

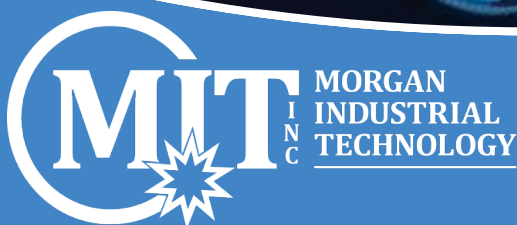


TIG - With or without filler wire

Portable Smart Welding Station for orbital tube welding



OPC UA



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 USBstick 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- 230V single phase ±10% compatible with field power generators



Plug & Play software for wired or wireless touch controllers



Multiple USBports (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-tube sheet 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.



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 115V/ 230V $\pm$ 10%- 50 / 60Hz
Open circuit voltage	< 113V
Insulation class	H
Protection class	IP 23 S
Welding current standard (steps of 1A)	Range 170A: 3 to 170A (200V / 230V) 3 to 130A (100V / 115V)
High precision (steps of 1/10A)	Range 50A: 3 to 50A (100V/ 230V)
Welding current precision	$\pm$ 1A when $I \leq 100A$ and $\pm$ 1% when $I > 100A$
Duty cycle	170A/ 25% at 230V • 130A/ 40% at 115V 110A/ 100% at 230V • 100A / 100% at 115V
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 500mm
Net weight	31kg
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 (15m) 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

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 84 23 36
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
☎ +1 800 661 9983
magtool@magtool.com

MAGTool - East

TORONTO - ONTARIO
☎ +1 905 699 - 5016
ray@magtool.com

CHINA

POLYSOUDE SHANGHAI CO. Ltd
☎ +86 (0) 2164 09 78 26
jm.pah@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
Jmpa@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 CO Ltd
☎ +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

EGEMAKINE
☎ +90 (0) 212 237 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) 1942 820 935
admin.uk@polysoude.com

UKRAINE

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

UNITED STATES

ASTRO ARC POLYSOUDE Inc.
☎ +1 818 (859) 7600
sales@astroarc.com

VENEZUELA

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

VIETNAM

ANH DUONGIT Ltd
☎ +84 22 159 532
an@anhduongco.com



HUNGARY

POLYWELD Kft.
☎ +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

IRAN

STD CO
☎ +98 2188525206-7
najco_ir@hotmail.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 84 23 36
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) 1942 820 935
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



MORGAN
INDUSTRIAL
TECHNOLOGY

POLYSOUDE
THE ART OF WELDING