



PMI - 50 TL3 Factsheet

Microplasma - The ideal solution for welding thin sheets with a thickness of up to ~ 1mm. The lowest adjustable welding current is 0,2 Ampere.

TECHNICAL DETAILS

The arc is constricted by a copper nozzle, which results in a high power density. The concentrated arc, in conjunction with the controllable plasma gas, enables higher welding speeds and deeper penetration (root welding) to be achieved, which saves time and money. The strong bundling of the arc and the welding speed mean that only a narrow heat-affected zone is formed, which results in less thermal distortion in the component.

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PMI - 50 TL3

VAT-no.: ATU 74592719 Commercial register no.: FN 515241 h LG: Korneuburg Bank details: Raiffeisenbank Wels eGen Bank code: 34680 Account no.: 60.2862

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Applicable Welding Methods	• PLASMA Seam Welding • PLASMA Brazing • PLASMA Coating
Range of suitable material thickness (Plasma seam welding)	~ 0.1 – 1 mm
Automation	Capable for automation
Operating modes	DC
Supply Voltage	230 V ±15 % 50/60Hz
Phase	1 Phase
Power connection	Gardy plug, 2.5 mm²
Max. welding current at 35 $\%$ duty cycle (40 $^\circ C)$	50A
Max. welding current at 100 % duty cycle (40 °C)	30A
Adjustment range welding current	0.2 – 50 A
Max. pilot current at 35 % duty cycle (40 °C)	15A
Max. pilot current at 100 % duty cycle (40 °C)	15A
Adjustment range pilot current	0.5 – 15 A
Adjustment range TIG mode	0.5 – 50 A
Cooling	Liquid
Degree of protection	IP 21 S
Length	620mm
Width	300mm
Height	555mm
Weight	47kg
Features	 Power source with HF-ignition USB interface Ethernet interface Integrated welding program memory Integrated monitoring / gaging of cooling medium Integrated electronic gas regulation (PGR) Integrated cooling Integrated automation interface Software for external controlling via computer (diagnostics, parameter setup, documentation) Flowmeter plasma gas Flowmeter shielding gas Foot control of the current Remote Control RC-S Touch Screen 7.0" Pilotinverter with HF-ignition
Automation Interface "Tiny"	• Included
Digital Inputs	4 × 24 V
Digital Outputs	4 × 24 V
Analog Inputs	2 × 0 – 10 V
Analog Outputs	2 × 0 – 10 V
CAN Bus (SBI protocol)	• Included
Capability for / availability of specific bus interfaces	• Included

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Torches Recommended for Use

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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 invertor 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.



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