

SPATZH300plus High Frequency Inverter Power Source

- ETHERNET- and PROFIBUS-DP-Interface -

The **SPATZH300plus** high-frequency inverter power source with its 20 kHz clock frequency is the all-purpose, cost-effective alternative to all of the transistor-controlled power supplies for micro welding and small component welding. With its rapid reaction speed, the **SPATZH300plus** displays high-performance, lasting welding capability, functioning with just as much precision at 100 A as it does at 9,000 A.

Each welding operation is feedback controlled during the procedure. The control process takes place very quickly based on the 20 kHz inverter frequency. Actual values are compared with target values every 0.025 ms. The output power is adapted during the welding process if targets are not being met. Constant Current Control (CCC), Constant Power Control (CPC) and Constant Voltage Control (CVC) can all be used. At the end of each weld, the **SPATZH300plus** checks whether the actual welding parameters keep within the set limits.

The **SPATZH300plus** timer and high-frequency inverter are housed in a compact IP54-protected housing, which weighs a total of 30 kg / 66.1 lb. While the external high-frequency transformer needs to be installed close to the welding site, the **SPATZH300plus** can be installed within the vicinity of the machine.

Online programming and analysis are the connecting links between production, quality control and process engineering. The **SPATZH300plus** features 3 options:

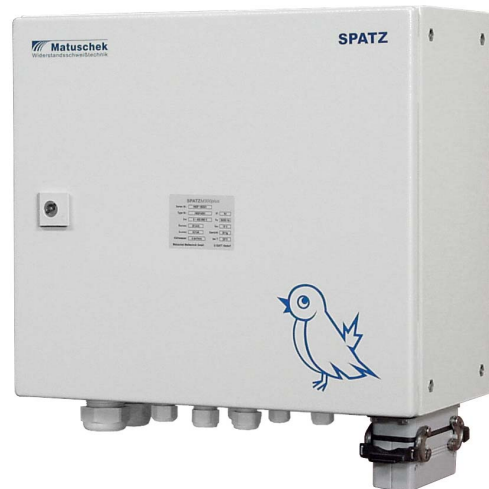
SPATZBG02: The handy operating device with graphical display meets the demand to be used under rough production conditions.

AutoSPATZAS-01: Further detailed information is available for the maintenance via notebook and the RS232-interface.

AutoSPATZAS-32: Integration and crosslinking of welding systems with a line PC by Ethernet with full online functionality.

The specific advantages of the **SPATZH300plus** high-frequency inverter, such as its low weight and high output voltage, allow the easy system integration. The high output voltage enables relatively long welding power lines to lead to the welding position.

The **SPATZH300plus** high-frequency inverter is deliverable for a mains input voltage range from 3–400 V to 500 V.



Technical Data

Number of programs	63
Welding impulses / program	16
Control modes	CCC, CPC, CVC
Weld parameter monitoring	yes
Stepper function	for CCC, CPC, CVC
Force schedule	yes
Slope up / slope down	yes
Signal inputs	current, voltage, force, penetration
Output for proportional valve	yes
Mains voltage U_1	3–400 V - 500 V, 50/60 Hz
Max. power S_{max}	60 kVA with 400 V
Nominal power S_N	33 kVA with 50 % duty, 400 V
Welding current range I_2	100 - 9,000 A with 6 % duty cycle
Welding voltage U_{2N}	10 V DC
Interfaces	BG-02, RS232, MASDAT , ETHERNET, PROFIBUS-DP
Digital inputs	13
Digital outputs	8
Cooling water	4 l/min at 20 °C 1.1 gal(US)/min at 68 °F
Type of protection	IP54
Dimensions (H x W x D)	380 x 430 x 210 mm 15.0 x 16.9 x 8.3 in
Weight	30 kg / 66.1 lb
Colour	light grey / RAL7035
Included in delivery	- documentation - BG-02 connecting cable 3 m / 118.1 in - BG-02 connecting cable holder



SPATZT1-Pack Transformer

Welding transformers for 20 kHz

Technical Data

Type	T1-Pack
Nom. power S_N (20 % duty cycle)	50 kVA
Nom. power S_N (50 % duty cycle)	33 kVA
S_{max}	60 kVA
Max. welding current I_{2max}	9 kA
Sec. Voltage U_{20}	10 V
Primary voltage U_1	500 V
Max. primary current I_{1max}	150 A
Isol. class	IP54
Cooling Water (at 20 - 25 °C / 68 - 77 °F)	4 dm ³ /min 1 gal (US) / min
Dimensions (H x W x D)	120 x 315 x 100 mm 4.7 x 12.4 x 3.9 in
Weight	10 kg / 22 lb



Other models are available on request.

