



Specifications

Cutting current	30-55 A
Modes	cutting / grid cutting / gouging
Duty cycle @ 40° C @ 3×400 VAC	50 % @ 55 A, 100 % @ 41 A
Rated output voltage	170 V @ 3×400 VAC
Severance cutting capacity	30 mm +*
Piercing cutting capacity	20 mm*
Recommended cutting capacity	20 mm*
Plasma gas	compressed air / nitrogen
Air flow [lpm/bar]	100/5.2
CNC interface	optional
Preadjusted voltage divider ratio	50:1
Input voltage	3×400 VAC ± 15 %
Frequency	50/60 Hz
Dimension (L×H×W)	469×228×177 mm
Weight	11.8 kg
Certification depending on region	CE, C-TICK, CCC
Maximum input pressure [bar/psi]	7/101
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



Specifications

Cutting current	30-75 A
Modes	cutting / gouging / grid cutting
Duty cycle @ 40° C	100 % @ 75 A
Rated output voltage	170 V (extra-boost 220 V)
Severance cutting capacity	35 mm +*
Piercing cutting capacity	20 mm*
Recommended cutting capacity	25 mm*
Plasma gas	compressed air / nitrogen
Air flow [lpm/bar]	110/5.2
CNC interface	optional
Preadjusted voltage divider ratio	50:1
Input voltage	3×400 VAC ± 15 %
Frequency	50/60 Hz
Dimension (L×H×W)	560x400x265 mm
Weight	24 kg
Certification depending on region	CE, C-TICK, 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

**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	35 mm*
Plasma gas	compressed air / nitrogen
Air flow [lpm/bar]	135/5.2
CNC interface	optional
Preadjusted voltage divider ratio	50:1
Input voltage	3x400 VAC ± 15 %
Frequency	50/60 Hz
Dimension (L×H×W)	560×400×265 mm
Weight	24 kg
Certification depending on region	CE, C-TICK, 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 BY THERMACUT®



Specifications	page 1
Severance cutting capacity	50 mm +*
Piercing cutting capacity	20 mm*
Recommended cutting capacity	35 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
Gas flow rate - gouging	approx. 230 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 length	8 m / 15 m
Structure of cable	(Bikox) compact cable

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

FHT-EX®105RTXH/M FACT SHEET

PLASMA CUTTING TORCH BY THERMACUT®



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	Purity ≥ 99.99 %
	Air max. oil: 0.1 mg / m ³ , class 2 ref.: ISO 8573	
	Air max. dewpoint: +3° C, class 4 ref. to ISO 8573	
Gas quality	clean, moisture-free, without oil	
Weight	8 m / 3.3 kg	
FHT-EX®105RTXH Hand torch	15 m / 5.6 kg	
Weight	8 m / 3.4 kg	
FHT-EX®105RTXM Machine torch	15 m / 5.9 kg	