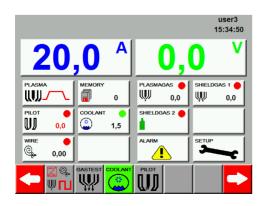




PMI - 350 TL - Powder

User friendly plasma powder equipment for high-tech welding solutions

Intuitive Touch Screen

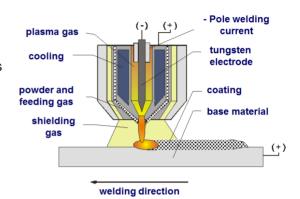




Plasma Powder Source DC

Multi-functional unit – the perfect equipment for plasma welding.

- PLASMA/TIG/MMA processes
- · Highly stable plasma arc
- · High deposition rates for shorter welding times
- Homogeneous, porosity and spatter free coatings
- · Integrated program memory
- · Easy to automize
- · User-friendly touch display
- · Cooling unit with monitoring



Plasma welding has important advantages and offers an attractive alternative to laser welding where high quality is required, particularly for metal sheets and other components.

However, unlike TIG welding, the arc is constricted and concentrated via a copper nozzle. This enables a higher power density. The high concentration of the arc enables square butt welding, avoiding the need for "V" or "J" type joint preparations. Dramatic reductions in the use of filler wire become possible.

The high power density arc permits much higher welding speeds compared to TIG – often increases of 100% or more are attainable; not only does this save time and money, deeper weld penetration is an added benefit. The tungsten electrode has a far longer life as it is positioned inside the plasma nozzle and is thus protected from contamination.

The use of a pilot arc to initiate the transferred welding arc eliminates the risk of HF interference with automated equipment. Often 10,000 or more welds can be made before the electrode needs replacement.

The welding filler alloy, in gas atomized powder or cold wire form is conveyed into the weld pool where the shielding gas protects it from the atmosphere. The plasma arc and the heat input can be far better controlled than a conventional electric arc and the energy is almost completely spent to melt the filler metal, reducing the heat input and dilution to the minimum.

An automation interface enables the unit to be used in robotic and automated applications.



Technical Specifications

Specifications PMI - 35	0 TL - Powder	
Mains voltage	3 x 400 V AC ± 15% 50/60 Hz ± 1%	PMI -350
Power connection	4 x 32 A CEE plug, 6 mm ²	20,0 1 0,1
Torch connection	Single connector	
Welding current (60% duty-cycle)	320 A	
Welding current (100% duty-cycle)	290 A	
Control range	3 ÷ 350 A	
Control range pilot current	0,5 ÷ 50 A	** ** ** ** **
Type of protection	IP 21 S	
Electronic plasma gas control	0,1 ÷ 5,0 l/min	



Technical changes and mistakes reserved

Applications

Manual shielding gas control

Manual powder gas control

Dimensions (LxWxH)

Weight



1,0 ÷ 25,0 l/min 0,5 ÷ 5,0 l/min

1200x520x940 mm

105 kg



WELDING

Equipment and Accessories

Powder Feeder PF2 Item no.: 1024594 Carries gas Ar, Ar-H2 Carries gas flow 0 ÷ 7 l/min Powder reservoir 1,51 IP23 Protection class Weight (without ca. 8,0 kg powder) **Dimenssions** 285 x 235 x 400 (LxWxH) mm Powder feed rate 3-120 g/min, depending on feeding wheel configuration, torch, anode and powder density.

Torch PP400 Item no.: 1025728 (6m)	
Type of torch	Powder machine torch
Construction	vertical
Max. current at 100% duty-cycle	400 A
Powder flow rate *	max. 80 g/min
Cooling	Liquid
Hose pack length	4 m** / 6 m
*Max. feeding rate do powder density, powder density, powdend type of anode. ** optional hose pack	der feeder settings

Torch PP280 Item no.: 1025423 (4m)	
Type of torch	Powder manual torch
Construction	Hand-held 70° torch
Max. current at 100% duty-cycle	280 A DC
Powder flow rate *	max. 80 g/min
Cooling	Liquid
Hose pack length	4 m / 6 m**
*Max. feeding rate do powder density, powder and type of anode. ** optional hose pack	der feeder settings

Remote control RC-S

Remote control to start pilot / plasma, analog potentiometers and control LED's including 5 metres connecting cable

Tungsten Grinder

Item no.: 1006908

Sharpens electrodes precise and simple in longitudinal shape.

For Ø 1,0 ÷ 4,0 mm

Accessories

Böhler Guardian 62 *Item no.: 32373*



Böhler Guardian 62 Air complete Item no.: 56997

Böhler Welding Gloves MIG/MAG Premium

Item no.: (M/9) 61137 / (L/10) 53095 / (XL/11) 60310



Consumables

For suitable powder products please refer to the high quality product range UTP PLASweld™ of voestalpine Böhler Welding UTP Maintenance GmbH

www.voestalpine.com/welding/de/Marken/UTP-Maintenance

