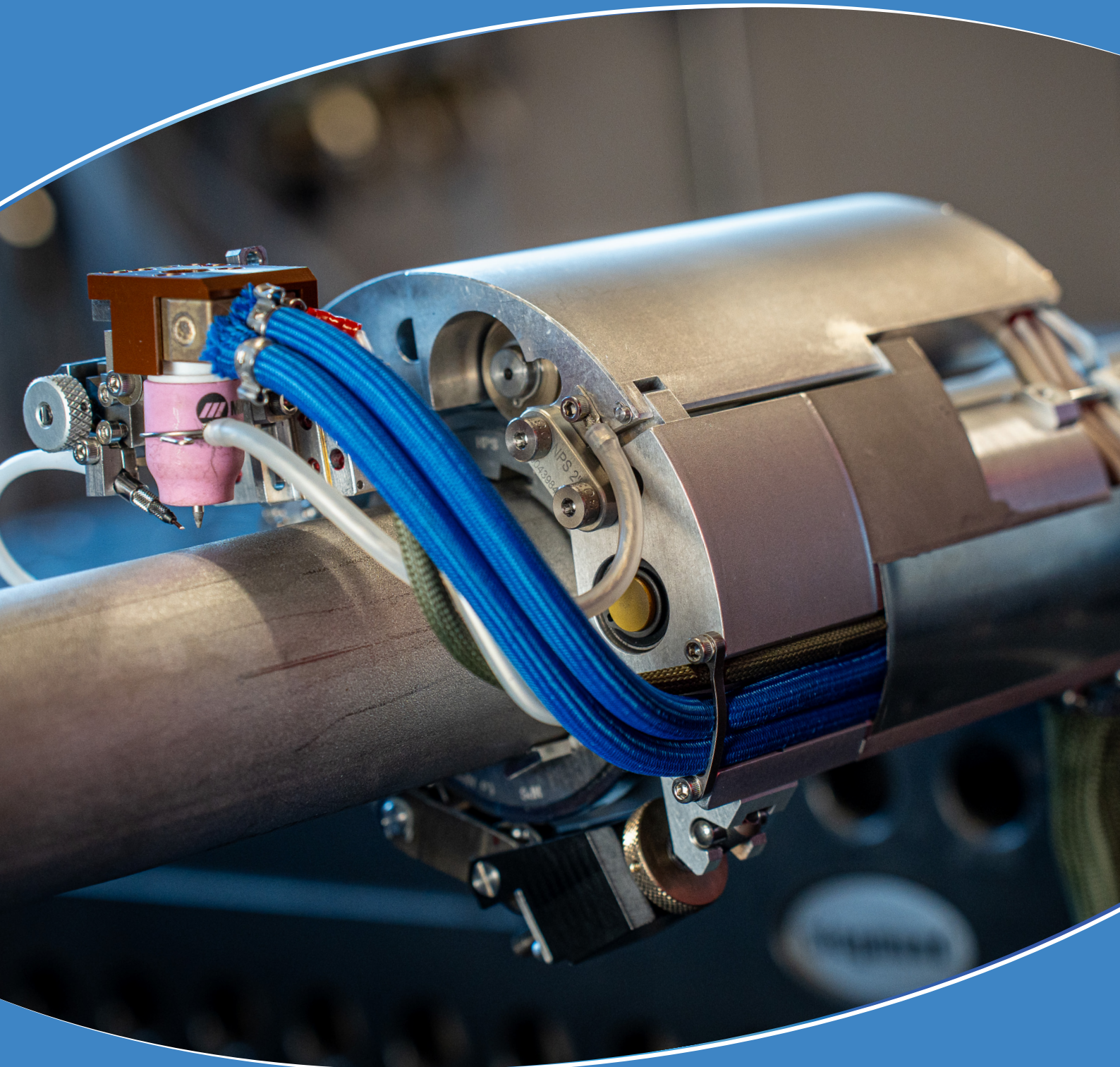


POLYCAR 51 LRC

TIG - Cold wire, AVC, OSC

"Low Radial" Open-type carriage welding head
for welding of tubes and pipes



POLYCAR 51 LRC

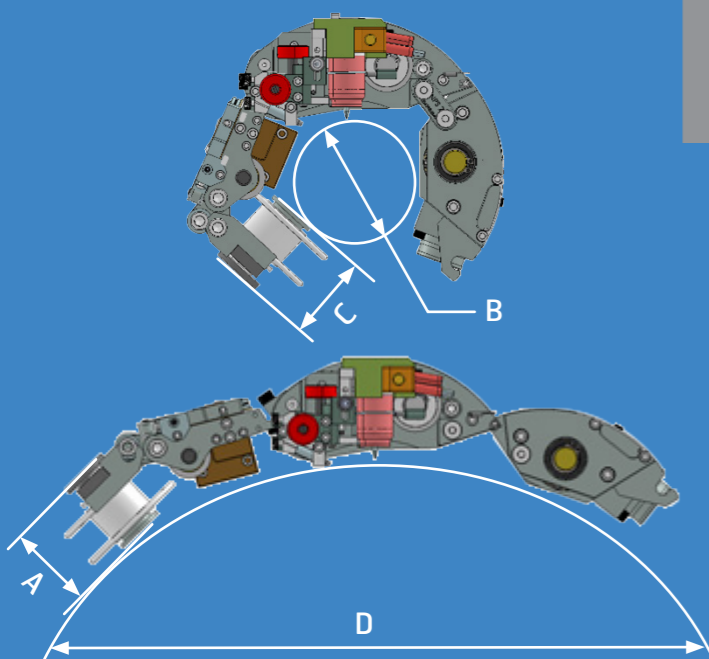
Carriage welding head
for welding of tubes and pipes

Highest flexibility and quality

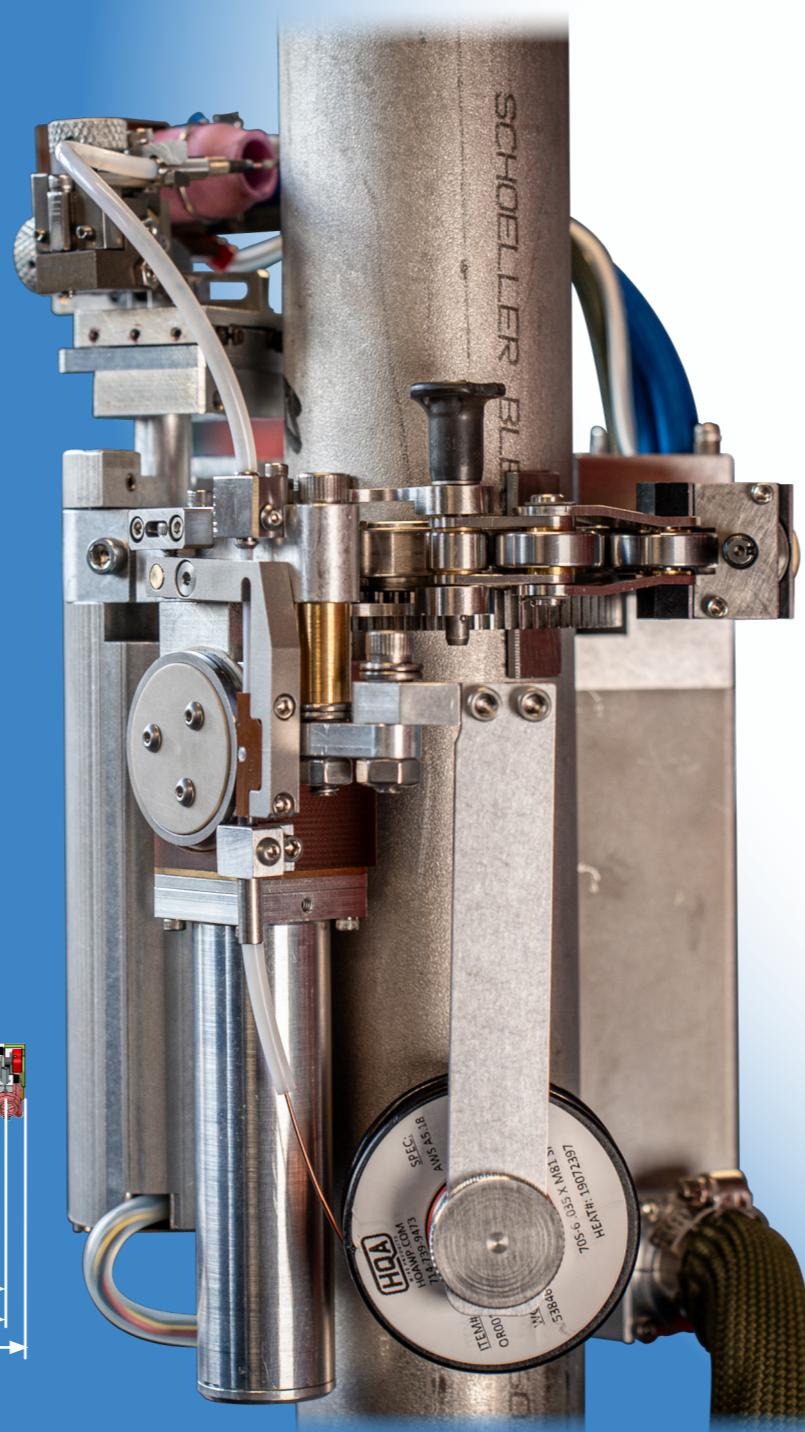
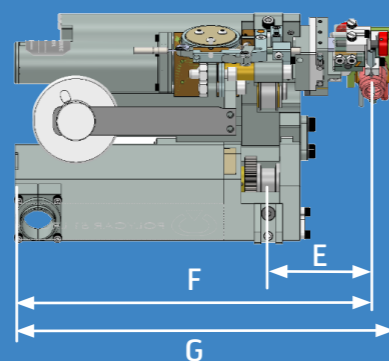
Advantages

- ▶ Extremely compact for minimum radial clearance of 2"
- ▶ Mounting and dismounting in less than one minute
- ▶ Simplified handling and adjustment
- ▶ Especially designed to fulfil highest weld quality standards for all weldable materials (TIG)
- ▶ Reproduces all movements of a manual welder and completes the weld in a series of passes
- ▶ The welding head travels around the tube on a premounted guide ring

Resulting from over 50 years' experience in mastering welding technologies



Dimensions en inch - mm	
A	2 (with the low profile wire spool)
B	3.1 - 78
C	9.5 - 240
D	0.5 - 13 mm



General characteristics

Top-loaded electrode providing quick and easy setup

Torch with extra large ceramic nozzle and gas lens for high quality laminar gas protection

Motorised Arc Voltage Control (AVC) and Torch Oscillation Control (OSC) for multipass welding

Low Profile designed for use in areas with reduced radial clearance of 2"

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

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



For all weldable materials (TIG)



Integrated wire feeder with mini or standard wire spool for optimised radial clearance

Technical specifications

Outside diameters	
Diameter range	2" to 14"
Torch	
Type	Special TIG torch with extra large gas lens
Cooling	Closed loop water cooling
AVC - Arc Voltage Control	
Maximum travel speed	20"/min
Stroke	1/2"
Motor	Stepper motor
OSC - Oscillation Control	
Maximum travel speed	60 in/min
Stroke	3/4"
Motor	Stepper motor
Wire spool	
Type	On board
Maximum wire feeding speed	80 in/min
Spool weight / recommended wire diameter	2lbs - 0.035"
Dimensions and weight	
Welding head with cable length	30"
Weight (excl. cable)	8.4 lbs
Weight (with cable)	34 lbs

Associated Smart Welding Stations



▶ P6

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



▶ PC-2 Smart

300 to 550 A, modular design for perfect adaptation to your application. Interface for mechanised and robotic peripherals, three-phase power supply

Options and accessories

- Guide rings for all tube and pipe O.D.'s
- Extension cable (50 ft)
- Tool kit for daily operation
- Tungsten electrodes, pre-sharpened and pre-cut
- Compact shipping case for transport and storage

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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