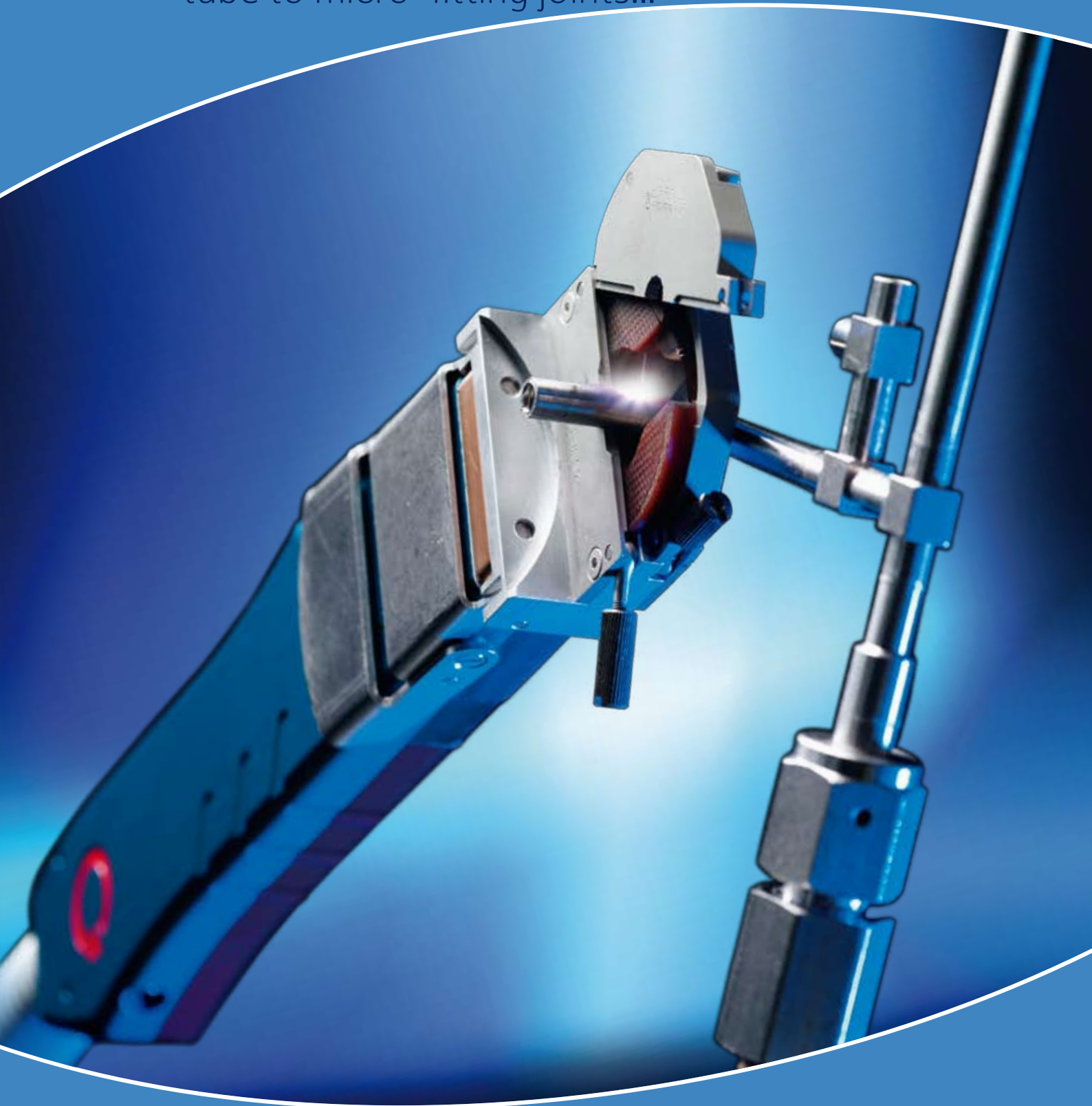




TIG - Without Filler Wire

Closed Chamber Welding Head

for welding of tube to tube joints,
tube to micro-fitting joints...



POLYSOUDE
THE ART OF WELDING



Closed Chamber Welding Head

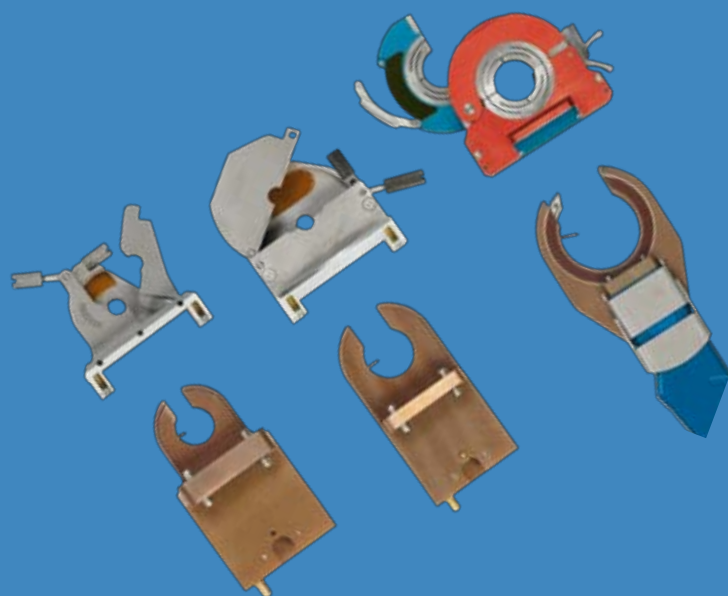
for welding of tube to tube joints,
tube to micro-fitting joints...

A range of modular standard welding heads, perfectly adaptable to your needs

Advantages

- Oxidation-free welds
- Reduced radial and axial dimensions
- Three modules covering a large range of diameters
- Clamping system adaptable to the work piece design for all types of applications

Resulting from 50 years' experience
in mastering welding technologies



Narrow welding head
profile for use in areas
with constrained radial
and axial clearance

Removable Titanium clamping cassettes
(UHP 250-2 and 500-2) or flexible Tube
Clamp Inserts – TCI's™ (UHP 1500-2).
Comply with standard tube O.D. sizes and
tolerances, for hygienic and high purity
requirements

High purity gas circuit to
avoid particle emission
and oxidation

A modular concept:

- unique drive handle
- three electrode gear
modules 1/4"; 1/2"; 1 1/3"
- removable clamping
cassettes



General Characteristics



Return-to-home feature: the
electrode gear automatically
returns to its loading position

Non symmetrical design for welding of fittings
with short stick-out

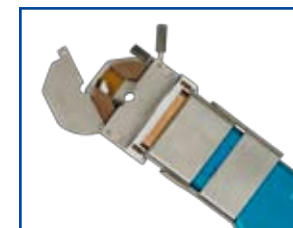
Closed loop regulation to
ensure precise, constant or
pulsed welding speed

LED: home position

Encoder for position based
control of the welding program



Removable Titanium clamping
cassette for UHP 250-2



Removable Titanium clamping
cassette for UHP 500-2



Removable clamping system and
titanium TCI's™ for UHP 1500-2



Removable Fixture-Blocks for all
types of micro-fittings, providing
perfect tube end centring,
alignment and great clamping
force (UHP 500-2)

Associated
Power
Sources



► PS 164-2

160 A, "all inclusive", portable,
single-phase power supply



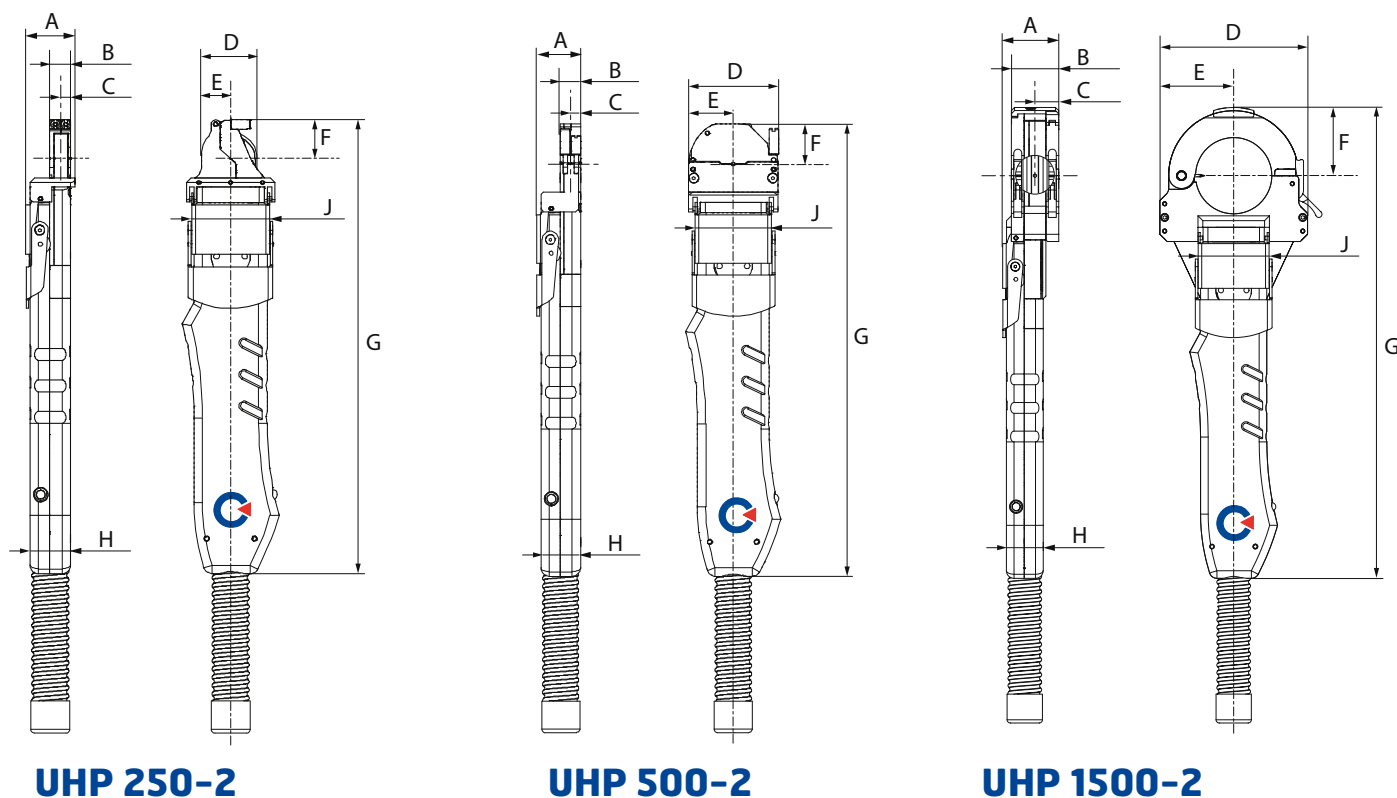
► P4

170 A, "modular", portable,
programming
by PC or touch screen,
single-phase power supply

Type	Tube O.D. in mm / inches	
UHP 250-2	1,60 – 6,35 mm	1/16" – 1/4"
UHP 500-2	3,00 – 12,70 mm	1/8" – 1/2"
UHP 1500-2	6,00 – 33,70 mm	1/4" – 1 1/3"

Type	Dimensions in mm									
	A	B	C	D	E	F	G	H	J	
UHP 250-2	27,8	11,9	5,6	31,6	16,5	22,3	257	22,9	44,5	
UHP 500-2	25,4	12	5,7	51,3	25,7	23	261	22,9	44,5	
UHP 1500-2	35	29	14,75	92	46	42,5	295	22,9	44,5	

Cable length: 5,5 m




Options and Accessories

- Removable Titanium clamping cassettes and Tube Clamp Inserts – TCI's™ for all tube and pipe O.D.s available both in metric and imperial sizes
- Removable Fixture-Blocks for all types of micro-fittings, providing perfect tube end centring, alignment and great clamping force (UHP 500-2)
- Interchangeable electrode gear modules 1/4" ; 1/2" ; 1 1/3" for optimised use of axial and radial clearance around the welding joint
- Extension cable (15 m)
- Dual welding head switch box
- Compact brief-case for transport and storage
- Tungsten electrodes, pre-sharpened and pre-cut
- Tool-kit for daily operations

 Adapting to all your applications!



*"The cleanest welds I have
ever seen."*



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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