with or without AVC and OSC for TIG tube-to-tube welding with filler wire



▶ TS Series

Open and closed welding heads with or without AVC for TIG tube-to-tube sheet welding with or without filler wire



▶ Polycar Series

Open-type carriage welding heads with AVC and OSC for welding of large diameter tubes and pipes, with filler wire

Wire feeders



▶ Polyfil series

External portable wire feeders with spool protection

Switch box

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



Welding solutions



▶ Automated welding systems

TIG— Cold Wire, Hot Wire



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

► Intuitive graphical interface

With multilingual “Help” menu for optimised welding programmes including tack welding.



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

P6 series	P6-4 CW - 4-axes	P6-4 CW- 6-axes	P6-4 HW - 6-axes
Welding method	TIG- Cold Wire		TIG- Hot Wire
Input power	Three phase 400 V / 415V ± 15%- 50 / 60 Hz incl. multi voltage kit option from 200 V to 480 V		Three phase 400 V / 415V ± 10%- 50 / 60 Hz
Open circuit voltage	< 113V		
Insulation class	F		
Protection class	IP23S		
Welding current range	5 to 300 A- constant or pulsed		5 to 520 A- constant or pulsed
Hot Wire current range			3 to 140 A
Welding current precision	± 1A when I ≤ 100 A and ± 1% when I > 100 A		
Duty cycle welding current	300 A / 60 %- 240 A / 100%		≥ 520 A / 60 %- 420 A / 100%
Duty cycle Hot Wire			140 A / 100 %
Motion controls	Torch rotation: constant or pulsed Wire feeder: constant or pulsed / automatic wire retract	Torch rotation: constant or pulsed Wire feeder: constant or pulsed / automatic wire retract AVC- Arc Voltage Control OSC- Torch Oscillation Control	
Shielding gas control	Welding gas with manual adjustment mass flowmeter, 2 nd gas for backing gas (option for P6-4 CW)		
Power source cooling	Forced ventilation		
Welding torch cooling	Two built-in closed loop water cooling systems with flow safety valve (2 nd in option)		External cooling system with internal 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		
Real time data acquisition	Hard disc / USB memory stick		
Dimensions L x W x H	630 x 470 x 795 mm 630 x 470 x 970 mm (incl. multi voltage option) 950 x 560 x 1130 mm (incl. multi voltage + trolley option)		800 x 470 x 970 mm 1060 x 530 x 1145 mm
Weight	75 kg 115 kg (incl. multi voltage option)		138 kg
Standards	EN60974-1/ EN60974-10		



Options and accessories

- 10,4" quick release colour touchscreen with graphical, intuitive and multilingual software
- Wireless touchscreen controller
- Laptop
- Full function remote control 4 or 6-axes
- Wire feeder control
- AVC control - Arc Voltage Control
- OSC control - Torch oscillation
- Interface for welding manipulators for automated welding (positioner, column and boom, seam welder...)
- Extension cable (15m) for welding heads
- Supports for wireless touchscreen controller and laptop
- Control kit for closed welding heads fitted with tachometer for welding heads other than POLYSOUDE™
- Multi voltage kit 200 V to 480 V (not for HW version)
- Kit for backing gas (only for P6-4 CW)
- 2nd integrated cooling unit (only for P6-4 CW)
- Dual welding head switch box (only for CW version)
- Trolley
- DAQ box
- Oxygen meter





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

ARGENTINA

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

AUSTRALIA

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

AUSTRIA

POLYSOUDE AUSTRIA GmbH
☎ +43 (0) 3613200 36
austria@polysoude.at

BAHRAIN

SALWO TRADING Ltd.
☎ +971 (0) 48 8105 91
salwo@emirates.net.ae

BELGIUM

POLYSOUDE BENELUX BV
☎ +31 (0) 653 84 23 36
benelux@polysoude.com

POLYSOUDE BENELUX BV
(SERVICE)
☎ +31 (0) 653 38 85 58
service.benelux@polysoude.com

BRAZIL

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

BULGARIA

KARWELD EOOD
☎ +359 (0) 29 73 32 15
Karweld@bg400.bg

CANADA

MAGTool - West
EDMONTON- ALBERTA
☎ +1800 6619983
magtool@magtool.com

MAGTool - East

TORONTO- ONTARIO
☎ +1905 699 - 5016
ray@magtool.com

CHINA

POLYSOUDE SHANGHAI CO. Ltd
☎ +86 (0) 2164 09 78 26
jm.pan@polysoude.com.cn

CROATIA

EUROARC D.O.O.
☎ +385 (0) 12 40 60 77
euroarc@euroarc.hr

CZECH REPUBLIC

POLYSOUDE CZ
☎ +420 602 60 28 55
m.matousek@polysoude.cz

DENMARK

HALL & CO. INDUSTRI
☎ +45 (0) 39 56 06 76
p.lorenzen@polysoude.com

EGYPT

STEEL TECH
☎ +202 22 02 99 79
info@steeltecheg.com

ESTONIA

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

FINLAND

SUOMEN TEKNOHAUS OY
☎ +358 (0) 927 47 2 10
info@teknohaus.fi

FRANCE

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

GERMANY

POLYSOUDE DEUTSCHLAND GmbH
DUSSLINGEN
☎ +49 (0) 7072 60076 0
info@polysoude.de

GREECE

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

JAPAN

GMT COLtd - KAWASAKI
☎ +81 (0) 44 222 6751
gmt@e-gmt.co.jp

GMT COLtd - OSAKA

☎ +81 (0) 798 35 6751
gmt.kansai@e-gmt.co.jp

JORDAN

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

KUWAIT

SALWO TRADING Ltd.
☎ +971 (0) 48 8105 91
salwo@emirates.net.ae

LATVIA

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

OMAN

SALWO TRADING Ltd.
☎ +971 (0) 48 8105 91
salwo@emirates.net.ae

PAKISTAN

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

PHILIPPINES

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

POLAND

UNIDAWELD - BEDZIN
☎ +48 (0) 32 267 05 54
dariusz.szota@unidaweld.pl

SUPRA ELCO

☎ +48 500 004 804
jacek.szulc@supraelco.waw.pl

SINGAPORE

POLYSOUDE SINGAPORE OFFICE
☎ +65 0734 8452
Jmpan@singnet.com.sg

SLOVAKIA

POLYSOUDE CZ
☎ +420 602 60 28 55
m.matousek@polysoude.cz

SOUTH AFRICA

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

SOUTH KOREA

CHEMIKO COLtd
☎ +82 (0) 2 567 5336
chemiko@chemiko.net

SPAIN

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

SWEDEN

HALL & CO. INDUSTRI
☎ +45 (0) 39 56 06 76
p.lorenzen@polysoude.com

SWITZERLAND

POLYSOUDE (SWITZERLAND) Inc.
☎ +41 (0) 43 243 50 80
contact@polysoude.ch

TAIWAN R.O.C.

FIRST ELITE ENT. CO. Ltd
☎ +886 (0) 287 97 88 99
auto.pipe@msa.hinet.net

THAILAND

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

TURKEY

ECEMAKINE
☎ +90 (0) 212237 40 40
info@egemakine.com

UNITED ARAB EMIRATES

SALWO TRADING Ltd.
☎ +971 (0) 48 8105 91
salwo@emirates.net.ae

UNITED KINGDOM

POLYSOUDE UK
☎ +44 (0) 1942820 935
admin.uk@polysoude.com

UKRAINE

POLYSOUDE RUSSIA
☎ +7 495 564 86 81
info@polysoude.ru

UNITED STATES

ASTRO ARC POLYSOUDE Inc.
☎ +1818 (859) 7600
sales@astroarc.com

VENEZUELA

ENRIVA C.A.
☎ +58 (0) 41234 82 602
enriva@gmail.com

VIETNAM

ANH DUONGIT Ltd
☎ +84 22 159532
an@anhduongco.com



HUNGARY

POLYWELDKft.
☎ +36 (0) 20 29 88 708
polyweld@polyweld.hu

INDIA

POLYSOUDE INDIA
☎ +91 (0) 20 27127 678
ab.kulkarni@polysoude.in

INDONESIA

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

ISRAEL

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

ITALY

POLYSOUDE ITALIA SRL
☎ +39 02 9379 90 94
info@polysoude.it

LITHUANIA

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

MALAYSIA

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

NETHERLANDS

POLYSOUDE BENELUX BV
☎ +31 (0) 653 84 23 36
benelux@polysoude.com

POLYSOUDE BENELUX BV
(SERVICE)
☎ +31 (0) 653 38 85 58
service.benelux@polysoude.com

NEW ZEALAND

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

NORWAY

TEMA NORGE AS
☎ +47 (0) 5169 25 00
tema@tema-norge.no

PORTUGAL

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 1100
info@polysoude.com

QATAR

SALWO TRADING Ltd.
☎ +971 (0) 48 8105 91
salwo@emirates.net.ae

REPUBLIC OF IRELAND

POLYSOUDE UK
☎ +44 (0) 1942820 935
admin.uk@polysoude.com

ROMANIA

DEBISUD CONCEPT S.R.L.
☎ +40 (0) 255 2157 85
office@debisud.ro

RUSSIA + C.I.S.

POLYSOUDE RUSSIA
☎ +7 495 564 86 81
info@polysoude.ru

SAUDI ARABIA

SALWO TRADING Ltd.
☎ +971 (0) 48 8105 91
salwo@emirates.net.ae

