



POLYCAR Series

TIG - Cold Wire, Hot Wire, Plasma, AVC, OSC

Open carriage-type welding head
for circular and longitudinal welding



POLYSOUDE

60 YEARS
ANNIVERSARY

POLYCAR SERIES

Open carriage-type welding head
for circular and longitudinal welding

Highest flexibility and quality

Advantages

- ▶ Minimal radial and axial clearance
- ▶ Modular design for orbital TIG Cold Wire, Hot Wire or Plasma welding
- ▶ Perfectly adapted to tube and pipe welding or plates of medium-sized and heavy wall thicknesses
- ▶ Reproduces all movements of a manual welder and completes the weld in a series of passes
- ▶ Especially designed for welding under hard conditions in workshop or on site
- ▶ Narrow Gap Welding for further productivity increase

Resulting from 60 years' experience in orbital and automated welding

General characteristics

Motorised Arc Voltage Control (AVC) and Torch Oscillation Control (OSC) for multi-pass welding of medium and heavy wall tubes and pipes

Closed loop regulation to ensure precise, constant or pulsed welding speed

Declutching device allowing quick winding of the bundle

Torch with ceramic nozzle and gas lens for laminar gas protection

Encoder to control the welding cycle according to the angular position of the electrode

Particularly designed for high duty cycle applications by means of high temperature resistant materials and closed loop water cooling

LP "Low Profile" version designed for use in areas with reduced axial clearance

On-board wire feeder with wire straightener, 0.5 or 1.5 or 5 kg spool according to models



Optimised radial clearance with integrated wire feeder with wire spool Ø50 or 4"



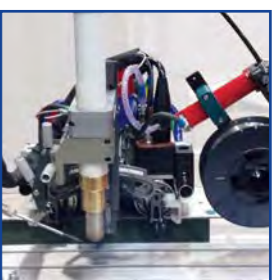
Torch block with AVC/OSC cross slides and adjustable wire guide



Torch module "V2 Narrow Gap", for wall thicknesses up to 75 mm



"Narrow groove" torch module for wall thicknesses up to 300 mm



« Plasma » torch module

Smart
Welding
Stations



▶ P6 series

From 300 to 520 A in welding current, 140 A in hot wire current, "all applications" programming by PC or touch screen, with Arc Voltage Control (AVC) and Torch Oscillation Control (OSC), three-phase power supply



▶ PC series

550 A welding current, 160 A hot wire current, modular and multi-axis design allowing perfect adaptation to different applications, three-phase power supply



Guide-rings for Polycar 30



Guide-rings for Polycar 60



Guide-rings for Polycar MP

▶ Pistes

Chromium guide rings for all tube and pipe O.D.s with adapted feet

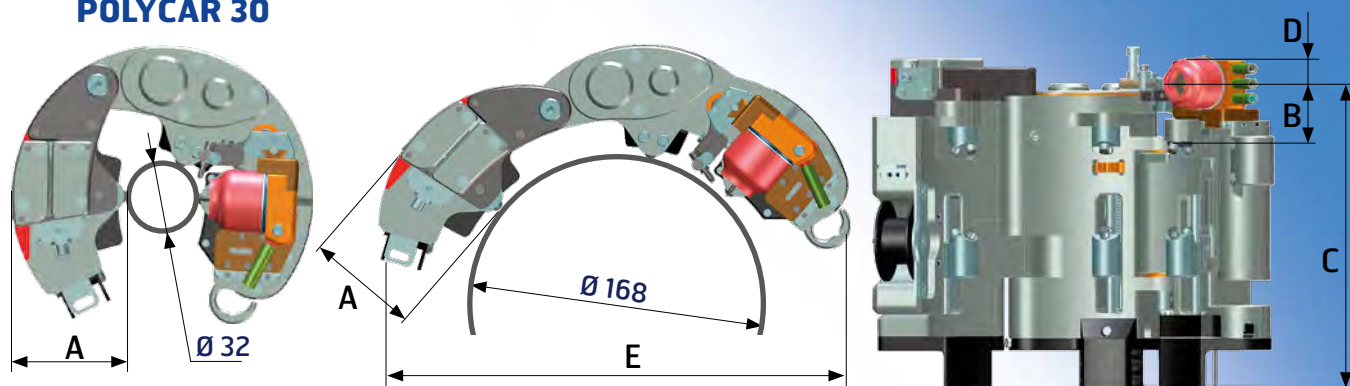


▶ Polyview WDR

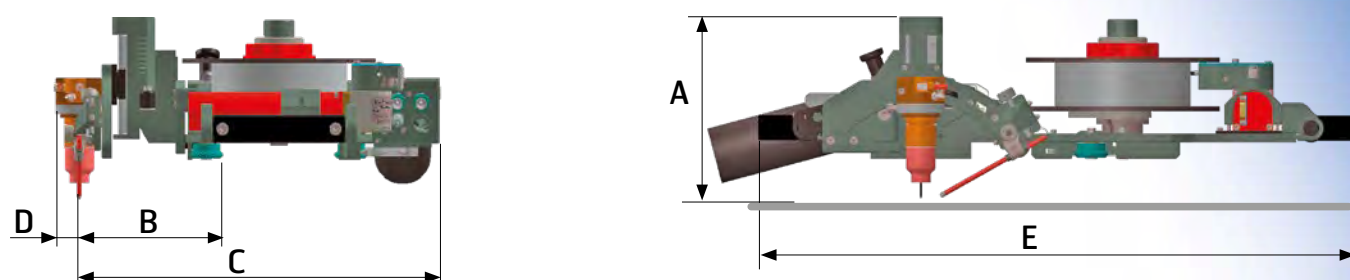
WDR video system for weld monitoring and analysis; in addition to the DAQbox, synchronization makes it an ultra-efficient Quality tool

Dimensional features

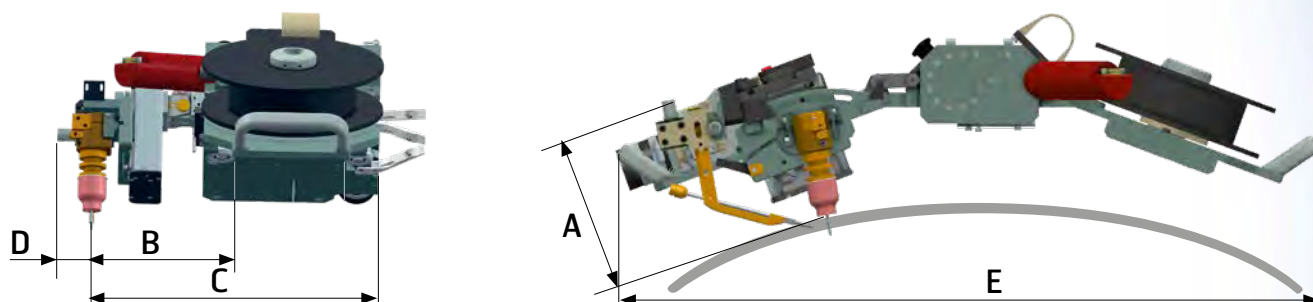
POLYCAR 30



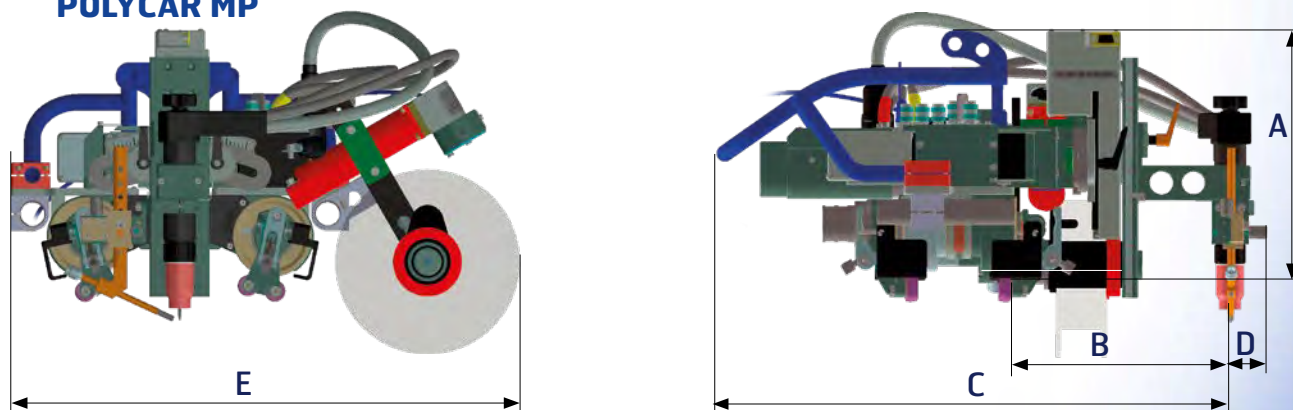
POLYCAR 60-2



POLYCAR 60 PLC



POLYCAR MP



Dimensions in mm

	A	B	C	D	E ^(#)
Polycar 30	60 (75 LP vers.)	39 ± ⁵	185	15	255
Polycar 60-2	197 ^(*)	146.5 ± ³⁰	435	27	618
Polycar 60 PLC	150	158 ± ³⁰	315	40	710
Polycar MP	290 ^(*)	275 ± ³⁵	600	40	450

(*) Values without manual offset

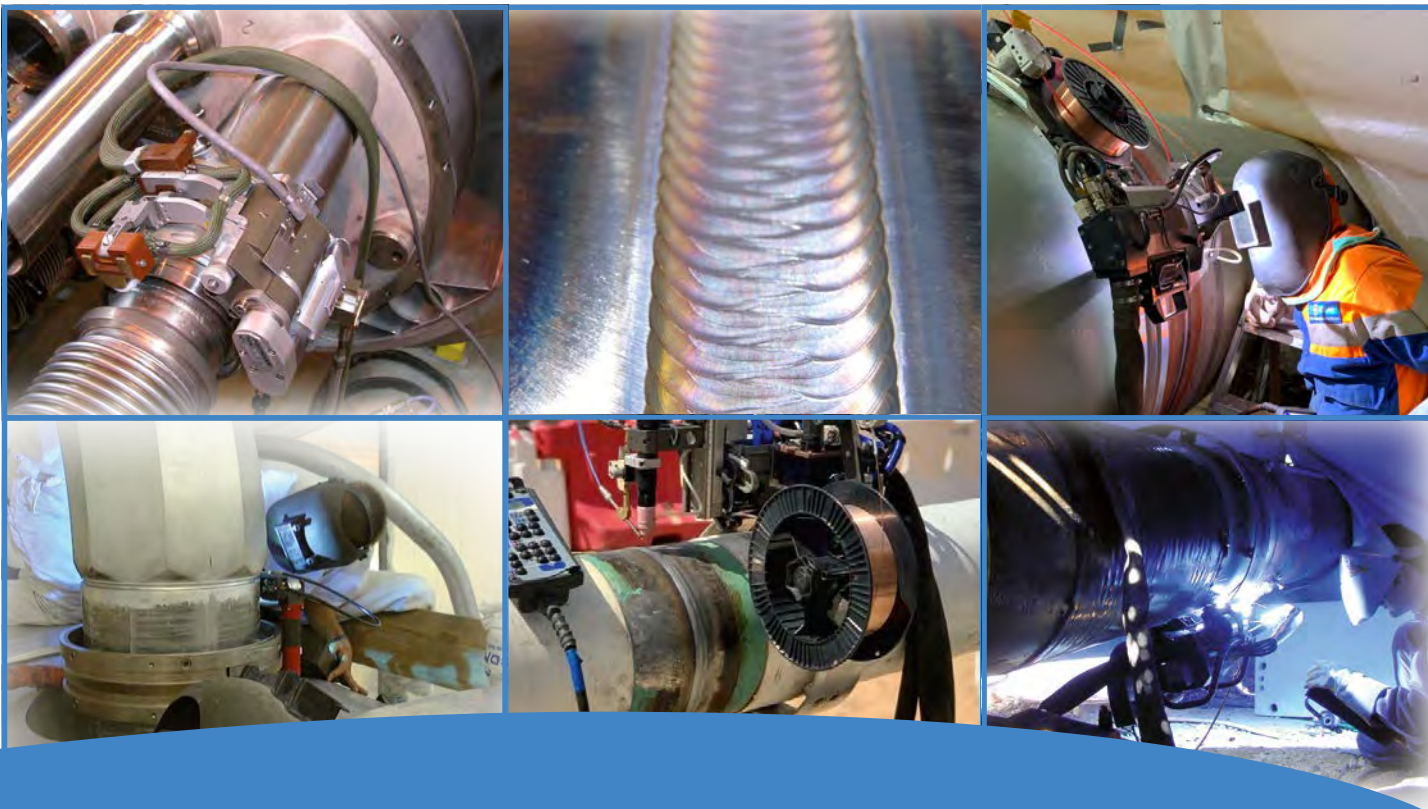
(#) Values given for information only

Technical specifications

	POLYCAR 30	POLYCAR 60-2	POLYCAR 60 PLC	POLYCAR MP
Welding process	TIG CW	TIG CW TIG HW	TIG CW TIG HW	TIG CW TIG HW Plasma
Tube O.D. (mm)	32 (1¼") ≤ O.D. ≤ 168 (6")		≥ 168 (6")	
AVC / OSC stroke (mm)	10 / 10	60 (30 LP vers.) / 60	60 / 60	69 / 69
Duty cycle (A) 100% / 60%	200 / 200	250 / 300		400 / 450 (Plasma : 350)
Electrode diameter (mm)	2.4	2.4 (std) / 3.2 / 4.0	2.4 (standard) / 3.2 / 4.0	2.4 (standard) / 3.2 / 4.0
On-board wire spool diameter	50 mm (0.5 kg) LP version(*) or 70 mm (1.5 kg)	200 mm (5 kg)	200 mm / 5 kg	200 mm / 5 kg
Max. wire feeder speed (mm/min)	CW	2000	2068	4800
	HW	/	7929	4800
	CW vers. LP	2000 mm / min	2408	/
Wire diameter on standard equipment (mm)	Ø 0.8		Ø 0.8 (other diameters on request)	
Cable bundle length (m)	15	9	15	15
Welding carriage weight excl. cable (kg)	3	9	12	16

(*) LP = Low Profile

Adapted for all your applications!



Options and accessories

- Guide rings for all tube and pipe O.D.'s or straight guides for all length of plates
- Polyview video system adapted according to POLYCAR models
- Adapted Polyview video system according to POLYCAR models
- Extension cable (15 m)
- Compact shipping case for transport and storage
- Tungsten electrodes, pre-sharpened and pre-cut

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 11 00
info@polysoude.com

AUSTRALIA
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
info@polysoude.com

AUSTRIA
POLYSOUDE AUSTRIA GmbH
☎ +43 (0) 3613 200 36
austria@polysoude.at

BAHRAIN
SALWO TRADING Ltd.
☎ +971 (0) 48 81 05 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 11 00
info@polysoude.com

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

CANADA
MAG Tool – West
EDMONTON - ALBERTA
☎ +1 800 661 9983
magtool@magtool.com

MAG Tool – East
TORONTO - ONTARIO
☎ +1 905 699 - 5016
ray@magtool.com

CHINA
POLYSOUDE SHANGHAI CO. Ltd
☎ +86 (0) 21 64 09 78 26
jm.pan@polysoude.com.cn

CROATIA
EUROARC D.O.O.
☎ +385 (0) 1 2 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
☎ +2 02 22 02 99 79
info@steeltecheg.com

ESTONIA
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
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 11 00
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 11 00
info@polysoude.com

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

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

JORDAN
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
info@polysoude.com

KUWAIT
SALWO TRADING Ltd.
☎ +971 (0) 48 81 05 91
salwo@emirates.net.ae

LATVIA
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
info@polysoude.com

OMAN
SALWO TRADING Ltd.
☎ +971 (0) 48 81 05 91
salwo@emirates.net.ae

PAKISTAN
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
info@polysoude.com

PHILIPPINES
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
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 11 00
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 11 00
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 11 00
info@polysoude.com

TURKEY
EGE MAKINE
☎ +90 (0) 212 237 40 40
info@egemakine.com

UNITED ARAB EMIRATES
SALWO TRADING Ltd.
☎ +971 (0) 48 81 05 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.
☎ +1818 (859) 7600
sales@astroarc.com

VENEZUELA
ENRIVA C.A.
☎ +58 (0) 412 34 82 602
enriva@gmail.com

VIETNAM
ANH DUONG IT 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) 20 271 27 678
ab.kulkarni@polysoude.in

INDONESIA
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
info@polysoude.com

IRAN
STD CO
☎ +98 21 88525206-7
najco_ir@hotmail.com

ISRAEL
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
info@polysoude.com

ITALY
POLYSOUDE ITALIA SRL
☎ +39 02 93 79 90 94
info@polysoude.it

LITHUANIA
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
info@polysoude.com

MALAYSIA
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
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 11 00
info@polysoude.com

NORWAY
TEMA NORGE AS
☎ +47 (0) 51 69 25 00
tema@tema-norge.no

PORTUGAL
POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
info@polysoude.com

QATAR
SALWO TRADING Ltd.
☎ +971 (0) 48 81 05 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 21 57 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 81 05 91
salwo@emirates.net.ae

This document is not contractual. Typographical errors & omissions excluded. - Copyright - POLYSOUDE™ - 12/2021



POLYSOUDE
THE ART OF WELDING

Find us on



Polysoude S.A.S.
Z.I. du Bois Briand • 2 rue Paul Beaupère
F - 44300 NANTES

☎ +33 (0) 2 40 68 11 00 • 📠 + 33 (0) 2 40 68 11 88
🌐 www.polysoude.com • 📧 info@polysoude.com