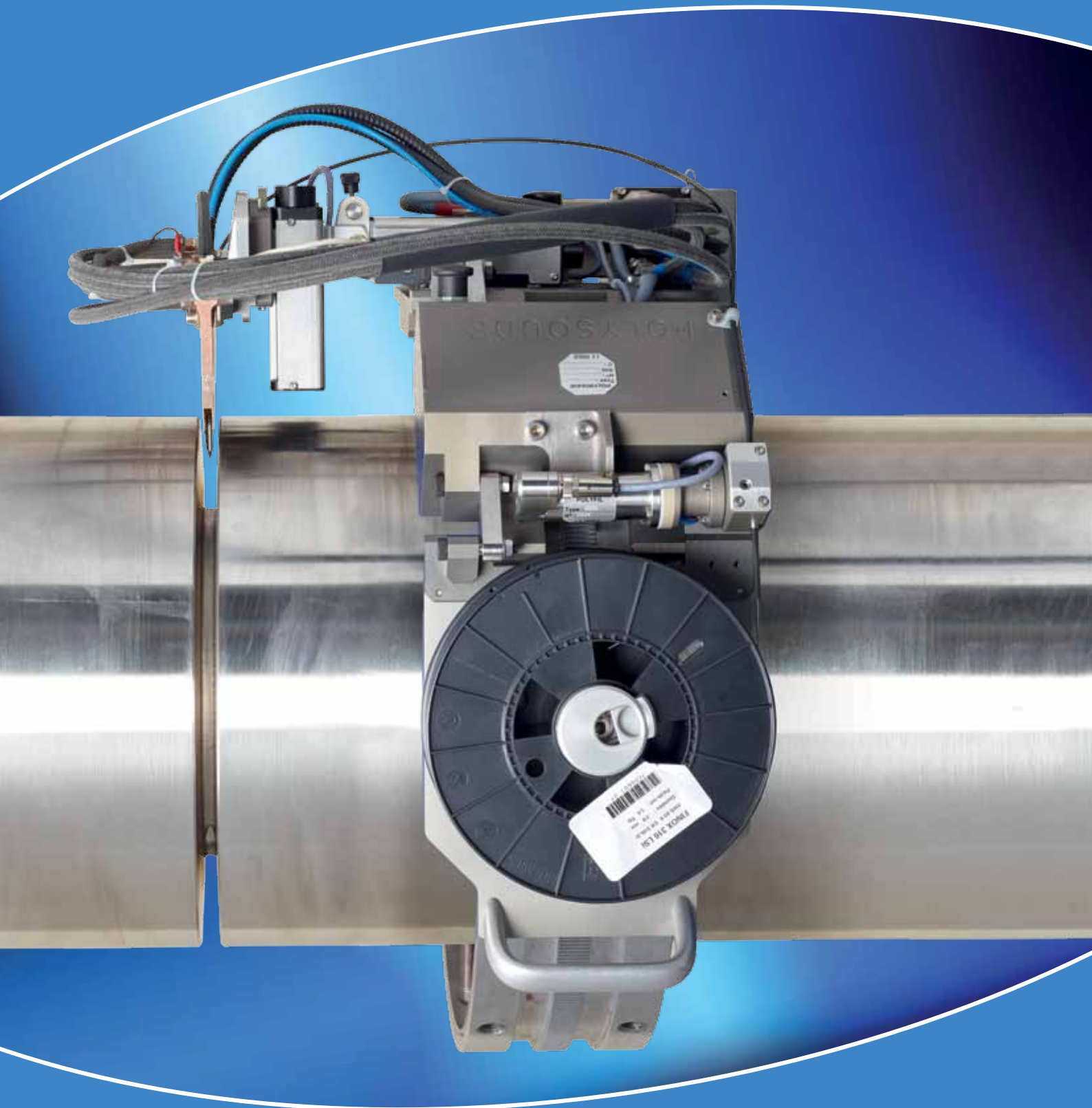




# POLYCAR 60 PLC

TIG - Cold Wire, Hot Wire, AVC, OSC

**Open carriage-type welding head**  
for welding of tubes and pipes



# POLYCAR 60 PLC

## Open carriage-type welding head

for multipass TIG welding of tubes and pipes, especially in primary loop circuits in nuclear power plants

Highest flexibility and productivity

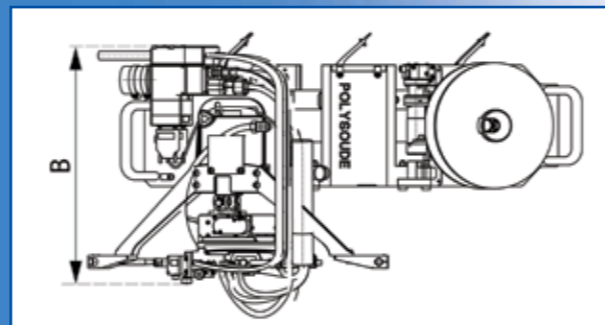
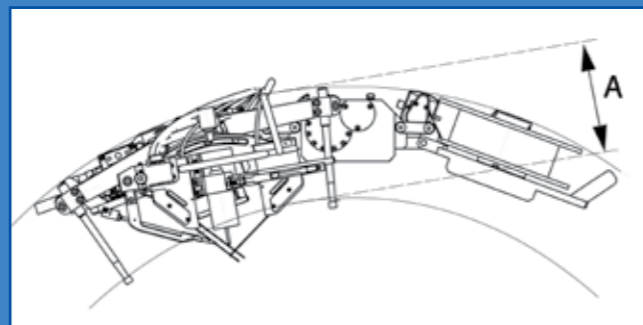
### Advantages

- ▶ Orbital TIG carriage welding head (hot/cold wire) for tubes and pipes
- ▶ Perfectly adapted to tube and pipe welding of medium and heavy wall thicknesses, narrow gap welding up to 100 mm (3.9") groove depth
- ▶ The welding head travels around the tube on a premounted guide ring
- ▶ The full function welding head reproduces all motions of a skilled manual welder and completes the weld in a series of passes

Resulting from over 50 years' experience in mastering welding technologies



Mechanical seam tracking



Dimensions		
A	150 mm	5.9"
B	378 mm	14.9"

## General characteristics

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

"Narrow Gap" torch for root pass and filling, standard torch for weld finish

Motorised Arc Voltage Control (AVC) and Torch Oscillation Control (OSC) for multipass welding of medium and heavy wall thicknesses

Rotation clutch device for quick cable winding

Low profile design for use in areas with constrained radial and axial clearance

Integrated wire feeder with 5 kg (11 lbs) spool



"Narrow Gap" torch with wire guide and integrated camera



Finishing torch with camera



Video container

## Technical specifications

Outside diameter / Wall thickness	
Diameter range	≥ Ø 168 mm - 6.6"
Maximum wall thickness	100 mm - 3.9"
Torches	
Finishing Torch	"Conventional"
Narrow Gap Torch	Narrow Gap 100
AVC (Arc Voltage Control) and OSC (Torch Oscillation Control)	
Maximum travel speed	1500 mm/min - 59.1 in/min
Stroke	60 mm - 2.4"
Motor	Stepper motor
Manual offset slide	
Axial travel	30 mm - 1.2"
Radial travel	85 mm - 3.3"
Wire feeder	
Type	Polyfil 4800 HW
Maximum wire feeding speed	4800 mm/min - 189 in/min
Spool weight / recommended wire diameter	5 kg - 11 lbs / Ø 0.8 mm - 0.03"
Dimensions and weight	
Cable length	15 m - 49.21 ft
Weight (excl. cable)	12 kg - 26.5 lbs
Dimensions of the welding head	See drawings

Associated Power Sources



### ▶ P6 / P6 HW

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



## Options and accessories

- Guide rings for all tube and pipe O.D.'s
- Extension cable (15 m - 49.21 ft)
- Tungsten electrodes, pre-sharpened and pre-cut
- Tool kit for daily operation
- Compact shipping case for transport and storage
- Video container equipped with two monitors, recorder and control for two cameras

# 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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