

THERMACUT\* - THE CUTTING COMPANY

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# FROM THE GARAGE TO THE SHIPYARD

"A successful product begins with a simple idea". The idea was to create a plasma cutting power supply. Criteria were set precisely. It has to be powerful, versatile, easy to operate, durable and portable.

## AND WE CREATED IT. IT'S CALLED THE EX-TRAFIRE®

**EX-TRAFIRE® PLASMA SYSTEMS** 

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**EX-TRAFIRE® ACCESSORIES** 

**REVISION HISTORY** 

130



### **EX-TRAFIRE® HD LINE OVERVIEW**

tures / System	EX-TRAFIRE	*45HD	EX-TRAFIRE*65HD	EX-TRAFIRE*85HD	EX-TRAFIRE*105HD	EX-TRAFIRE®125HD
7	Single phase	Three phase	Three phase	Three phase	Three phase	Three phase
Cutting current [I2]	10 - 45 A	10 - 45 A	10 - 65 A	20 - 85 A	20 -105 A	20 -125 A
Input voltage [I2]	1x240 V AC ± 15%	3x400 V AC ± 15%	3 x 400 V AC + 15%	3 x 400 V AC +15%	3 x 400 VAC ± 15%	3 x 400 VAC ± 15%
Duty cycle	40 % @ 45A	80 % @ 45A	100% @ 65A	100% @ 85A	100% @ 105A	100% @ 125A
I1max	16.5 A	16.2 A	24.5 A	30.1 A	39 A	48.9 A
I1eff	14.8 A	14.4 A	24.5 A	30.1 A	39 A	48.9 A
Weight [kg]	12.7		20.4	24.4	35	37.1
Width [mm]	469		560	560	613	615
Depth [mm]	117		260	260	302	295
Height [mm]	228		400	400	515	505
Industry (IOT) 4.0	Yes		Yes	Yes	Yes	Yes
Handheld Application	Yes		Yes	Yes	Yes	Yes
Mechanised Application	Yes		Yes	Yes	Yes	Yes
Gouging	Yes		Yes	Yes	Yes	Yes
Grid Cutting	Yes		Yes	Yes	Yes	Yes
Torch	FHT-EX®45T	TH/M	FHT-EX®105TTH/M	FHT-EX®105TTH/M	FHT-EX®105TTH/M	FHT-EX®125TTH/M
Torch flow	90 l/min. at 4	1.8 bar	87 l/min. at 5.2 bar	101 l/min. at 5.2 bar	156 l/min. at 4.8 bar	175 l/min. at 5.2 bar
Recommended Cut	(*) 12 mm	(*) 12 mm	(*) 12 mmm	(*) 12 mm	(*) 18 mm	(*) 20 mm
Maximum	(*) 25 mm	(*) 25 mm	(*) 25 mm	(*) 25 mm	(*) 40 mm	(*) 40 mm
Piercing	(*) 10mm	(*) 10mm	(*) 18 mm	(*) 10 mm	(*) 20 mm	(*) 25 mm
Recommended Cut	(**) 6 mm	(**) 6 mm	(**) 10 mm	(**) 12 mm	(**) 16 mm	(**) 20 mm
Maximum	(**) 20 mm	(**) 20 mm	(**) 20 mm	(**) 20 mm	(**) 32 mm	(**) 40 mm
Piercing	(**) 10 mm	(**) 10 mm	(**) 12 mm	(**) 10 mm	(**) 20 mm	(**) 20 mm
Recommended Cut	(***) 10 mm	(***) 10 mm	(***) 10 mm	(***) 12 mm	(***) 16 mm	(***) 20 mm
Maximum	(***) 20 mm	(***) 20 mm	(***) 20 mm	(***) 16 mm	(***) 32 mm	(***) 40mm
Piercing	(***) 10 mm	(***) 10 mm	(***) 12 mm	(***) 10 mm	(***) 20 mm	(***) 25 mm
Ambient temperature -10°C	to +40°C					
Gas type Comp	ressed air					
Recon	nmended Air quality: ISO 8573-1 Class 1.2	.2.				
Air an arification	x. particle size: 0.1 microns, class 1 ref. to I x. oil: 0.1 mg/m³, class 2 ref.: ISO 8573,	ISO 8573,				
Air ma	x. dew point: +3° C, class 4 ref. to ISO 857	3				
<b>Nitrogen</b> Purity						
	moisture-free, without oil					
	mendation based on mild steel cutting sta	g starting from the edge (up to)				

## EX-TRAFIRE 45HD INDUSTRIAL CUTTING. **HEAVY-DUTY PERFORMANCE.**

**SOLUTIONS / INDUSTRIES** 





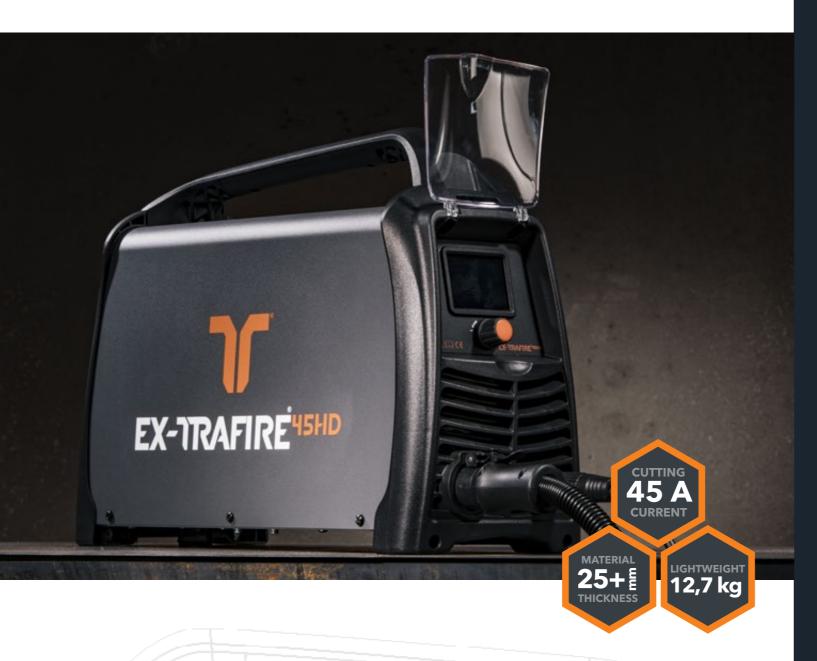








### **EX-TRAFIRE**<sup>®</sup>45HD



#### **IMPRESSIVE PERFORMANCE**



- Extremely high cutting speed
- Maximum cutting quality
- Also ideal for automated processes

#### **AUTOMATIC SETTINGS**



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

#### **READY FOR INDUSTRY 4.0**



- CAN Bus interface (optional)
- RS 485 interface (optional)
- Easy monitoring
- Expandable and updatable to remain extremely future-proof

#### **OPTIMAL COST-EFFECTIVENESS**



- + Low investment costs
- + 20 % longer consumable lifetime
- Low operating costs
- Increased productivity

### Last update of this page: 29/10/2021. See Revision history for details. For product availability, please check with your local THERMACUT\* dealer.

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### EX-TRAFIRE®45HD

#### **SPECIFICATIONS**

	CINCLE	PHASE	THREE PHASE				
Outrout aureant	10-25 A @ 120 VAC	10-45 A @ 230 VAC	10-45 A				
Output current							
Modes	cutting/grid cutting/gouging/marking						
Duty cycle	40 % @ 25 A, 100 % @ 16 A	50 % @ 45 A, 100 % @ 32 A	80 % @ 45 A, 100 % @ 40 A				
Rated output voltage [VDC]			145				
Severance cutting capacity [mm]			25+*				
Piercing capacity [mm]			10(1)				
Recommended cutting capacity [mm]			12(1)				
Plasma gas	compressed air / nitrogen / argon (marking)						
Air flow [lpm/bar]	90/4.5						
CNC interface / CAN BUS interface	optional / optional						
Preadjusted voltage divider ratio	50:1						
Input voltage	120 VAC ± 15 %	6 230 VAC ± 15 % 3 x 400 VAC ± 15 %					
Frequency [Hz]	50/60						
Dimensions (L×H×W)[mm]	469×228×177						
Weight [kg]	12.7						
Certification depending on region	CE/C-TICK/CCC						
Maximum input pressure [bar/psi]	10/145						
Protection level	IP23S						
Insulation class	F						
Type of hand torch	FHT-EX®45TTH						
Type of machine torch	FHT-EX®45TTM						

(1) Values for low alloy steel, E. G. MS S235JR



### EX-TRAFIRE®45HD

### **ORDERING INFORMATION**

<u> </u>	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®45HD/CE/3x400 V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/ H Starter Kit	5 m	EX-2-010-03
EX-TRAFIRE®45HD/CE/3x400 V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/ H Starter Kit	8 m	EX-2-010-03
EX-TRAFIRE®45HD/CE/3x400 V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/ H Starter Kit	15 m	EX-2-010-03
EX-TRAFIRE®45HD/CE/1x110/230 V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/ H Starter Kit	5 m	EX-2-010-04
EX-TRAFIRE®45HD/CE/1x110/230 V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/ H Starter Kit	8 m	EX-2-010-04
EX-TRAFIRE® 45HD/CE/1x110/230 V Hand System (STD-equipped**)/FHT-EX® 45TTH 15m/ H Starter Kit	15 m	EX-2-010-04
EX-TRAFIRE® 45HD/CE/1x120/240V Hand System (STD-equipped**)/FHT-EX® 45TTH 5m/H Starter Kit/Including Transport Case	5 m	EX-2-010-04
EX-TRAFIRE®45HD/CE/1x120/240V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/H Starter Kit/Including Transport Case	8 m	EX-2-010-04
EX-TRAFIRE®45HD/CE/1x120/240V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/H Starter Kit/Incl. Transport Case	15 m	EX-2-010-04
EX-TRAFIRE®45HD/CE/3x400V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/H Starter Kit/Including Transport Case	5 m	EX-2-010-05
EX-TRAFIRE®45HD/CE/3x400V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/H Starter Kit/Including Transport Case	8 m	EX-2-010-05
EX-TRAFIRE®45HD/CE/3x400V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/H Starter Kit/Including Transport Case	15 m	EX-2-010-05
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®45HD/CE/3x400 V Machine System (Fully-equipped*)/FHT-EX®45TTM 5m/M Starter Kit	5 m	EX-2-011-03
EX-TRAFIRE®45HD/CE/3x400 V Machine System (Fully-equipped*)/FHT-EX®45TTM 8m/M Starter Kit	8 m	EX-2-011-032
EX-TRAFIRE®45HD/CE/3x400 V Machine System (Fully-equipped*)/FHT-EX®45TTM 15m/M Starter Kit	15 m	EX-2-011-033
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (Fully-equipped*)/FHT-EX®45TTM 5m/M Starter Kit	5 m	EX-2-011-04
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (Fully-equipped*)/FHT-EX®45TTM 8m/M Starter Kit	8 m	EX-2-011-042
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (Fully-equipped*)/FHT-EX®45TTM 15m/M Starter Kit	15 m	EX-2-011-043
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (STD-equipped**)/FHT-EX®45TTM 5m/M Starter Kit	5 m	EX-2-013-00
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (STD-equipped**)/FHT-EX®45TTM 8m/M Starter Kit	8 m	EX-2-013-002
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (STD-equipped**)/FHT-EX®45TTM 15m/M Starter Kit	15 m	EX-2-013-003
EX-TRAFIRE®45HD/CE/3x400 V Machine System (STD-equipped**)/FHT-EX®45TTM 5m/M Starter Kit	5 m	EX-2-013-004
EX-TRAFIRE®45HD/CE/3x400 V Machine System (STD-equipped**)/FHT-EX®45TTM 8m/M Starter Kit	8 m	EX-2-013-005
EX-TRAFIRE®45HD/CE/3x400 V Machine System (STD-equipped**)/FHT-EX®45TTM 15m/M Starter Kit	15 m	EX-2-013-00
PLASMA CUTTING UNITS		
EX-TRAFIRE® 45HD/CE/1x110/230 V power supply unit (Fully-equipped*)		EX-2-001-00
EX-TRAFIRE® 45HD/CE/3x400 V power supply unit (Fully-equipped*)		EX-2-001-002
EX-TRAFIRE® 45HD/CE/1x110/230 V power supply unit (STD-equipped**)		EX-2-003-00
EX-TRAFIRE® 45HD/CE/3x400 V power supply unit (STD-equipped**)		EX-2-003-003
Fully-equipped=CNC interface & Serial interfaceport (CAN bus)		

### \* Fully-equipped=CNC interface 8 \*\* STD-equipped=CNC interface

### **AVAILABLE BULK PACKS**

Description	Pcs	Part No.
Bulk Pack-Electrode - 25 pcs	1	EX-2-434-201
Bulk Pack-Nozzle - 25 pcs	1	EX-2-435-201
Bulk Pack - Hand (Contact) Shield - 18 pcs	1	EX-2-436-201
Bulk Pack - Machine Shield - 18 pcs	1	EX-2-437-201

### **ACCESSORIES**

Description	Pcs	Part No.
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 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	EX-0-804-002

Last update of this page: 20/09/2022. See Revision history for details. For product availability, please check with your local THERMACUT® dealer.

### EX-TRAFIRE®45HD





**FRONT VIEW** 

**BACK VIEW** 



**SIDE VIEW** 

### FHT-EX®45TT









The high-performant FHT-EX®45TT H/M hand and machine torches are ideal for meeting tough demands in continuous operation. These torches are optimally designed for use with EX-TRAFIRE®45HD power supplies and are suitable for cutting, gouging, gridcutting and marking. They can cut plate thickness of up to 25+ mm and more precisely and quickly.

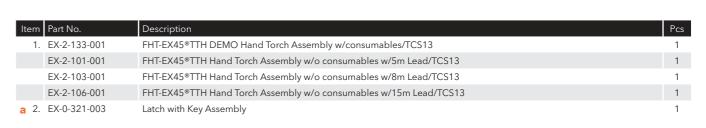


Thanks to the THERMACUT® Torch Connection System (TCS), changing the torch is a quick and easy process. The powerful torches are the result of decades of experience in the field of plasma cutting. They feature an extremely robust and durable design in which all consumables can be replaced quickly and easily.



#### **BENEFITS**

- High-performant torches for mechanised applications and handheld use
- Ergonomic handheld torches for safe and reliable holding and guiding in all positions
- Compact and flexible for handheld applications, even in the case of tight radii or gouging of fillet welds
- 100 % duty cycle at 45 A, ideal for continuous use
- Ideal for plate thicknesses of up to 25 mm and more with high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing 10+ mm
- Perfectly designed for use with EX-TRAFIRE®45HD power supplies



a LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

Last update of this page: 29/10/2021. See Revision history for details. For product availability, please check with your local THERMACUT® dealer.

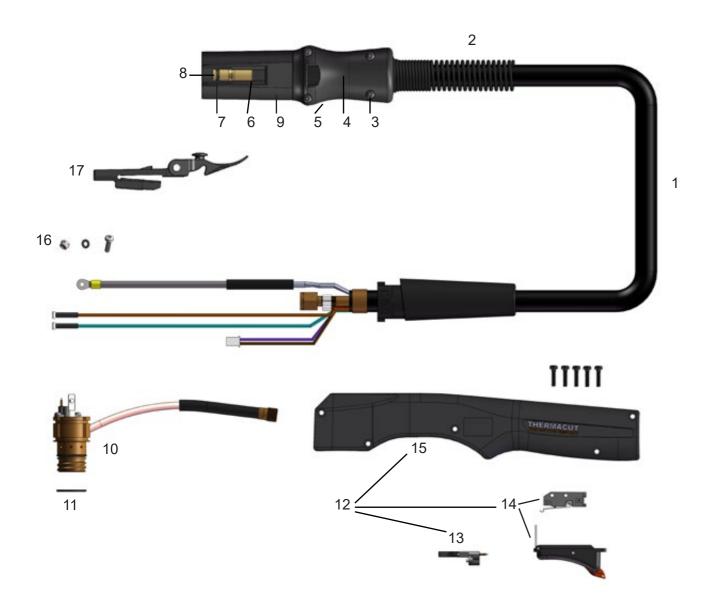
Last update of this page: 29/10/2021. See Revision history for details. For product availability, please check with your local THERMACUT® dealer.

HAND TORCH ASSEMBLY

### FHT-EX®45TTM

### FHT-EX®45TTH

### **HAND TORCH COMPONENTS**



Item	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-2-331-001	FHT-EX®45TTH Hand Torch Lead Replacement Kit 5m Lead/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-2-333-001	FHT-EX®45TTH Hand Torch Lead Replacement Kit 8m Lead/TCS13	1	10.	EX-2-302-001	Hand Torch Body FHT-EX®45TTH	1
1.	EX-2-336-001	FHT-EX®45TTH Hand Torch Lead Replacement Kit 15m Lead/TCS13	1	11.	EX-5-431-050	O-Ring (fitted on the torch body)	2
2.	EX-5-318-001	TCS Plug Spring Stain Relief	1	12.	EX-2-314-001	FHT-EX®45TTH Hand Torch Handle Replacement Kit	1
3.	EX-0-325-015	TCS Clam Shell Screw	1	13.	EX-2-305-001	Cap-sensor Replacement Kit with Screws/ Hand Torch	1
4.	EX-0-325-002	TCS Clam Shell Upper	1	14.	EX-2-313-001	Safety Trigger with start switch	1
5.	EX-0-325-001	TCS Clam Shell Lower	1	15.	EX-2-308-001	Hand Torch Handle with Screws	1
6.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	16.	EX-5-372-010	Cathode mounting kit	1
7.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	a 17.	EX-0-321-003	Latch w/Key Assembly	1
8	FX-0-325-005	Male Crimp Pin for TCS Plug	1				

a LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

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### **MACHINE TORCH ASSEMBLY**



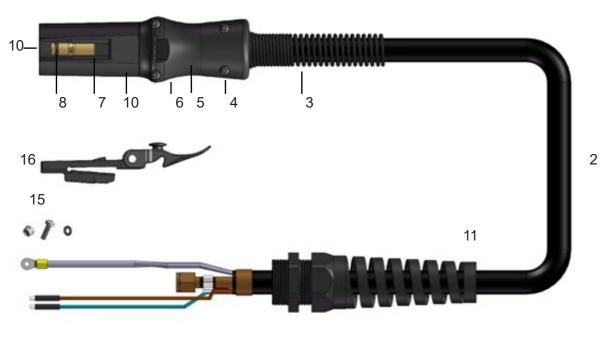
ltem	Part No.	Description	Pcs
1.	EX-2-233-001	FHT-EX®45TTM DEMO Machine Torch Assembly w/consumables/TCS13	1
	EX-2-202-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/5 m Lead/TCS13	1
	EX-2-204-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/8 m Lead/TCS13	1
	EX-2-207-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/15 m Lead/TCS13	1
<b>a</b> 2.	EX-0-321-003	Latch with Key Assembly	1

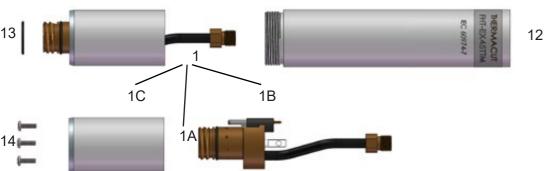
LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

### **CONSUMABLES**

### FHT-EX®45TTM

### **MACHINE TORCH COMPONENTS**



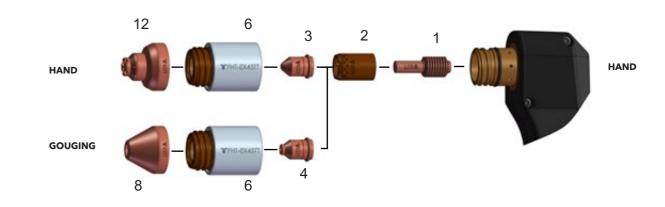


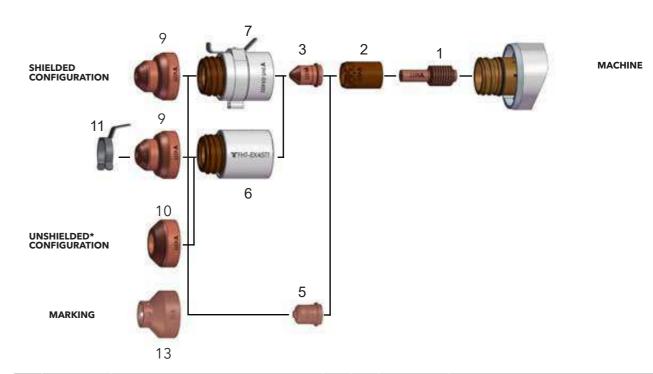
Item	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-2-301-001	Machine Torch Body Assembly FHT-EX®45TTM	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-2-301-002	Machine Torch Body FHT-EX®45TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-001	Cap Sensor Replacement Kit with Screws/Machine Torch	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
1c.	EX-5-306-002	Torch Mounting Sleeve (incl. 3 screws)	1	10.	EX-0-323-001	TCS13 Plug Body	1
2.	EX-2-352-001	FHT-EX®45TTM Machine Torch Lead Replacement Kit 5m Lead/TCS13	1	11.	EX-5-317-021	Machine Torch Strain Relief	1
	EX-2-354-001	FHT-EX®45TTM Machine Torch Lead Replacement 8m Lead/TCS13	1	12.	EX-2-306-001	FHT-EX®45TTM Standard Mounting Tube w/o Rack	1
	EX-2-357-001	FHT-EX®45TTM Machine Torch Lead Replacement 15m Lead/TCS13	1	13.	EX-5-431-050	O-Ring (fitted on the torch body)	2
3.	EX-5-318-001	TCS Plug Spring Strain Relief	1	14.	EX-5-372-005	Torch Mounting Screws Kit (incl. 3 screws)	1
4.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	15.	EX-5-372-010	Cathode Mounting Kit	1
5.	EX-0-325-002	TCS Clam Shell Upper	1	a 16.	EX-0-321-003	Latch w/Key Assembly	1
6.	EX-0-325-001	TCS Clam Shell Lower	1				

LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

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### **HAND / MACHINE TORCH CONSUMABLES**





ltem	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-2-401-201	Electrode	5	8.	EX-2-419-202	Gouging Shield	1
2.	EX-2-404-201	Swirl ring	1	9	EX-2-421-201	Machine Shield	1
3.	EX-2-409-201	Nozzle	5	10.	EX-2-423-211	Deflector	1
4.	EX-2-409-202	Gouging nozzle	5	11.	EX-2-428-011	IHS Ohmic Clip	1
5.	EX-2-445-001	Marking Nozzle	5	12.	EX-2-419-201	Hand (contact) Shield	1
6.	EX-2-415-201	Retaining Cap	1	13.	EX-2-445-002	Marking Shield	1
7.	EX-2-415-202	Retaining Cap w/IHS Tab	1				

IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.

# EX-TRAFIRE 65HD INDUSTRIAL CUTTING. **HEAVY-DUTY PERFORMANCE.**

**SOLUTIONS / INDUSTRIES** 





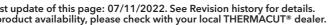
















### **EX-TRAFIRE**<sup>®</sup> **65HD**



#### **IMPRESSIVE PERFORMANCE**



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

### **MARKING MODE**

**AUTOMATIC SETTINGS** 



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

Cutting gas media, electricity and pilot current

Fewer operating errors, better cutting quality

#### **READY FOR INDUSTRY 4.0**

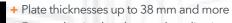


- + Industry leading connectivity
- + CAN / RS 485 / RS 422 Bus interface (optional)
- + Easy monitoring
- + Expandable and updatable

### **NEW CUTTING TORCH FHT®EX105TT**

Compensation for pressure drops

### **HIGHEST FLEXIBILITY**



- + For mechanized and manual applications
- Gouging with high removal rate
- Suitable for worldwide use

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

Last update of this page: 07/11/2022. See Revision history for details. For product availability, please check with your local THERMACUT® dealer.

### EX-TRAFIRE®65HD

#### **SPECIFICATIONS**

Output current [A]	20 -65
Modes	cutting / grid cutting / gouging / marking
Duty cycle	100%@65A
Rated output voltage [VDC]	170
Severance cutting capacity [mm]	38+(1)
Piercing capacity [mm]	20(1)
Recommended cutting capacity [mm]	25(1)
Plasma gas	compr. air / nitrogen / argon
Max. Air flow [lpm/bar]	180/5
CNC interface / CAN BUS interface	optional / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 x 400 ± 15 % <sup>(2)</sup>
Frequency [Hz]	50/60
Dimensions (L×H×W) [mm]	560 x 400 x 260
Weight[kg]	20.3
Certification depending on region	CE, C-TICK, CCC, 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

(1) related to low-alloy steel (mild steel)

(2) suitable for generator use



### EX-TRAFIRE®65HD

#### **ORDERING INFORMATION**

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®65HD/CE/3x400 V/STD EQUIPPED/Hand System/FHT-EX®105TTH Torch 5m/Starter Kit	5 m	EX-3-010-051
EX-TRAFIRE®65HD/CE/3x400 V/STD EQUIPPED/Hand System/FHT-EX®105TTH Torch 8m/Starter Kit	8 m	EX-3-010-052
EX-TRAFIRE®65HD/CE/3x400 V/STD EQUIPPED/Hand System/FHT-EX®105TTH Torch 15m/Starter Kit	15 m	EX-3-010-053
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®65HD/CE/3x400 V/FULLY EQUIPPED/Machine System/FHT-EX®105TTM STD-NR Torch 8m/Starter Kit	8 m	EX-3-011-014
EX-TRAFIRE®65HD/CE/3x400 V/FULLY EQUIPPED/Machine System/FHT-EX®105TTM STD-NR Torch 15m/Starter Kit	15 m	EX-3-011-015
EX-TRAFIRE®65HD CE 3x400 V/FULLY EQUIPPED/Machine System/FHT-EX®105TTSM Torch 8m/Starter Kit	8 m	EX-3-012-006
EX-TRAFIRE®65HD CE 3x400 V/FULLY EQUIPPED/Machine System/FHT-EX®105TTSM Torch 15m/Starter Kit	15 m	EX-3-012-007
EX-TRAFIRE®65HD/CE/3x400 V/STD EQUIPPED/Machine System/FHT-EX®105TTM STD-NR Torch 8m/Starter Kit	8 m	EX-3-013-002
EX-TRAFIRE®65HD/CE/3x400 V/STD EQUIPPED/Machine System/FHT-EX®105TTM STD-NR Torch 15m/Starter Kit	15 m	EX-3-013-003
EX-TRAFIRE®65HD CE 3x400 V/STD EQUIPPED/Machine System/FHT-EX®105TTSM Torch 8m/Starter Kit	8 m	EX-3-014-002
EX-TRAFIRE®65HD CE 3x400 V/STD EQUIPPED/Machine System/FHT-EX®105TTSM Torch 15m/Starter Kit	15 m	EX-3-014-003
PLASMA CUTTING UNITS		
EX-TRAFIRE®65HD/CE/3x400 V power supply unit/FULLY EQUIPPED		EX-3-001-002
EX-TRAFIRE®65HD/CE/3x400 V power supply unit/STD EQUIPPED		EX-3-003-001

STD (standard) EQUIPPED - CNC-Port FULLY EQUIPPED - CNC-Port & Serial Interface

#### AVAILABLE BLILK PACKS

AVAILABLE BULK FACKS		
Description	Pcs	Part No.
Bulk Pack - Electrode 45-105 A - 25 pcs	1	EX-5-401-061
Bulk Pack - Nozzle Smoothline- 25 pcs	1	EX-5-410-060
Bulk Pack - Nozzle 45 A - 25 pcs	1	EX-5-410-061
Bulk Pack - Nozzle 55/65 A - 25 pcs	1	EX-5-410-063
Bulk Pack - Hand Shield 45-85 A - 18 pcs	1	EX-5-422-041
Bulk Pack - Machine Shield Smoothline - 18 pcs	1	EX-5-422-060
Bulk Pack - Machine Shield 45-85 A - 18 pcs	1	EX-5-422-061

#### **ACCESSORIES**

Description	Pcs	Part No.
CNC Interface 14-pin Plug Kit	1	EX-0-803-001
CNC Interface connection lead 3 m	1	EX-0-803-003
CNC Interface connection lead 6 m	1	EX-0-803-004
CAN bus connection cable 10 m	1	EX-0-803-006
CAN bus connection cable 5 m	1	EX-0-803-007
RS422 bus connection cable 10 m	1	EX-0-803-008
RS422 bus connection cable 5 m	1	EX-0-803-009
Universal connection cable 10 m	1	EX-0-803-010
Universal connection cable 5 m	1	EX-0-803-011
Silicone Grease 25 ml	1	EX-0-805-001
Work lead with clamp 300 A/4 m/16 mm2/EU-plug 35-70 mm2	1	EX-5-543-037
Work lead with clamp 300 A/8 m/16 mm2/EU-plug 35-70 mm2 (ON REQUEST)	1	EX-5-543-001
Work lead with clamp 300 A/15 m/16 mm2/EU-plug 35-70 mm2 (ON REQUEST)	1	EX-5-543-002
Work lead with clamp 300 A/23 m/16 mm2/EU-plug 35-70 mm2 (ON REQUEST)	1	EX-5-543-003

Last update of this page: 07/11/2022. See Revision history for details. For product availability, please check with your local THERMACUT® dealer.

### EX-TRAFIRE®65HD





**FRONT VIEW** 

**BACK VIEW** 



**SIDE VIEW** 

# EX-TRAFIRE85HD INDUSTRIAL CUTTING. **HEAVY-DUTY PERFORMANCE.**

**SOLUTIONS / INDUSTRIES** 

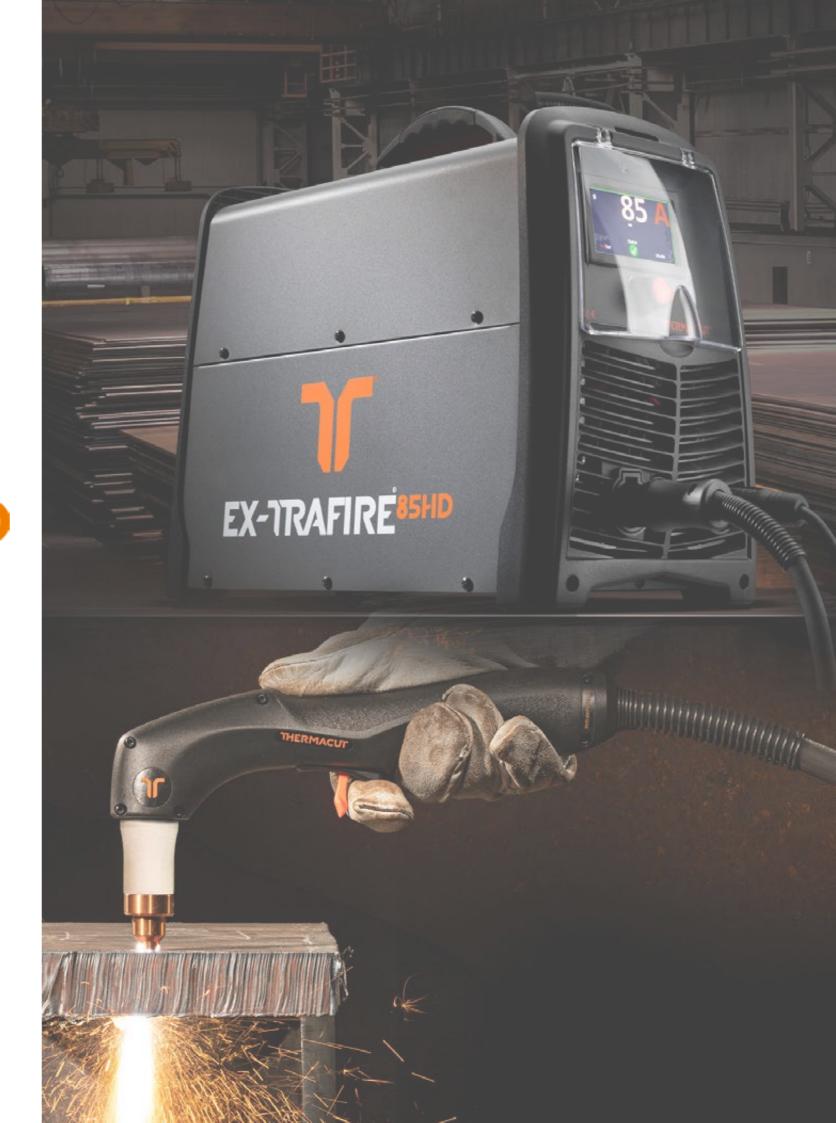












### **EX-TRAFIRE**<sup>®</sup>85HD



#### **IMPRESSIVE PERFORMANCE**



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

#### **MARKING MODE**

**AUTOMATIC SETTINGS** 



+ Automatic gas identification (air, nitrogen, argon)

Cutting gas media, electricity and pilot current

Fewer operating errors, better cutting quality

Compensation for pressure drops

- Integrated gas saving function
- + Fine, deep or wide markings
- Optional smooth marking for applications bellow 20A

#### **READY FOR INDUSTRY 4.0**



- Industry leading connectivity
- CAN / RS 485 / RS 422 Bus interface (optional)
- Easy monitoring

**HIGHEST FLEXIBILITY** 

Expandable and updatable

#### **NEW CUTTING TORCH FHT®EX105TT**



- Plate thicknesses up to 45 mm and more
- For mechanized and manual applications
- Gouging with high removal rate
- Suitable for worldwide use

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

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### EX-TRAFIRE®85HD

#### **SPECIFICATIONS**

0	00.05
Output current [A]	20 -85
Modes	cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 85 A
Rated output voltage [VDC]	160
Severance cutting capacity [mm]	45+(1)
Piercing capacity [mm]	20'1)
Recommended cutting capacity [mm]	25 <sup>(1)</sup>
Plasma gas	compr. air / nitrogen / argon
Max. Air flow [lpm/bar]	195/5
CNC interface / CAN BUS interface	optional / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 x 400 ± 15 % <sup>(2)</sup>
Frequency [Hz]	50/60
Dimensions (L×H×W) [mm]	613 x 515 x 302
Weight[kg]	24
Certification depending on region	CE, C-TICK, CCC, 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

(1) related to low-alloy steel (mild steel)

(2) suitable for generator use



### EX-TRAFIRE®85HD

### **ORDERING INFORMATION**

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®85HD/CE/3x400 V Hand System/STD EQUIPPED/FHT-EX®105TTH Torch 5m/Starter Kit	5 m	EX-4-010-009
EX-TRAFIRE®85HD/CE/3x400 V Hand System/STD EQUIPPED/FHT-EX®105TTH Torch 8m/Starter Kit	8 m	EX-4-010-010
EX-TRAFIRE®85HD/CE/3x400 V Hand System/STD EQUIPPED/FHT-EX®105TTH Torch 15m/Starter Kit	15 m	EX-4-010-011
EX-TRAFIRE®85HD/CE/3x400 V Hand System/STD EQUIPPED/FHT-EX®105TTH Torch 23m/Starter Kit	23 m	EX-4-010-012
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®85HD/CE/3x400 V Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 8m/Starter Kit	8 m	EX-4-011-019
EX-TRAFIRE®85HD/CE/3x400 V Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 15m/Starter Kit	15 m	EX-4-011-020
EX-TRAFIRE®85HD/CE 3x400 V Machine System/FULLY EQUIPPED/FHT-EX®105TTSM Torch 8m/Starter Kit		EX-4-012-006
EX-TRAFIRE®85HD/CE 3x400 V Machine System/FULLY EQUIPPED/FHT-EX®105TTSM Torch 15m/Starter Kit		EX-4-012-007
EX-TRAFIRE®85HD/CE/3x400 V Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 8m/Starter Kit		EX-4-013-002
EX-TRAFIRE®85HD/CE/3x400 V Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 15m/Starter Kit		EX-4-013-003
EX-TRAFIRE®85HD/CE 3x400 V Machine System/STD EQUIPPED/FHT-EX®105TTSM Torch 8m/Starter Kit		EX-4-014-002
EX-TRAFIRE®85HD/CE 3x400 V Machine System/STD EQUIPPED/FHT-EX®105TTSM Torch 15m/Starter Kit		EX-4-014-003
PLASMA CUTTING UNITS		
EX-TRAFIRE®85HD/CE/3x400 V power supply unit/FULLY EQUIPPED		EX-4-001-001
EX-TRAFIRE®85HD/CE/3x400 V power supply unit/STD EQUIPPED		EX-4-003-001

#### NOTE

STD (standard) EQUIPPED - CNC-Port FULLY EQUIPPED - CNC-Port & Serial Interface

### **AVAILABLE BULK PACKS**

ATAIL TO LE DOUIT I AGILO		
Description	Pcs	Part No.
Bulk Pack - Electrode 45-105 A - 25 pcs	1	EX-5-401-061
Bulk Pack - Nozzle 75 A - 25 pcs	1	EX-5-410-032
Bulk Pack - Nozzle Smoothline- 25 pcs	1	EX-5-410-060
Bulk Pack - Nozzle 45 A - 25 pcs	1	EX-5-410-061
Bulk Pack - Nozzle 55/65 A - 25 pcs	1	EX-5-410-063
Bulk Pack - Nozzle 85 A - 25 pcs	1	EX-5-410-065
Bulk Pack - Hand Shield 45-85 A - 18 pcs	1	EX-5-422-041
Bulk Pack - Machine Shield Smoothline - 18 pcs	1	EX-5-422-060
Bulk Pack - Machine Shield 45-85 A - 18 pcs	1	EX-5-422-061

#### **ACCESSORIES**

Description	Pcs	Part No.
CNC Interface 14-pin Plug Kit	1	EX-0-803-001
CNC Interface connection lead 3 m	1	EX-0-803-003
CNC Interface connection lead 6 m	1	EX-0-803-004
CAN bus connection cable 10 m	1	EX-0-803-006
CAN bus connection cable 5 m	1	EX-0-803-007
RS422 bus connection cable 10 m	1	EX-0-803-008
RS422 bus connection cable 5 m	1	EX-0-803-009
Universal connection cable 10 m	1	EX-0-803-010
Universal connection cable 5 m	1	EX-0-803-011
Silicone Grease 25 ml	1	EX-0-805-001
Work lead with clamp 300 A/4 m/16 mm2/EU-plug 35-70 mm2	1	EX-5-543-037
Work lead with clamp 300 A/8 m/16 mm2/EU-plug 35-70 mm2 (ON REQUEST)	1	EX-5-543-001
Work lead with clamp 300 A/15 m/16 mm2/EU-plug 35-70 mm2 (ON REQUEST)	1	EX-5-543-002
Work lead with clamp 300 A/23 m/16 mm2/EU-plug 35-70 mm2 (ON REQUEST)	1	EX-5-543-003

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### EX-TRAFIRE®85HD





**FRONT VIEW** 

**BACK VIEW** 



**SIDE VIEW** 

# EX-TRAFIRE 105HD INDUSTRIAL CUTTING. **HEAVY-DUTY PERFORMANCE.**

**SOLUTIONS / INDUSTRIES** 











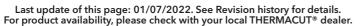


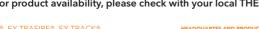


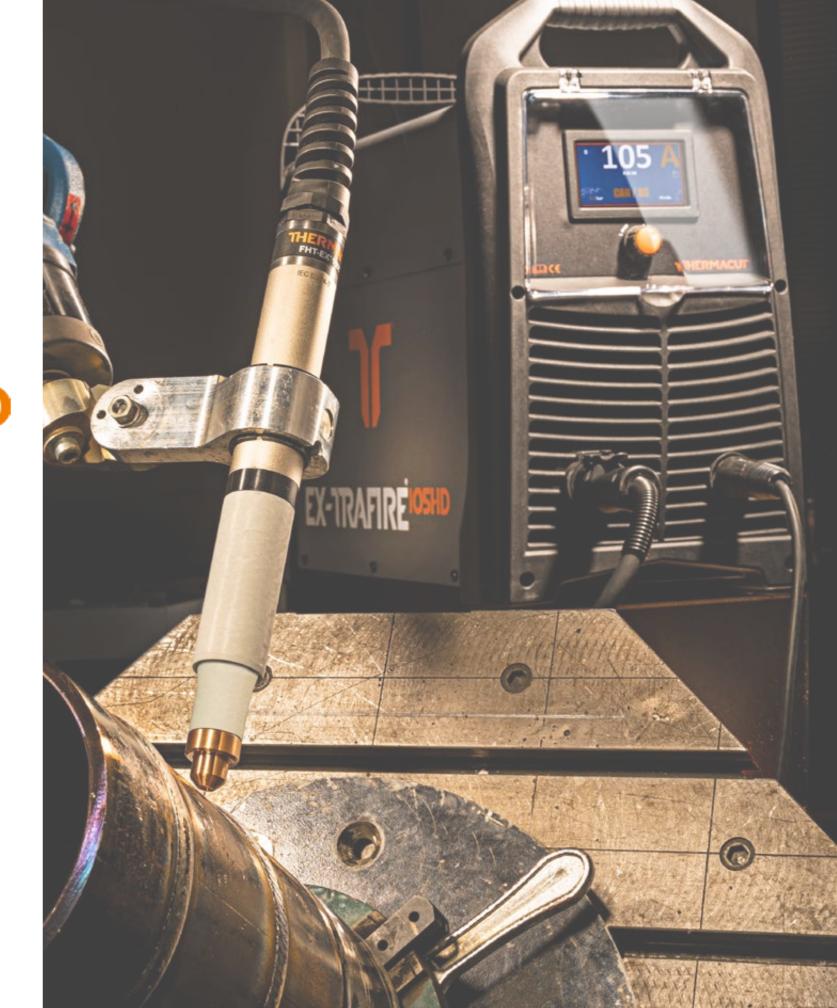












### EX-TRAFIRE® 105HD



#### **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 / RS 422 Bus interface (optional)
- Easy monitoring
- Expandable and updatable

#### **HIGHEST FLEXIBILITY**



- Plate thicknesses up to 50 mm 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

Last update of this page: 01/07/2022. See Revision history for details. For product availability, please check with your local THERMACUT® dealer.

### EMAIL: COMPLAINT@THERMACUT.CZ

### EX-TRAFIRE®105HD

#### **SPECIFICATIONS**

Output current [A]	20-105
Modes	cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 105 A
Rated output voltage [VDC]	200
Severance cutting capacity [mm]	50+(1)
Piercing capacity [mm]	20(1)
Recommended cutting capacity [mm]	35 <sup>(1)</sup>
Plasma gas	compr. air / nitrogen / argon
Max. Air flow [lpm/bar]	205/5
CNC interface / CAN BUS interface	optional / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 x 400 ± 15 % <sup>(2)</sup>
Frequency [Hz]	50/60
Dimensions (L×H×W) [mm]	613 x 515 x 302
Weight[kg]	35.4
Certification depending on region	CE, C-TICK, CCC, 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

(1) related to low-alloy steel (mild steel)

(2) suitable for generator use



### EX-TRAFIRE®105HD

### **ORDERING INFORMATION**

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®105HD/CE/3x400 V Hand System/CNC Port/FHT-EX®105TTH/Starter Kit	5 m	EX-5-010-009
EX-TRAFIRE®105HD/CE/3x400 V Hand System/CNC Port/FHT-EX®105TTH/Starter Kit	8 m	EX-5-010-010
EX-TRAFIRE®105HD/CE/3x400 V Hand System/CNC Port/FHT-EX®105TTH/Starter Kit	15 m	EX-5-010-011
EX-TRAFIRE®105HD/CE/3x400 V Hand System/CNC Port/FHT-EX®105TTH/Starter Kit	23 m	EX-5-010-012
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®105HD/CE/3x400 V Machine System/CNC Port/Serial Interface/FHT-EX®105TTM STD-NR/Starter Kit	8 m	EX-5-011-019
EX-TRAFIRE®105HD/CE/3x400 V Machine System/CNC Port/Serial Interface/FHT-EX®105TTM STD-NR/Starter Kit	15 m	EX-5-011-020
EX-TRAFIRE®105HD CE 3x400 V Machine System/CNC Port/Serial Interface/FHT-EX®105TTSM/Starter Kit	8 m	EX-5-012-006
EX-TRAFIRE®105HD CE 3x400 V Machine System/CNC Port/Serial Interface/FHT-EX®105TTSM/Starter Kit	15 m	EX-5-012-007
EX-TRAFIRE®105HD/CE/3x400 V Machine System/CNC Port/FHT-EX®105TTM STD-NR/Starter Kit	8 m	EX-5-013-002
EX-TRAFIRE®105HD/CE/3x400 V Machine System/CNC Port/FHT-EX®105TTM STD-NR/Starter Kit	15 m	EX-5-013-003
EX-TRAFIRE®105HD CE 3x400 V Machine System/CNC Port/FHT-EX®105TTSM/Starter Kit	8 m	EX-5-014-002
EX-TRAFIRE®105HD CE 3x400 V Machine System/CNC Port/FHT-EX®105TTSM/Starter Kit	15 m	EX-5-014-003
PLASMA CUTTING UNITS		
EX-TRAFIRE®105HD/CE/3x400 V power supply unit/CNC Port/Serial Interface		EX-5-001-002
EX-TRAFIRE®105HD/CE/3x400 V power supply unit/CNC Port		EX-5-003-001

### **AVAILABLE BULK PACKS**

Description	Pcs	Part No.
Bulk Pack - Electrode 45-105 A - 25 pcs	1	EX-5-401-061
Bulk Pack - Nozzle 75 A - 25 pcs	1	EX-5-410-032
Bulk Pack - Nozzle Smoothline- 25 pcs	1	EX-5-410-060
Bulk Pack - Nozzle 45 A - 25 pcs	1	EX-5-410-061
Bulk Pack - Nozzle 55/65 A - 25 pcs	1	EX-5-410-063
Bulk Pack - Nozzle 85 A - 25 pcs	1	EX-5-410-065
Bulk Pack - Nozzle 100/105 A - 25 pcs	1	EX-5-410-066
Bulk Pack - Hand Shield 45-85 A - 18 pcs	1	EX-5-422-041
Bulk Pack - Hand Shield 100/105 A - 18 pcs	1	EX-5-422-042
Bulk Pack - Machine Shield Smoothline - 18 pcs	1	EX-5-422-060
Bulk Pack - Machine Shield 45-85 A - 18 pcs	1	EX-5-422-061
Bulk Pack - Machine Shield 100/105 A - 18 pcs	1	EX-5-422-062

#### **ACCESSORIES**

Description	Pcs	Part No.
CNC Interface 14-pin Plug Kit	1	EX-0-803-001
CNC Interface connection lead 3 m	1	EX-0-803-003
CNC Interface connection lead 6 m	1	EX-0-803-004
CAN bus connection cable 10 m	1	EX-0-803-006
CAN bus connection cable 5 m	1	EX-0-803-007
RS422 bus connection cable 10 m	1	EX-0-803-008
RS422 bus connection cable 5 m	1	EX-0-803-009
Universal connection cable 10 m	1	EX-0-803-010
Universal connection cable 5 m	1	EX-0-803-011
Silicone Grease 25 ml	1	EX-0-805-001
Work lead with clamp 300 A/4 m/16 mm2/EU-plug 35-70 mm2	1	EX-5-543-037
Work lead with clamp 300 A/8 m/16 mm2/EU-plug 35-70 mm2 (ON REQUEST)	1	EX-5-543-001
Work lead with clamp 300 A/15 m/16 mm2/EU-plug 35-70 mm2 (ON REQUEST)	1	EX-5-543-002
Work lead with clamp 300 A/23 m/16 mm2/EU-plug 35-70 mm2 (ON REQUEST)	1	EX-5-543-003

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### EX-TRAFIRE® 105HD





**FRONT VIEW** 

**BACK VIEW** 

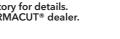


**SIDE VIEW** 

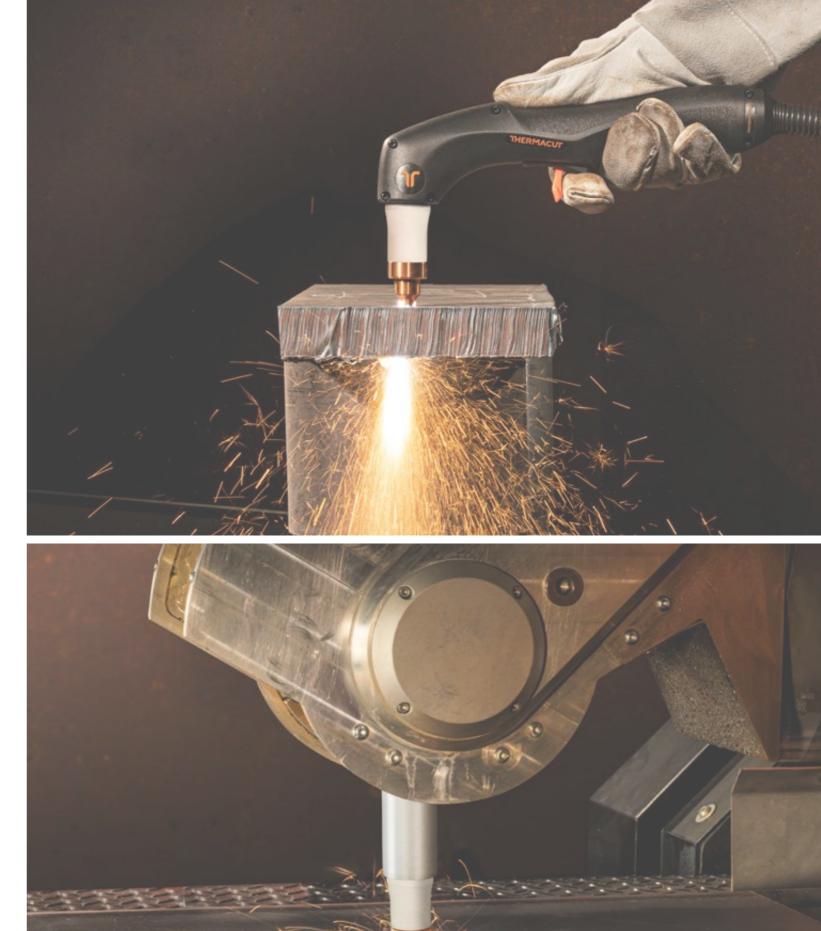
## FHT-EX®105TT HAND/MACHINE TORCHES **AND CONSUMABLES**

**SUITABLE FOR EX-TRAFIRE® 65HD/85HD/105HD** 



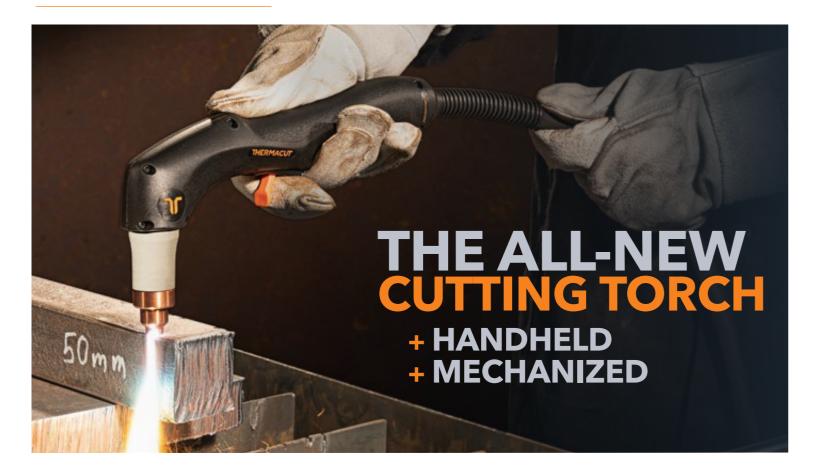






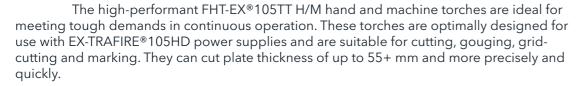
### FHT-EX®105TTH

### FHT-EX®105TT





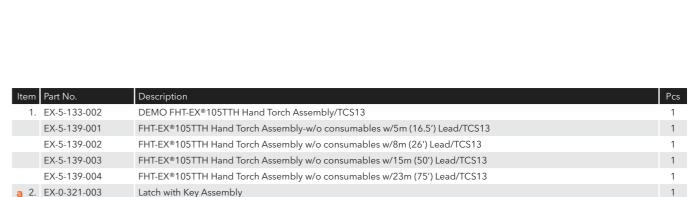








- High-performant torches for mechanised applications and handheld use
- Ergonomic handheld torches for safe and reliable holding and guiding in all positions
- Compact and flexible for handheld applications, even in the case of tight radii or gouging of fillet welds
- 100 % duty cycle at 105 A, ideal for continuous use
- Ideal for plate thicknesses of up to 50+ mm and more with high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing 25+ mm
- Perfectly designed for use with EX-TRAFIRE®105HD power supplies



a LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

Last update of this page: 01/07/2022. See Revision history for details. For product availability, please check with your local THERMACUT® dealer.

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HAND TORCH ASSEMBLY

### FHT-EX®105TTH

### **HAND TORCH COMPONENTS**



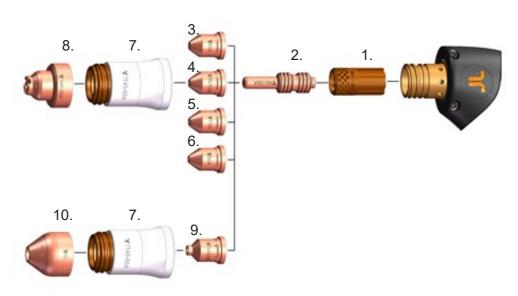
Item	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-5-374-010	FHT-EX®105TTH Hand Torch Lead Replacement 5m (16.5')/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-5-374-011	FHT-EX®105TTH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-001	Hand Torch Body Repl. Kit (incl. Torch body & Cap sensor)	1
1.	EX-5-374-012	FHT-EX®105TTH Hand Torch Lead Replacement 15m (50')/TCS13	1	11.	EX-5-431-050	O-Ring (fitted on the torch body) - 2 pcs	2
1.	EX-5-374-013	FHT-EX®105TTH Hand Torch Lead Replacement 23m (75')/TCS13	1	12.	EX-5-314-001	Hand Torch Handle Replacement Kit	1
2.	EX-5-318-001	TCS Plug Spring Strain Relief	1	13.	EX-5-305-002	Cap-sensor Replacement Kit with Screws/ Hand Torch	1
3.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	14.	EX-5-313-031	Safety Trigger	1
4.	EX-0-325-002	TCS Clam Shell Upper	1	15.	EX-5-308-001	Hand Torch Handle with Screws	1
5.	EX-0-325-001	TCS Clam Shell Lower	1	16.	EX-5-372-010	Cathode mounting kit	1
6.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	<b>a</b> 17.	EX-0-321-003	Latch w/Key Assembly	1
7.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	18.	EX-5-313-030	Safety Trigger Micro-Switch	1
8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1				

a LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

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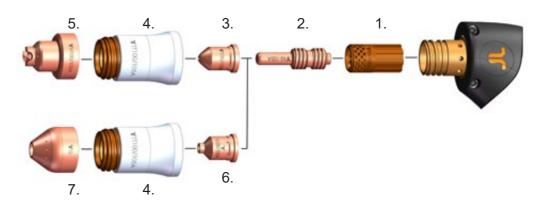
### **CONSUMABLES**

### HAND TORCH CONSUMABLES - 45-85 A



Item	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1	6.	EX-5-410-055	Nozzle 85 A	5
2.	EX-5-401-051	Electrode 45-105 A	5	7.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
3.	EX-5-410-051	Nozzle 45 A	5	8.	EX-5-422-031	Hand Shield 45-85 A	1
4.	EX-5-410-053	Nozzle 55/65 A	5	9.	EX-5-440-051	Gouging Nozzle 65-85 A	5
5.	EX-5-410-030	Nozzle 75 A	5	10.	EX-5-440-050	Gouging Shield	1

### **HAND TORCH CONSUMABLES - 100-105 A**

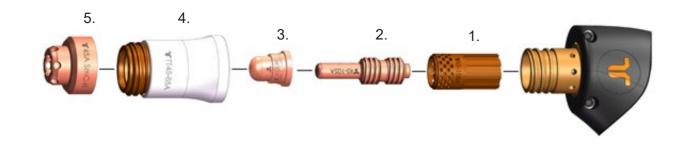


Item	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1	5.	EX-5-422-032	Hand Shield 100/105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-440-052	Gouging Nozzle 100/105 A	5
3.	EX-5-410-056	Nozzle 100/105 A	5	7.	EX-5-440-050	Gouging Shield	1
4.	EX-5-415-051	Nozzle Retaining Cap 100/105 A	1				

### **CONSUMABLES**

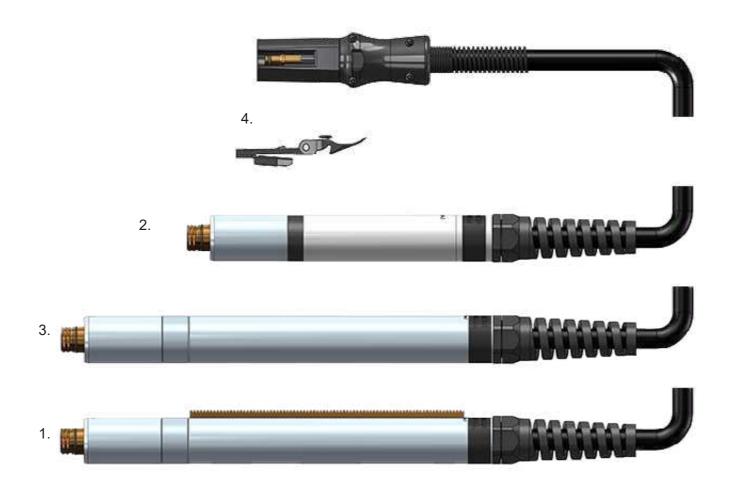
### FHT-EX®105TT

### **HAND TORCH CONSUMABLES - SMOOTHLINE**



ltem	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5
3.	EX-5-410-050	Nozzle Smoothline	5
4.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
5.	EX-5-420-050	Hand Shield 40/45 A Smoothline	1

### **MACHINE TORCH ASSEMBLY**



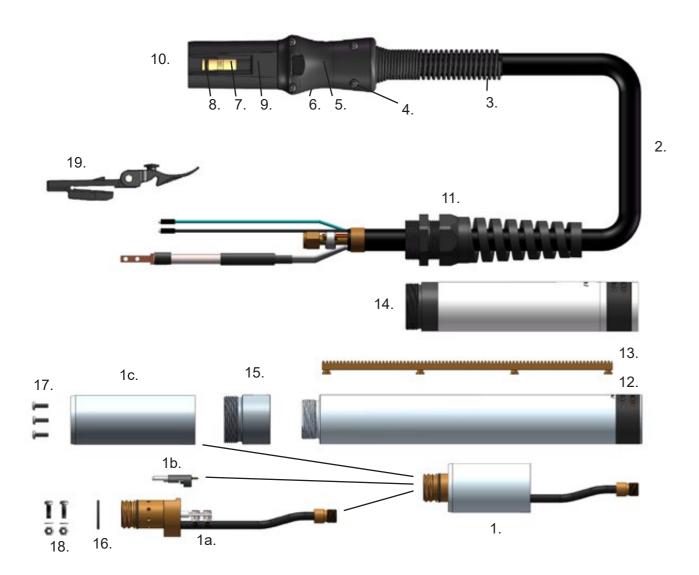
ltem	Part No.	Description	Pcs
1.	EX-5-233-020	DEMO FHT-EX®105TTM (STD) Machine Torch w/Rack Assembly/TCS13	1
NS	EX-5-234-021	DEMO FHT-EX®105TTSM Short Machine Torch Assembly/ TCS13	1
2.	EX-5-242-021	FHT-EX®105TTSM Short Machine Torch Assembly-w/o consumables w/5m (16.5') Lead/ TCS13	1
2.	EX-5-244-021	FHT-EX®105TTSM Short Machine Torch Assembly-w/o consumables w/8m (26') Lead/ TCS13	1
2.	EX-5-247-021	FHT-EX®105TTSM Short Machine Torch Assembly-w/o consumables w/15m (50') Lead/ TCS13	1
2.	EX-5-250-021	FHT-EX®105TTSM Short Machine Torch Assembly-w/o consumables w/23m (75') Lead/ TCS13	1
3.	EX-5-202-031	FHT-EX®105TTM M Torch w/o Rack Assy w/o consumables w/5m (16.5')Lead/ TCS13	1
3.	EX-5-204-031	FHT-EX®105TTM M Torch w/o Rack Assy w/o consumables w/8m (26') Lead/ TCS13	1
3.	EX-5-207-032	FHT-EX®105TTM M Torch w/o Rack Assy w/o consumables w/15m (50') Lead/ TCS13	1
3	EX-5-210-034	FHT-EX®105TTM M Torch w/o Rack Assy w/o consumables w/23m (75') Lead/ TCS13	1
<b>a</b> 4.	EX-0-321-003	Latch with Key Assembly	1

a LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

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### FHT-EX®105TTM

### **MACHINE TORCH COMPONENTS**



ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-5-303-011	Machine Torch Body Assembly FHT-EX®105TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1a.	EX-5-303-010	Machine Torch Body FHT-EX®105TTM	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
1 h	EX-5-304-001	Cap Sensor Replacement Kit with Screws/Machine	1	10.	EX-0-323-001	TCS13 Plug Body	1
ID.	EA-3-304-001	Torch	ı	11.	EX-5-317-021	Machine Torch Strain Relief	1
1c.	EX-5-306-002	Torch Mounting Sleeve (incl. 3 screws)	1	12.	EX-5-306-003	Standard Mounting Tube w/o Rack	1
2.	EX-5-375-010	FHT-EX®105TTM Machine Torch Lead Replacement 5m (16.5')/TCS13	1	13.	EX-5-306-004	Gear Rack	1
2.	EX-5-375-011	FHT-EX®105TTM Machine Torch Lead Replacement 8m (26')/TCS13	1	14.	EX-5-306-009	Short Mounting Tube	1
2.	EX-5-375-012	FHT-EX®105TTM Machine Torch Lead Replacement 15m (50')/TCS13	1	15.	EX-5-306-005	Standard Mounting Tube Reduction Nut	1
2.	EX-5-375-013	FHT-EX®105TTM Machine Torch Lead Replacement 23m (75')/TCS13	1	16.	EX-5-431-050	O-Ring (fitted on the torch body)	1
3.	EX-5-318-001	TCS Plug Spring Strain Relief	1	17.	EX-5-372-005	Torch Mounting Screws Kit (incl. 3 screws)	1
4.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	18.	EX-5-372-010	Catode Mounting Kit	1
5.	EX-0-325-002	TCS Clam Shell Upper	1	<b>a</b> 19.	EX-0-321-003	Latch w/Key Assembly	1
6.	EX-0-325-001	TCS Clam Shell Lower	1				
7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1				

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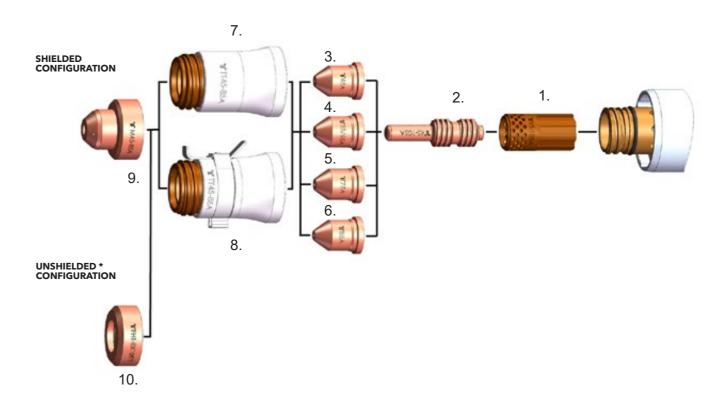
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### EMAIL: SALES@THERMACUT.CZ

### EMAIL: COMPLAINT@THERMACUT.CZ

### **CONSUMABLES**

### **STANDARD MACHINE TORCH CONSUMABLES - 45-85 A**



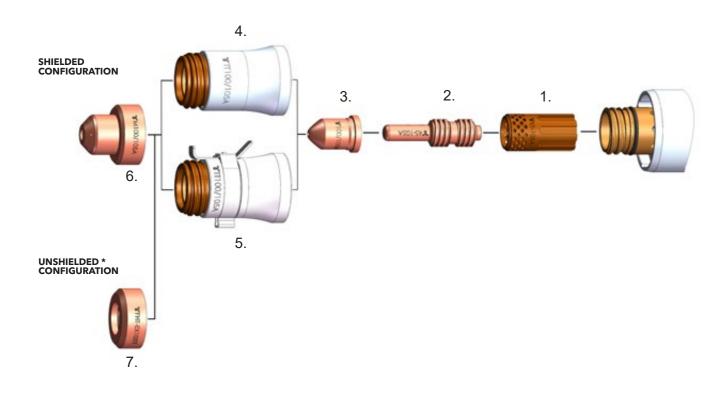
ltem	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1	6.	EX-5-410-055	Nozzle 85 A	5
2.	EX-5-401-051	Electrode 45-105 A	5	7.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
3.	EX-5-410-051	Nozzle 45 A	5	8.	EX-5-415-052	Nozzle Retaining Cap 45-85 A w/IHS Tab	1
4.	EX-5-410-053	Nozzle 55/65 A	5	9.	EX-5-422-051	Machine Shield 45-85 A	1
5.	EX-5-410-030	Nozzle 75 A	5	10.	EX-5-423-001	Deflector	1

IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.

### **CONSUMABLES**

### **CONSUMABLES**

### **MACHINE TORCH CONSUMABLES - 100-105 A**

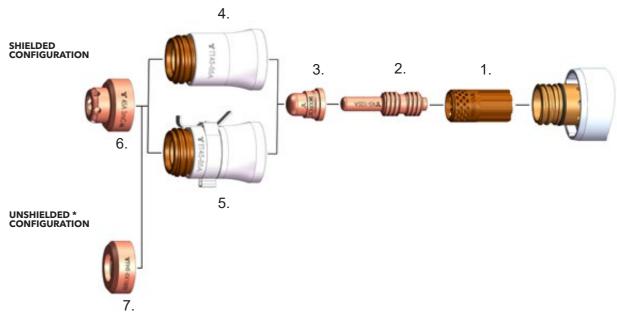


tem	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5
3.	EX-5-410-056	Nozzle 100/105 A	5
4.	EX-5-415-051	Nozzle Retaining Cap 100/105 A	1
5.	EX-5-415-053	Nozzle Retaining Cap 100/105 A w/IHS Tab	1
6.	EX-5-422-052	Machine Shield 100/105 A	1
7.	EX-5-423-001	Deflector	1

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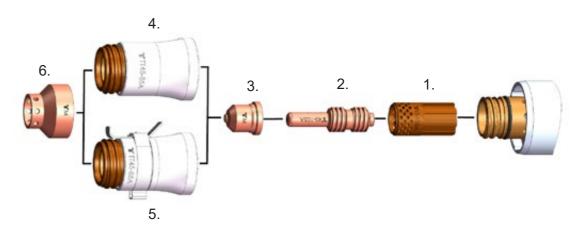
### **MACHINE TORCH CONSUMABLES - SMOOTHLINE**



ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1	5.	EX-5-415-052	Nozzle Retaining Cap 45-85 A w/IHS Tab	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-422-050	Machine Shield 40/45 A Smoothline	1
3.	EX-5-410-050	Nozzle Smoothline	5	7.	EX-5-423-001	Deflector	1
4	FX-5-415-050	Nozzle Retaining Cap 45-85 A	1				

IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.

### **MACHINE TORCH CONSUMABLES - MARKING**



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105A	1	4.	EX-5-415-050	Nozzle Retaining Cap 45-85A	1
2.	EX-5-401-051	Electrode 45-105 A	5	5.	EX-5-415-052	Nozzle Retaining Cap 45-85A w/IHS Tab	1
3.	EX-5-445-001	Marking Nozzle	5	6.	EX-5-445-002	Marking Shield	1

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EMAIL: SALES@THERMACUT.CZ

## EX-TRAFIRE 125HD INDUSTRIAL CUTTING. **HEAVY-DUTY PERFORMANCE.**

**SOLUTIONS / INDUSTRIES** 





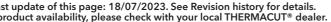


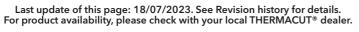














### EX-TRAFIRE® 125HD



#### **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 / RS 422 Bus interface (optional)
- Easy monitoring
- Expandable and updatable

#### **HIGHEST FLEXIBILITY**



- Plate thicknesses up to 60 mm
- 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 30A

#### **AUTOMATIC SETTINGS**



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

#### **NEW CUTTING TORCH FHT®EX125TT**



- Torch design award BigSEE 2021 winner
- Optimized ergonomics
- Relaxed PE and PA cutting
- 100% duty cycle

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### EX-TRAFIRE®125HD

#### **SPECIFICATIONS**

Output current [A]	30-125
Modes	cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 125 A
Rated output voltage [VDC]	382,5
Severance cutting capacity [mm]	60(1)
Piercing capacity [mm]	25 <sup>(1)</sup>
Recommended cutting capacity [mm]	401)
Plasma gas	compressed air/nitrogen
Max. Air flow [lpm/bar]	175/5.2
CNC interface / CAN BUS interface	optional / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 x 400 ± 15 % <sup>(2)</sup>
Frequency [Hz]	50/60
Dimensions (L×H×W) [mm]	615 x 295 x 505
Weight[kg]	37.7
Certification depending on region	CE, RCM, CSA
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®125TTH
Type of machine torch	FHT-EX®125TTM

1) related to low-alloy steel (mild steel)

(2) suitable for generator use



### EX-TRAFIRE®125HD

### **ORDERING INFORMATION**

TREE MINISTRA CONTRACTOR		
Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®125HD/CE/3x400 V Hand System/FHT-EX®125TTH Torch 8m (26.2')/Starter Kit	8 m	EX-6-010-001
EX-TRAFIRE®125HD/CE/3x400 V Hand System/FHT-EX®125TTH Torch 15m (49.2')/Starter Kit	15 m	EX-6-010-002
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®125HD/CE/3x400 V Machine System/FULLY EQUIPPED/FHT-EX®125TTM 8m (26.2°)/Starter Kit	8 m	EX-6-011-001
EX-TRAFIRE®125HD/CE/3x400 V Machine System/FULLY EQUIPPED/FHT-EX®125TTM 15m (49.2')/Starter Kit	15 m	EX-6-011-002
EX-TRAFIRE®125HD/CE/3x400 V Machine System/STD EQUIPPED/FHT-EX®125TTM 8m (26.2')/Starter Kit	8 m	EX-6-013-005
EX-TRAFIRE®125HD/CE/3x400 V Machine System/STD EQUIPPED/FHT-EX®125TTM 15m (49.2')/Starter Kit	15 m	EX-6-013-006
PLASMA CUTTING UNITS		
EX-TRAFIRE® 125HD/CE/3x400V (Fighter version) power supply unit/FULLY EQUIPPED		EX-6-001-002
EX-TRAFIRE® 125HD/CE/3x400V (Fighter version) power supply unit/STD EQUIPPED		EX-6-003-001
NOTE: STD (standard) EQUIPPED - CNC-Port FULLY EQUIPPED - CNC-Port & Serial Interface		

### **ACCESSORIES**

Description		Pcs	Part No.
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
CNC Interface 14-pin Plug Kit		1	EX-0-803-001
CNC Interface connection lead 3 m		1	EX-0-803-003
CNC Interface connection lead 6 m		1	EX-0-803-004
Plasma Arc START/STOP Remote Controller for STD/FULLY EQUIPPED	power supplies	1	EX-0-803-005
FILTER-EX Compressed Air Filter		1	T-12452
FILTER-EX Air Filter Cartridge		1	T-12453
Silicone Grease 25ml		1	EX-0-805-001
THERMACUT® Cutting Gloves		1	N-21811
CAN bus connection cable 10m (32.8')		1	EX-0-803-006
CAN bus connection cable 5m (16.4')		1	EX-0-803-007
RS422 bus connection cable 10m (32.8')		1	EX-0-803-008
RS422 bus connection cable 5m (16.4')		1	EX-0-803-009
Universal connection cable 10m (32.8')		1	EX-0-803-010
Universal connection cable 5m (16.4')		1	EX-0-803-011
Work lead with clamp 300A/4m/16mm2/EU-plug 35-70mm2		1	EX-5-543-037
Work lead with clamp 300A/23m/16mm2/EU-plug 35-70mm2		1	EX-5-543-003
Work lead with clamp 300A/15m/16mm2/EU-plug 35-70mm2		1	EX-5-543-002
Work lead with clamp 300A/8m/16mm2/EU-plug 35-70mm2		1	EX-5-543-001
EX-TRAFIRE®65-125HD CAN/RS Bus Upgrade Kit		1	EX-0-803-013

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### EX-TRAFIRE®125HD





**FRONT VIEW** 

**BACK VIEW** 

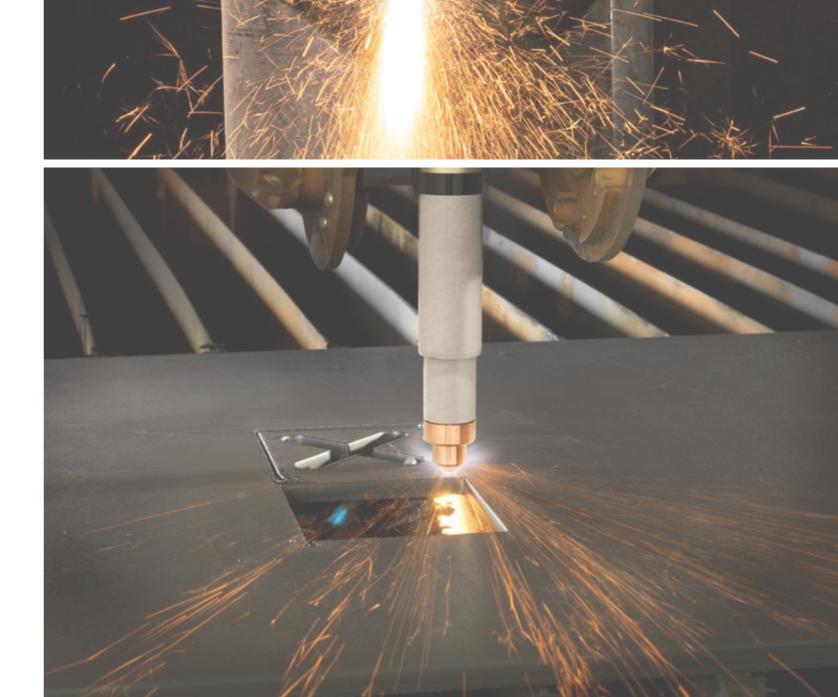


**SIDE VIEW** 

## FHT-EX®125TT HAND/MACHINE TORCHES **AND CONSUMABLES**

**SUITABLE FOR EX-TRAFIRE® 125HD** 

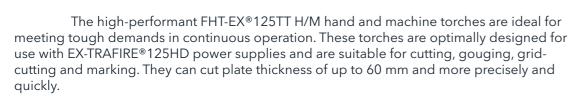




### FHT-EX®125TTH

### FHT-EX®125TT





Thanks to the THERMACUT® Torch Connection System (TCS), changing the torch is a quick and easy process. The powerful torches are the result of decades of experience in the field of plasma cutting. They feature an extremely robust and durable design in which all consumables can be replaced quickly and easily.

#### **BENEFITS**

- High-performant torches for mechanised applications and handheld use
- Ergonomic handheld torches for safe and reliable holding and guiding in all positions
- Compact and flexible for handheld applications, even in the case of tight radii or gouging of fillet welds
- 100 % duty cycle at 125 A, ideal for continuous use
- Ideal for plate thicknesses of up to 60 mm and more with high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing 25+ mm
- Perfectly designed for use with EX-TRAFIRE®125HD power supplies

### **HAND TORCH ASSEMBLY**



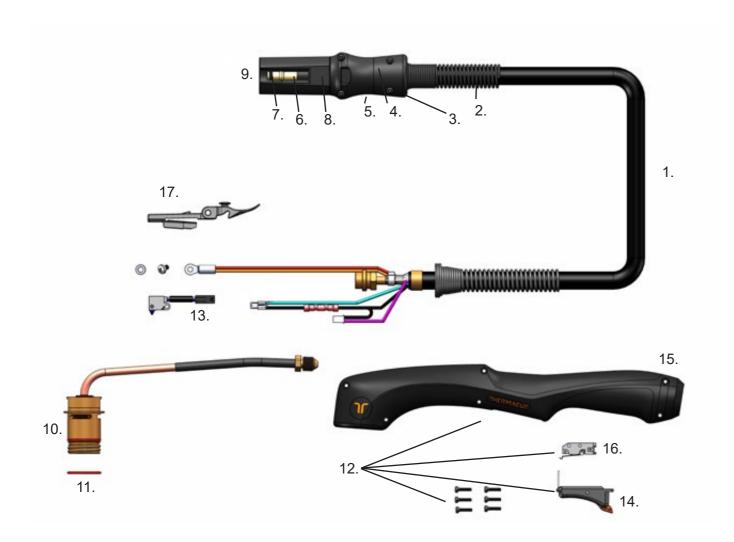
ltem	Part No.	Description	Pcs
NS	EX-6-133-001	DEMO FHT-EX®125TTH Hand Torch Assembly/TCS13	1
1.	EX-6-139-001	FHT-EX®125TTH Hand Torch Assembly-w/o consumables w/5m (16.5')Lead/TCS13	1
1.	EX-6-139-002	FHT-EX®125TTH Hand Torch Assembly-w/o consumables w/8m (26.2') Lead/TCS13	1
1.	EX-6-139-003	FHT-EX®125TTH Hand Torch Assembly-w/o consumables w/15m (49.2') Lead/TCS13	1
1.	EX-6-139-004	FHT-EX®125TTH Hand Torch Assembly-w/o consumables w/23m (75.5') Lead/TCS13	1
<b>a</b> 2.	EX-0-321-003	Latch with Key Assembly	1

a LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

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### FHT-EX®125TTH

### **HAND TORCH COMPONENTS**



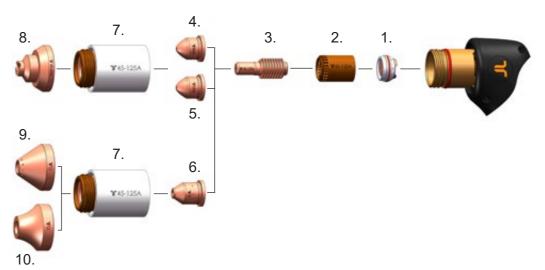
Item	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-6-374-001	FHT-EX®125TTH Hand Torch Lead Replacement 5m (16.5')/TCS13	1	8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
1.	EX-6-374-002	FHT-EX®125TTH Hand Torch Lead Replacement 8m (26.2')/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-6-374-003	FHT-EX®125TTH Hand Torch Lead Replacement 15m (49.2')/TCS13	1	10.	EX-6-302-001	Hand Torch Body	1
1.	EX-6-374-004	FHT-EX®125TTH Hand Torch Lead Replacement 23m (75')/TCS13	1	11.	EX-6-431-001	O-Ring (fitted on the torch body) - 2 pcs	1
2.	EX-5-318-001	TCS Plug Spring Strain Relief	1	12.	EX-6-314-001	Hand Torch Handle Replacement Kit	1
3.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	13.	EX-5-305-001	Cap-sensor Replacement Kit with Screws/ Hand Torch	1
4.	EX-0-325-002	TCS Clam Shell Upper	1	14.	EX-5-313-031	Safety Trigger	1
5.	EX-0-325-001	TCS Clam Shell Lower	1	15.	EX-6-308-001	Hand Torch Handle with Screws (6pcs)	1
6.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	16.	EX-5-313-030	Safety Trigger Micro-Switch	1
7.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	<b>a</b> 17.	EX-0-321-003	Latch w/Key Assembly	1

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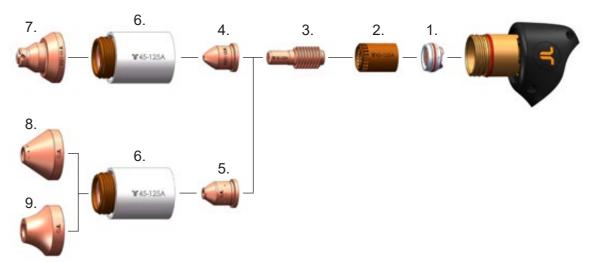
### **CONSUMABLES**

### **HAND TORCH CONSUMABLES - 45-65 A**



Item	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-6-446-001	Swirl Ring Holder	1	6.	EX-6-440-020	Gouging Nozzle	1
2.	EX-6-404-021	Swirl Ring 45-125A	1	7.	EX-6-415-021	Retaining Cap 45-125A	1
3.	EX-6-401-021	Electrode 45-125A (5pcs package)	1	8.	EX-6-419-022	Shield 45-65A, Hand	1
4.	EX-6-409-024	Nozzle 45A	1	9.	EX-6-440-023	Gouging Shield, Standard	1
5.	EX-6-409-023	Nozzle 65A	1	10.	EX-6-440-024	Gouging Shield, High Removal	1

### **HAND TORCH CONSUMABLES - 85-125 A**



Item	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-6-446-001	Swirl Ring Holder	1	6	EX-6-415-021	Retaining Cap 45-125A	1
2.	EX-6-404-021	Swirl Ring 45-125A	1	7.	EX-6-419-021	Shield 85-125A, Hand	1
3.	EX-6-401-021	Electrode 45-125A (5pcs package)	1	8.	EX-6-440-023	Gouging Shield, Standard	1
4.	EX-6-409-021	Nozzle 85-125A	1	9.	EX-6-440-024	Gouging Shield, High Removal	1
5.	EX-6-440-020	Gouging Nozzle	1				

FHT-EX®125TTM

### FHT-EX®125TTM

### **MACHINE TORCH ASSEMBLY**

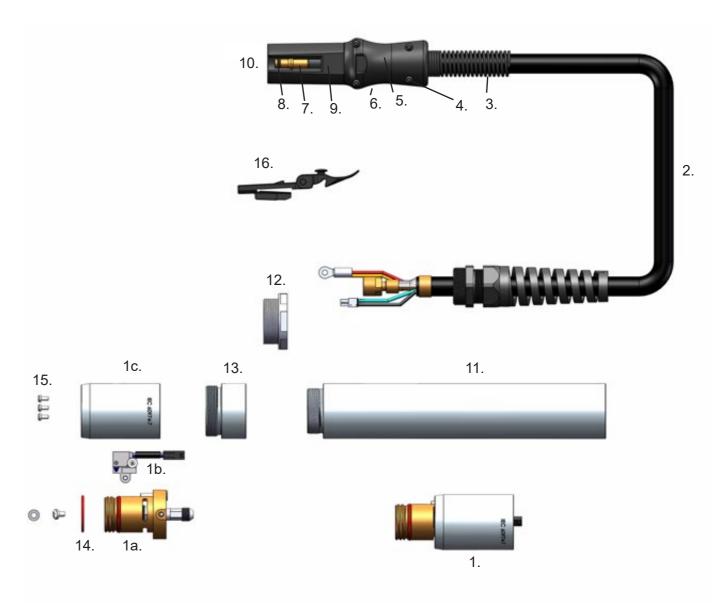


ltem	Part No.	Description	Pcs
NS	EX-6-233-001	DEMO FHT-EX®125TTM Machine Torch Assembly/TCS13	1
NS	EX-6-234-001	DEMO FHT-EX®125TTSM Short Machine Torch Assembly/TCS13	1
1.	EX-6-272-001	FHT-EX®125TTSM Short Machine Torch Assembly-w/o consumables w/5m (16.5') Lead/TCS13	1
1.	EX-6-272-002	FHT-EX®125TTSM Short Machine Torch Assembly-w/o consumables w/8m (26.2') Lead/TCS13	1
1.	EX-6-272-003	FHT-EX®125TTSM Short Machine Torch Assembly-w/o consumables w/15m (49.2') Lead/TCS13	1
1.	EX-6-272-004	FHT-EX®125TTSM Short Machine Torch Assembly-w/o consumables w/23m (75.5') Lead/TCS13	1
2.	EX-6-270-001	FHT-EX®125TTM Machine Torch Assy w/o consumables w/5m (16.5')Lead/TCS13	1
2.	EX-6-270-002	FHT-EX®125TTM Machine Torch Assy w/o consumables w/8m (26.2') Lead/TCS13	1
2.	EX-6-270-003	FHT-EX®125TTM Machine Torch Assy w/o consumables w/15m (49.2') Lead/TCS13	1
2.	EX-6-270-004	FHT-EX®125TTM Machine Torch Assy w/o consumables w/23m (75.5') Lead/TCS13	1
<b>a</b> 3.	EX-0-321-003	Latch with Key Assembly	1

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### **MACHINE TORCH COMPONENTS**



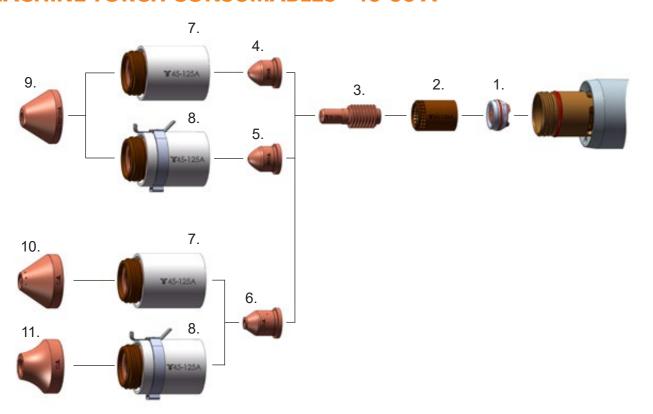
ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-6-303-001	FHT-EX125TTM/TTSM Machine Torch Body Replacement Kit	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-6-303-002	FHT-EX®125TTM/TTSM Machine Torch Body Assembly	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-030	Cap Sensor Replacement Kit with Screws/Machine Torch	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
1c.	EX-6-306-001	Torch Mounting Sleeve (incl. 3 screws)	1	10.	EX-0-323-001	TCS13 Plug Body	1
2.	EX-6-375-001	FHT-EX®125TT Machine Torch Lead Replacement 5m (16.5')/TCS13	1	11.	EX-6-306-002	Mounting Tube ( dia 44.5mm, length 241mm)	1
2.	EX-6-375-002	FHT-EX®125TT Machine Torch Lead Replacement 8m (26.2')/TCS13	1	12.	EX-6-306-004	Strain Relief Thread Adaptor	1
2.	EX-6-375-003	FHT-EX®125TT Machine Torch Lead Replacement 15m (49.2')/TCS13	1	13.	EX-6-306-003	Reduction Nut	1
2.	EX-6-375-004	FHT-EX®125TT Machine Torch Lead Replacement 23m (75')/TCS13	1	14.	EX-6-431-001	O-Ring (fitted on the torch body)	1
3.	EX-5-318-001	TCS Plug Spring Strain Relief		15.	EX-5-372-005	Torch Mounting Screws Kit (incl. 3 screws)	1
4.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	<b>a</b> 16.	EX-0-321-003	Latch w/Key Assembly	1
5.	EX-0-325-002	TCS Clam Shell Upper	1				
6.	EX-0-325-001	TCS Clam Shell Lower	1				

a LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

### **CONSUMABLES**

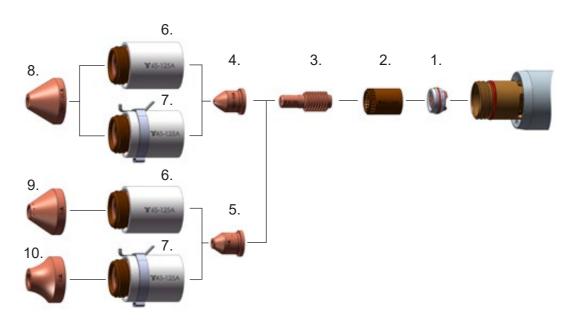
### **CONSUMABLES**

### **MACHINE TORCH CONSUMABLES - 45-65 A**



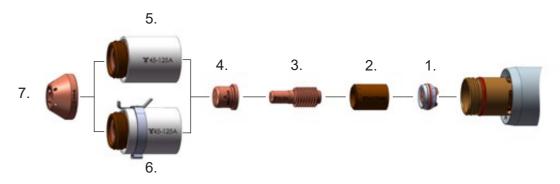
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-6-446-001	Swirl Ring Holder	1	7.	EX-6-415-021	Retaining Cap 45-125A	1
2.	EX-6-404-021	Swirl Ring 45-125A	1	8.	EX-6-415-022	Retaining Cap 45-125A, IHS Tab	1
3.	EX-6-401-021	Electrode 45-125A (5pcs package)	1	9.	EX-6-421-022	Shield 45-65A, Machine	1
4.	EX-6-409-024	Nozzle 45A	1	10.	EX-6-440-023	Gouging Shield, Standard	1
5.	EX-6-409-023	Nozzle 65A	1	11.	EX-6-440-024	Gouging Shield, High Removal	1
6	EX-6-440-020	Gouging Nozzle	1				

### **MACHINE TORCH CONSUMABLES - 85-125 A**



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-6-446-001	Swirl Ring Holder	1	6.	EX-6-415-021	Retaining Cap 45-125 A	1
2.	EX-6-404-021	Swirl Ring 45-125 A	1	7.	EX-6-415-022	Retaining Cap 45-125 A, IHS Tab	1
3.	EX-6-401-021	Electrode 45-125 A (5 pcs package)	1	8.	EX-6-421-021	Shield 85-125 A, Machine	1
4.	EX-6-409-021	Nozzle 85-125 A	1	9.	EX-6-440-023	Gouging Shield, Standard	1
5.	EX-6-440-020	Gouging Nozzle	1	10.	EX-6-440-024	Gouging Shield, High Removal	1

### **MACHINE TORCH CONSUMABLES - SMOOTHLINE**



ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-6-446-001	Swirl Ring Holder	1	5.	EX-6-415-021	Retaining Cap 45-125 A	1
2.	EX-6-440-021	Swirl Ring SmoothLine	1	6.	EX-6-415-022	Retaining Cap 45-125 A, IHS Tab	1
3.	EX-6-401-021	Electrode 45-125 A (5 pcs package)	1	7.	EX-6-414-022	SmoothLine Shield	1
4.	EX-6-414-021	SmoothLine Nozzle	1				

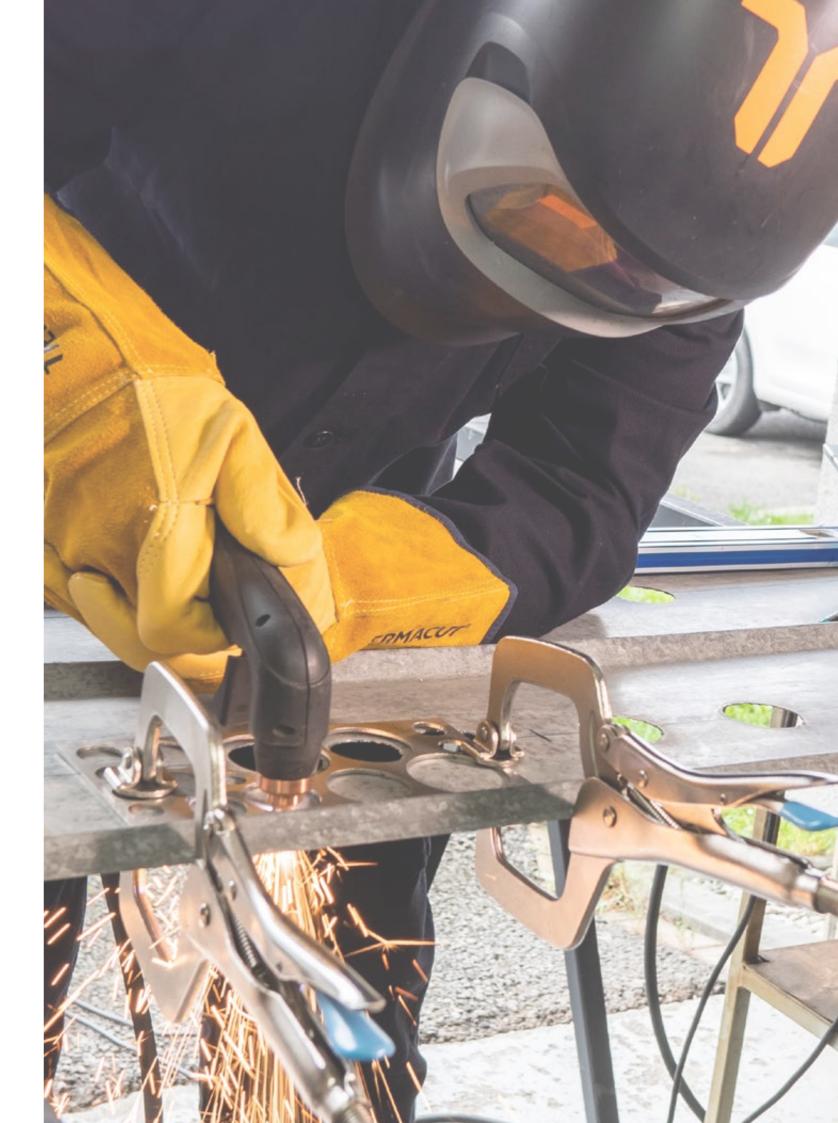
Last update of this page: 18/07/2023. See Revision history for details. For product availability, please check with your local THERMACUT® dealer.



### **EX-TRAFIRE® SD LINE OVERVIEW**

etures / System	EX-TRAFIRE®30H	EX-TRAFI	RE*45SD	EX-TRAFIRE®55SD	EX-TRAFIRE*75SD	EX-TRAFIRE®100SD
Cutting current [I2]	10 - 30 A	20-45 A (20-25 A)	20-45 A	30 - 55 A	30 - 75 A	30 - 100 A
Input voltage [I2]	CE 220-240 VAC ± 15 %	1x230 VAC ± 15 % (1x120 VAC)	3x400 VAC ± 15 %	CE 3x400 VAC ± 15 %	CE 3 x 400 VAC ± 15 %	3 x 400 VAC ± 15 %
Duty cycle	35 % @ 30 A-92 V 60 % @ 25 A-90 V 100 % @ 21 A-88,4 V	50 % @ 45 A,100 % @ 32 A (230 VAC) 40 % @ 25 A,100 % @ 16 A (120 VAC)	80 % @ 45 A, 100 % @ 40 A	50 % @55 A-170 V 60 % @50 A-170 V 100 % @41 A-170 V	100%@75A-170 V	50 % @100 A-170 V 60 % @91 A-170 V 10 0% @80 A-170 V
l1max	22 A	36,7 A	16,2 A	14,9 A	21,6 A	29,6 A
I1eff	13 A	23,2 A	14,4 A	10,5 A	21,6 A	20,7 A
Weight [kg]	10,5	12	2,7	11,8	24	24
Width [mm]	165	17	77	177	265	265
Depth [mm]	480	40	67	467	560	560
Height [mm]	290	22	28	229	400	400
Industry (IOT) 4.0				Not applicable		
Handheld Application	Yes	Y Y	es	Yes	Yes	Yes
Mechanised Application	Not applicable	Option	nal, Yes	Optional, Yes	Optional, Yes	Optional, Yes
Gouging	Not recommended	Poss	sible	No	Yes	Yes
Grid Cutting	Yes	Y	es	Yes	Yes	Yes
Torch	FHT-EX®30H	FHT-E)	(®45TT		FHT-EX*105RTX	
Information's	48 l/min @ 4,5 bar dynamic	90 l/min @ 4,	5 bar dynamic	105 A / 100 A approx. 135 l/min	ı, 85 A / 75 A approx. 110 l/min, 65 A / 55 A approx. 98 l/min, 45	A approx. 87 l/min
Recommended Cut	(*) 8 mm	(*) 12 mm	(*) 12 mm	(*) 20 mm	(*) 25 mm	(*) 35 mm
Maximum	(*) 10 mm	(*) 25 mm	(*) 25 mm	(*) 30 mm	(*) 35 mm	(*) 50 mm
Piercing	(*) 8 mm	(*) 10 mm	(*) 10 mm	(*) 20 mm	(*) 20 mm	(*) 20 mm
Recommended Cut	(**) 4 mm	(**) 12 mm	(**) 12 mm	(**) 15 mm	(**) 18 mm	(**) 20 mm
Maximum	(**) 8 mm	(**) 20 mm	(**) 20 mm	(**) 25 mm	(**) 25 mm	(**) 38 mm
Piercing	(**) 4 mm	(**) 10 mm	(**) 10 mm	(**) 16 mm	(**) 20 mm	(**) 20 mm
Recommended Cut	(***) 6 mm	(***) 12 mm	(***) 12 mm	(***) 15 mm	(***) 18 mm	(***) 20 mm
Maximum	(***) 10 mm	(***) 20 mm	(***) 20 mm	(***) 25 mm	(***) 25 mm	(***) 35 mm
Piercing	(***) 6 mm	(***) 10 mm	(***) 10 mm	(***) 16 mm	(***) 20 mm	(***) 20 mm
Gas type Cor						
	ommended Air quality: ISO 8573-1 C	lass 1.2.2.				
Gas quality	max. particle size: 0.1 microns, class 1	ref. to ISO 8573,				
	max. oil: 0.1 mg/m³, class 2 ref.: ISO 8					
	max. dew point: +3° C, class 4 ref. to I	SO 8573				
Nitrogen Puri	ty ≥ 99,99% an, moisture-free, without oil					
		oyed steel handheld cutting starting from the edge (u	p to))			
		neld cutting starting from the edge (up to)	- 111117 - 2 x 2			

## EX-TRAFIRE30H PORTABLE AND POWERFUL **PLASMA CUTTING SYSTEM**



Last update of this page: 09/06/2021. See Revision history for details.

# **EX-TRAFIRE**<sup>®</sup>30H



### **SIMPLE OPERATION**



- + Easily accessible filter regulator
- + Engineered for professionals and metal

### **EX-TRA PERFORMANCE**



- + Cutting
- + Precise cuts
- + Easy operation

### HIGHEST APPLICATION FLEXIBILITY



- Plate thicknesses up to 10 mm +
- + Lightweight, exceptionally portable
- + Fixed torch with flexible torch package

#### **BEST COST-EFFECTIVENESS**



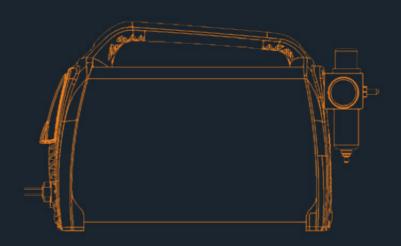
- + Very low investment
- + Lower running costs

#### Last update of this page: 09/06/2021. See Revision history for details.

EMAIL: SALES@THERMACUT.CZ

PLASMA CUTTING SYSTEM BY THERMACUT®

# EX-TRAFIRE®30H



#### **SPECIFICATIONS**

**OUTPUT CURRENT [A] 10-30 INPUT VOLTAGE [VAC]** 220-240 V ± 15 % PLASMA GAS COMPRESSED AIR **CERTIFICATION** CE, C-TICK, CCC **MODES** CUTTING FREQUENCY [Hz] 50/60 MAXIMUM INPUT POWER [kVA] 4.9 OUTPUT VOLTAGE [VDC] 92
DUTY CYCLE @ 40 °C 35 % @ 30 A, 100 % @ 21 A **DIMENSION (L \times H \times W) [mm]** 480 $\times$ 290 $\times$ 165 **WEIGHT [kg]** 10.5 RECOMMENDED CUTTING CAPACITY [mm] 8
SEVERANCE CUTTING CAPACITY [mm] 10
PIERCING CAPACITY [mm] 8
AIR FLOW @ [lpm/bar] 48 @ 4.5
MAXIMUM INPUT PRESSURE [bar/psi] 10/145 PROTECTION LEVEL IP23S INSULATION CLASS H/F **CNC INTERFACE NO** INDUSTRY 4.0 NO **TYPE OF HAND TORCH FHT-EX®30H** 

#### MILD STEEL CUTTING CAPACITY IN MILLIMETRES



#### **COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES**





# EX-TRAFIRE®30H

# EX-TRAFIRE®30H

# **ORDERING INFORMATION**

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®30H/CE/1x220-240 VAC Hand System/FHT-EX30H-FC 4m/H Starter Kit	4 m	EX-1-010-005

# **AVAILABLE BULK PACKS**

Description	Pcs	Part No.
Bulk Pack - Electrode - 25 pcs	1	EX-2-434-014
Bulk Pack - Nozzle 30 A 0.8 mm - 25 pcs	1	EX-2-435-015
Bulk Pack - Hand (Contact) Shield 30 A - 18 pcs	1 1	EX-2-436-016
Bulk Pack - Machine Shield 30 A - 18 pcs	1	EX-2-437-017

#### **ACCESSORIES**

Description	STD Package QTY	Part No.
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 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	T-12453
Circle cutting guide kit for FHT-EX®30/40H	1	EX-2-801-001



**FRONT VIEW** 

**BACK VIEW** 



**SIDE VIEW** 

# FHT-EX®30H

# FHT-EX®30H





The extra-lightweight FHT-EX®30H handheld torch with a flexible cable is suitable for a wide range of applications and ideal for mobile use. This torch is optimally designed for use with EX-TRAFIRE® 30H power supplies. It is permanently connected to the power supply and provides precise cutting results on plate thicknesses of up to 10 mm and more.

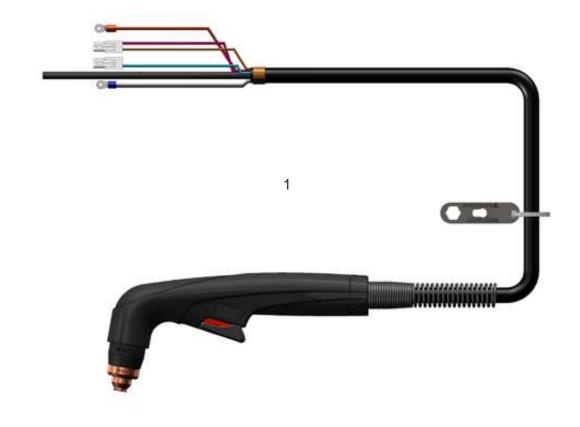
This particularly cost-effective entry-level torch is the result of decades of experience in the field of plasma cutting. It features a robust and durable design in which all consumables can be replaced quickly and easily.



### **BENEFITS**

- An ergonomically shaped handheld torch that reduces fatigue
- Compact and particularly flexible for handheld applications, even if difficult to reach
- A long lifetime thanks to a 100 % duty cycle at 21 A
- Ideal for plate thicknesses of up to 10 mm and more with high power reserves
- Consumables with an extended lifetime
- Optimal heat dissipation thanks to a screw-on electrode
- Piercing max. 8 mm
- Specially designed for use with the EX-TRAFIRE® 30H power supply

# **HAND TORCH ASSEMBLY**



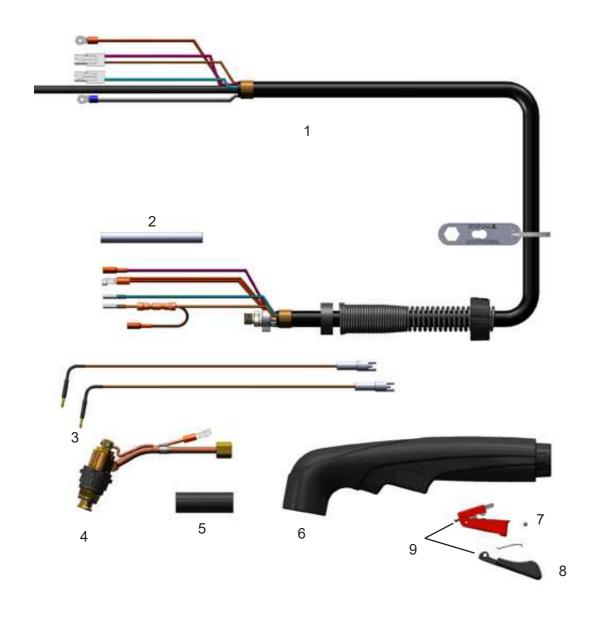
ltem	Part No.	Description	Pcs.
1.	EX-1-134-001	FHT-EX®30H Hand Torch Assembly with 4m Lead/FC	1

Last update of this page: 09/06/2021. See Revision history for details.

# FHT-EX®30H

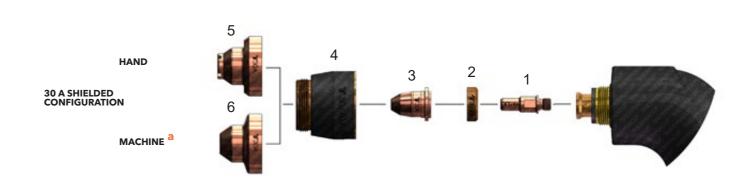
# **CONSUMABLES**

# **HAND TORCH COMPONENTS**



ltem	Part No.	Description	Pcs.	ltem	Part No.	Description	Pcs.
1.	EX-1-373-001	Hand Torch Lead Replacement Kit 4m Lead/FC	1	6.	EX-2-314-015	Hand Torch Handle Replacement Kit	1
2.	EX-0-319-021	Insulating Teflon Tube	1	7.	EX-5-309-013	Trigger	1
3.	EX-2-304-020	Hand Torch PIP Pins Replacement Kit (with Wires)	1	8.	EX-5-310-014	Trigger Guard	1
4.	EX-2-302-009	Hand Torch Body FHT-EX®30H	1	9.	EX-5-313-018	Safety Trigger Replacement Kit	1
5.	EX-0-319-011	Shrink Tube	1	NS	EX-2-431-014	O-Ring (fitted on the torch body)	2

# **HAND TORCH CONSUMABLES**



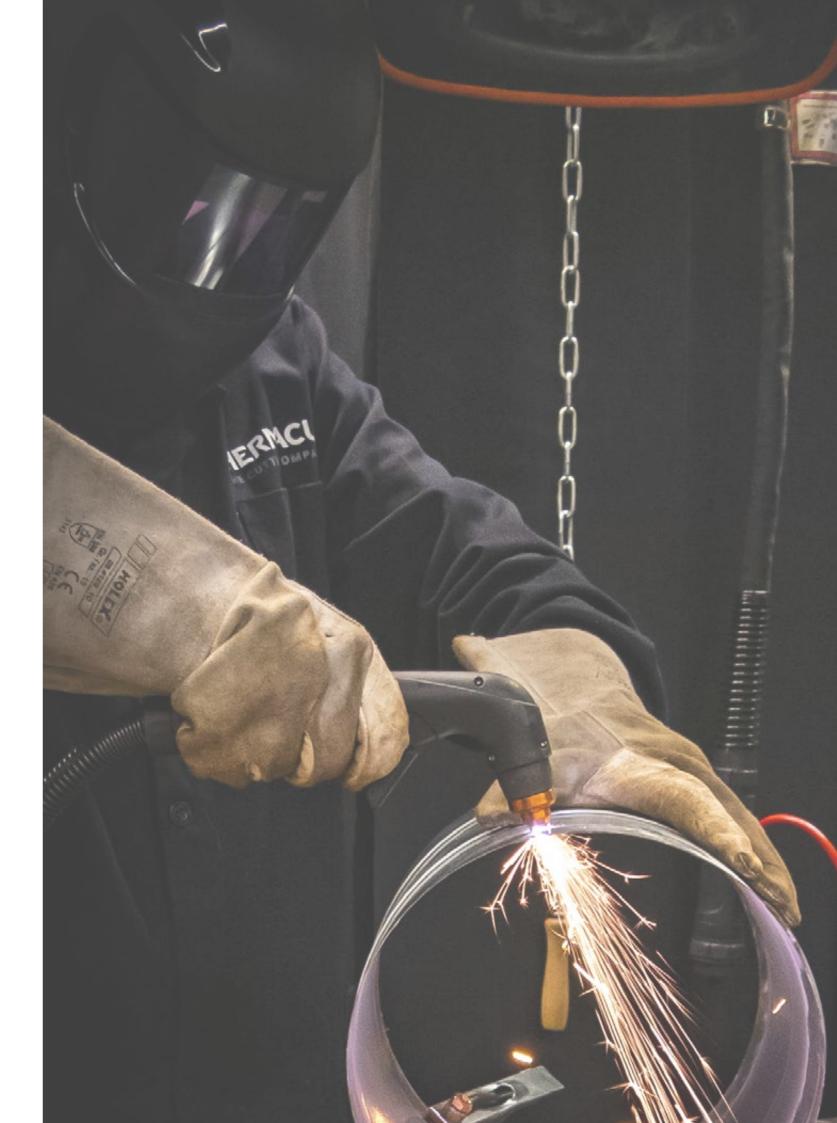
Item I	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1. [	EX-2-401-001	Electrode	5	<b>a</b> 6.	EX-2-421-006	Machine Shield 30 A	1
2. [	EX-2-404-002	Swirl Ring	2	NS	EX-2-434-014	Bulk Pack - Electrode - 25 pcs	1
3. F	EX-2-409-003	Nozzle 30 A, 0.8 mm	5	NS	EX-2-435-015	Bulk Pack - Nozzle 30 A, 0.8 mm - 25 pcs	1
4. [	EX-2-415-004	Nozzle Retaining Cap (Protection Cap)	1	NS	EX-2-437-017	Bulk Pack - Machine Shield 30 A - 18 pcs	1
5. [	EX-2-419-005	Hand Shield 30 A	1				

NOT SHOWN IN THE PICTURE

FOR USE WITH CIRCLE CUTTING GUIDE OR FOR BEVEL CUTTING

Last update of this page: 24/01/2022. See Revision history for details.

# EX-TRAFIRE40SD LIGHTWEIGHT AND POWERFUL PLASMA CUTTING SYSTEM.



# **EX-TRAFIRE**<sup>®</sup>40SD

# Sale discontinued



#### SIMPLE OPERATION



- + Plug & cu
- Engineered for hobbyis

#### **EX-TRA PERFORMANCE**



- + Precise cut
- + Easy operation

#### HIGHEST APPLICATION FLEXIBILITY



- + Plate thicknesses up to 15 mm
- Lightweight, exceptionally portable

#### BEST COST-EFFECTIVENESS



- + Very low investmen
- + Lower running costs

Last update of this page: 18/07/2023. See Revision history for details.

# EX-TRAFIRE®40SD

#### ORDERING INFORMATION

MANUAL PLASMA CUTTING SYSTEMS	
MECHANIZED PLASMA CUTTING SYSTEMS	
PLASMA POWER SUPPLY UNITS	

<sup>\*</sup> Fully-equipped=CNC interface & Serial interfaceport (CAN bus

### **AVAILABLE BULK PACKS**

Description	Pcs	Part No.
Bulk Pack - Electrode - 25 pcs	111	EX-2-434-014
Bulk Pack - Nozzle 30 A - 25 pcs	1	EX-2-435-015
Bulk Pack - Hand (contact) Shield 30 A - 18 pcs	-1	EX-2-436-016
Bulk Pack - Machine Shield 30 A - 18 pcs	1	EX-2-437-017
Bulk Pack - Nozzle 40 A - 25 pcs	1	EX-2-435-001
Bulk Pack - Hand (contact) Shield 40 A - 18 pcs	1	EX-2-436-001
Bulk Pack - Machine Shield 40 A - 18 pcs	1	EX-2-437-001

#### **ACCESSORIES**

Description	Pcs	Part No.	
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 25 ml	1	EX-0-805-001	
Filter-EX Compressed Air Filter	1	T-12452	
Filter-EX Air Filter Cartridge	8	T-12453	
Circle cutting guide kit for EHT-EX®30/40H	1	FX-2-801-001	

Last update of this page: 18/07/2023. See Revision history for details.

EMAIL: INFO@THERMACUT.CZ

# FHT-EX®40H

# FHT-EX®40H





The lightweight FHT-EX®40H hand and machine torches with flexible cables are suitable for a wide range of applications and ideal for mobile use. These torches are optimally designed for use with EX-TRAFIRE®40SD power sources and are suitable for cutting and grid-cutting. They provide precise cutting results on plate thicknesses of up to 15 mm and more.





#### **BENEFITS**



- Compact and particularly flexible for handheld applications, even if difficult to reach
- Long lifetime thanks to a 100 % duty cycle at 25 Å ldeal for plate thicknesses of up to 15 mm and more with high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing max. 10 mm
- Specially designed for use with the EX-TRAFIRE®40SD power supply



# **HAND TORCH ASSEMBLY**



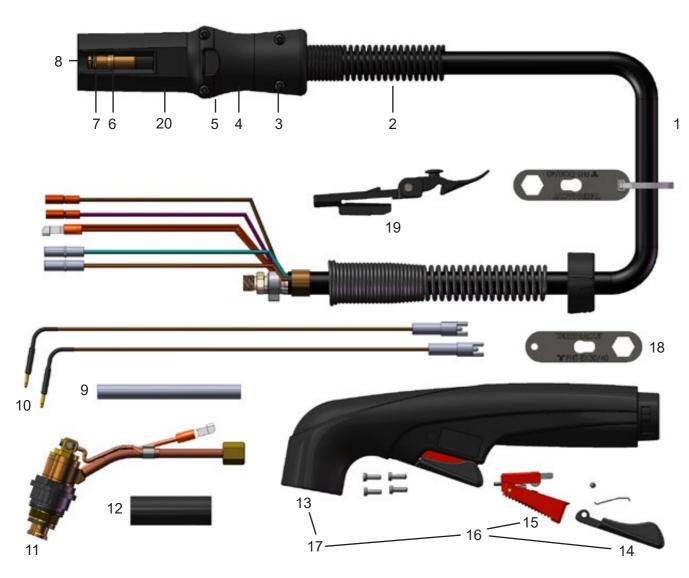
ltem	Part No.	Description	Pcs
1.	EX-2-133-000	DEMO FHT-EX®40H Hand Torch Assembly/TCS13	1
	EX-2-130-001	FHT-EX®40H Hand Torch Assembly w/o consumables/4m Lead/TCS13	1
	EX-2-101-003	FHT-EX®40H Hand Torch Assembly w/o consumables/5m Lead/TCS13	1
	EX-2-131-005	FHT-EX®40H Hand Torch Assembly w/o consumables/7.5m Lead/TCS13	1
	EX-2-106-007	FHT-EX®40H Hand Torch Assembly w/o consumables/15m Lead/TCS13	1
<b>a</b> 2.	EX-0-321-003	Latch with Key Assembly	1

LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

Last update of this page: 09/06/2021. See Revision history for details.

# FHT-EX®40H

# **HAND TORCH COMPONENTS**



ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
<b>OD</b> 1.	EX-2-328-001	Hand Torch Lead Replacement Kit 4m Lead/TCS13	1	10.	EX-2-304-020	Hand Torch PIP Pins Replacement Kit (with Wires)	1
OD	EX-2-331-002	Hand Torch Lead Replacement Kit 5m Lead/TCS13	1	11.	EX-2-302-009	Hand Torch Body FHT-EX®40H	1
OD	EX-2-329-003	Hand Torch Lead Replacement Kit 7.5m Lead/TCS13	1	12.	EX-0-319-011	Shrink Tube	1
OD	EX-2-336-004	Hand Torch Lead Replacement Kit 15m Lead/TCS13	1	13.	EX-2-308-012	Hand Torch Handle Kit	1
2.	EX-5-318-001	TCS Plug Spring Strain Relief	1	14.	EX-5-310-014	Trigger Guard	1
3.	EX-0-325-015	TCS Clam Shell Screw	1	15.	EX-5-309-013	Trigger	1
4.	EX-0-325-002	TCS Clam Shell Upper	1	16.	EX-5-313-018	Safety Trigger Replacement Kit	1
5.	EX-0-325-001	TCS Clam Shell Lower	1	17.	EX-2-314-015	Hand Torch Handle Replacement Kit	1
6.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	18.	EX-2-427-010	Electrode Wrench FHT-EX®30/40	1
7.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	<b>a</b> 19.	EX-0-321-003	Latch with Key Assembly	1
8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1	20.	EX-0-323-001	TCS13 Plug Body	1
9.	EX-0-319-021	Insulating Teflon Tube	1	NS	EX-2-431-014	O-Ring (fitted on the torch body)	2

ON DEMAND - WE DO NOT KEEP THESE PARTS IN STOCK, COST IS SET ACCORDING TO THE ORDERED QUANTITY, DELIVERY TIME MAY DIFFER FROM STANDARD PRODUCT

LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

#### Last update of this page: 24/01/2022. See Revision history for details.

# **MACHINE TORCH ASSEMBLY**



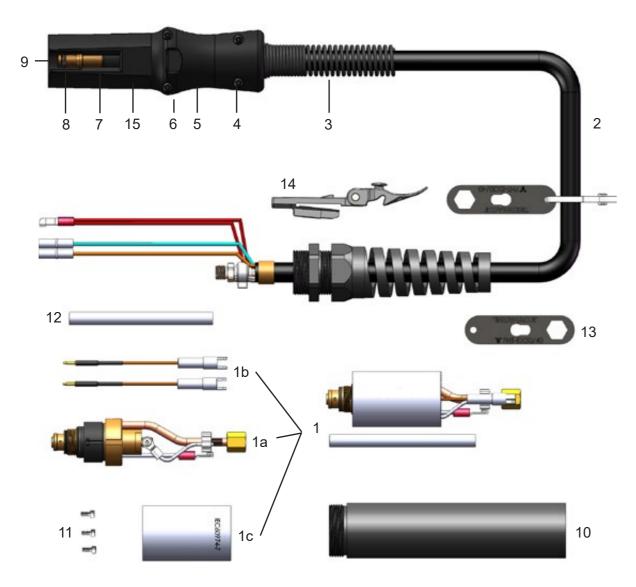
ltem	Part No.	Description	Pcs
1.	EX-2-233-000	DEMO FHT-EX®40M Machine Torch Assembly/TCS13	1
	EX-2-235-001	FHT-EX®40M Machine Torch Assembly w/o consumables/4m Lead/TCS13	1
	EX-2-202-003	FHT-EX®40M Machine Torch Assembly w/o consumables/5m Lead/TCS13	1
	EX-2-236-005	FHT-EX®40M Machine Torch Assembly w/o consumables/7.5m Lead/TCS13	1
	EX-2-207-007	FHT-EX®40M Machine Torch Assembly w/o consumables/15m Lead/TCS13	1
<b>a</b> 2.	EX-0-321-003	Latch with Key Assembly	1

LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

# FHT-EX®40M

# **CONSUMABLES**

# **MACHINE TORCH COMPONENTS**



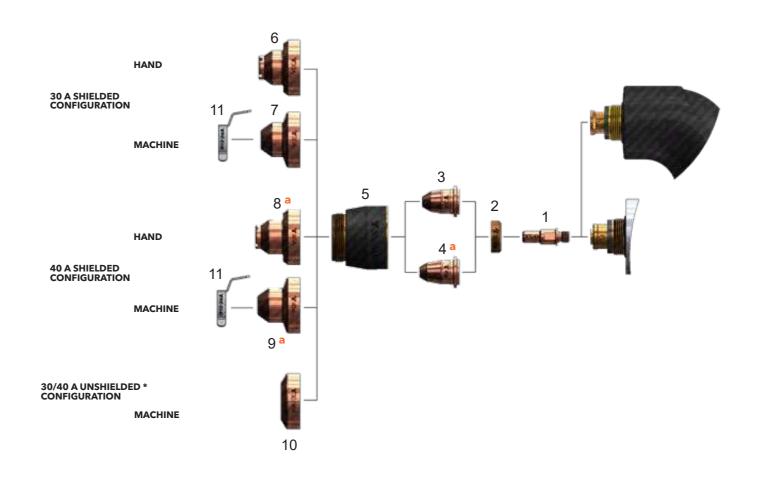
ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-2-301-010	Machine Torch Body Assembly FHT-EX®40M	1	6.	EX-0-325-001	TCS Clam Shell Lower	1
1a.	EX-2-301-011	Machine Torch Body FHT-EX®40M	1	7.	EX-0-325-010	Retaining Ring (Outer Circlip Ring)	1
1b.	EX-2-304-021	Machine Torch PIP Pins Replacement Kit (with Wires)	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1c.	EX-2-306-022	Torch Mounting Sleeve (incl. screws)	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
<b>OD</b> 2.	EX-2-326-005	Machine Torch Lead Replacement Kit 4m Lead/TCS13	1	10.	EX-2-306-023	Torch Positioning Sleeve	1
OD	EX-2-352-006	Machine Torch Lead Replacement Kit 5m Lead/TCS13	1	11.	EX-0-372-001	Torch Mounting Screw	1
OD	EX-2-327-007	Machine Torch Lead Replacement Kit 7.5m Lead/TCS13	1	12.	EX-0-319-021	Insulating Teflon Tube	1
	EX-2-357-008	Machine Torch Lead Replacement Kit 15m Lead/TCS13	1	13.	EX-2-427-010	Electrode Wrench FHT-EX®40	1
3.	EX-5-318-001	TCS Plug Spring Strain Relief	1	<b>a</b> 14.	EX-0-321-003	Latch with Key Assembly	1
4.	EX-0-325-015	TCS Clam Shell Screw	1	15.	EX-0-323-001	TCS13 Plug Body	1
5.	EX-0-325-002	TCS Clam Shell Upper	1	NS	EX-2-431-014	O-Ring (fitted on the torch body)	2

ON DEMAND - WE DO NOT KEEP THESE PARTS IN STOCK, COST IS SET ACCORDING TO THE ORDERED QUANTITY, DELIVERY TIME MAY DIFFER FROM STANDARD PRODUCT

LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

#### Last update of this page: 24/01/2022. See Revision history for details.

# **HAND / MACHINE TORCH CONSUMABLES**



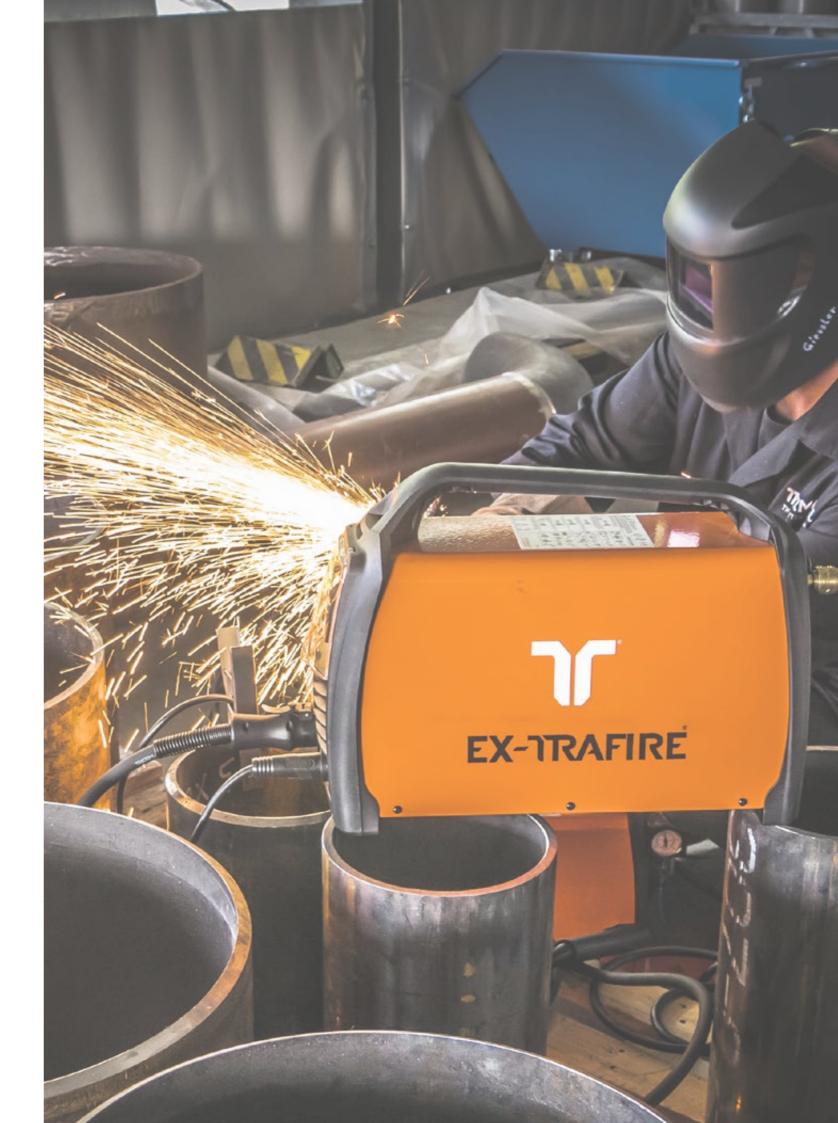
ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-2-401-001	Electrode	5	<b>a</b> 9.	EX-2-421-001	Machine Shield 40 A	1
2.	EX-2-404-002	Swirl Ring	2	10.	EX-2-423-107	Deflector	1
3.	EX-2-409-003	Nozzle 30 A 0.8 mm	5	NS	EX-2-434-014	Bulk Pack - Electrode - 25 pcs	1
<b>a</b> 4.	EX-2-409-001	Nozzle 40 A 0.9 mm	5	NS	EX-2-435-015	Bulk Pack - Nozzle 30 A 0.8 mm - 25 pcs	1
5.	EX-2-415-004	Nozzle Retaining Cap (Protection Cap)	1	a NS	EX-2-435-001	Bulk Pack - Nozzle 40 A 0.9 mm - 25 pcs	1
6.	EX-2-419-005	Hand Shield 30 A	1	NS	EX-2-437-017	Bulk Pack - Machine Shield 30 A - 18 pcs	1
7.	EX-2-421-006	Machine Shield 30 A	1	a NS	EX-2-437-001	Bulk Pack - Machine Shield 40 A - 18 pcs	1
<b>a</b> 8.	EX-2-419-001	Hand Shield 40 A	1	11.	EX-2-428-011	IHS Ohmic Clip	1

NOT SHOWN IN THE PICTURE

IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.

ONLY FOR EX-TRAFIRE®40SD

# EX-TRAFIRE 455D PROFESSIONAL AND VERSATILE PLASMA CUTTING SYSTEM.



# **EX-TRAFIRE**<sup>®</sup>45SD



# **SIMPLE OPERATION**



- Bright LCD system information and control
- + Easily accessible, protected filter regulator
- Engineered for professionals and demanding beginners

# **EX-TRA PERFORMANCE**



- Cutting, gouging, grid mode
- Exact cuts
- Industry leading blue LCD display

# HIGHEST APPLICATION FLEXIBILITY



- + Plate thicknesses up to 25 mm +
- Lightweight, exceptionally portable
- + TCS quick change flexible torch packages
- + Suitable for generator use

### **BEST COST-EFFECTIVENESS**



- + Significantly lower investment
- + High consumable lifetime
- Lower running costs

# Last update of this page: 09/06/2021. See Revision history for details.

# EX-TRAFIRE®45SD

#### **SPECIFICATIONS**

	SINGLE P	HASE	THREE PHASE
Input voltage [VAC]	1x120 V +-15 %	1x230 V +-15 %	3x400 V +-15 %
Output current [A]	20-25	20-45	20-45
Plasma gas		Compressed air	
Certification CE, C-TICK, CCC	CE	CE/C-TICK	CE/C-TICK
Modes		CUTTING / GOUGING / GRID C	UTTING
Frequency [Hz]		50/60	
Maximum input power [kVA]	4,4	7,59	6,48
Output voltage [VDC]		145	
Duty cycle @ 40 °C	40 % @ 25 A / 100 % @16 A	50 % @ 45 A / 10 0% @ 32 A	80 % @ 45 A / 100 % 40 A
Dimension (I × h × w) mm		469 x 228 x 177	
Weight [kg]		12,7	
Recommended cutting capacity [mm]	8		12
Severance cutting capacity [mm]	12		25
Piercing capacity [mm]	10		10
Air flow @ [lpm/bar]		90 @ 4.8	
Maximum input pressure [bar/psi]		10/145	
Protection level		IP23S	
Insulation class		F	
CNC interface		YES	
Industry 4.0		NO	
Type of hand torch		FHT-EX®45TTH	
Type of machine torch		FHT-EX®45TTM	

# MILD STEEL CUTTING CAPACITY IN MILLIMETRES



# EX-TRAFIRE®45SD

# **ORDERING INFORMATION**

PRIZERING IN CRIMATION		
Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®45SD/CE/3x400 V Hand System/FHT-EX®45TTH 5m/H Starter Kit	5 m	EX-2-010-011
EX-TRAFIRE®45SD/CE/3x400 V Hand System/FHT-EX®45TTH 8m/H Starter Kit	8 m	EX-2-010-012
EX-TRAFIRE®45SD/CE/3x400 V Hand System/FHT-EX45®TTH 15m/H Starter Kit	15 m	EX-2-010-013
EX-TRAFIRE®45SD/CE/1x110/230 V Hand System/FHT-EX45®TTH 5m/H Starter Kit	5 m	EX-2-010-020
EX-TRAFIRE®45SD/CE/1x110/230 V Hand System/FHT-EX45®TTH 8m/H Starter Kit	8 m	EX-2-010-021
EX-TRAFIRE®45SD/CE/1x110/230 V Hand System/FHT-EX45®TTH 15m/H Starter Kit	15 m	EX-2-010-022
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®45SD/CE/3x400 V Machine System/FHT-EX45®TTM 5m/M Starter Kit	5 m	EX-2-011-008
EX-TRAFIRE®45SD/CE/3x400 V Machine System/FHT-EX45®TTM 8m/M Starter Kit	8 m	EX-2-011-009
EX-TRAFIRE®45SD/CE/3x400 V Machine System/FHT-EX45®TTM 15m/M Starter Kit	15 m	EX-2-011-010
EX-TRAFIRE®45SD/CE/1x110/230 V Machine System/FHT-EX45®TTM 5m/M Starter Kit	5 m	EX-2-011-014
EX-TRAFIRE®45SD/CE/1x110/230 V Machine System/FHT-EX45®TTM 8m/M Starter Kit	8 m	EX-2-011-015
EX-TRAFIRE®45SD/CE/1x110/230 V Machine System/FHT-EX45®TTM 15m/M Starter Kit	15 m	EX-2-011-016
PLASMA POWER SUPPLY UNITS		
EX-TRAFIRE®45SD/CE/3x400 V power supply unit (fully-equipped*)		EX-2-001-030
EX-TRAFIRE®45SD/CE/1x110/230 V power supply unit (fully-equipped*)		EX-2-001-024

<sup>\*</sup> Fully-equipped=CNC interface & Serial interfaceport (CAN bus)

# **AVAILABLE BULK PACKS**

Description	Pcs	Part No.
Bulk Pack-Electrode - 25 pcs	1	EX-2-434-201
Bulk Pack-Nozzle - 25 pcs	1	EX-2-435-201
Bulk Pack - Hand (Contact) Shield - 18 pcs	1	EX-2-436-201
Bulk Pack - Machine Shield - 18 pcs	1	EX-2-437-201

# **ACCESSORIES**

Description	Pcs	Part No.
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 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	EX-0-804-002

# EX-TRAFIRE®45SD



**FRONT VIEW** 

**BACK VIEW** 



**SIDE VIEW** 

# FHT-EX®45TT









The high-performant FHT-EX®45TT H/M hand and machine torches are ideal for meeting tough demands in continuous operation. These torches are optimally designed for use with EX-TRAFIRE®45SD power supplies and are suitable for cutting, gouging and gridcutting. They can cut plate thickness of up to 25 mm and more precisely and quickly.





#### **BENEFITS**





- Compact and flexible for handheld applications, even in the case of tight radii or gouging of fillet welds
- 100 % duty cycle at 45 A, ideal for continuous use
- Ideal for plate thicknesses of up to 25+ mm and more with high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing max. 10 mm
- Perfectly designed for use with EX-TRAFIRE®45SD power supplies











# **HAND TORCH ASSEMBLY**



ltem	Part No.	Description	Pcs
1.	EX-2-133-001	FHT-EX45®TTH DEMO Hand Torch Assembly w/consumables/TCS13	1
	EX-2-101-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-103-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-106-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/15m Lead/TCS13	1
<b>a</b> 2.	EX-0-321-003	Latch with Key Assembly	1

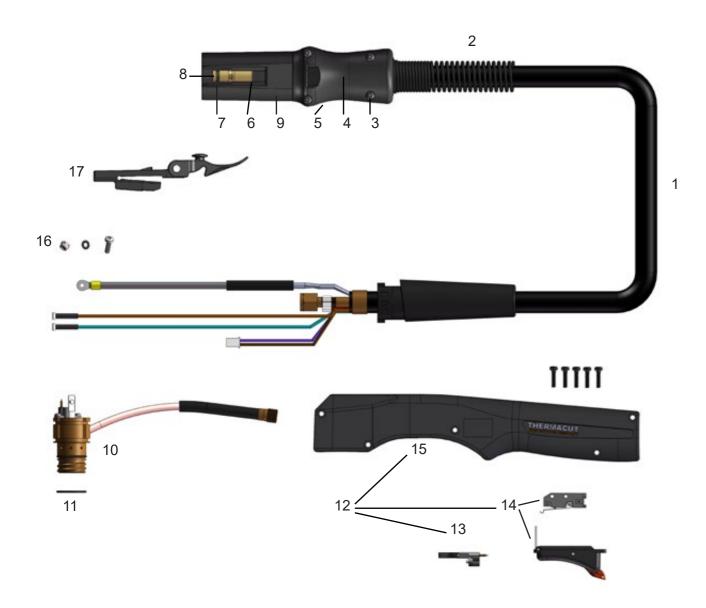
a LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

Last update of this page: 09/06/2021. See Revision history for details.

# FHT-EX®45TTM

# FHT-EX®45TTH

# **HAND TORCH COMPONENTS**



							_
ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-2-331-001	FHT-EX®45TTH Hand Torch Lead Replacement Kit 5m Lead/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-2-333-001	FHT-EX®45TTH Hand Torch Lead Replacement Kit 8m Lead/TCS13	1	10.	EX-2-302-001	Hand Torch Body FHT-EX®45TTH	1
1.	EX-2-336-001	FHT-EX®45TTH Hand Torch Lead Replacement Kit 15m Lead/TCS13	1	11.	EX-5-431-050	O-Ring (fitted on the torch body)	2
2.	EX-5-318-001	TCS Plug Spring Stain Relief	1	12.	EX-2-314-001	FHT-EX®45TTH Hand Torch Handle Replacement Kit	1
3.	EX-0-325-015	TCS Clam Shell Screw	1	13.	EX-2-305-001	Cap-sensor Replacement Kit with Screws/ Hand Torch	1
4.	EX-0-325-002	TCS Clam Shell Upper	1	14.	EX-2-313-001	Safety Trigger with start switch	1
5.	EX-0-325-001	TCS Clam Shell Lower	1	15.	EX-2-308-001	Hand Torch Handle with Screws	1
6.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	16.	EX-5-372-010	Cathode mounting kit	1
7.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	a 17.	EX-0-321-003	Latch w/Key Assembly	1
8	FX-0-325-005	Male Crimp Pin for TCS Plug	1				

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#### Last update of this page: 09/06/2021. See Revision history for details.

# **MACHINE TORCH ASSEMBLY**



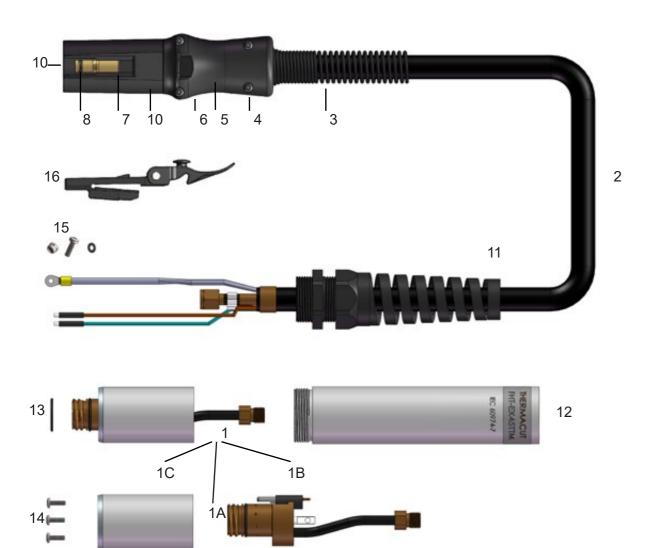
Item	Part No.	Description	Pcs
1.	EX-2-233-001	FHT-EX®45TTM DEMO Machine Torch Assembly w/consumables/TCS13	1
	EX-2-202-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-204-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-207-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/15m Lead/TCS13	1
<b>a</b> 2.	EX-0-321-003	Latch with Key Assembly	1

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# FHT-EX®45TTM

# **CONSUMABLES**

# **MACHINE TORCH COMPONENTS**

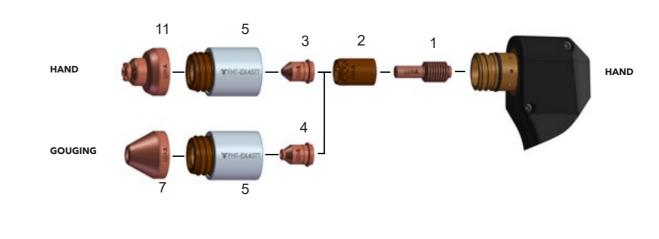


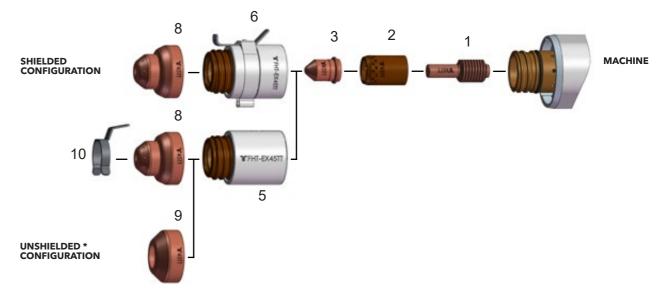
Item	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-2-301-001	Machine Torch Body Assembly FHT-EX®45TTM	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-2-301-002	Machine Torch Body FHT-EX®45TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-001	Cap Sensor Replacement Kit with Screws / Machine Torch	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
1c.	EX-5-306-002	Torch Mounting Sleeve (incl. 3 screws)	1	10.	EX-0-323-001	TCS13 Plug Body	1
2.	EX-2-352-001	FHT-EX* $45$ TTM Machine Torch Lead Replacement Kit 5m Lead/TCS13	1	11.	EX-5-317-021	Machine Torch Strain Relief	1
	EX-2-354-001	FHT-EX®45TTM Machine Torch Lead Replacement 8m Lead/TCS13	1	12.	EX-2-306-001	FHT-EX®45TTM Standard Mounting Tube w/o Rack	1
	EX-2-357-001	FHT-EX®45TTM Machine Torch Lead Replacement 15m Lead/TCS13	1	13.	EX-5-431-050	O-Ring (fitted on the torch body)	2
3.	EX-5-318-001	TCS Plug Spring Strain Relief	1	14.	EX-5-372-005	Torch Mounting Screws Kit (incl. 3 screws)	1
4.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	15.	EX-5-372-010	Cathode Mounting Kit	1
5.	EX-0-325-002	TCS Clam Shell Upper	1	a 16.	EX-0-321-003	Latch w/Key Assembly	1
6.	EX-0-325-001	TCS Clam Shell Lower	1				

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#### Last update of this page: 09/06/2021. See Revision history for details.

# **HAND / MACHINE TORCH CONSUMABLES**





ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-2-401-201	Electrode	5	7.	EX-2-419-202	Gouging Shield	1
2.	EX-2-404-201	Swirl ring	1	8.	EX-2-421-201	Machine Shield	1
3.	EX-2-409-201	Nozzle	5	9	EX-2-423-211	Deflector	1
4.	EX-2-409-202	Gouging nozzle	5	10.	EX-2-428-011	IHS Ohmic Clip	1
5.	EX-2-415-201	Retaining Cap	1	11.	EX-2-419-201	Hand (contact) Shield	1
6.	EX-2-415-202	Retaining Cap w/IHS Tab	1				

IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.

# EX-TRAFIRE555D BEST IN CLASS PLASMA CUTTING SYSTEM.



# EX-TRAFIRE<sup>®</sup> 55SD



### **SIMPLE OPERATION**



Intuitive control

**EX-TRA PERFORMANCE** 

Exact cuts

- Protected filter regulator
- Engineered for professional applications



- Plate thicknesses up to 30 mm +
- Lightweight, exceptionally portable
- TCS quick change flexible torch packages
- Suitable for generator use

### **BEST COST-EFFECTIVENESS**





- + Low investment for high performance
- + Enhanced consumable lifetime
- Reduced costs of ownership

# **SPECIFICATIONS**

**OUTPUT CURRENT [A]** 30-55 **INPUT VOLTAGE [VAC]** CE 3 x 400 VAC ± 15 %

PLASMA GAS COMPRESSED AIR

**CERTIFICATION** CE, C-TICK, CCC **MODES** CUTTING / GRID CUTTING

FREQUENCY [Hz] 50/60

**MAXIMUM INPUT POWER [kVA]** 13.7 kVA @  $3 \times 400$  VAC

**OUTPUT VOLTAGE [VDC]** 170 V @ 3 × 400 VAC

**DUTY CYCLE @ 40 °C** 50 % @ 55 A, 100 % @ 41 A / 60 % @ 55 A, 100 % @ 42 A

DUTY CYCLE @ 40 °C 50 % @ 55 A, 100 % @ 41 A /
DIMENSION (L × H × W) mm 469 × 228×177
WEIGHT [kg] 11.8
RECOMMENDED CUTTING CAPACITY [mm] 20
SEVERANCE CUTTING CAPACITY [mm] 30
PIERCING CAPACITY [mm] 20
AIR FLOW @ [lpm/bar] 100 @ 5,2
MAXIMUM INPUT PRESSURE [bar/psi] 7/101
PROTECTION LEVEL IP23S
INSULATION CLASS H/F

**INSULATION CLASS H/F** 

**CNC INTERFACE OPTIONAL** 

**INDUSTRY 4.0** NO

TYPE OF TORCH FHT-EX®105RTX H/M

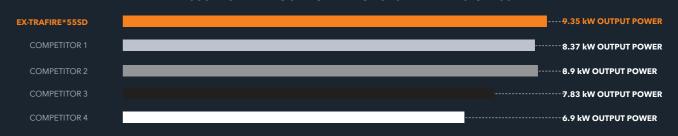
EX-TRAFIRE®55SD

#### MILD STEEL CUTTING CAPACITY IN MILLIMETRES



#### **COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES**

#### EX-TRAFIRE®55SD IS THE MOST POWERFUL SYSTEM IN IT'S CLASS.



Last update of this page: 09/06/2021. See Revision history for details. Last update of this page: 09/06/2021. See Revision history for details.

# EX-TRAFIRE®55SD

# EX-TRAFIRE®55SD

# **ORDERING INFORMATION**

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®55SD/CE/3x400V Hand System/FHT-EX®105RTXH Torch 8m/H Starter Kit	8 m	EX-3-010-034
EX-TRAFIRE®55SD/CE/3x400V Hand System/FHT-EX®105RTXH Torch 15m/H Starter Kit	15 m	EX-3-010-035
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®55SD/CE/3x400V M System/FHT-EX®105RTXM-NR Torch 8m/M Starter Kit	8 m	EX-3-011-030
EX-TRAFIRE®55SD/CE/3x400V M System/FHT-EX®105RTXM-NR Torch 15m/M Starter Kit	15 m	EX-3-011-031
PLASMA POWER SUPPLY UNITS		
EX-TRAFIRE®55SD/CE/3x400V power supply unit (fully-equipped*)		EX-3-001-001

<sup>\*</sup> Fully-equipped=CNC interface & Serial interfaceport (CAN bus)

### **AVAILABLE BULK PACKS**

Description	Pcs	Part No.
Bulk Pack BP25 - Electrode 45-105 A (including 5pcs of the swirl ring holder)	1	EX-5-434-001
Bulk Pack BP25 - Nozzle 55/65 A	1	EX-5-435-001
Bulk Pack BP18 - Shield 45-85 A, Machine	1	EX-5-437-001

# **AVAILABLE CONSUMABLE KITS**

Description	Pcs	Part No.
Hand Torch Consumables Kit 55/65 A	1	EX-3-443-001
Machine Torch Consumable Kit 55/65 A	1	EX-3-444-001

# **ACCESSORIES**

Description	Pcs	Part No.
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 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	T-12453



**FRONT VIEW** 







**SIDE VIEW** 

# EX-TRAFIRE 755D

ENGINEERED FOR ENDURANCE PLASMA CUTTING SYSTEM.



# EX-TRAFIRE® 75SD



# **SIMPLE OPERATION**



- Easy to read, blue LED display
- + Protected filter regulator, easy to adjust
- + Engineered for professionals

# **EX-TRA PERFORMANCE**



- Cutting, gouging, grid mode
- Engineered especially for mechanised applications
- + 100 % duty cycle

# HIGHEST APPLICATION FLEXIBILITY



- Plate thicknesses up to 35 mm +
- Powerful and lightweight
- TCS quick change flexible torch packages
- Suitable for generator use

# **BEST COST-EFFECTIVENESS**



- + Reduced capital outlay
- Enhanced consumable lifetime
- Reduced costs of ownership

Last update of this page: 09/06/2021. See Revision history for details.

#### **SPECIFICATIONS**

**OUTPUT CURRENT [A]** 30-75 **INPUT VOLTAGE [VAC]** 3×400 VAC ± 15 % PLASMA GAS COMPRESSED AIR **CERTIFICATION** CE, C-TICK, CCC **MODES** CUTTING / GOUGING / GRID CUTTING FREQUENCY [Hz] 50/60 MAXIMUM INPUT POWER [kVA] 17.6 kVA @ 3X400 VAC OUTPUT VOLTAGE [VDC] 170 V (EXTRA-BOOST 220 V) **DUTY CYCLE @ 40 °C** 100% @ 75 A DUTY CYCLE @ 40 °C 100% @ 75 A

DIMENSION (L × H × W) mm 560x400x265

WEIGHT [kg] 24

RECOMMENDED CUTTING CAPACITY [mm] 25

SEVERANCE CUTTING CAPACITY [mm] 35

PIERCING CAPACITY [mm] 20

AIR FLOW @ [ipm/bar] 110 @ 5.2

MAXIMUM INPUT PRESSURE [bar/psi] 10/145

PROTECTION LEVEL IP23S

INSULATION CLASS H/E **INSULATION CLASS H/F CNC INTERFACE OPTIONAL INDUSTRY 4.0** NO

EX-TRAFIRE®75SD

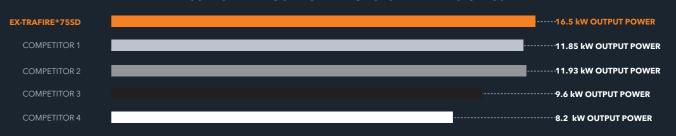
#### MILD STEEL CUTTING CAPACITY IN MILLIMETRES

TYPE OF TORCH FHT-EX®105RTX H/M



#### **COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES**





# EX-TRAFIRE®75SD

# EX-TRAFIRE®75SD

# **ORDERING INFORMATION**

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®75SD/CE/3x400 V Hand System/FHT-EX®105RTXH Torch 8m/H Starter Kit	8 m	EX-4-010-041
EX-TRAFIRE®75SD/CE/3x400 V Hand System/FHT-EX®105RTXH Torch 15m/H Starter Kit	15 m	EX-4-010-042
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®75SD/CE/3x400 V M System/FHT-EX®105RTXM-NR Torch 8m/M Starter Kit	8 m	EX-4-011-030
EX-TRAFIRE®75SD/CE/3x400 V M System/FHT-EX®105RTXM-NR Torch 15m/M Starter Kit	15 m	EX-4-011-031
PLASMA POWER SUPPLY UNITS		
EX-TRAFIRE®75SD/CE/3x400 V power supply unit (fully-equipped*)		EX-4-001-004

<sup>\*</sup> Fully-equipped=CNC interface & Serial interfaceport (CAN bus)

# **AVAILABLE BULK PACKS**

Description	Pcs	Part No.
Bulk Pack BP25 - Electrode 45-105 A (including 5pcs of the swirl ring holder)	1	EX-5-434-001
Bulk Pack BP25 - Nozzle 55/65 A	1	EX-5-435-001
Bulk Pack BP25 - Nozzle 75/85 A	1	EX-5-435-002
Bulk Pack BP18 - Shield 45-85A, Machine	1	EX-5-437-001

# **AVAILABLE CONSUMABLE KITS**

Description	Pcs	Part No.
Hand Torch Consumables Kit 55/65 A	1	EX-3-443-001
Machine Torch Consumable Kit 55/65 A	1	EX-3-444-001
Hand Torch Consumables Kit 75/85 A	1	EX-5-435-002
Machine Torch Consumable Kit 75/85 A	1	EX-4-444-001

# **ACCESSORIES**

Description	Pcs	Part No.
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 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	T-12453



**FRONT VIEW** 



**BACK VIEW** 



**SIDE VIEW** 

# EX-TRAFIRE 100SD **BUILT FOR POWER** PLASMA CUTTING SYSTEM.



# **EX-TRAFIRE**<sup>®</sup> 100SD



#### **SIMPLE OPERATION**



- Intuitive control
- Exceptionally robust
- Engineered for demanding professionals

#### **EX-TRA PERFORMANCE**



- · High cutting speed
- Precise cuts
- Industry leading duty cycle

# HIGHEST APPLICATION FLEXIBILITY



- Plate thicknesses up to 50 mm +
- Powerful and lightweight
- TCS quick change flexible torch packages
- Suitable for generator use

#### **BEST COST-EFFECTIVENESS**



- + Reduced capital outlay
- + Longer consumable lifetime
- · Considerably reduced costs of ownership

#### Last update of this page: 09/06/2021. See Revision history for details.

#### **SPECIFICATIONS**

**OUTPUT CURRENT [A]** 30-100 **INPUT VOLTAGE [VAC]** 3x400 VAC ± 15 % PLASMA GAS COMPRESSED AIR **CERTIFICATION** CE, C-TICK, CCC **MODES** CUTTING / GOUGING / GRID CUTTING FREQUENCY [Hz] 50/60 MAXIMUM INPUT POWER [kVA] 24.6 **OUTPUT VOLTAGE [VDC]** 170 (EXTRA-BOOST 220 V) **DUTY CYCLE @ 40 °C** 50 % @ 100 A, 100 % @ 80 A DIMENSION (L × H × W) [mm] 560×400×265
WEIGHT [kg] 24
RECOMMENDED CULTING CAPACITY I RECOMMENDED CUTTING CAPACITY [mm] 35
SEVERANCE CUTTING CAPACITY [mm] 50
PIERCING CAPACITY [mm] 20
AIR FLOW @ [lpm/bar] 135 @ 5.2
MAXIMUM INPUT PRESSURE [bar/psi] 10/145
PROTECTION LEVEL IP23S **INSULATION CLASS H/F CNC INTERFACE OPTIONAL INDUSTRY 4.0** NO

TYPE OF TORCH FHT-EX®105RTX H/M

# EX-TRAFIRE® 100SD



#### MILD STEEL CUTTING CAPACITY IN MILLIMETRES



#### **COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES**





# EX-TRAFIRE®100SD

# **ORDERING INFORMATION**

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®100SD/CE/3x400 V Hand System/FHT-EX®105RTXH Torch 8m/H Starter Kit	8 m	EX-5-010-033
EX-TRAFIRE®100SD/CE/3x400 V Hand System/FHT-EX®105RTXH Torch 15m/H Starter Kit	15 m	EX-5-010-034
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®100SD/CE/3x400 V M System/FHT-EX®105RTXM-NR Torch 8m/M Starter Kit	8 m	EX-5-011-030
EX-TRAFIRE®100SD/CE/3x400 V M System/FHT-EX®105RTXM-NR Torch 15m/M Starter Kit	15 m	EX-5-011-031
PLASMA POWER SUPPLY UNITS		
EX-TRAFIRE®100SD/CE/3x400 V power supply unit (fully-equipped*)		EX-5-001-003

<sup>\*</sup> Fully-equipped=CNC interface & Serial interfaceport (CAN bus)

# **AVAILABLE BULK PACKS**

Description	Pcs	Part No.
Bulk Pack BP25 - Electrode 45-105 A (including 5pcs of the swirl ring holder)	1	EX-5-434-001
Bulk Pack BP25 - Nozzle 55/65 A	1	EX-5-435-001
Bulk Pack BP25 - Nozzle 75/85 A	1	EX-5-435-002
Bulk Pack BP25 - Nozzle 100/105 A	1	EX-5-435-003
Bulk Pack BP18 - Shield 45-85A, Machine	1	EX-5-437-001
Bulk Pack BP18 - Shield 100/105 A, Machine	1	EX-5-437-002

# **AVAILABLE CONSUMABLE KITS**

Description	Pcs	Part No.
Hand Torch Consumables Kit 55/65 A	1	EX-3-443-001
Hand Torch Consumables Kit 75/85 A	1	EX-4-443-001
Hand Torch Consumables Kit 100/105 A	1	EX-5-443-001
Machine Torch Consumable Kit 55/65 A	1	EX-3-444-001
Machine Torch Consumable Kit 75/85 A	1	EX-4-444-001
Machine Torch Consumable Kit 100/105 A	1	EX-5-444-001

# **ACCESSORIES**

Description	Pcs	Part No.
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 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	T-12453

#### Last update of this page: 25/01/2023. See Revision history for details.

# EX-TRAFIRE®100SD



**FRONT VIEW** 



**BACK VIEW** 



**SIDE VIEW** 

# FHT-EX®105RTX HAND/MACHINE TORCHES

# **AND CONSUMABLES**

**SUITABLE FOR EX-TRAFIRE® 55SD/75SD/100SD** 









# FHT-EX®105RTXH

# FHT-EX®105RTXH

















The extremely high-performant FHT-EX®105RTXH hand torch is ideal for meeting tough demands in continuous industrial operation. This torch is optimally designed for use with EX-TRAFIRE®55SD, 75SD and 100SD power supplies and are suitable for cutting, gouging and grid-cutting. Depending on the power supply used, they can cut plate thickness of up to 50 mm and more precisely and quickly.

Thanks to the THERMACUT® Torch Connection System (TCS), changing the torch is a quick and easy process. These particularly powerful torches are the result of decades of experience in the field of plasma cutting. They feature an extremely robust and durable design in which all consumables can be replaced quickly and easily.

#### **BENEFITS**

- Extremely high-performance torches for handheld use
- Ergonomic handheld torches for safe and reliable holding and guiding in all positions Compact and particularly flexible for handheld applications, even in the case of tight radii 100 % duty cycle at 100/105 A, ideal for continuous industrial use Ideal for plate thicknesses of up to 50 mm and more with high power reserves

Last update of this page: 09/06/2021. See Revision history for details.

- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing max. 20 mm
- Perfectly designed for use with EX-TRAFIRE®55SD, 75SD and 100SD power supplies

# HAND TORCH ASSEMBLY AND TORCH COMPONENTS



ltem	Part No.	Description	Pcs
1.	EX-5-140-002	FHT-EX®105RTXH Hand Torch w/o consumables w/8m Lead/TCS13	1
	EX-5-140-003	FHT-EX®105RTXH Hand Torch w/o consumables w/15m Lead/TCS13	1
<b>a</b> 2.	EX-0-321-003	Latch w/Key Assembly	1

LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.



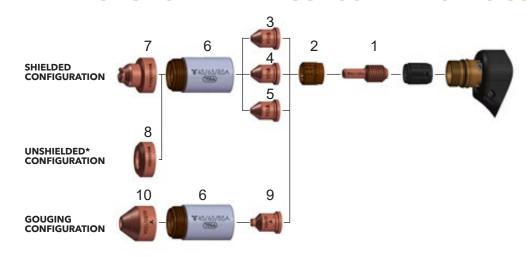
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-005	FHT-EX®105RTXH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-030	Hand Torch Body Replacement Kit	1
1.	EX-5-374-006 FHT-EX®105RTXH Hand Torch Lead Replacement 15m (50')/TCS13		1	11.	EX-5-431-050	Torch Body O-Ring	2
2.	EX-5-318-001	TCS Plug Spring Stain Relief	1	12.	EX-5-314-030	Hand Torch Handle Replacement Kit	1
3.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	12a.	EX-5-308-030	Hand Torch Handle with Screws	1
4.	EX-0-325-002	TCS Clam Shell Upper	1	12b.	EX-5-313-030	Safety Trigger Micro-Switch	1
5.	EX-0-325-001	TCS Clam Shell Lower	1	12c.	EX-5-313-031	Safety Trigger	1
6.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	13.	EX-5-305-001	Cap Sensor Microswitch Assembly/Hand Torch	1
7.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	14.	EX-5-372-030	Pilot Cable Screw	1
8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1	a 15.	EX-0-321-003	Latch w/Key Assembly	1
9.	EX-0-323-001	TCS13 Plug Body	1				

LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

# **CONSUMABLES**

# **CONSUMABLES**

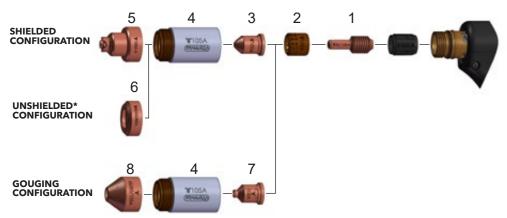
# **HAND TORCH STANDARD CONSUMABLES - 45-85 A**



ltem	Part No.	Description		ltem	Part No.	Description	
1.	EX-5-402-030	Electrode 45-105 A (5pcs package) **	1x5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-419-030	Shield 45-85 A, Hand	1
3.	EX-5-410-036	Nozzle 45 A (5 pcs package) **	1x5	8.	EX-5-423-031	Deflector 45-105 A	1
4.	EX-5-410-037	Nozzle 55/65 A (5 pcs package) **	1x5	9.	EX-5-440-031	Nozzle 45-85 A, Gouging (5 pcs package) **	1x5
5.	EX-5-410-038	Nozzle 75/85 A (5 pcs package) **	1x5	10.	EX-5-440-030	Shield 45-105 A, Gouging	1

- IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.
- THIS PART IS AVAILABLE IN 5 PCS SET ONLY

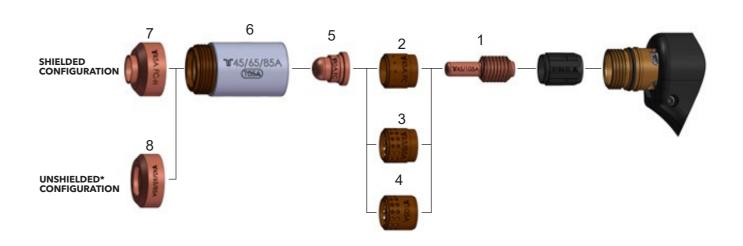
# **HAND TORCH STANDARD CONSUMABLES - 105 A**



ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1x5	5.	EX-5-420-030	Shield 100/105 A, Hand	1
2.	EX-5-404-032	Swirl Ring 100/105 A	1	6.	EX-5-423-031	Deflector 45-105 A	1
3.	EX-5-410-039	Nozzle 100/105 A (5 pcs package) **	1x5	7.	EX-5-440-032	Nozzle 100/105 A, Gouging (5 pcs package) **	1x5
4.	EX-5-415-032	Retaining Cap 100/105 A	1	8.	EX-5-440-030	Shield 45-105 A, Gouging	1

- IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.
- THIS PART IS AVAILABLE IN 5 PCS SET ONLY

# **HAND TORCH CONSUMABLES - SMOOTHLINE**



ltem	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1x5	5.	EX-5-410-035	Nozzle 45 A / Smoothline (5 pcs package) **	1x5
2.	EX-5-404-030	Swirl Ring 45-105 A / Smoothline	1	6.	EX-5-415-030	Retaining Cap 45-85 A	1
3.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-423-030	Deflector 45 A / Smoothline	1
4.	EX-5-404-032	Swirl Ring 100/105 A	1	8.	EX-5-423-031	Deflector 45-105 A	

- IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.
- THIS PART IS AVAILABLE IN 5 PCS SET ONLY

FHT-EX®105RTXM

# FHT-EX®105RTXM



















The extremely high-performant FHT-EX®105RTXM machine torches are ideal for meeting tough demands in continuous industrial operation. These torches are optimally designed for use with EX-TRAFIRE®55SD, 75SD and 100SD power supplies and are suitable for cutting, gouging and grid-cutting. Depending on the power supply used, they can cut plate thickness of up to 50 mm and more precisely and quickly.

Thanks to the Thermacut® Torch Connection System (TCS), changing the torch is a quick and easy process. These particularly powerful torches are the result of decades of experience in the field of plasma cutting. They feature an extremely robust and durable design in which all consumables can be replaced quickly and easily.

# **BENEFITS**

- Extremely high-performance torches for mechanised applications
- 100 % duty cycle at 100/105 A, ideal for continuous industrial use
- Ideal for plate thicknesses of up to 50 mm and more with high power reserves

Last update of this page: 09/06/2021. See Revision history for details.

- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing max. 20 mm
- Perfectly designed for use with EX-TRAFIRE®55SD, 75SD and 100SD power supplies

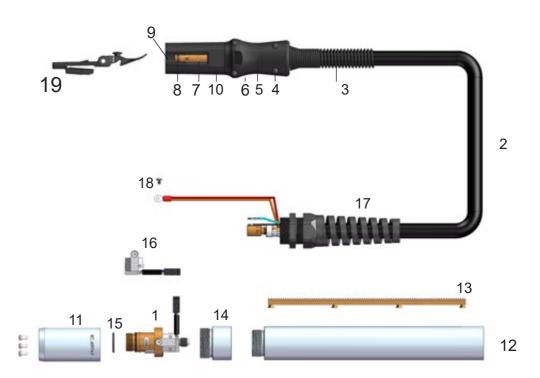
# MACHINE TORCH ASSEMBLY AND TORCH COMPONENTS





Item	Part No.	Description
1.	EX-5-240-001	FHT-EX®105RTXM Machine Torch w/o Rack Assy-w/o consumables w/8m Lead/ TCS13
	EX-5-240-005	FHT-EX®105RTXM Machine Torch w/o Rack Assy-w/o consumables w/15m Lead/ TCS13
2.	EX-5-240-007	FHT-EX®105RTXSM Short (ROBO) Machine Torch Assy-w/o consumables w/8m Lead/TCS13
	EX-5-240-008	FHT-EX®105RTXSM Short (ROBO) Machine Torch Assy-w/o consumables w/15m Lead/TCS13
<b>a</b> 3.	EX-0-321-003	Latch w/Key Assembly

LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.



ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-5-303-030	Machine Torch Body Replacement Kit	1	10.	EX-0-323-001	TCS13 Plug Body	1
2	EX-5-375-001	FHT-EX®105RTXM Machine Torch Lead Replacement 8m (26')/TCS13	1	11.	EX-5-306-030	Torch Mounting Sleeve (incl. 3 screws)	1
۷.	LX 3 37 3 00 1		'	12.	EX-5-306-032	Standard Mounting Tube w/o Rack	1
2	EX-5-375-002	FHT-EX®105RTXM Machine Torch Lead Replacement 15m (50')/TCS13	1	13.	EX-5-306-033	Gear Rack	1
۷.				14.	EX-5-306-031	Standard Mounting Tube Reduction Nut	1
3.	EX-5-318-001	TCS Plug Spring Strain Relief	1	15.	EX-5-431-050	Torch Body O-Ring	1
4.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	16.	EX-5-304-030	Cap Sensor Replacement Kit with Screws / Machine Torch	1
5.	EX-0-325-002	TCS Clam Shell Upper	1	17.	EX-5-317-021	Machine Torch Strain Relief	1
6.	EX-0-325-001	TCS Clam Shell Lower	1	18.	EX-5-372-030	Pilot Cable Screw	1
7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	19.	EX-0-321-003	Latch w/Key Assembly	1
8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	<b>a</b> 19.	EX-0-321-003	Clé pour le changement d'électrodes	1

LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

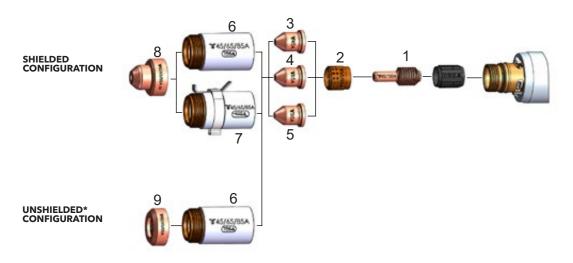
Last update of this page: 21/42022. See Revision history for details.

EMAIL: INFO@THERMACUT.CZ

# **CONSUMABLES**

# **CONSUMABLES**

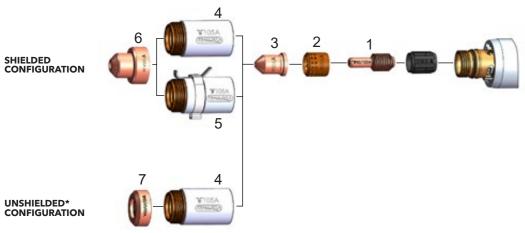
# **MACHINE TORCH STANDARD CONSUMABLES - 45-85 A**



ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1x5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-415-031	Retaining Cap 45-85 A, IHS Tab	1
3.	EX-5-410-036	Nozzle 45 A	5	8.	EX-5-421-031	Shield 45-85 A, Machine	1
4.	EX-5-410-037	Nozzle 55/65 A (5 pcs package) **	1x5	9.	EX-5-423-031	Deflector 45-105 A	1
5.	EX-5-410-038	Nozzle 75/85 A (5 pcs package) **	1x5				

- IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.
- THIS PART IS AVAILABLE IN 5 PCS SET ONLY

# **MACHINE TORCH STANDARD CONSUMABLES - 100/105 A**

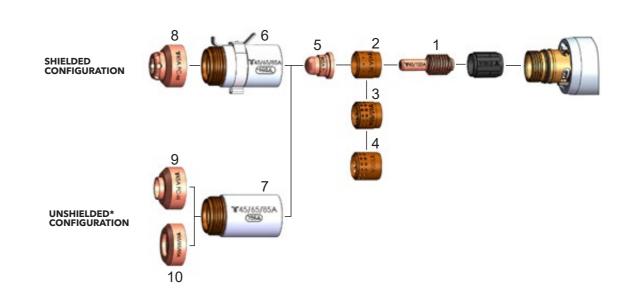


ltem	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1x5	5.	EX-5-415-033	Retaining Cap 100/105 A, IHS Tab	1
2.	EX-5-404-032	Swirl Ring 100/105 A	1	6.	EX-5-422-030	Shield 100/105 A, Machine	1
3.	EX-5-410-039	Nozzle 100/105 A (5 pcs package) **	1x5	7.	EX-5-423-031	Deflector 45-105 A	1
4	FX-5-415-032	Retaining Cap 100/105 A	1				

- IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.
- THIS PART IS AVAILABLE IN 5 PCS SET ONLY

Last update of this page: 09/06/2021. See Revision history for details.

# **MACHINE TORCH CONSUMABLES - SMOOTHLINE**



ltem	Part No.	Description	Pcs	ltem	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1x5	6.	EX-5-415-031	Retaining Cap 45-85 A, IHS Tab	1
2.	EX-5-404-030	Swirl Ring 45-105 A / Smoothline	1	7.	EX-5-415-030	Retaining Cap 45-85 A	1
3.	EX-5-404-031	Swirl Ring 10-85 A	1	8.	EX-5-421-030	Shield 45 A, IHS, Smoothline	1
4.	EX-5-404-032	Swirl Ring 100/105 A	1	9.	EX-5-423-030	Deflector 45 A / Smoothline	1
5.	EX-5-410-035	Nozzle 45 A / Smoothline (5 pcs package) **	1x5	10.	EX-5-423-031	Deflector 45-105 A	1

- IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.
- THIS PART IS AVAILABLE IN 5 PCS SET ONLY

# **ACCESSORIES**



lt	tem	Part No.	Ref. No.	Description	Pcs	ltem	Part No.	Ref. No.	Description	Pcs
	1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1	6.	EX-5-801-002	EX-5-801-002	Circle cutting guide kit FHT-EX®105RTX/45TT	1
	2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8	7.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
	3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4"	1	8.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
	4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4"	1	9.	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
	5.	T-0994	EX-0-805-001	Silicone Lubricant 25 ml	1	10.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105T- TH/45TTH	1
	6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1				In/45IIn	

#### **REVISION HISTORY**

Section FHT-EX®105RTX - Revision on PAGES 79, 83 - 15/12/2021 - Change of the name FinalLine (FL) to Smooth Cut (SC).

Section EX-TRAFIRE® 45HD - FHT-EX® 45TTM - CONSUMABLES - Change on page 17 - 10/01/2022 - Added items for marking EX-2-445-001; EX-2-445-002

Section EX-TRAFIRE®30H - Revision on PAGE 30 - 24/01/2022 - Added symbol "OD" to the Item section EX-2-302-009

Section EX-TRAFIRE® 40SD - Revision on PAGE 40 - 24/01/2022 - Added symbol "OD" to the Item section EX-2-328-001, EX-2-331-002, EX-2-329-003, EX-2-336-004, EX-2-302-009; Revision on PAGE 42 - 24/01/2022 - Added symbol "OD" to the Item section EX-2-326-005, EX-2-352-006, EX-2-327-007.

Section EX-TRAFIRE®55SD - Revision on PAGE 59 - 31/01/2022 - line INPUT VOLTAGE - Removed value 3x220 VAC ± 15 % ; line MAXIMUM INPUT POWER - Removed value 11,9 kVA @ 3x220 VAC ; line OUTPUT VOLTAGE - Removed value 140 V @ 3x220 VAC; Revision on PAGE 60 - 31/01/2022 - Removed parts EX-3-010-036, EX-3-010-037, EX-3-011-032, EX-3-011-033, EX-3-001-005

Section EX-TRAFIRE® 75SD - Revision on PAGE 65 - 31/01/2022 - line INPUT VOLTAGE - Removed value 3x220 VAC ± 15 %; line MAXIMUM INPUT POWER - Removed value 14,71 kVA @ 3x220 VAC;

Revision on PAGE 66 - 31/01/2022 - Removed parts EX-4-010-043, EX-4-010-044, EX-4-011-032, EX-4-011-033, EX-4-001-005

Section EX-TRAFIRE®30H - Revision on PAGE 30 - 11/05/2022 - Removed symbol "OD" on the Item section EX-2-302-009

Section EX-TRAFIRE®40SD - Revision on PAGE 40 - 11/05/2022 - Removed symbol "OD" on the Item section EX-2-302-009

Section FHT-EX®105RTX - Revision on PAGE 81 - 11/05/2022 - Short ROBO torches added into table

Section ACCESORIES - Revision on PAGE 84 - 11/05/2022 - Bevel cutting guide added to the picture and table

Section EX-TRAFIRE® 45 HD - Revision on PAGE 10 - section MANUAL PLASMA CUTTING SYSTEMS - added items EX-2-010-047, EX-2-010-048, EX-2-010-050, EX-2-010-051, EX-2-010-052;

Section PLASMA CUTTING UNITS - removed items EX-2-002-001, EX-2-002-003

New product range added - EX-TRAFIRE®65HD - pages 18-23

New product range added - EX-TRAFIRE®85HD - pages 24-29

New product range added - EX-TRAFIRE®105HD - pages 30-33

Section ACCESSORIES - removed item EX-2-802-000

Section EX-TRAFIRE®55SD - on a page 90 - added parts - AVAILABLE BULK PACKS

Section EX-TRAFIRE®75SD - on a page 96 - added parts - AVAILABLE BULK PACKS

Section EX-TRAFIRE® 100SD - on a page 102 - added parts - AVAILABLE BULK PACKS

Section EX-TRAFIRE®65 HD - Revision on PAGE 21 - section SPECIFICATIONS - change of value PIERCING CAPACITY to 20

Section EX-TRAFIRE®85 HD - Revision on PAGE 27 - section SPECIFICATIONS - change of value PIERCING CAPACITY to 20

Section EX-TRAFIRE® 105 HD - Revision on PAGE 33 - section SPECIFICATIONS - change of value PIERCING CAPACITY to 20

Section EX-TRAFIRE® 40 SD - Revision on PAGE 66 - Sale discontinued - Removed Section "EX-TRAFIRE® 40 SD"

Section EX-TRAFIRE® 40 SD - Revision on PAGE 80,81 - Sale discontinued - Removed Section "ORDERING INFORMATION"

New product range added - EX-TRAFIRE®125HD - pages 48-63



Discover the other plasma cutting systems within the EX-TRAFIRE® family and our wide range of cutting solutions at www.ex-trafire.com.

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