



Plasma Welding Torch Plasma-Powder Welding Torch

Highly effective 2-circuit cooling system

Small torch neck measurements

Optional use of filler metal powder with PLP-torches

Advantages of Plasma Welding

- High energy density of the arc
- Very high welding speed, much higher than with MSG- or TIG-processes
- Highest quality welding process for homogeneous and pore free welding seams
- Spatter free, almost no rework needed
- Very reliable ignition
- Fusion penetration and intermixture of materials can be influenced precisely (for cladding)



TBi PLP 300
Plasma- / Plasma-Powder-Welding up to
300 A with a very small torch head



TBi PL 200 Aut
Robotic welding torch assembly
with adjustable cold-wire guiding unit

■ TBi PL 200 (S, L, Aut) / PLP 200 Aut Plasma- / Plasma-Powder Welding Torch

Technical data

Voltage type	DC voltage
Operating voltage	15 - 40 V
Welding current	50 - 200 A DC
Duty cycle	100% (10 min. cycle), with use of an active cooling unit
Pilot current	5 - 10 A, 100% duty cycle
Tungsten electrode	Ø 2.4 mm
Cooling method	2-circuit water cooling
Technical specification	according to IEC 60974-7

Additional technical data for PLP 200 Aut

Filler metal	Metal powder, carbide powder
Powder flow rate	max. 35 g/min

Highlights of the TBi PL 200 (S, L, Aut)

- Optimized useability due to remote control in torch handle
- Very efficient cooling of the plasma nozzle
- S version with very manageable and lightweight design
- Optional cold wire guide



TBi PL 200-S



TBi PL 200-L



TBi PL 200 Aut, Robotic welding

■ TBi PLP 300 (Aut) Plasma-Powder Welding Torch

Technical data

Voltage type	DC voltage
Operating voltage	15 - 40 V
Welding current	50 - 300 A DC
Duty cycle	100% (10 min. cycle) with use of an active cooling unit
Pilot current	5 - 10 A, 100% duty cycle
Tungsten electrode	Ø 4.0 mm
Filler metal	Metal powder, carbide powder
Powder flow rate	max. 80 g/min
Cooling method	2-circuit water cooling
Technical specification	according to IEC 60974-7

Highlights of the TBi PLP 300 (Aut)

- Optimized useability due to remote control in torch handle
- Very efficient cooling of the plasma nozzle



PLP 300



PLP 300 Aut, Robotic welding

Options for all torches

- All torches can be equipped with connectors to any kind of machine
- Cold-wire guide

Please note

All torches are operated with DC voltage. The tungsten electrode is connected to minus.



Application example

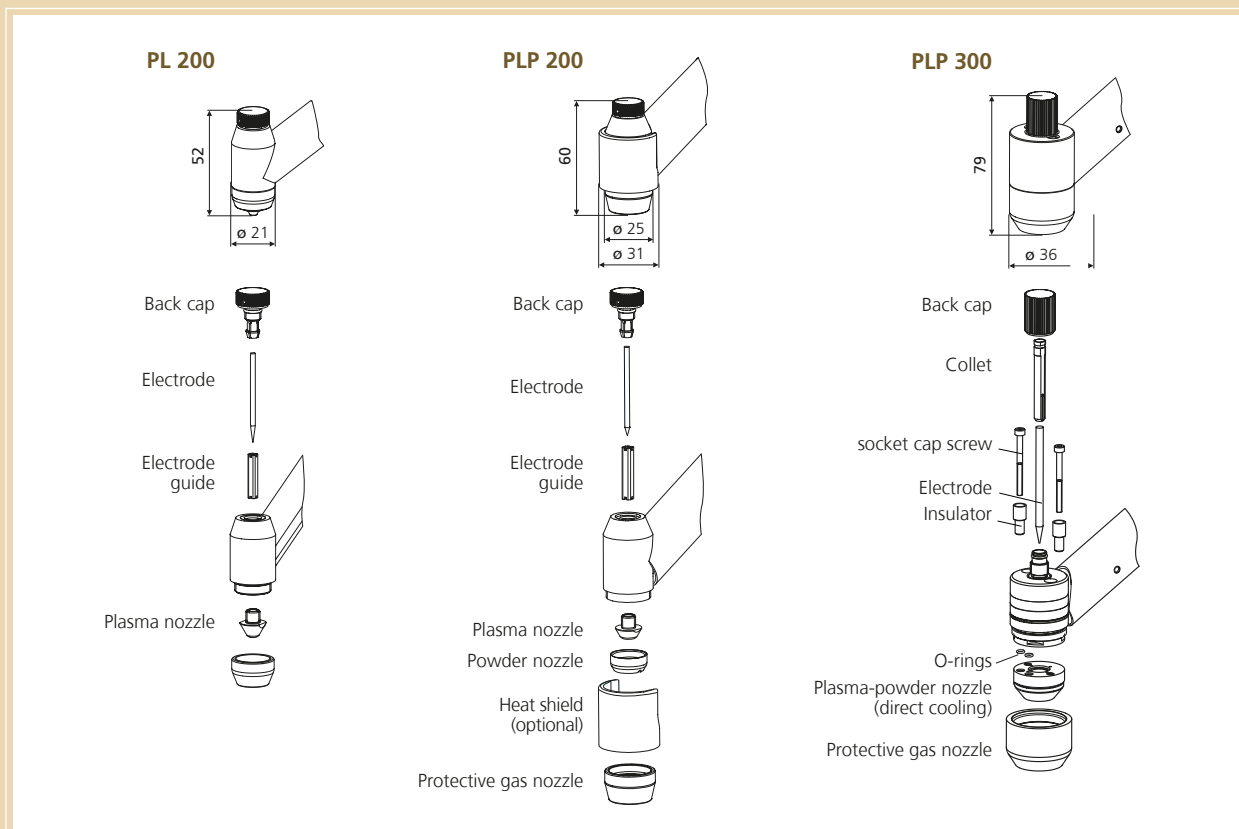
Plasma-powder hard cladding with powder on ploughshare: after outlining the shape, it will be filled with hard coating (Plasma-powder process).



Ready for Tomorrow.

Advantages of TBi Plasma Welding Torches

- Highly effective 2-circuit cooling system for a long life of torches and spare parts
- Small torch dimensions with high welding capacity allow for good access to the workpiece
- Plasma torches with multiple uses for joining and cladding (without filler metal, with rods, with wires, with powder), in manual or automatic versions



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