EX-TRAFIRE® 85HD

PLASMA CUTTING SYSTEM BY THERMACUT®

FACT SHEET

Specifications	
Cutting current	20-85 A
Modes	cutting / grid cutting / gouging / marking
Duty cycle @ 40 °C	100 % @ 85 A
Rated output voltage	160 VDC
Severance cutting capacity	40 mm*
Piercing cutting capacity	20 mm*
Recommended cutting capacity	20 mm*
Gouging removal	4.5 kg/h +*
Plasma gas	compr. air / nitrogen / argon (marking)
Air flow [lpm/bar]	101/5.2
CAN, RS 485, RS 422	optional / optional / optional
Preadjusted voltage divider ratio	50:1
Input voltage	3×400 VAC ± 15 %
Frequency	50/60 Hz
Dimension (L×H×W)	560×400×260 mm
Weight	24.4 kg
Certification depending on region	CE / CCC / RCM / CSA
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®105TTH
Type of machine torch	FHT-EX®105TTM

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

FHT-EX®105TTH/M FACT SHEET

PLASMA CUTTING TORCH FOR THE EX-TRAFIRE® 85HD

Specifications	page 1
Severance cut. capacity	40 mm*
Piercing cut. capacity	20 mm*
Recomm. cut. capacity	20 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	cutting / grid cutting / gouging / marking
Type of use	manual and mechanized
Rated current and corresponding duty cycle	105 A / 100 %
Type of gas	compr. air / nitrogen / argon
Gas flow rate for cutting 75-85 A	101 l/min @ 5.2 bar
Gas flow rate for cutting 55-65 A	87 l/min @ 5.2 bar
Gas flow rate for cutting 45 A	82 l/min @ 5.2 bar
Gas flow rate for gouging 65-85 A	195 l/min @ 5.0 bar
Gas flow rate for marking 10, 11, 12, 15, 16 A	39 l/min @ 2.4 bar
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 pins

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FHT-EX®105TTH/M FACT SHEET

PLASMA CUTTING TORCH FOR THE EX-TRAFIRE® 85HD

Specifications	page 2
Standard lenght	5 m / 8 m / 15 m / 23 m
Weight FHT-EX®105TTH Hand Torch	5 m / 2.5 kg 8 m / 3.3 kg 15 m / 5 kg 23 m / 7.9 kg
Weight FHT-EX®105TTM Standard Machine Torch	5 m / 2.1 kg 8 m / 3.4 kg 15 m / 5.7 kg 23 m / 8 kg
Weight FHT-EX®105TTSM Short Machine Torch	5 m / 2 kg 8 m / 3.4 kg 15 m / 5.7 kg 23 m / 8 kg
Structure of cable	coaxial cable