

EX-TRA[®]FIRE 85

**1ST GENERATION
OF SYNERGIC PLASMA
CUTTING SYSTEMS
WITH EASY HANDLING
FHT-EX TORCHES**

THERMACUT[®]
THE CUTTING COMPANY

INDUSTRIAL PLASMA SYSTEMS
FOR MECHANIZED AND HANDHELD
CUTTING APPLICATIONS

SPECIFICATION OF PLASMA CUTTING SYSTEM

SPECIFICATIONS

AMPS (A)	10 - 85 (45A/65A/85A)
INPUT VOLTAGE (VAC)	400
PHASE	3
CERTIFICATION	CE
MODES	STANDARD CUTTING GRID CUTTING CUTTING / GOUGING
FREQUENCY (Hz)	50/60
MAXIMUM INPUT CURRENT @ 80%-100% (A)	27 - 22
OUTPUT VOLTAGE (VDC)	165
DUTY CYCLE @ 40°C	80% @ 85A 100% @ 70A
DIMENSIONS (H x L x W) mm	450 x 655 x 230
WEIGHT (kg)	29
RECOMENDED QUALITY CUTTING CAPACITY (mm)	25
MAXIMUM CUTTING CAPACITY (mm)	30
SEVERANCE CUTTING CAPACITY (mm)	40
PIERCING CAPACITY (mm)	20
GAS PRESSURE / FLOWRATE (bar / lpm)	5,5 / 200
PROTECTION LEVEL	IP 23S
INSULATION CLASS	F
CNC INTERFACE	YES
TYPE OF HAND TORCH	FHT-EX®105H
TYPE OF STANDARD MACHINE TORCH	FHT-EX®105M
TYPE OF SHORT (ROBO) MACHINE TORCH	FHT-EX®105SM
STANDARD TORCH LENGTHS	5m/8m/15m/23m

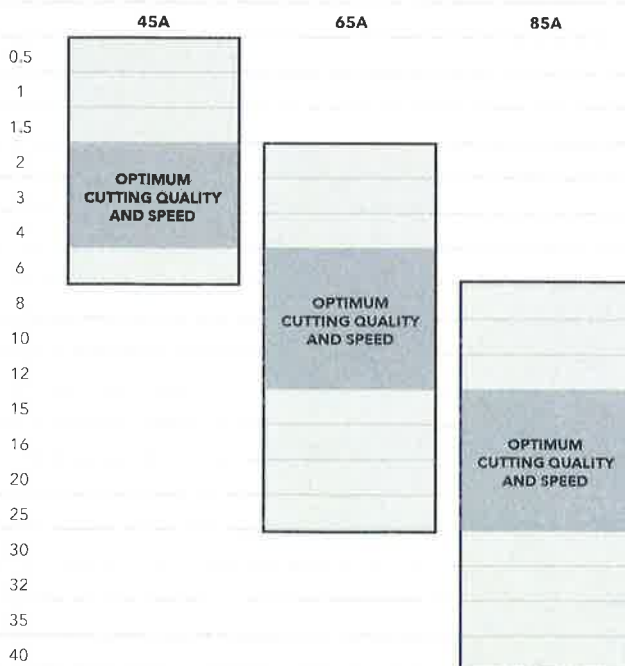


FEATURES AND BENEFITS

- Simple manual setup focused on reliability.
- First generation of Plasma cutting systems with an innovative Synergic Function.
- Easy setup of cutting parameters.
- Ergonomic hand plasma cutting torch with revolutionary lightweight highly flexible coaxial cable.
- The FHT-EX® torch and cable reduces fatigue and minimises stress on the wrist joint especially for plasma hand cutting under difficult conditions.

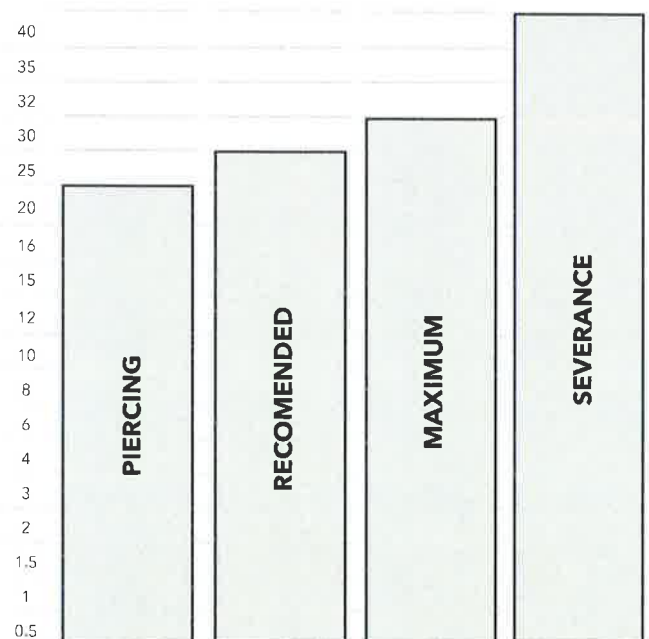
MILD STEEL CUTTING GUIDE

MATERIAL THICKNESS [MM]



MILD STEEL CUTTING CAPACITY

MATERIAL THICKNESS [MM]

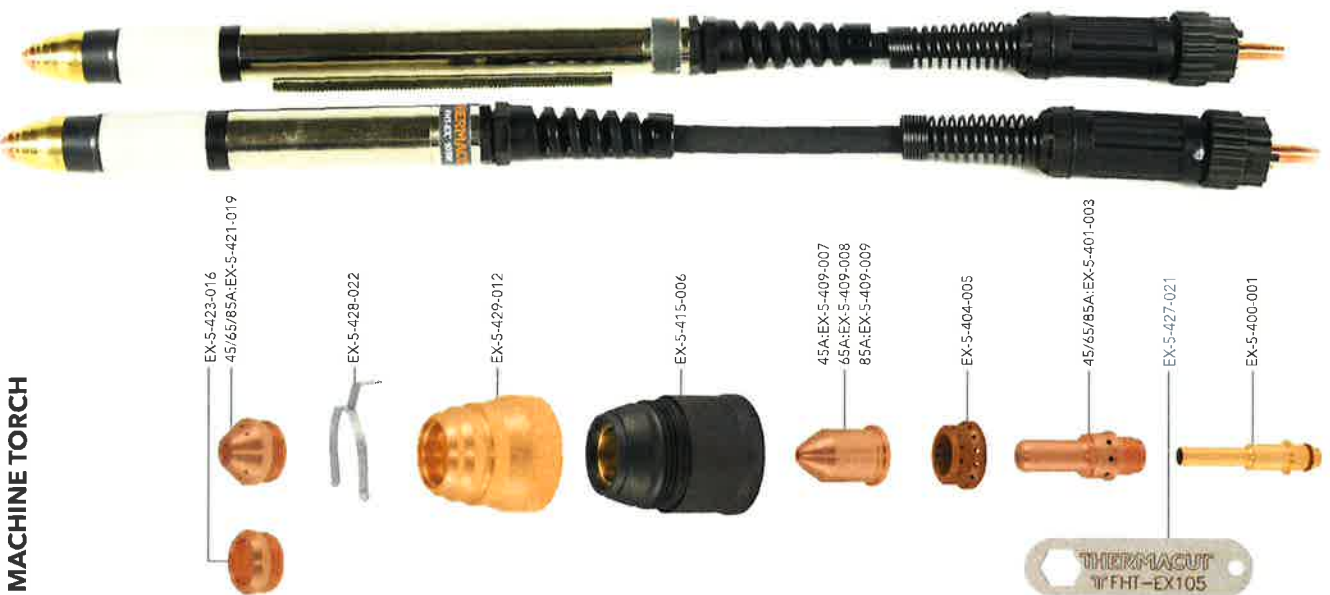
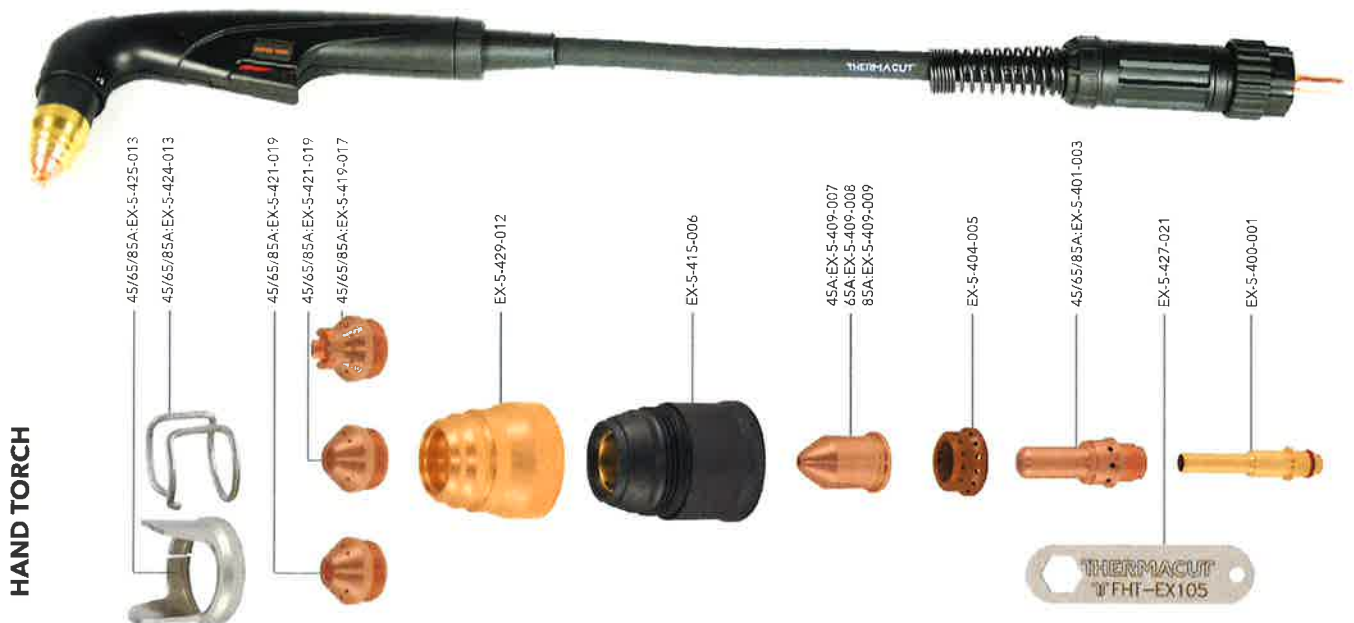


TORCH CONFIGURATIONS

HAND TORCH					MACHINE TORCH		
SHIELDED CONFIGURATION			UNSHIELDED CONFIGURATION		SHIELDED CONFIGURATION		UNSHIELDED CONFIGURATION
Using drag shield	Using machine shield and distance spring	Using machine shield and double pointed spacer (standoff guide)	Using deflector and distance spring	Using deflector and double pointed spacer (standoff guide)	Using machine shield	Using machine shield and ins ohmic clip	Using deflector

! * For use in countries that requires CE conformity, the hand torch must be only operated with shielded configuration consumables.

FHT-EX 105H CONSUMABLES



SYSTEM PERFORMANCE

Coordinated design of power source and torch ensures optimum cutting results in relationship to speed and quality. Support of optimal power for all cutting tasks. Optimized for industrial plasma cutting and applications.

PERFORMANCE BENEFITS

- Low cutting costs
- Excellent cut quality
- High efficiency metal cutting
- Extended consumable life
- Easy handling torches with extreme flexible cable leads
- Reduced fatigue at hand plasma cutting
- 3 years warranty

OPTIONS FOR SYSTEM SETUP THERMACUT

- MANUAL SETUP

Operator selects own cutting parameters.

- SYNERGIC FUNCTION

Based on adjusted cutting current of material thickness is recommended nozzle orifice displayed.

- AMPERAGE MODE

Utilizing the rotary control, the operator selects the optimal cutting current for his application. The digital display shows the recommended nozzle size (orifice diameter).

- MATERIAL THICKNESS MODE

Utilizing the rotary control, the operator selects the thickness of material to be cut. The system automatically adjusts the optimum cutting current and the digital display shows again the recommended nozzle size (orifice diameter).

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ORDERING INFORMATION

DESCRIPTION	LENGTH	PART NO.
HAND TORCH		
EX-TRAFIRE85 CE 400 V Hand System/ FHT-EX105H Torch 5m/H Starter Kit	5 m*	EX-4-010-001
EX-TRAFIRE85 CE 400 V Hand System/ FHT-EX105H Torch 8m/H Starter Kit	8 m*	EX-4-010-002
EX-TRAFIRE85 CE 400 V Hand System/ FHT-EX105H Torch 15m/H Starter Kit	15 m*	EX-4-010-003
EX-TRAFIRE85 CE 400 V Hand System/ FHT-EX105H Torch 23m/H Starter Kit	23 m	EX-4-010-004
STANDARD MACHINE TORCH		
EX-TRAFIRE85 CE 400 V Machine System/ FHT-EX105M Standard Torch 5m/M Starter Kit	5 m	EX-4-011-005
EX-TRAFIRE85 CE 400 V Machine System/ FHT-EX105M Standard Torch 8m/M Starter Kit	8 m*	EX-4-011-006
EX-TRAFIRE85 CE 400 V Machine System/ FHT-EX105M Standard Torch 15m/M Starter Kit	15 m*	EX-4-011-007
EX-TRAFIRE85 CE 400 V Machine System/ FHT-EX105M Standard Torch 23m/M Starter Kit	23 m	EX-4-011-008
SHORT MACHINE TORCH		
EX-TRAFIRE85 CE 400 V Machine System/ FHT-EX105M Short Torch 5m/M Starter Kit	5 m	EX-4-012-009
EX-TRAFIRE85 CE 400 V Machine System/ FHT-EX105M Short Torch 8m/M Starter Kit	8 m*	EX-4-012-010
EX-TRAFIRE85 CE 400 V Machine System/ FHT-EX105M Short Torch 15m/M Starter Kit	15 m*	EX-4-012-011
EX-TRAFIRE85 CE 400 V Machine System/ FHT-EX105M Short Torch 23m/M Starter Kit	23 m	EX-4-012-012

* Optimal torch length

DESCRIPTION EN	STD PACKAGE QTY	PART NO.
ACCESSORIES		
Voltage Divider Kit for EX-TRAFIRE PS	1	EX-0-800-000
Circle Cutting Guide Kit for FHT-EX105H	1	EX-5-801-001
DN 7.2 ES Quick Connect Plug with female thread G 1/4"	1	EX-0-802-000
DN 7.2 ES Quick Connect Plug with male thread G 1/4"	1	EX-0-802-001
DN 7.2 ES Quick Connect Coupling with male thread G 1/4"	1	EX-0-802-002
Grease 25ml	1	T-0994
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	T-12453

STARTER KIT CONTENT	PCS
Electrode	4
Nozzle	4
Shield	4
Swirl ring	1
Torch o-ring	1
Cooling tube o-ring	1

BULK PACKS	PCS
Electrode	25
Nozzle	16
Shield	25
Deflector	16

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