



# PSW 500 TL Factsheet

The plasma point welding device is used for sheet metal up to 2.5mm (PSW 350TL) or 3.5mm (PSW 500TL).

Mainly used materials for plasma spot welding are stainless steels, steels, titanium, zirconium and copper.

## TECHNICAL DETAILS

- high procedural security
- high degree of automation
- high productivity due to high welding speed

<b>Applicable Welding Methods</b>	• PLASMA Spot Welding
<b>Range of suitable material thickness (Plasma spot welding)</b>	~ 0,5 – 4 mm
<b>Automation</b>	• Capable for automation
<b>Operating modes</b>	DC
<b>Supply Voltage</b>	3 × 400 V ±15 % 50/60Hz
<b>Phase</b>	3 Phase
<b>Power connection</b>	4 × 32 A CCE plug, 6 mm <sup>2</sup>
<b>Adjustment range welding current</b>	5 – 500 A
<b>Adjustment range TIG mode</b>	5 – 500 A
<b>Adjustment range MMA mode</b>	5 – 450 A
<b>Cooling</b>	Liquid
<b>Degree of protection</b>	IP 21 S
<b>Length</b>	1120mm
<b>Width</b>	450mm
<b>Height</b>	935mm
<b>Weight</b>	112kg
<b>Features</b>	<ul style="list-style-type: none"> <li>• Power source with HF-ignition</li> <li>• Touch Screen 5,4"</li> <li>• USB interface</li> <li>• Ethernet interface</li> <li>• Integrated welding program memory</li> <li>• Integrated cooling</li> <li>• Integrated monitoring / gaging of cooling medium</li> <li>• Integrated electronic gas regulation (PGR)</li> <li>• Integrated control of wire feeder / powder feeder (MCC)</li> <li>• Integrated control of wire feeder / powder feeder (MCU-M)</li> <li>• Integrated control of wire feeder and free wheel encoder (MCU-MI)</li> <li>• Integrated control of 2 wire feeders and free wheel encoder (MCU-MSI)</li> <li>• Integrated automation interface</li> <li>• Software for external controlling via computer (diagnostics, parameter setup, documentation)</li> <li>• Mobility by wheels</li> <li>• Parking area for 20l gas bottle</li> <li>• Flowmeter shielding gas</li> <li>• Flowmeter plasma gas</li> <li>• Remote Control RC-S</li> <li>• HPP1 - High Pressure Pump (1 circuit)</li> <li>• HPP2 - High Pressure Pump (2 circuits)</li> <li>• Plate Heat Exchanger</li> </ul>
<b>Automation Interface "Tiny"</b>	• Included
<b>Digital Inputs</b>	2 × 24 V
<b>Digital Outputs</b>	3 × 24 V
<b>Analog Inputs</b>	2 × 0 – 10 V
<b>Analog Outputs</b>	2 × 0 – 5 V
<b>CAN Bus (SBI protocol)</b>	• Included
<b>Automation Interface "AS/AD Basic"</b>	• Included
<b>Digital Inputs</b>	10
<b>Digital Outputs</b>	10
<b>Analog Inputs</b>	4

<b>Analog Outputs</b>	4
<b>KTY Input</b>	1
<b>CAN Interface</b>	• Included
<b>Connection cable</b>	5m
<b>Capability for / availability of specific bus interfaces</b>	• Included

## Torches Recommended for Use



PS400-M



PS400FH-R

## About SBI GmbH

SBI was founded in 1999 with the aim of developing rapid prototyping technologies. SBI has therefore developed its plasma technologies and built welding solutions. From automated solutions for coating technologies to the repair of forging dies or plasma arc deposition machines for the maintenance of aircraft turbines, SBI has established world-renowned references in the field of arc deposition plasma. Since 2009, SBI has established itself as the main supplier of its plasma-based technology for the 3D manufacturing of aeronautical parts.

Besides its renown portfolio of superior plasma inverter systems and plasma welding equipment, SBI has been developing its own additive manufacturing machines. The manufacturer put the metal additive manufacturing system M3DP on the market in 2019.

