

# P3 UHP

TIG - Without filler wire

## Smart Welding Station High Purity

for orbital tube welding

Ready  
4.0 - Smart factory



**POLYSOUDE**  
THE ART OF WELDING

# P3 UHP

## Smart Welding Station High Purity for orbital tube welding

Compatible with all Polysoude™ closed chamber welding heads without filler wire - dedicated to High Purity industries

### Advantages

- ▶ **Ultra-compact:** With optimal space-saving dimensions and lightest weight of only 17kg, it provides the best combination of power density and features available in an automatic welding power source on the market today
- ▶ **High Purity Mission:** While primarily conceived for the Semiconductor market, the P3 UHP's high precision capabilities and impeccable quality make it equally well designed for the most demanding UHP industries and applications
- ▶ **Ergonomically Intelligent:** Intuitive interface with automatic welding head detection and WPS library for a wide variety of welding applications and materials
- ▶ **Ultra-precise:** The P3 UHP's control and programming of the welding current in steps of 1/10 Amperes provides unrivalled precision and exquisite quality
- ▶ **State-of-the-art Capabilities:** The industry leading WiFi connection and functionality allows the Smart Welding Station to interface perfectly with the Industry 4.0 process and the OPC-UA protocol
- ▶ **Modern and scalable:** the installations can be completed with numerous accessories like a wireless barcode scanner, an intuitive remote control pendant and a responsive wireless touchscreen

Resulting from 60 years' experience in mastering welding technologies

\* IoT: Internet of Things



### General characteristics

- LAN and WLAN compatible
- Built-in printer for welding procedure archiving and documentation
- Automatic welding head detection
- Closed loop regulation of torch rotation
- Adjustable mass flowmeters for welding gas control and backing gas with safety valve
- Air-cooling; optional closed loop water cooling system with safety valve for welding head and torch
- Auto-range 115 - 230 V single phase  
±10% compatible with field power generators



LAN/WLAN based programming by free-of-charge "Plug & Play" software for tablet or Windows® PC



USB memory stick for saving, loading and archiving of welding programs and monitored welding data



Gas flow control by a mass flow sensor adjustable by a button, the set flow rate is shown on a display



Barcode scanner: automatic selection of the welding programme, improved documentation, etc.

### Associated Welding Heads



#### ▶ UHP Series

Closed chamber welding heads, dedicated Ultra High Purity, for TIG tube-to-tube welding without filler wire



#### ▶ Cooling

External cooling unit with water flow safety for high duty-cycle welding heads

### Accessories



#### ▶ Switch box

Alternate use of two welding heads including automatic selection of the corresponding welding programme



#### ▶ Remote control pendant

Full function remote control with welding program selection

#### ▶ Compatibility

with standard peripheral equipment: printer, DAQbox data acquisition, oxygen indicator, etc.

