

## 1-phase



PLASMA CUTTING SYSTEM BY THERMACUT®

### Specifications

Cutting current	20-25 A @ 120 VAC / 20-45 A @ 230 VAC
Modes	cutting / grid cutting / gouging
Duty cycle @ 40° C @ 120 VAC	40 % @ 25 A, 100 % @ 16 A
Duty cycle @ 40° C @ 230 VAC	50 % @ 45 A, 100 % @ 32 A
Rated output voltage	145 VDC
Severance cutting capacity	25 mm +*
Piercing cutting capacity	10 mm*
Recommended cutting capacity	12 mm*
Plasma gas	compressed air / nitrogen
Air flow [lpm/bar]	90/4.5
CNC interface	yes
Preadjusted voltage divider ratio*	50:1
Input voltage	120/230 VAC ± 15 %
Frequency	50/60 Hz
Dimension (L×H×W)	469×228×177 mm
Weight	12.7 kg
Certification depending on region	CE / C-TICK / CCC
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®45TTH
Type of machine torch	FHT-EX®45TTM

\*values for low alloy steel, e. g. MS S235JR

**Specifications**

Cutting current	20-45 A
Modes	cutting / grid cutting / gouging
Duty cycle @ 40° C @ 120 VAC	80 % @ 45 A, 100 % @ 40 A
Rated output voltage	145 VDC
Severance cutting capacity	25 mm +*
Piercing cutting capacity	10 mm*
Recommended cutting capacity	12 mm*
Air flow [lpm/bar]	90/4.5
Plasma gas	compressed air / nitrogen
CNC interface	yes
Preadjusted voltage divider ratio*	50:1
Input voltage	3x400 VAC ± 15 % (CE)
Frequency	50/60 Hz
Dimension (LxHxW)	469x228x177 mm
Weight	12.7 kg
Certification depending on region	CE / C-TICK / CCC
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®45TTH
Type of machine torch	FHT-EX®45TTM

\*values for low alloy steel, e. g. MS S235JR



## Specifications

Severance cutting capacity	25 mm +*
Piercing cutting capacity	10 mm*
Recommended cutting capacity	12 mm*
Plasma cutting	-10° C to +40° C
Transport and storage	-25° C to +55° C
Relative humidity	up to 90 % @ 20° C
Application process	plasma cutting / gouging
Type of use	manual and mechanized
Pilot current	20 A @ 45 A setting
Rated current and corresponding duty cycle	45 A / 100 %
Type of gas	compressed air / nitrogen
Gas flow rate	approx. 90 l/min
Max. inlet pressure	10 bar
Operating (dynamic) pressure	4.8 bar
Type of voltage	DC direct voltage
Protection type of the power supply-side connections	IP3X (EN 60 529)
Type of connection	TCS - 13 pins
Voltage rating	500 V peak value
Rated value of control leads (trigger and cap sensor)	42 VAC / 0.1-1.0 A
Standard length	5 m / 8 m / 15 m
Structure of cable	(Bikox) compact cable
Weight	5 m / 1.5 kg 8 m / 2.2 kg 15 m / 3.6 kg

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