EX-TRAFIRE® 100SD

PLASMA CUTTING SYSTEM BY THERMACUT®

FACT SHEET

Specifications	
Cutting current	30-100 A
Modes	cutting / gouging / grid cutting
Duty cycle @ 40° C	50 % @ 100 A, 100 % @ 80 A
Rated output voltage	170 V (extra-boost 220 V)
Severance cutting capacity	50 mm*
Piercing cutting capacity	20 mm*
Recommended cutting capacity	20 mm*
Plasma gas	compressed air / nitrogen
Air flow [lpm/bar]	135/5.2
CNC interface	optional
Preadjusted voltage divider ratio	50:1
Input voltage	3×400 VAC ± 15 %
Frequency	50/60 Hz
Dimension (L×H×W)	560×400×265 mm
Weight	24 kg
Certification depending on region	CE / RCM / CCC
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	H/F
Type of hand torch	FHT-EX®105RTXH
Type of machine torch	FHT-EX®105RTXM

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

FHT-EX®105RTXH/M FACT SHEET

PLASMA CUTTING TORCH FOR THE EX-TRAFIRE® 100SD

Specifications	page 1	
Severance cutting capacity	50 mm*	
Piercing cutting capacity	20 mm*	
Recommended cutting capacity	20 mm*	
Plasma cutting	-10 °C to +40 °C	
Transport and storage	- 25 °C to +55 °C	
Relative humidity	up to 90 % at 20 °C	
Application process	plasma cutting, gouging, marking	
Type of use	manual and mechanized	
Rated current and corresponding duty cycle	105 A / 100 %	
Type of gas	compressed air / nitrogen	
Gas flow rate	105 A / 100 A	approx. 135 l/min
	85 A / 75 A	approx. 110 l/min
	65 A / 55 A	approx. 98 l/min
	45 A	approx. 87 l/min
Max. inlet pressure	10 bar	
Operating (dynamic) pressure	5.2 bar	
Type of voltage	DC direct voltage	
Protection type of the power supply-side connections	IP3X (EN 60 529)	
Type of connection	TCS - 13 pin	
Standard lenght	8 m / 15 m	
Structure of cable	(Bikox) compact cable	

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PLASMA CUTTING TORCH FOR THE EX-TRAFIRE® 100SD

Specifications	page 2	
Type of gas	Air	Nitrogen
Gas quality specification	Recommended air quality ISO 8573-1 Class 1.2.2 Air max. particle size: 0.1 microns, class 1 ref. to ISO 8573 Air max. oil: 0.1 mg / m^3, class 2 ref.: ISO 8573 Air max. dewpoint: +3° C, class 4 ref. to ISO 8573	Purity ≥ 99.99 %
Gas quality	clean, moisture-free, without oil	
Weight FHT-EX®105RTXH Hand torch	8 m / 3.3 kg 15 m / 5.6 kg	
Weight FHT-EX®105RTXM Machine torch	8 m / 3.4 kg 15 m / 5.9 kg	