TMI - 350 TL3 Factsheet

The TIG Multi Inverter (TMI) can be used for TIG welding, as well as plasma spot welding for sheet metal up to 2.5mm (TMI 350) or 3.5mm (TMI 500). 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

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Applicable Welding Methods	• PLASMA Spot Welding • TIG Welding
Range of suitable material thickness (Plasma spot welding)	~ 0.5 – 3 mm
Automation	• Capable for automation
Operating modes	DC
Supply Voltage	3 × 400 V-460 V ±15 % 50/60Hz
Phase	3 Phase
Power connection	4 × 32 A CCE plug, 6 mm²
Max. welding current at 35 % duty cycle (40 °C)	350A
Max. welding current at 100 % duty cycle (40 °C)	290A
Adjustment range TIG mode	3 – 350 A
Cooling	Liquid
Degree of protection	IP 21 S
Length	1200mm
Width	520mm
Height	940mm
Weight	105kg
Features	• Power source with HF-ignition • Touch Screen 5,4" • USB interface • Ethernet interface • Integrated welding program memory • Integrated cooling • Integrated monitoring / gaging of cooling medium • Integrated control of 2 wire feeders and free wheel encoder (MCU-MSI) • Integrated control of wire feeder and free wheel encoder (MCU-MI) • Integrated electronic gas regulation (PGR) • Integrated automation interface • Software for external controlling via computer (diagnostics, parameter setup, documentation) • Mobility by wheels • Parking area for 20l gas bottle • Flowmeter shielding gas • Remote Control RC-S • HPP1 - High Pressure Pump (1 circuit) • HPP2 - High Pressure Pump (2 circuits) • Plate Heat Exchanger
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
Automation Interface "AS/AD Basic"	• Included
Digital Inputs	10
Digital Outputs	10
Analog Inputs	4
Analog Outputs	4
KTY Input	1
CAN Interface	• Included

Capability for / availability of specific bus interfaces	• Included

Torches Recommended for Use

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.