

SOLDOR

Equipamentos para Soldagem

EX-TRAFIRE® 105HD

INDUSTRIAL CUTTING.
HEAVY-DUTY PERFORMANCE.



SOLUTIONS / INDUSTRIES



Automotive and transportation



Steel mills and steel service centers



Structural



Shipyards and Offshore



Heavy fabrication



SPECIFICATIONS

Cutting current ****[A]	20-105 A
Modes	Cutting / Gouging / Grid / Marking
Duty cycle @ 104 °F	
U1 - 1x 230 VAC	70% - 85A, 100% - 71 A
U1 - 3 x 208 VAC	60% - 105 A, 100% - 81 A
U1 - 3 x 240 VAC	70% - 105 A, 100% - 87 A
U1 - 3x 380 - 600 VAC	80% - 105 A, 100% - 94 A
Rated output voltage [V] DC	160
Severance cutting capacity [inch]	2 ¼"
Piercing cutting capacity [inch]	1"
Recommended cutting capacity [inch]	1 ½"
Plasma gas	Air / Nitrogen / Argon**
Air flow [lpm/bar]	400 / 72
CNC interface / CAN BUS interface	optional
Preadjusted voltage divider ratio***	50:1
Input voltage [V] AC	1 x 230 / 3 x 208 / 460 / 575 ± 15%
Frequency [Hz]	50/60
Dimensions W×L×H [inch]	24" x 20" x 11.75"
Weight [lbs]	78
Certification depending on region	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
**used for optional fine marking
***part of optional CNC interface
**** I2 reduced to 85A at single pahse inputvoltage

IMPRESSIVE PERFORMANCE



- + Extremely high cutting speed
- + Maximum cutting quality, even with long cuts
- + Also ideal for automated processes

READY FOR INDUSTRY 4.0



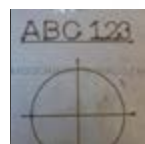
- + Industry leading connectivity
- + CAN, RS 485 and RS 422 interfaces (optional)
- + Easy monitoring
- + Expandable and updatable

HIGHEST FLEXIBILITY



- + Plate thicknesses up to 2 ¼ inches and more
- + For mechanized and manual applications
- + Gouging with high removal rate
- + Suitable for worldwide use

MARKING MODE



- + Automatic gas identification (air, nitrogen, argon)
- + Integrated gas saving function
- + Fine, deep or wide markings
- + Optional smooth marking for applications bellow 20A

AUTOMATIC SETTINGS



- + Cutting gas media, electricity and pilot current
- + Compensation for pressure drops
- + Fewer operating errors, better cutting quality

NEW CUTTING TORCH FHT® EX105TT



- + Torch design award winner
- + Optimized ergonomics
- + Relaxed PE and PA cutting
- + 100% duty cycle



4 DIFFERENT OPERATION MODES

The plasma cutting systems in the EX-TRAFIRE®HD range excel at meeting demanding requirements during continuous operation. The portable EX-TRAFIRE®105HD plasma cutting system, with a 100% duty cycle, is the perfect solution for challenging heavy-duty industrial applications.



EX-TRAFIRE® 105HD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Hand System/FHT-EX®105TTH Torch 16.4 ft/H Starter Kit	16.4 ft	EX-5-010-051
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Hand System/FHT-EX®105TTH Torch 26.2 ft/H Starter Kit	26.2 ft	EX-5-010-052
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Hand System/FHT-EX®105TTH Torch 49.2 ft/H Starter Kit	49.2 ft	EX-5-010-053
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 16.4 ft/M Starter Kit	16.4 ft	EX-5-011-035
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 26.2 ft/M Starter Kit	26.2 ft	EX-5-011-036
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 49.2 ft/M Starter Kit	49.2 ft	EX-5-011-037
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 16.4 ft/M Starter Kit	16.4 ft	EX-5-013-013
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 26.2 ft/M Starter Kit	26.2 ft	EX-5-013-014
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 49.2 ft/M Starter Kit	49.2 ft	EX-5-013-015
PLASMA CUTTING UNITS		
EX-TRAFIRE® 105HD/CSA/200-600V 3-PH power supply unit/FULLY EQUIPPED	EX-5-001-005	
EX-TRAFIRE® 105HD/CSA/200-600V 3-PH power supply unit/STD EQUIPPED	EX-5-003-005	

* Fully-equipped=CNC interface & Serial interfaceport (CAN bus)
 ** STD-equipped=CNC interface

ACCESSORIES

Description	Pcs	Part No.
CNC Interface 14-pin Plug Kit	1	EX-0-803-001
CNC Interface connection lead 9.8 ft	1	EX-0-803-003
CNC Interface connection lead 19.6 ft	1	EX-0-803-004
CAN bus connection cable 32.8 ft	1	EX-0-803-006
CAN bus connection cable 16.4 ft	1	EX-0-803-007
RS422 bus connection cable 32.8 ft	1	EX-0-803-008
RS422 bus connection cable 16.4 ft	1	EX-0-803-009
Universal connection cable 32.8 ft	1	EX-0-803-010
Universal connection cable 16.4 ft	1	EX-0-803-011
Silicone Grease .8 oz	1	EX-0-805-001
Work lead with clamp 300 A/13.1 ft/6 AWG/EU-plug 2-2/0 AWG	1	EX-5-543-037
Work lead with clamp 300 A/26.2 ft//6 AWG/EU-plug 2-2/0 AWG (ON REQUEST)	1	EX-5-543-001
Work lead with clamp 300 A/49.2 ft/6 AWG/EU-plug 2-2/0 AWG (ON REQUEST)	1	EX-5-543-002
Work lead with clamp 300 A/75.4 ft/6 AWG/EU-plug 2-2/0 AWG (ON REQUEST)	1	EX-5-543-003



EX-TRAFIRE® 105HD



FRONT VIEW



BACK VIEW



SIDE VIEW