



A GLOBAL PROVIDER OF ENHANCED THERMAL CUTTING SOLUTIONS

# EX-TRAFIRE<sup>®</sup>

## PLASMA CUTTING SYSTEMS CATALOG



25012023  
THERMACUT® - THE CUTTING COMPANY®

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Rev 1113\_EN

# 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**<sup>®</sup>

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

## EX-TRAFIRE<sup>®</sup> PLASMA SYSTEMS

### TABLE OF CONTENTS

#### EX-TRAFIRE<sup>®</sup> HD LINE

##### EX-TRAFIRE<sup>®</sup> 45HD

System SPECIFICATION 6-11  
FHT-EX<sup>®</sup>45TT PLASMA TORCH 12-17

##### EX-TRAFIRE<sup>®</sup> 65HD

System SPECIFICATION 18-23

##### EX-TRAFIRE<sup>®</sup> 85HD

System SPECIFICATION 24-29

##### EX-TRAFIRE<sup>®</sup> 105HD

System SPECIFICATION 30-35

##### FHT-EX<sup>®</sup> 105TT PLASMA TORCH

Hand Torch SPECIFICATION 38-42  
Machine Torch SPECIFICATION 43-47

#### EX-TRAFIRE<sup>®</sup> SD LINE

##### EX-TRAFIRE<sup>®</sup> SD

EX-TRAFIRE<sup>®</sup> SD LINE 50-51

##### EX-TRAFIRE<sup>®</sup> 30H

System SPECIFICATION 52-57  
FHT-EX<sup>®</sup>30H PLASMA TORCH 58-61

##### EX-TRAFIRE<sup>®</sup> 40SD

System SPECIFICATION 62-67  
FHT-EX<sup>®</sup>40H/M PLASMA TORCH 68-73

##### EX-TRAFIRE<sup>®</sup> 45SD

System SPECIFICATION 74-79  
FHT-EX<sup>®</sup>45TT H/M PLASMA TORCH 80-85

##### EX-TRAFIRE<sup>®</sup> 55SD

System SPECIFICATION 86-91

##### EX-TRAFIRE<sup>®</sup> 75SD

System SPECIFICATION 92-97

##### EX-TRAFIRE<sup>®</sup> 100SD

System SPECIFICATION 98-103

##### FHT-EX<sup>®</sup> 105RTX PLASMA TORCH

Hand Torch SPECIFICATION 106-109  
Machine Torch SPECIFICATION 110-113

#### ACCESSORIES

EX-TRAFIRE<sup>®</sup> ACCESSORIES 114

#### REVISION HISTORY

115

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The background of the advertisement shows an industrial environment. On the left, a blue robotic arm with 'YASKAWA MOTOMAN' branding is visible. In the center, a hand is holding a plasma cutting torch. On the right, a large industrial plasma cutter is mounted on a metal table. The cutter is silver and black, with 'EX-TRAFIRE' and '105HD' printed on its side. The overall scene is dimly lit, emphasizing the machinery and the central text.

# EX-TRAFIRE<sup>®</sup> HD

**INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.**



**EX-TRAFIRE<sup>®</sup> 105HD**

# EX-TRAFIRE<sup>®</sup>45HD

**INDUSTRIAL CUTTING.  
HEAVY-DUTY PERFORMANCE.**



SOLUTIONS / INDUSTRIES



Training and education



General fabrication



Craft, hobby and non-industrial



Structural

Last update of this page: 29/10/2021. See Revision history for details.

# EX-TRAFIRE® 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

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# EX-TRAFIRE® 45HD

## SPECIFICATIONS

	SINGLE PHASE		THREE PHASE
Output current	10-25 A @ 120 VAC	10-45 A @ 230 VAC	10-45 A
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 cutting capacity [mm]	10 <sup>(1)</sup>		
Recommended cutting capacity [mm]	12 <sup>(1)</sup>		
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 %	230 VAC ± 15 %	3 x 400 VAC ± 15 % (CE)
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		

<sup>(1)</sup> Values for low alloy steel, E. G. MS S235JR



## 4 DIFFERENT OPERATION MODES

The plasma cutting systems in the EX-TRAFIRE®HD range are the absolute specialists in meeting tough demands in continuous operation. The mobile EX-TRAFIRE® 45HD plasma cutting system is the ideal solution for anyone looking for a robust, extremely high-performance and cost-effective starter model.

Last update of this page: 10.05.2022. See Revision history for details.

# EX-TRAFIRE® 45HD

## ORDERING INFORMATION

Description	Length	Part No.
<b>MANUAL PLASMA CUTTING SYSTEMS</b>		
EX-TRAFIRE®45HD/CE/3x400 V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/ H Starter Kit	5 m	EX-2-010-031
EX-TRAFIRE®45HD/CE/3x400 V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/ H Starter Kit	8 m	EX-2-010-032
EX-TRAFIRE®45HD/CE/3x400 V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/ H Starter Kit	15 m	EX-2-010-033
EX-TRAFIRE®45HD/CE/1x110/230 V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/ H Starter Kit	5 m	EX-2-010-041
EX-TRAFIRE®45HD/CE/1x110/230 V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/ H Starter Kit	8 m	EX-2-010-042
EX-TRAFIRE®45HD/CE/1x110/230 V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/ H Starter Kit	15 m	EX-2-010-043
EX-TRAFIRE®45HD/CE/1x120/240V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/H Starter Kit/Including Transport Case	5 m	EX-2-010-047
EX-TRAFIRE®45HD/CE/1x120/240V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/H Starter Kit/Including Transport Case	8 m	EX-2-010-048
EX-TRAFIRE®45HD/CE/1x120/240V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/H Starter Kit/Incl. Transport Case	15 m	EX-2-010-049
EX-TRAFIRE®45HD/CE/3x400V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/H Starter Kit/Including Transport Case	5 m	EX-2-010-050
EX-TRAFIRE®45HD/CE/3x400V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/H Starter Kit/Including Transport Case	8 m	EX-2-010-051
EX-TRAFIRE®45HD/CE/3x400V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/H Starter Kit/Including Transport Case	15 m	EX-2-010-052
<b>MECHANIZED PLASMA CUTTING SYSTEMS</b>		
EX-TRAFIRE®45HD/CE/3x400 V Machine System (Fully-equipped*)/FHT-EX®45TTM 5m/M Starter Kit	5 m	EX-2-011-031
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-2-011-041
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-2-013-001
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-2-013-006
<b>PLASMA CUTTING UNITS</b>		
EX-TRAFIRE® 45HD/CE/1x110/230 V power supply unit (Fully-equipped*)		EX-2-001-001
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-2-003-001
EX-TRAFIRE® 45HD/CE/3x400 V power supply unit (STD-equipped**)		EX-2-003-003

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

\*\* 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	EX-0-804-001
Filter-EX Air Filter Cartridge	8	EX-0-804-002

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# EX-TRAFIRE® 45HD



FRONT VIEW



BACK VIEW



SIDE VIEW

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# FHT-EX®45TT



# FHT-EX®45TTH

## HAND TORCH ASSEMBLY



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, grid-cutting 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

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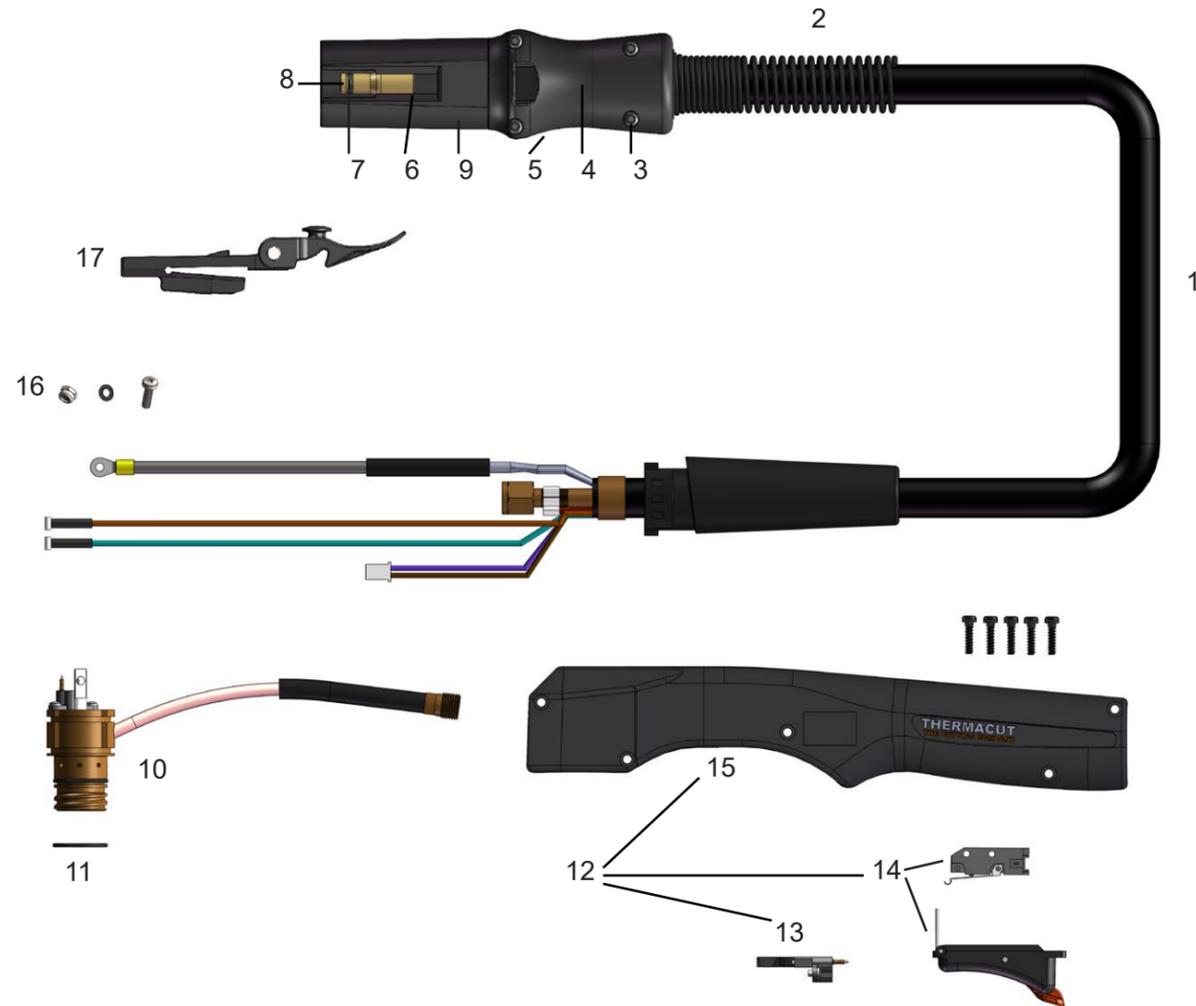
Item	Part No.	Description	Pcs
1.	EX-2-133-001	FHT-EX45®TTH DEMO Hand Torch Assembly w/consumables/TCS13	1
	EX-2-101-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-103-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-106-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/15m Lead/TCS13	1
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: 29/10/2021. See Revision history for details.

# FHT-EX®45TTH

## HAND TORCH COMPONENTS



Item	Part No.	Description	Pcs	Item	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	17.	EX-0-321-003	Latch w/Key Assembly	1
8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1				

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# FHT-EX®45TTM

## 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/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
2.	EX-0-321-003	Latch with Key Assembly	1

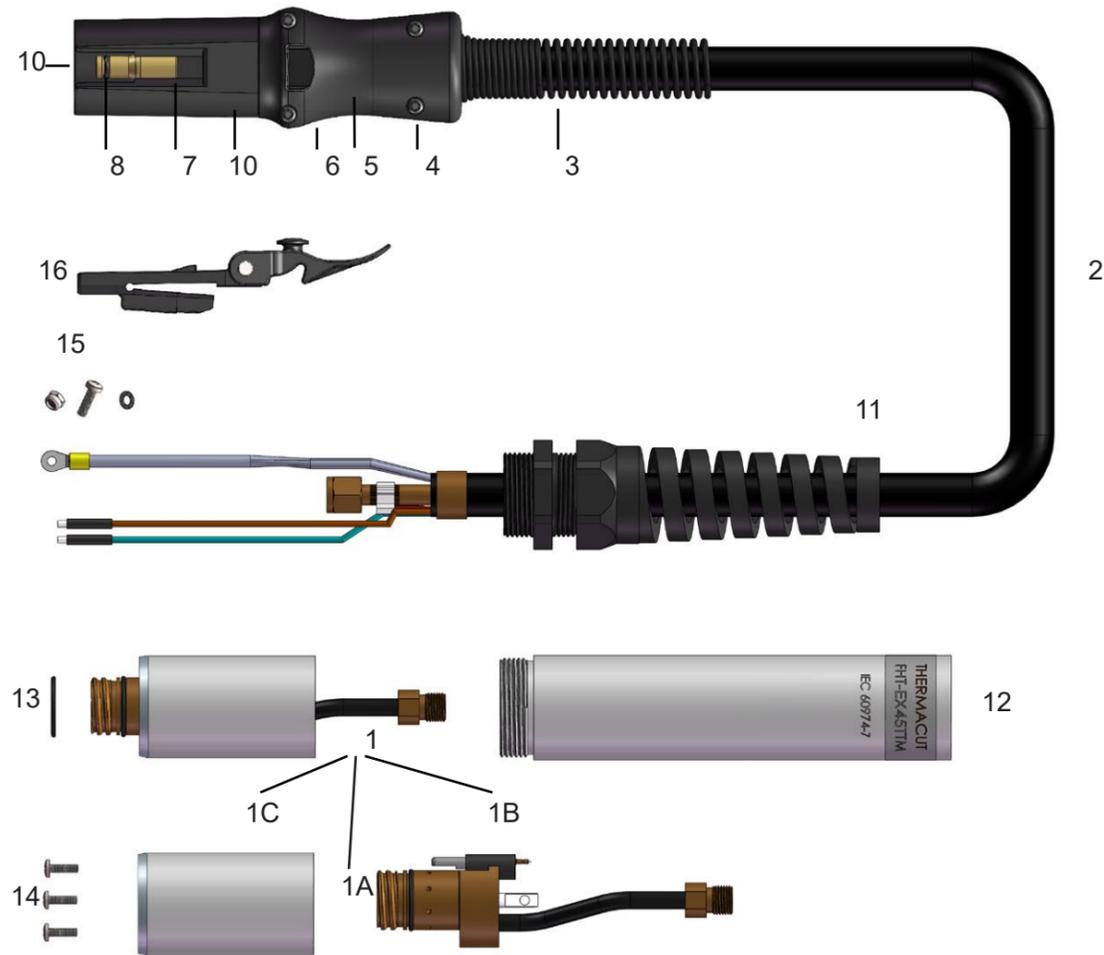
LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

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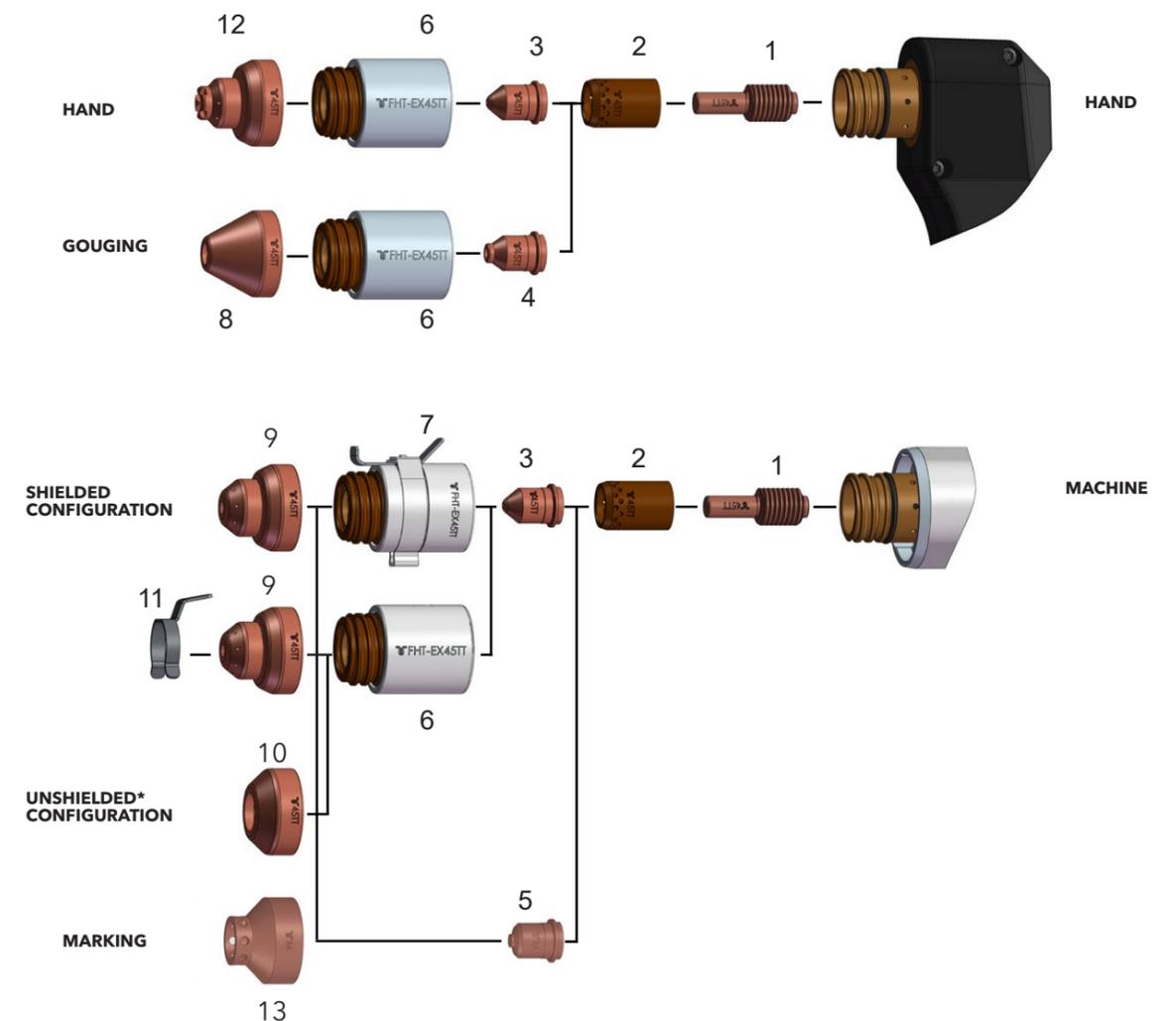
# FHT-EX®45TTM

# CONSUMABLES

## MACHINE TORCH COMPONENTS



## HAND / MACHINE TORCH CONSUMABLES



Item	Part No.	Description	Pcs	Item	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	16.	EX-0-321-003	Latch w/Key Assembly	1
6.	EX-0-325-001	TCS Clam Shell Lower	1				

Item	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.

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Last update of this page: 18/01/2022. See Revision history for details.

# EX-TRAFIRE® 65HD

## INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.



### SOLUTIONS / INDUSTRIES



Automotive  
and transportation



Energy



Structural



Education  
and Training



Craft, hobby and  
non industrial users

Last update of this page: 07/11/2022. See Revision history for details.

# EX-TRAFIRE® 65HD

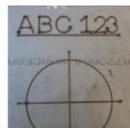


## IMPRESSIVE PERFORMANCE



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

## MARKING MODE



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

## READY FOR INDUSTRY 4.0



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

## AUTOMATIC SETTINGS



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

## HIGHEST FLEXIBILITY



- + Plate thicknesses up to 38 mm and more
- + For mechanized and manual applications
- + Gouging with high removal rate
- + Suitable for worldwide use

## NEW CUTTING TORCH FHT®EX105TT



- + 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.

# EX-TRAFIRE® 65HD

## SPECIFICATIONS

Output current [A]	20 -65
Modes	cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 65 A
Rated output voltage [VDC]	170
Severance cutting capacity [mm]	38 <sup>(1)</sup>
Piercing cutting capacity [mm]	25 <sup>(1)</sup>
Recommended cutting capacity [mm]	25 <sup>(1)</sup>
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 W×L×H [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

<sup>(1)</sup> related to low-alloy steel (mild steel)

<sup>(2)</sup> suitable for generator use



## 4 DIFFERENT OPERATION MODES

The plasma cutting systems in the EX-TRAFIRE®HD range are the absolute specialists in meeting tough demands in continuous operation. The mobile EX-TRAFIRE®65HD plasma cutting system with 100% duty cycle is the perfect solution for demanding heavy duty applications in industry.



Last update of this page: 07/11/2022. See Revision history for details.

# EX-TRAFIRE® 65HD

## ORDERING INFORMATION

Description	Length	Part No.
<b>MANUAL PLASMA CUTTING SYSTEMS</b>		
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
<b>MECHANIZED PLASMA CUTTING SYSTEMS</b>		
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
<b>PLASMA CUTTING UNITS</b>		
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

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

## AVAILABLE BULK PACKS

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.

# EX-TRAFIRE® 65HD



FRONT VIEW



BACK VIEW



SIDE VIEW

Last update of this page: 07/11/2022. See Revision history for details.

# EX-TRAFIRE® 85HD

## INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.

SOLUTIONS / INDUSTRIES



Automotive  
and transportation



Education and  
Training



General  
Fabrication

Last update of this page: 07/11/2022. See Revision history for details.



# EX-TRAFIRE® 85HD

# EX-TRAFIRE® 85HD

## SPECIFICATIONS

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 <sup>(1)</sup>
Piercing cutting capacity [mm]	25 <sup>(1)</sup>
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 W×L×H [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

<sup>(1)</sup> related to low-alloy steel (mild steel)

<sup>(2)</sup> suitable for generator use

### IMPRESSIVE PERFORMANCE



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

### MARKING MODE



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

### READY FOR INDUSTRY 4.0



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

### AUTOMATIC SETTINGS



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

### HIGHEST FLEXIBILITY



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

### NEW CUTTING TORCH FHT®EX105TT



- + 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.

## 4 DIFFERENT OPERATION MODES

The plasma cutting systems in the EX-TRAFIRE®HD range are the absolute specialists in meeting tough demands in continuous operation. The mobile EX-TRAFIRE®85HD plasma cutting system with 100% duty cycle is the perfect solution for demanding heavy duty applications in industry.



Last update of this page: 07/11/2022. See Revision history for details.

# EX-TRAFIRE® 85HD

## ORDERING INFORMATION

Description	Length	Part No.
<b>MANUAL PLASMA CUTTING SYSTEMS</b>		
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
<b>MECHANIZED PLASMA CUTTING SYSTEMS</b>		
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®105TSM Torch 8m/Starter Kit	8 m	EX-4-012-006
EX-TRAFIRE®85HD/CE/3x400 V Machine System/FULLY EQUIPPED/FHT-EX®105TSM Torch 15m/Starter Kit	15 m	EX-4-012-007
EX-TRAFIRE®85HD/CE/3x400 V Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 8m/Starter Kit	8 m	EX-4-013-002
EX-TRAFIRE®85HD/CE/3x400 V Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 15m/Starter Kit	15 m	EX-4-013-003
EX-TRAFIRE®85HD/CE/3x400 V Machine System/STD EQUIPPED/FHT-EX®105TSM Torch 8m/Starter Kit	8 m	EX-4-014-002
EX-TRAFIRE®85HD/CE/3x400 V Machine System/STD EQUIPPED/FHT-EX®105TSM Torch 15m/Starter Kit	15 m	EX-4-014-003
<b>PLASMA CUTTING UNITS</b>		
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

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 mm <sup>2</sup> /EU-plug 35-70 mm <sup>2</sup>	1	EX-5-543-037
Work lead with clamp 300 A/8 m/16 mm <sup>2</sup> /EU-plug 35-70 mm <sup>2</sup> (ON REQUEST)	1	EX-5-543-001
Work lead with clamp 300 A/15 m/16 mm <sup>2</sup> /EU-plug 35-70 mm <sup>2</sup> (ON REQUEST)	1	EX-5-543-002
Work lead with clamp 300 A/23 m/16 mm <sup>2</sup> /EU-plug 35-70 mm <sup>2</sup> (ON REQUEST)	1	EX-5-543-003

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# EX-TRAFIRE® 85HD



FRONT VIEW



BACK VIEW

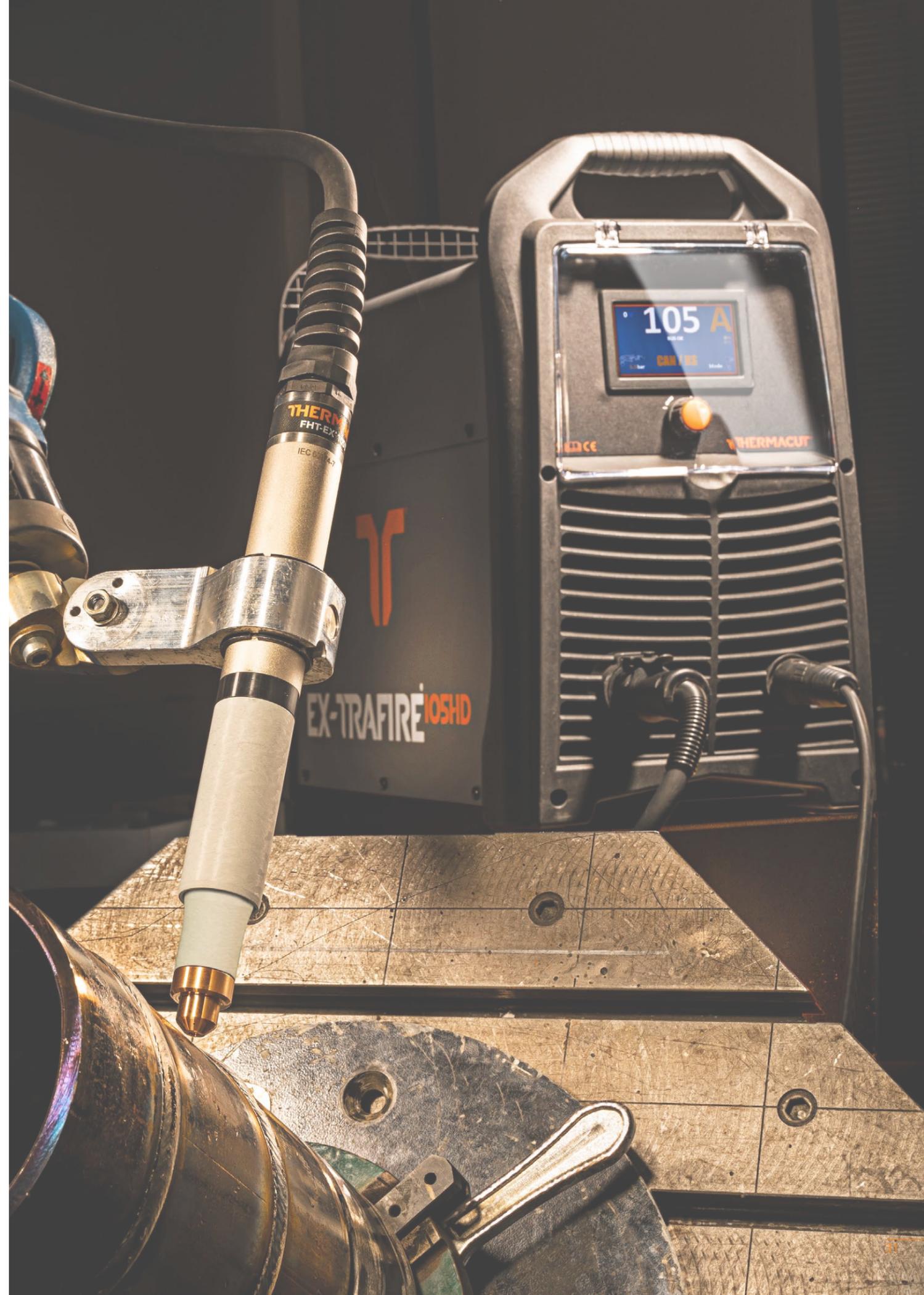


SIDE VIEW

Last update of this page: 07/11/2022. See Revision history for details.

# EX-TRAFIRE® 105HD

## INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.



### SOLUTIONS / INDUSTRIES



Automotive  
and transportation



Steel mills and  
steel service  
centers



Structural



Shipyards  
and Offshore



Heavy fabrication

Last update of this page: 01/07/2022. See Revision history for details.

# EX-TRAFIRE® 105HD



## IMPRESSIVE PERFORMANCE



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

## MARKING MODE



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

## READY FOR INDUSTRY 4.0



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

## AUTOMATIC SETTINGS



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

## HIGHEST FLEXIBILITY



- + Plate thicknesses up to 55 mm and more
- + For mechanized and manual applications
- + Gouging with high removal rate
- + Suitable for worldwide use

## 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.

# 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 <sup>(1)</sup>
Piercing cutting capacity [mm]	25 <sup>(1)</sup>
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 W×L×H [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

<sup>(1)</sup> related to low-alloy steel (mild steel)

<sup>(2)</sup> suitable for generator use

## 4 DIFFERENT OPERATION MODES

The plasma cutting systems in the EX-TRAFIRE®HD range are the absolute specialists in meeting tough demands in continuous operation. The mobile EX-TRAFIRE®105HD plasma cutting system with 100% duty cycle is the perfect solution for demanding heavy duty applications in industry.



Last update of this page: 01/07/2022. See Revision history for details.

# EX-TRAFIRE® 105HD

## ORDERING INFORMATION

Description	Length	Part No.
<b>MANUAL PLASMA CUTTING SYSTEMS</b>		
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
<b>MECHANIZED PLASMA CUTTING SYSTEMS</b>		
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
<b>PLASMA CUTTING UNITS</b>		
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

Last update of this page: 01/07/2022. See Revision history for details.

# FHT-EX® 105TT

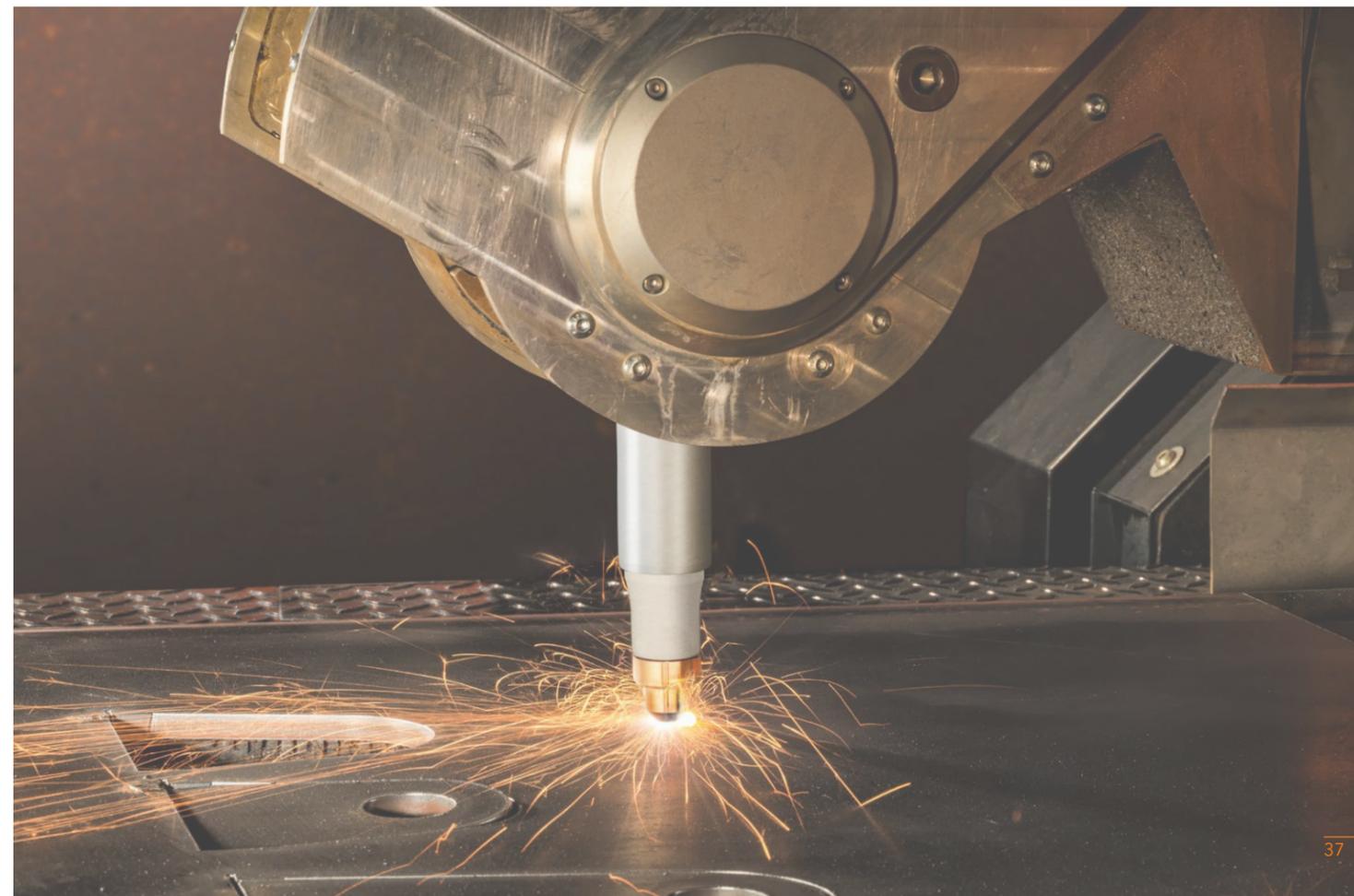
## HAND / MACHINE TORCHES

### AND CONSUMABLES

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



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



# FHT-EX® 105TT



**THE ALL-NEW  
CUTTING TORCH**  
+ HANDHELD  
+ MECHANIZED



The high-performant FHT-EX®105TT 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®105HD power supplies and are suitable for cutting, gouging, grid-cutting and marking. They can cut plate thickness of up to 55+ 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.

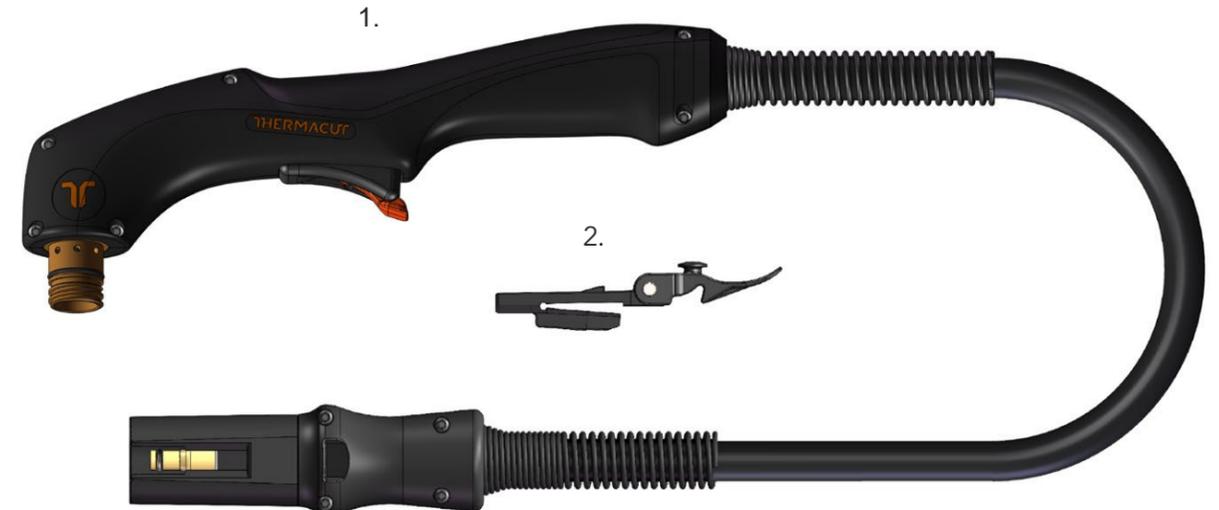
### BENEFITS

- 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 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

Last update of this page: 01/07/2022. See Revision history for details.

# FHT-EX® 105TTH

## HAND TORCH ASSEMBLY



Item	Part No.	Description	Pcs
1.	EX-5-133-002	DEMO FHT-EX®105TTH Hand Torch Assembly/TCS13	1
	EX-5-139-001	FHT-EX®105TTH Hand Torch Assembly-w/o consumables w/5m (16.5') Lead/TCS13	1
	EX-5-139-002	FHT-EX®105TTH Hand Torch Assembly w/o consumables w/8m (26') Lead/TCS13	1
	EX-5-139-003	FHT-EX®105TTH Hand Torch Assembly w/o consumables w/15m (50') Lead/TCS13	1
	EX-5-139-004	FHT-EX®105TTH Hand Torch Assembly w/o consumables w/23m (75') Lead/TCS13	1
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.

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# FHT-EX® 105TTH

## HAND TORCH COMPONENTS

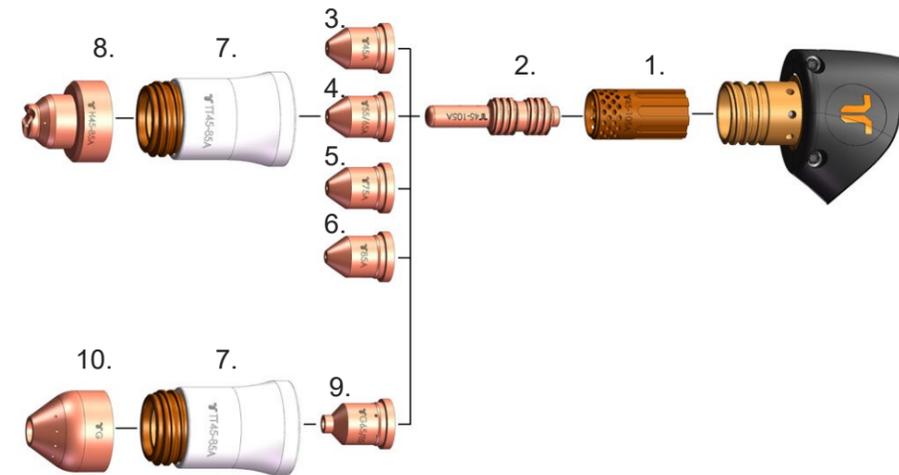


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-010	FHT-EX®105TTH Hand Torch Lead Replacement 5m (16.5')/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-5-374-011	FHT-EX®105TTH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-001	Hand Torch Body Repl. Kit (incl. Torch body & Cap sensor)	2
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	1
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	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				

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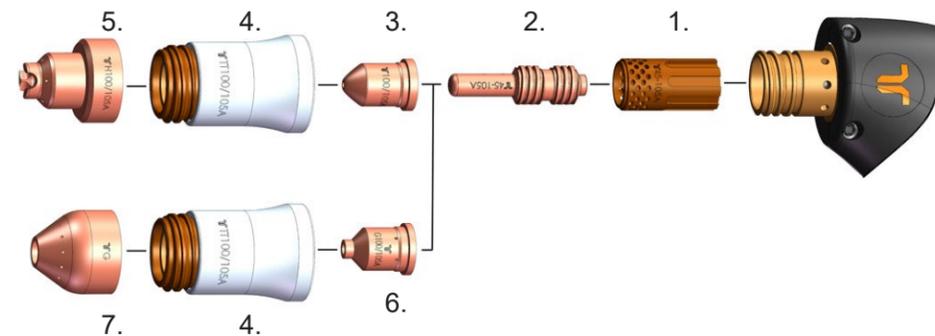
# CONSUMABLES

## HAND TORCH CONSUMABLES - 45-85 A



Item	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-5-422-031	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

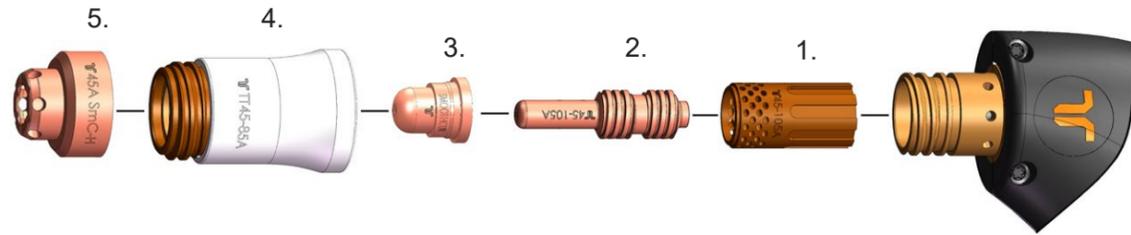


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1	5.	EX-5-422-032	Hand Shield 100/105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-440-052	Gouging Nozzle 100/105 A	5
3.	EX-5-410-056	Nozzle 100/105 A	5	7.	EX-5-440-050	Gouging Shield	1
4.	EX-5-415-051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

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# CONSUMABLES

## HAND TORCH CONSUMABLES - SMOOTHLINE

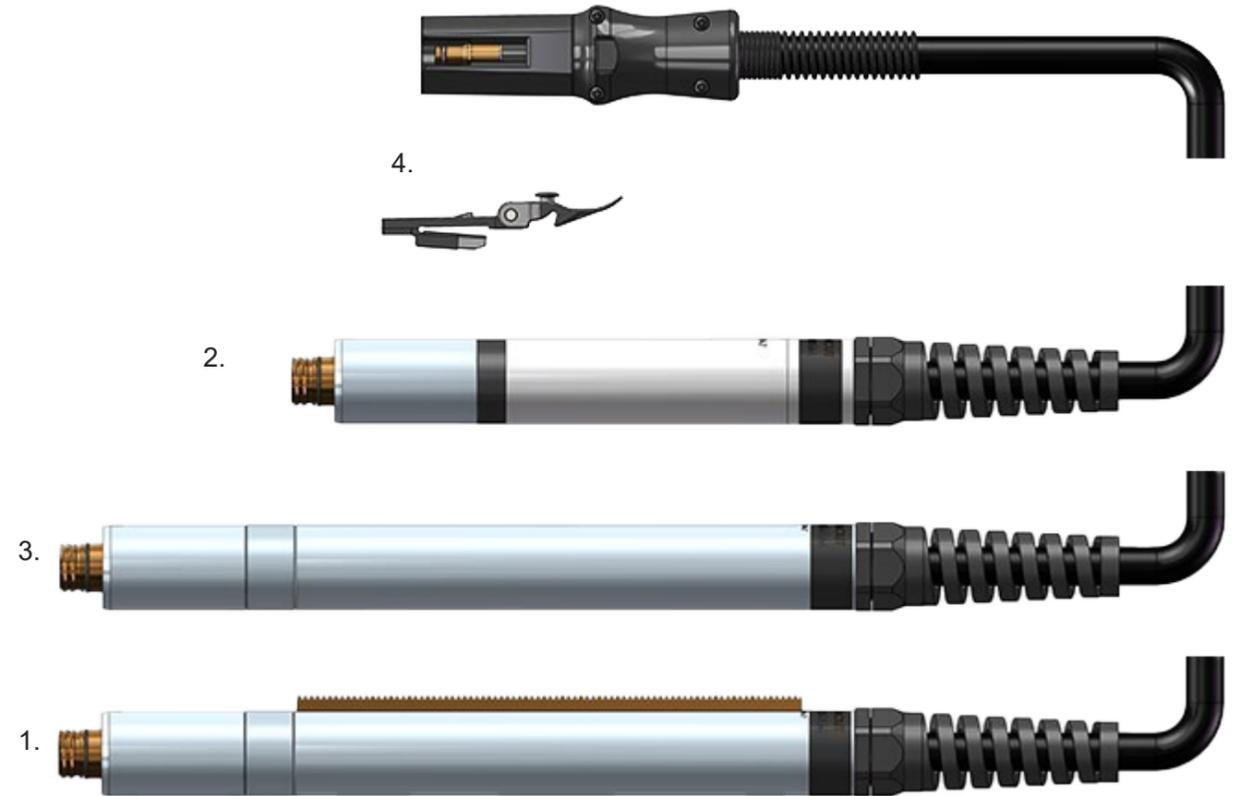


Item	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5
3.	EX-5-410-050	Nozzle Smoothline	5
4.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
5.	EX-5-420-050	Hand Shield 40/45 A Smoothline	1

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# FHT-EX® 105TTM

## MACHINE TORCH ASSEMBLY



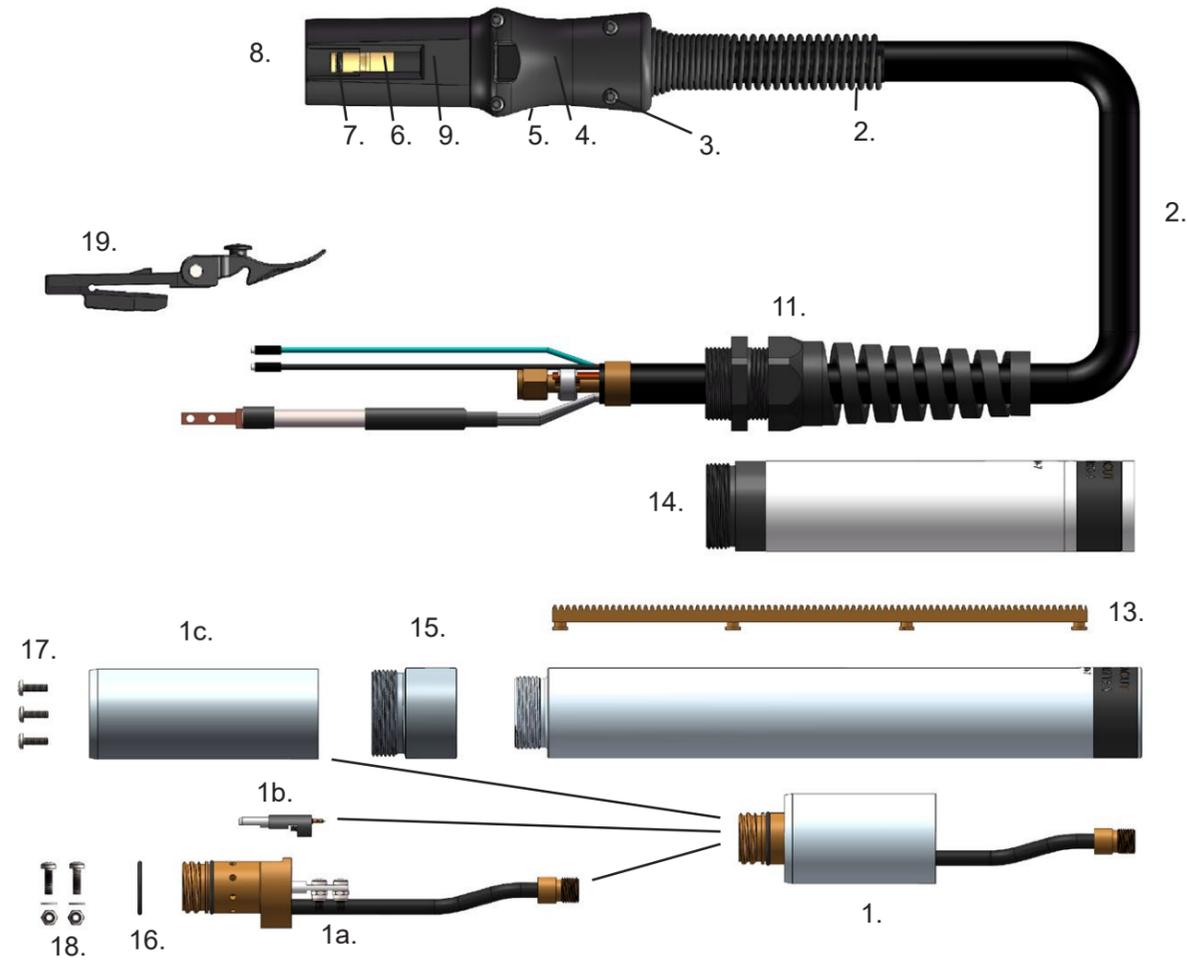
Item	Part No.	Description	Pcs
1.	EX-5-233-020	DEMO FHT-EX®105TTM (STD) Machine Torch w/Rack Assembly/TCS13	1
NS	EX-5-234-021	DEMO FHT-EX®105TTSM Short Machine Torch Assembly/ TCS13	1
2.	EX-5-242-021	FHT-EX®105TTSM Short Machine Torch Assembly-w/o consumables w/5m (16.5') Lead/ TCS13	1
2.	EX-5-244-021	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
⊕ 4.	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: 01/07/2022. See Revision history for details.

# FHT-EX® 105TTH

## MACHINE TORCH COMPONENTS

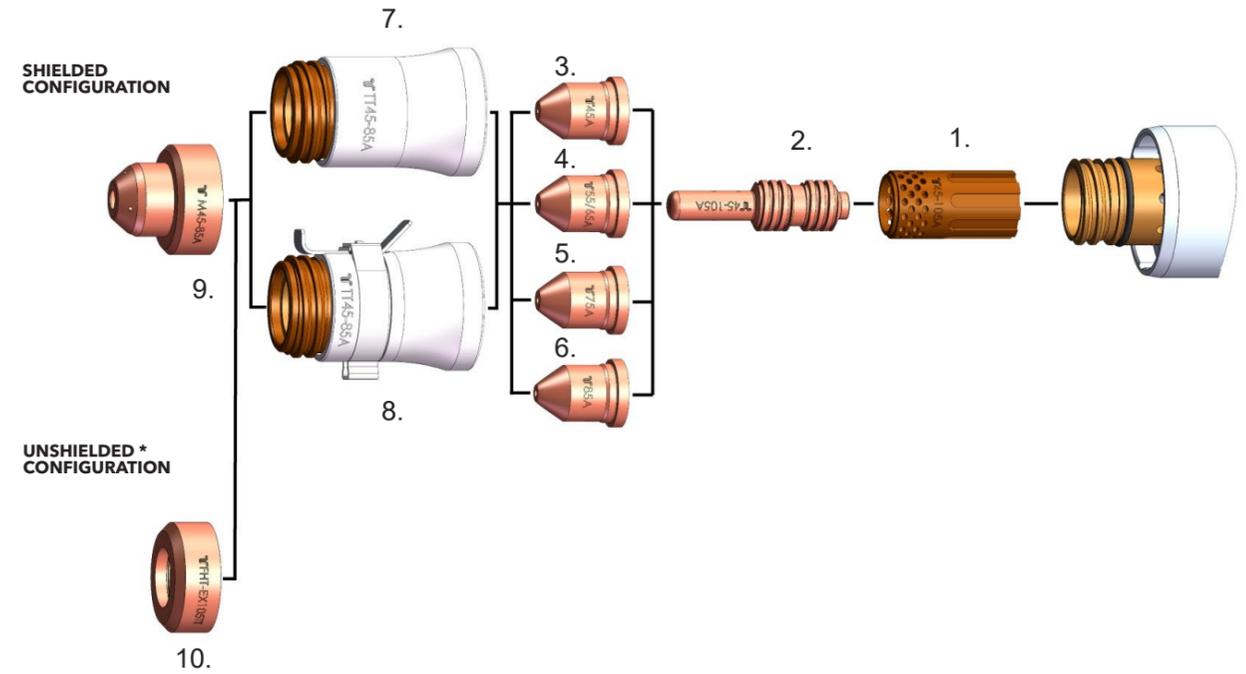


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-303-011	Machine Torch Body Assembly FHT-EX®105TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1a.	EX-5-303-010	Machine Torch Body FHT-EX®105TTM	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
1b.	EX-5-304-001	Cap Sensor Replacement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

Last update of this page: 01/07/2022. See Revision history for details.

# CONSUMABLES

## STANDARD MACHINE TORCH CONSUMABLES - 45-85 A



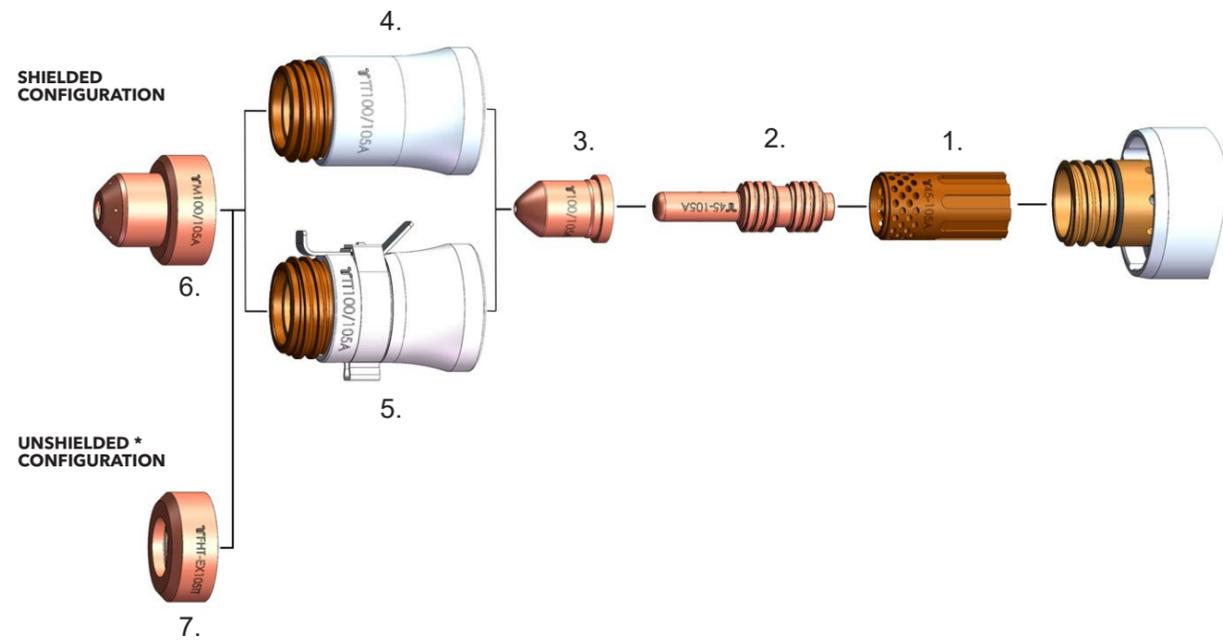
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1	6.	EX-5-410-055	Nozzle 85 A	5
2.	EX-5-401-051	Electrode 45-105 A	5	7.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
3.	EX-5-410-051	Nozzle 45 A	5	8.	EX-5-415-052	Nozzle Retaining Cap 45-85 A w/IHS Tab	1
4.	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.

Last update of this page: 01/07/2022. See Revision history for details.

# CONSUMABLES

## MACHINE TORCH CONSUMABLES - 100-105 A



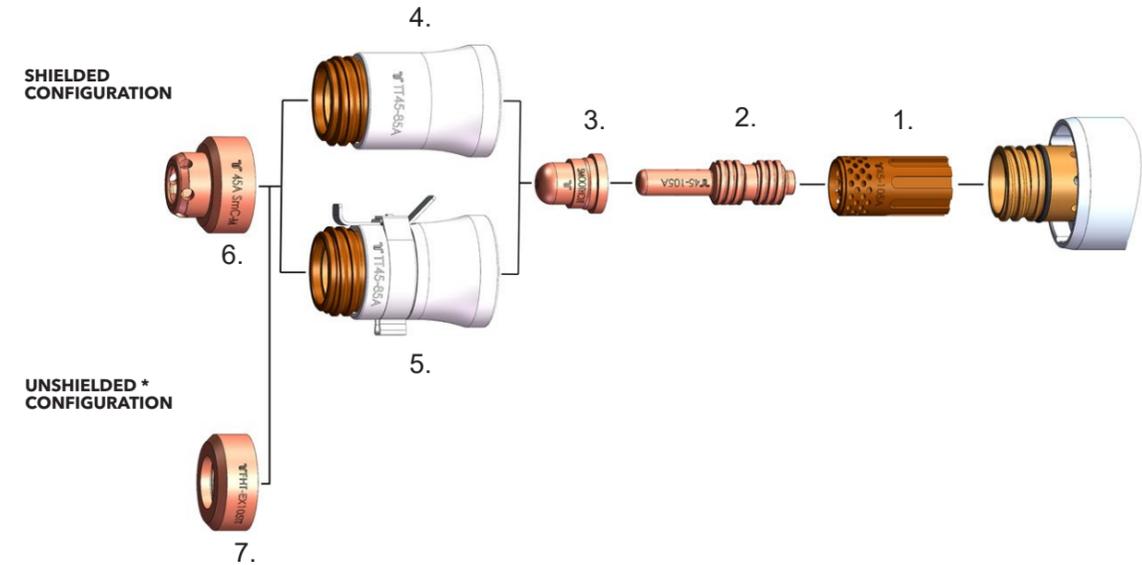
Item	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5
3.	EX-5-410-056	Nozzle 100/105 A	5
4.	EX-5-415-051	Nozzle Retaining Cap 100/105 A	1
5.	EX-5-415-053	Nozzle Retaining Cap 100/105 A w/IHS Tab	1
6.	EX-5-422-052	Machine Shield 100/105 A	1
7.	EX-5-423-001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

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

Last update of this page: 01/07/2022. See Revision history for details.

# CONSUMABLES

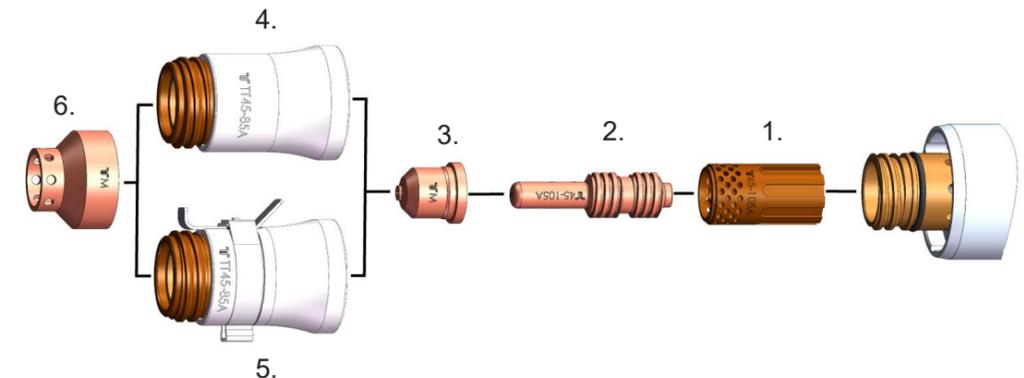
## MACHINE TORCH CONSUMABLES - SMOOTHLINE



Item	Part No.	Description	Pcs	Item	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.	EX-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

Last update of this page: 01/07/2022. See Revision history for details.

# EX-TRAFIRE<sup>®</sup> SD



EX-TRAFIRE<sup>®</sup>

# EX-TRAFIRE® SD LINE OVERVIEW

Features / System	EX-TRAFIRE®30H	EX-TRAFIRE®40SD	EX-TRAFIRE®45SD	EX-TRAFIRE®45SD	EX-TRAFIRE®55SD	EX-TRAFIRE®55SD	EX-TRAFIRE®75SD	EX-TRAFIRE®100SD		
<b>Cutting current [I2]</b>	10 - 30 A	10 - 40 A	10 - 30 A	20-45 A (20-25 A)	20-45 A	30 - 55 A	30 - 75 A	30 - 100 A		
<b>Input voltage [I2]</b>	CE 220-240 VAC ± 15 %	CE 1x 230 VAC ± 15 %	1x120 VAC ± 15 %	1x230 VAC ± 15 % (1x120 VAC)	3x400 VAC ± 15 %	CE 3x400 VAC ± 15 %	3 x 220 VAC ± 15 %	CE 3 x 400 VAC ± 15 %	3 x 220 VAC ± 15 %	3 x 400 VAC ± 15 %
<b>Duty cycle</b>	35 % @ 30 A-92 V 60 % @ 25 A-90 V 100 % @ 21 A-88,4 V	40 % @ 40 A-120 V 60 % @ 30 A-140 V 100 % @ 25 A-140 V	35 % @ 30 A-92 V 60 % @ 26 A-90,4 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	60 % @ 55 A-140 V 100 % @ 42 A-140 V	100% @ 75A-170 V	50 % @ 100 A-170 V 60 % @ 91 A-170 V 10 0% @ 80 A-170 V	
<b>I1max</b>	22 A	26 A	28,8 A	36,7 A	16,2 A	14,9 A	28,9 A	21,6 A	38,6 A	29,6 A
<b>I1eff</b>	13 A	16,4 A	17 A	23,2 A	14,4 A	10,5 A	22,3 A	21,6 A	38,6 A	20,7 A
<b>Weight [kg]</b>	10,5		11,8		12,7		11,8		24	24
<b>Width [mm]</b>	165		177		177		177		265	265
<b>Depth [mm]</b>	480		467		467		467		560	560
<b>Height [mm]</b>	290		228		228		229		400	400
<b>Industry (IOT) 4.0</b>	Not applicable									
<b>Handheld Application</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Mechanised Application</b>	Not applicable	Optional, Yes	Optional, Yes	Optional, Yes	Optional, Yes	Optional, Yes	Optional, Yes	Optional, Yes	Optional, Yes	Optional, Yes
<b>Gouging</b>	Not recommended	No	Possible	Possible	No	Yes	Yes	Yes	Yes	Yes
<b>Grid Cutting</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Torch</b>	FHT-EX®30H	FHT-EX®40	FHT-EX®45TT	FHT-EX®45TT	FHT-EX®45TT	FHT-EX®45TT	FHT-EX®105RTX	FHT-EX®105RTX	FHT-EX®105RTX	FHT-EX®105RTX
<b>Information's</b>	48 l/min @ 4,5 bar dynamic	120 l/min @ 4,5 bar dynamic	90 l/min @ 4,5 bar dynamic	90 l/min @ 4,5 bar dynamic	105 A / 100 A approx. 135 l/min, 85 A / 75 A approx. 110 l/min, 65 A / 55 A approx. 98 l/min, 45 A approx. 87 l/min	105 A / 100 A approx. 135 l/min, 85 A / 75 A approx. 110 l/min, 65 A / 55 A approx. 98 l/min, 45 A approx. 87 l/min	105 A / 100 A approx. 135 l/min, 85 A / 75 A approx. 110 l/min, 65 A / 55 A approx. 98 l/min, 45 A approx. 87 l/min	105 A / 100 A approx. 135 l/min, 85 A / 75 A approx. 110 l/min, 65 A / 55 A approx. 98 l/min, 45 A approx. 87 l/min	105 A / 100 A approx. 135 l/min, 85 A / 75 A approx. 110 l/min, 65 A / 55 A approx. 98 l/min, 45 A approx. 87 l/min	105 A / 100 A approx. 135 l/min, 85 A / 75 A approx. 110 l/min, 65 A / 55 A approx. 98 l/min, 45 A approx. 87 l/min
<b>Recommended Cut</b>	(*) 8 mm	(*) 12 mm	(*) 8 mm	(*) 12 mm	(*) 12 mm	(*) 20 mm	(*) 25 mm	(*) 25 mm	(*) 35 mm	(*) 35 mm
<b>Maximum</b>	(*) 10 mm	(*) 20 mm	(*) 10 mm	(*) 25 mm	(*) 25 mm	(*) 30 mm	(*) 35 mm	(*) 35 mm	(*) 50 mm	(*) 50 mm
<b>Piercing</b>	(*) 8 mm	(*) 8 mm	(*) 8 mm	(*) 10 mm	(*) 10 mm	(*) 20 mm				
<b>Recommended Cut</b>	(**) 4 mm	(**) 4 mm	(**) 4 mm	(**) 12 mm	(**) 12 mm	(**) 15 mm	(**) 18 mm	(**) 18 mm	(**) 20 mm	(**) 20 mm
<b>Maximum</b>	(**) 8 mm	(**) 8 mm	(**) 8 mm	(**) 20 mm	(**) 20 mm	(**) 25 mm	(**) 25 mm	(**) 25 mm	(**) 38 mm	(**) 38 mm
<b>Piercing</b>	(**) 4 mm	(**) 4 mm	(**) 4 mm	(**) 10 mm	(**) 10 mm	(**) 16 mm	(**) 20 mm	(**) 20 mm	(**) 20 mm	(**) 20 mm
<b>Recommended Cut</b>	(***) 6 mm	(***) 6 mm	(***) 6 mm	(***) 12 mm	(***) 12 mm	(***) 15 mm	(***) 18 mm	(***) 18 mm	(***) 20 mm	(***) 20 mm
<b>Maximum</b>	(***) 10 mm	(***) 10 mm	(***) 10 mm	(***) 20 mm	(***) 20 mm	(***) 25 mm	(***) 25 mm	(***) 25 mm	(***) 35 mm	(***) 35 mm
<b>Piercing</b>	(***) 6 mm	(***) 6 mm	(***) 6 mm	(***) 10 mm	(***) 10 mm	(***) 16 mm	(***) 20 mm	(***) 20 mm	(***) 20 mm	(***) 20 mm
<b>Gas type</b>	Compressed Air									
<b>Gas quality</b>	Recommended Air quality: ISO 8573-1 Class 1.2.2.									
<b>Air specification</b>	Air max. particle size: 0.1 microns, class 1 ref. to ISO 8573,									
	Air max. oil: 0.1 mg/m³, class 2 ref.: ISO 8573,									
	Air max. dew point: +3° C, class 4 ref. to ISO 8573									
<b>Nitrogen</b>	Purity ≥ 99,99%									
<b>Gas quality</b>	Clean, moisture-free, without oil									
	(*) Recommendation up to based on low alloyed steel handheld cutting starting from the edge (up to)									
	(**) Recommendation up to based SST handheld cutting starting from the edge (up to)									
	(***) Recommendation up to based on Aluminium handheld cutting starting from the edge (up to)									

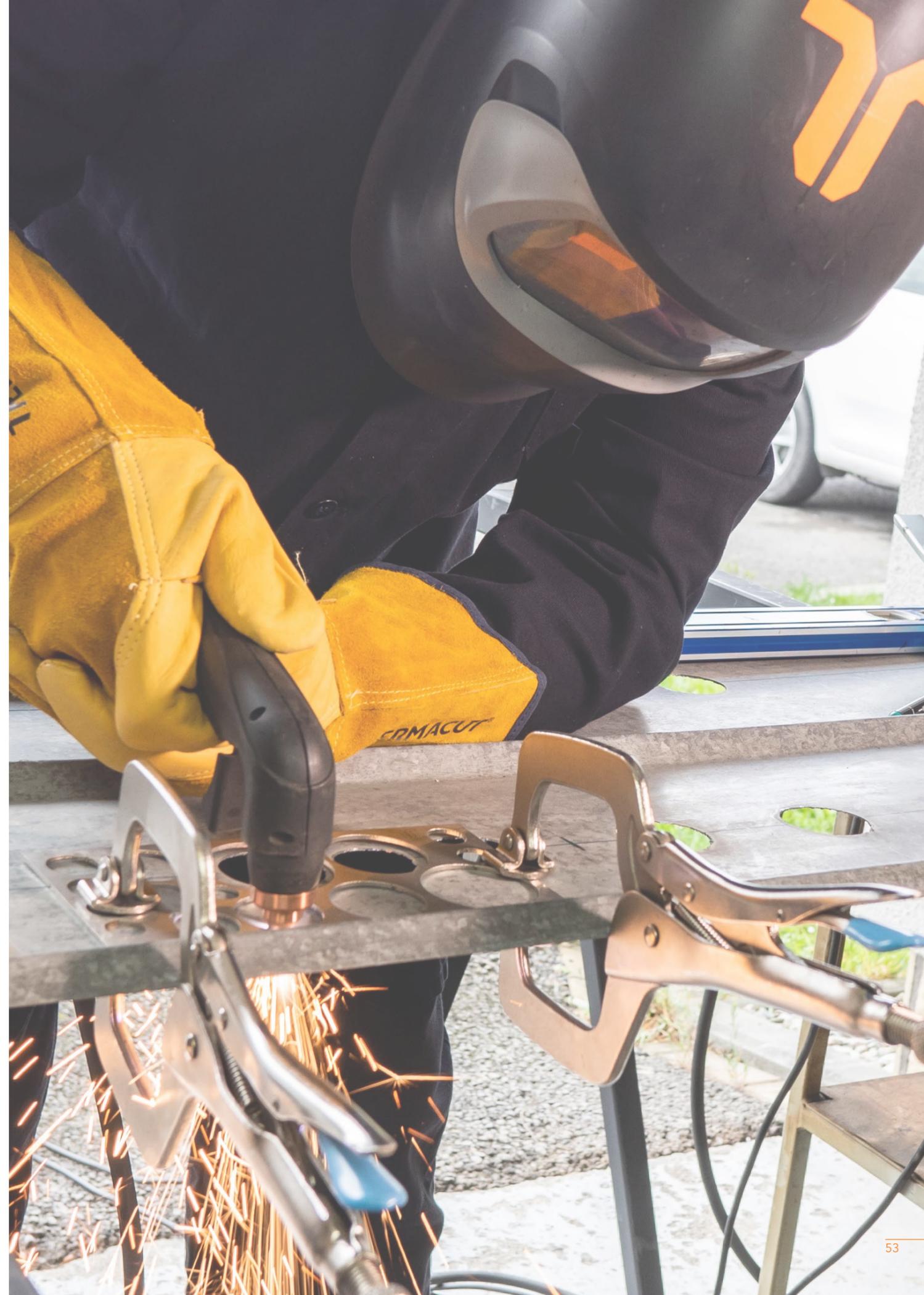
Last update of this page: 09/06/2021. See Revision history for details.

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

# EX-TRAFIRE<sup>®</sup> 30H

## PORTABLE AND POWERFUL PLASMA CUTTING SYSTEM

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



# EX-TRAFIRE® 30H



## SIMPLE OPERATION



- + Plug & cut
- + Easily accessible filter regulator
- + Engineered for professionals and metal artists

## HIGHEST APPLICATION FLEXIBILITY



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

## EX-TRA PERFORMANCE



- + Cutting
- + Precise cuts
- + Easy operation

## BEST COST-EFFECTIVENESS



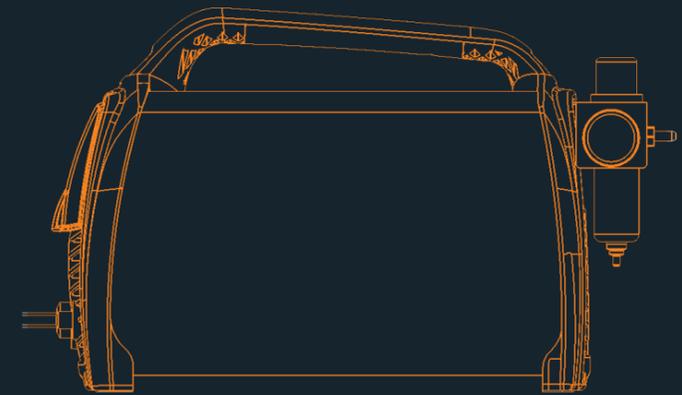
- + Very low investment
- + Lower running costs

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

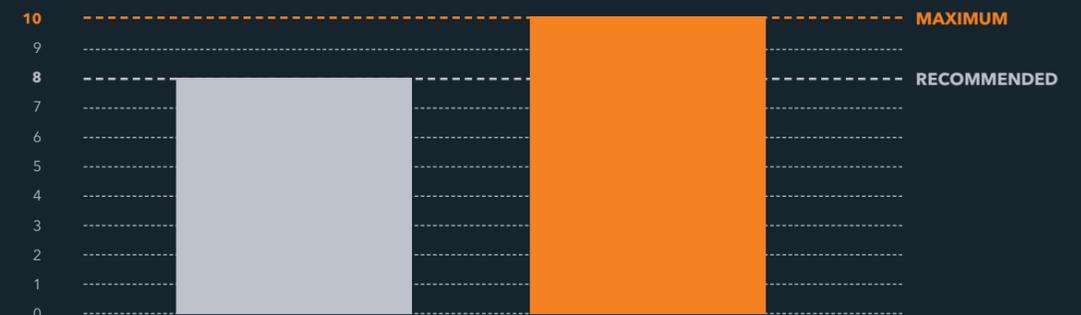
# EX-TRAFIRE® 30H

## 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 x h x w) (mm) 480x290x165
- WEIGHT (kg) 10.5
- RECOMMENDED CUTTING CAPACITY (mm) 8
- SEVERANCE CUTTING CAPACITY (mm) 10
- PIERCING CUTTING 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

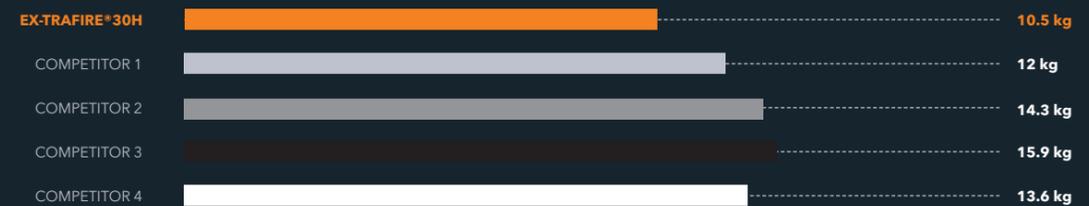


## MILD STEEL CUTTING CAPACITY IN MILLIMETRES



## COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES

EX-TRAFIRE® 30H IS THE MOST LIGHTWEIGHT IN ITS CLASS (INCLUDING TORCH AND WORK CABLE)



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

# EX-TRAFIRE® 30H

## ORDERING INFORMATION

Description	Length	Part No.
<b>MANUAL PLASMA CUTTING SYSTEMS</b>		
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	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	EX-0-804-001
Filter-EX Air Filter Cartridge	8	EX-0-804-002
Circle cutting guide kit for FHT-EX®30/40H	1	EX-2-801-001

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

# EX-TRAFIRE® 30H



FRONT VIEW

BACK VIEW



SIDE VIEW

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

# FHT-EX® 30H



**LIGHTWEIGHT  
POWERFUL**



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.

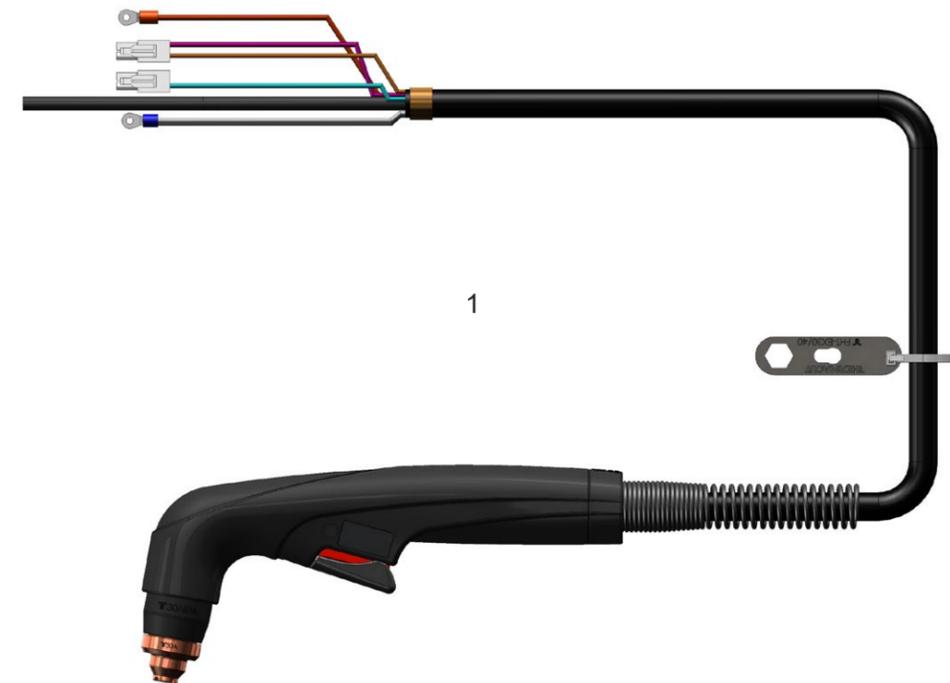
### BENEFITS

- 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

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

# FHT-EX® 30H

## HAND TORCH ASSEMBLY

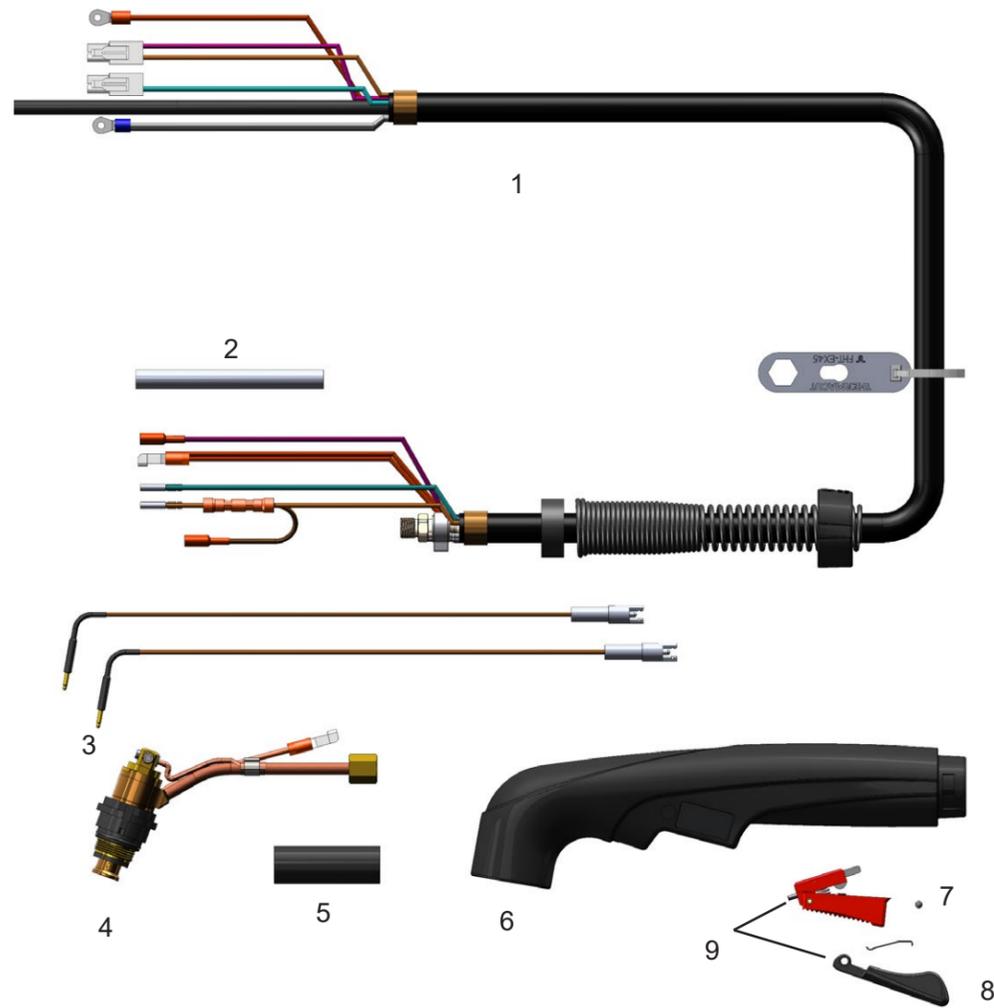


Item	Part No.	Description	Pcs.
1.	EX-1-134-001	FHT-EX®30H Hand Torch Assembly with 4m Lead/FC	1

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

# FHT-EX® 30H

## HAND TORCH COMPONENTS

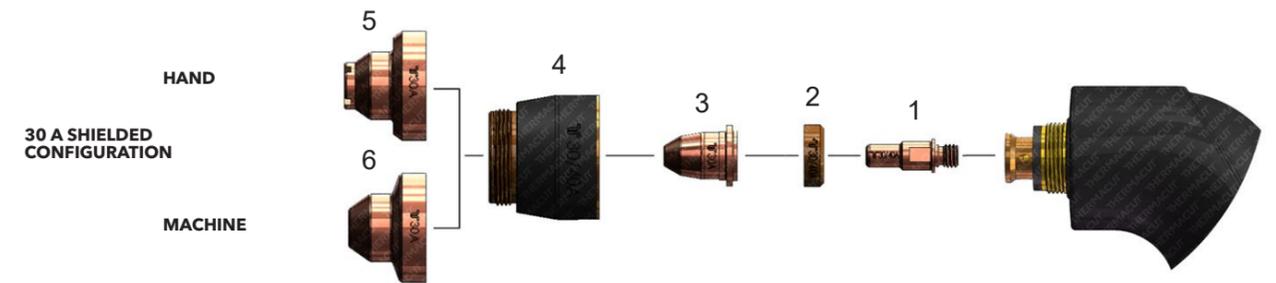


Item	Part No.	Description	Pcs.	Item	Part No.	Description	Pcs.
1.	EX-1-373-001	Hand Torch Lead Replacement Kit 4m Lead/FC	1	6.	EX-2-314-015	Hand Torch Handle Replacement Kit	1
2.	EX-0-319-021	Insulating Teflon Tube	1	7.	EX-5-309-013	Trigger	1
3.	EX-2-304-020	Hand Torch PIP Pins Replacement Kit (with Wires)	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

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

# CONSUMABLES

## HAND TORCH CONSUMABLES



Item	Part No.	Description	Pcs.	Item	Part No.	Description	Pcs.
1.	EX-2-401-001	Electrode	5	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.	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				

NS NOT SHOWN IN THE PICTURE

⊕ FOR USE WITH CIRCLE CUTTING GUIDE OR FOR BEVEL CUTTING

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

# EX-TRAFIRE<sup>®</sup>40SD

## LIGHTWEIGHT AND POWERFUL PLASMA CUTTING SYSTEM.



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

# EX-TRAFIRE® 40SD



## SIMPLE OPERATION



- + Plug & cut
- + Engineered for hobbyist

## EX-TRA PERFORMANCE



- + Precise cuts
- + Easy operation

## HIGHEST APPLICATION FLEXIBILITY



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

## BEST COST-EFFECTIVENESS



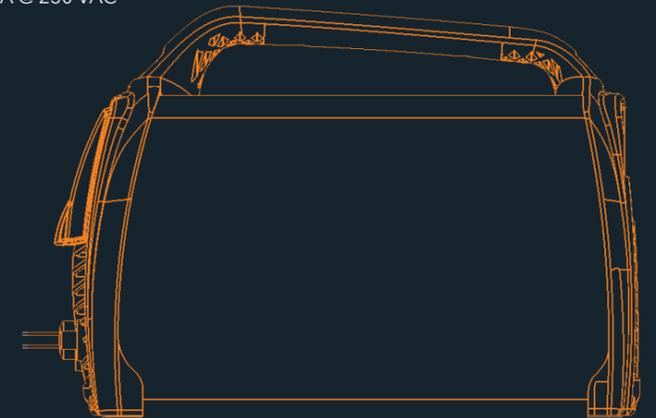
- + Very low investment
- + Lower running costs

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

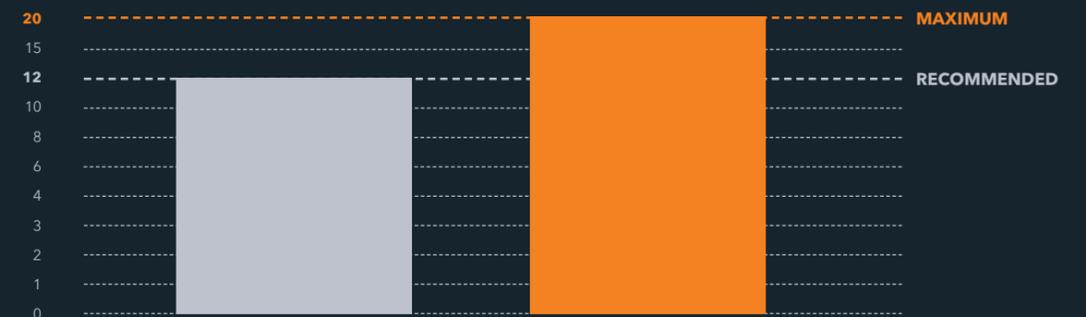
# EX-TRAFIRE® 40SD

## SPECIFICATIONS

- OUTPUT CURRENT (A)** 10-30 A (120 VAC) / 10-40 A (230 VAC)
- INPUT VOLTAGE (VAC)** 100/240 VAC ± 15 %
- PLASMA GAS** COMPRESSED AIR
- CERTIFICATION** CE, C-TICK, CCC
- MODES** CUTTING / GRID CUTTING
- FREQUENCY (Hz)** 50/60
- MAXIMUM INPUT POWER (kVA)** 3.45 kVA @ 120 VAC / 5.98 kVA @ 230 VAC
- OUTPUT VOLTAGE (VDC)** 140
- DUTY CYCLE @ 40 °C** 40 % @ 40 A, 100 % @ 25 A
- DIMENSION (l x h x w) mm** 469x228x177
- WEIGHT (kg)** 11.8
- RECOMMENDED CUTTING CAPACITY (mm)** 12
- SEVERANCE CUTTING CAPACITY (mm)** 20
- PIERCING CUTTING CAPACITY (mm)** 8
- AIR FLOW @ (lpm/bar)** 120 @ 4.5
- MAXIMUM INPUT PRESSURE (bar/psi)** 10/145
- PROTECTION LEVEL** IP23S
- INSULATION CLASS** H/F
- CNC INTERFACE** YES
- INDUSTRY 4.0** NO
- TYPE OF TORCH** FHT-EX®40H/M

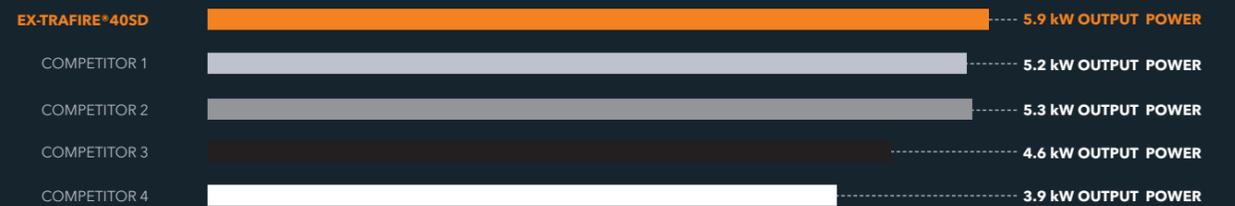


## MILD STEEL CUTTING CAPACITY IN MILLIMETRES



## COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES

EX-TRAFIRE®40SD IS THE MOST POWERFUL SYSTEM IN IT'S CLASS.



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

# EX-TRAFIRE® 40SD

## ORDERING INFORMATION

Description	Length	Part No.
<b>MANUAL PLASMA CUTTING SYSTEMS</b>		
EX-TRAFIRE®40SD/CE/1x100-240 V Hand System/FHT-EX40H 4m/H Starter Kit	4 m	EX-2-010-001
EX-TRAFIRE®40SD/CE/1x100-240 V Hand System/FHT-EX40H 5m/H Starter Kit	5 m	EX-2-010-002
EX-TRAFIRE®40SD/CE/1x100-240 V Hand System/FHT-EX40H 7,5m/H Starter Kit	7.5 m	EX-2-010-003
EX-TRAFIRE®40SD/CE/1x100-240 V Hand System/FHT-EX40H 15m/H Starter Kit	15 m	EX-2-010-004
<b>MECHANIZED PLASMA CUTTING SYSTEMS</b>		
EX-TRAFIRE®40SD/CE/1x100-240 V Machine System/FHT-EX40M 4m/M Starter Kit	4 m	EX-2-011-001
EX-TRAFIRE®40SD/CE/1x100-240 V Machine System/FHT-EX40M 5m/M Starter Kit	5 m	EX-2-011-002
EX-TRAFIRE®40SD/CE/1x100-240 V Machine System/FHT-EX40M 7,5m/M Starter Kit	7.5 m	EX-2-011-003
EX-TRAFIRE®40SD/CE/1x100-240 V Machine System/FHT-EX40M 15m/M Starter Kit	15 m	EX-2-011-004
<b>PLASMA POWER SUPPLY UNITS</b>		
EX-TRAFIRE®40SD/CE/1x100-240 V power supply unit (fully-equipped*)		EX-2-001-007

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

## AVAILABLE BULK PACKS

Description	Pcs	Part No.
Bulk Pack - Electrode - 25 pcs	1	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	EX-0-804-001
Filter-EX Air Filter Cartridge	8	EX-0-804-002
Circle cutting guide kit for FHT-EX®30/40H	1	EX-2-801-001

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

# EX-TRAFIRE® 40SD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

# FHT-EX® 40H



**VERSATILE AND  
CAPABLE TORCH**



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.

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

- 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 25 A
- Ideal 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

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

# FHT-EX® 40H

## HAND TORCH ASSEMBLY



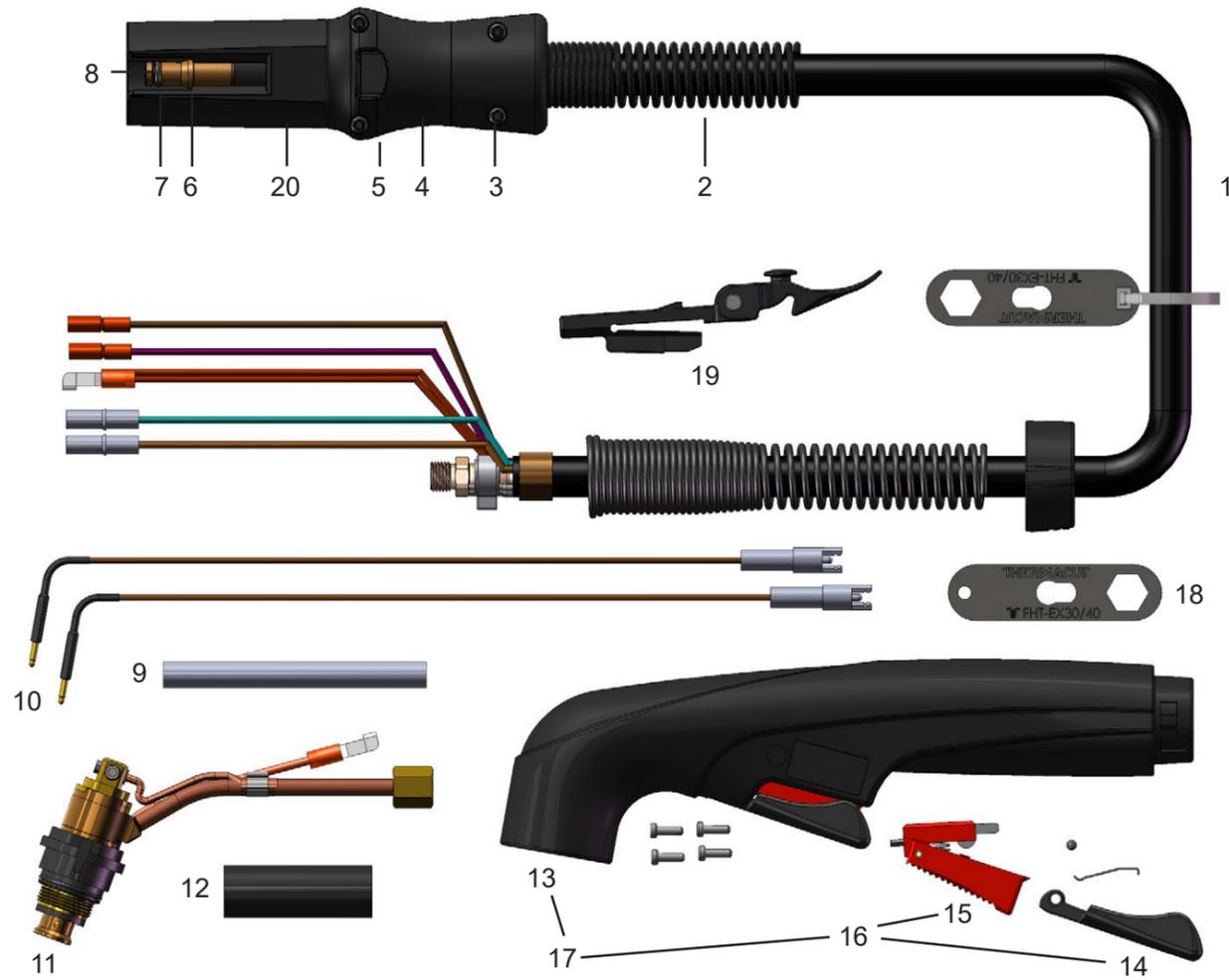
Item	Part No.	Description	Pcs
1.	EX-2-133-000	DEMO FHT-EX®40H Hand Torch Assembly/TCS13	1
	EX-2-130-001	FHT-EX®40H Hand Torch Assembly w/o consumables/4m Lead/TCS13	1
	EX-2-101-003	FHT-EX®40H Hand Torch Assembly w/o consumables/5m Lead/TCS13	1
	EX-2-131-005	FHT-EX®40H Hand Torch Assembly w/o consumables/7.5m Lead/TCS13	1
	EX-2-106-007	FHT-EX®40H Hand Torch Assembly w/o consumables/15m Lead/TCS13	1
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



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs	
OD 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	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

OD 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

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

# FHT-EX® 40M

## MACHINE TORCH ASSEMBLY



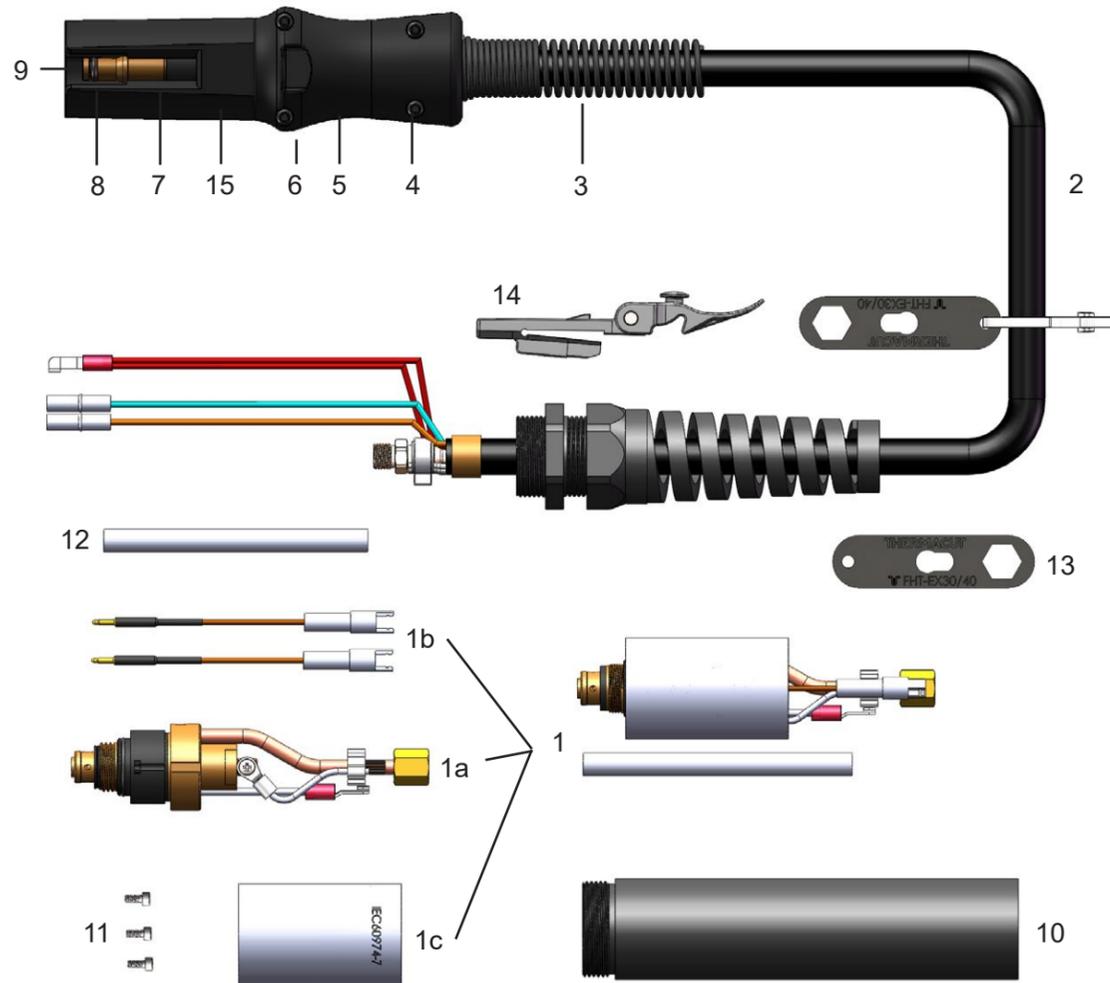
Item	Part No.	Description	Pcs
1.	EX-2-233-000	DEMO FHT-EX®40M Machine Torch Assembly/TCS13	1
	EX-2-235-001	FHT-EX®40M Machine Torch Assembly w/o consumables/4m Lead/TCS13	1
	EX-2-202-003	FHT-EX®40M Machine Torch Assembly w/o consumables/5m Lead/TCS13	1
	EX-2-236-005	FHT-EX®40M Machine Torch Assembly 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
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® 40M

## MACHINE TORCH COMPONENTS



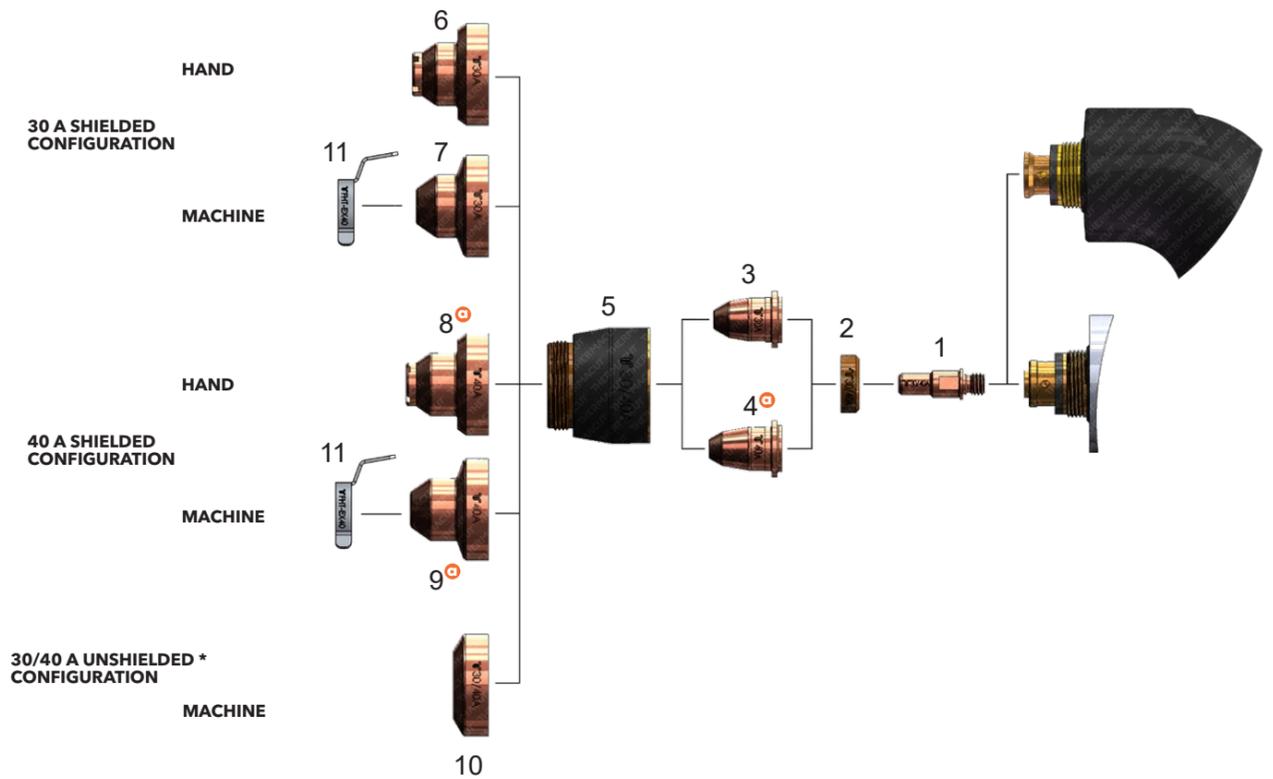
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-2-301-010	Machine Torch Body Assembly FHT-EX®40M	1	6.	EX-0-325-001	TCS Clam Shell Lower	1
1a.	EX-2-301-011	Machine Torch Body FHT-EX®40M	1	7.	EX-0-325-010	Retaining Ring (Outer Circlip Ring)	1
1b.	EX-2-304-021	Machine Torch PIP Pins Replacement 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
OD 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	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

**OD** 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

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

# CONSUMABLES

## HAND / MACHINE TORCH CONSUMABLES



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-2-401-001	Electrode	5	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
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	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	NS	EX-2-437-001	Bulk Pack - Machine Shield 40 A - 18 pcs	1
8.	EX-2-419-001	Hand Shield 40 A	1	11.	EX-2-428-011	IHS Ohmic Clip	1

**NS** 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

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

# EX-TRAFIRE<sup>®</sup>45SD

## PROFESSIONAL AND VERSATILE PLASMA CUTTING SYSTEM.

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



# EX-TRAFIRE® 45SD



## SIMPLE OPERATION



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

## HIGHEST APPLICATION FLEXIBILITY



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

## EX-TRA PERFORMANCE



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

## BEST COST-EFFECTIVENESS



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

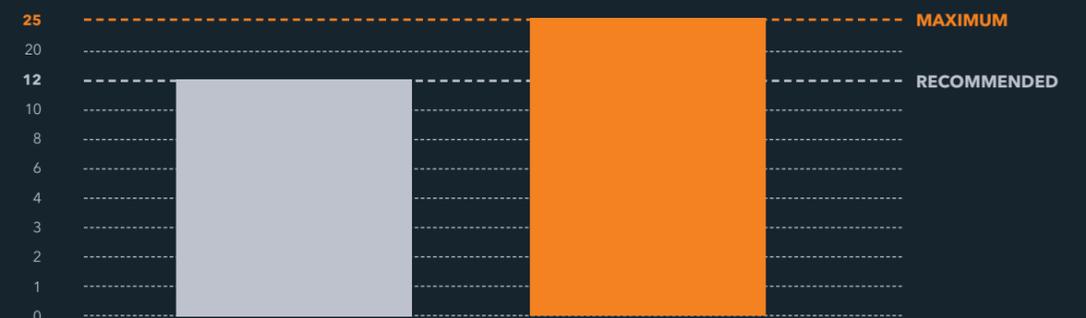
Last update of this page: 09/06/2021. See Revision history for details.

# EX-TRAFIRE® 45SD

## SPECIFICATIONS

	SINGLE PHASE		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 CUTTING		
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 (l x h x w) mm	469 x 228 x 177		
Weight (KG)	12,7		
Recommended cutting capacity (mm)	8	12	
Severance cutting capacity (mm)	12	25	
Piercing cutting 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



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

# EX-TRAFIRE® 45SD

## ORDERING INFORMATION

Description	Length	Part No.
<b>MANUAL PLASMA CUTTING SYSTEMS</b>		
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
<b>MECHANIZED PLASMA CUTTING SYSTEMS</b>		
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
<b>PLASMA POWER SUPPLY UNITS</b>		
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

\* 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	EX-0-804-001
Filter-EX Air Filter Cartridge	8	EX-0-804-002

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

# EX-TRAFIRE® 45SD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

# FHT-EX®45TT



# FHT-EX®45TTH

## HAND TORCH ASSEMBLY



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 grid-cutting. 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

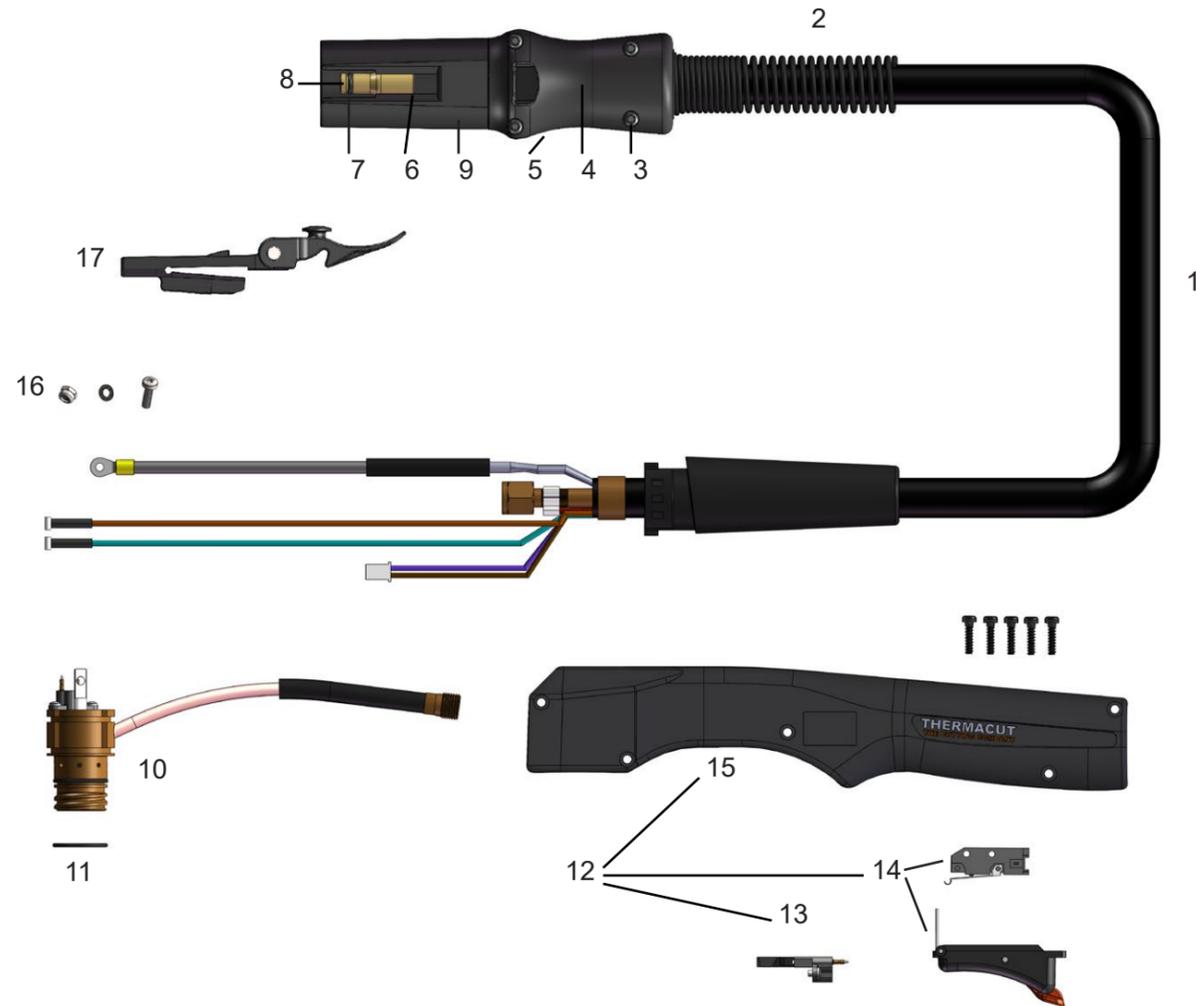
- High-performant torches for mechanised applications and handheld use
- Ergonomic handheld torches for safe and reliable holding and guiding in all positions
- Compact and flexible for handheld applications, even in the case of tight radii or gouging of fillet welds
- 100 % duty cycle at 45 A, ideal 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 max. 10 mm
- Perfectly designed for use with EX-TRAFIRE®45SD power supplies

Item	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
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®45TTH

## HAND TORCH COMPONENTS



Item	Part No.	Description	Pcs	Item	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	17.	EX-0-321-003	Latch w/Key Assembly	1
8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1				

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

# FHT-EX®45TTM

## MACHINE TORCH ASSEMBLY



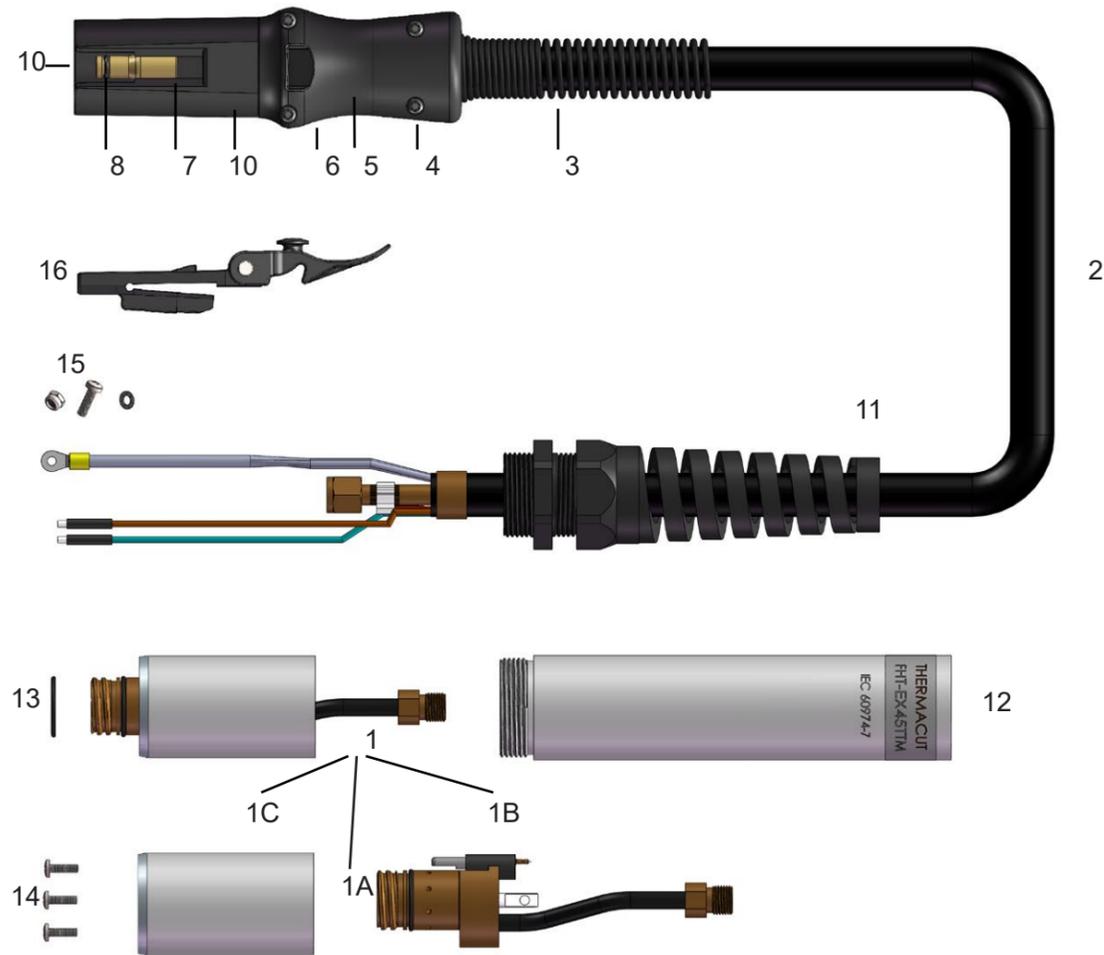
Item	Part No.	Description	Pcs
1.	EX-2-233-001	FHT-EX®45TTM DEMO Machine Torch Assembly w/consumables/TCS13	1
	EX-2-202-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-204-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-207-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/15m Lead/TCS13	1
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®45TTM

## MACHINE TORCH COMPONENTS

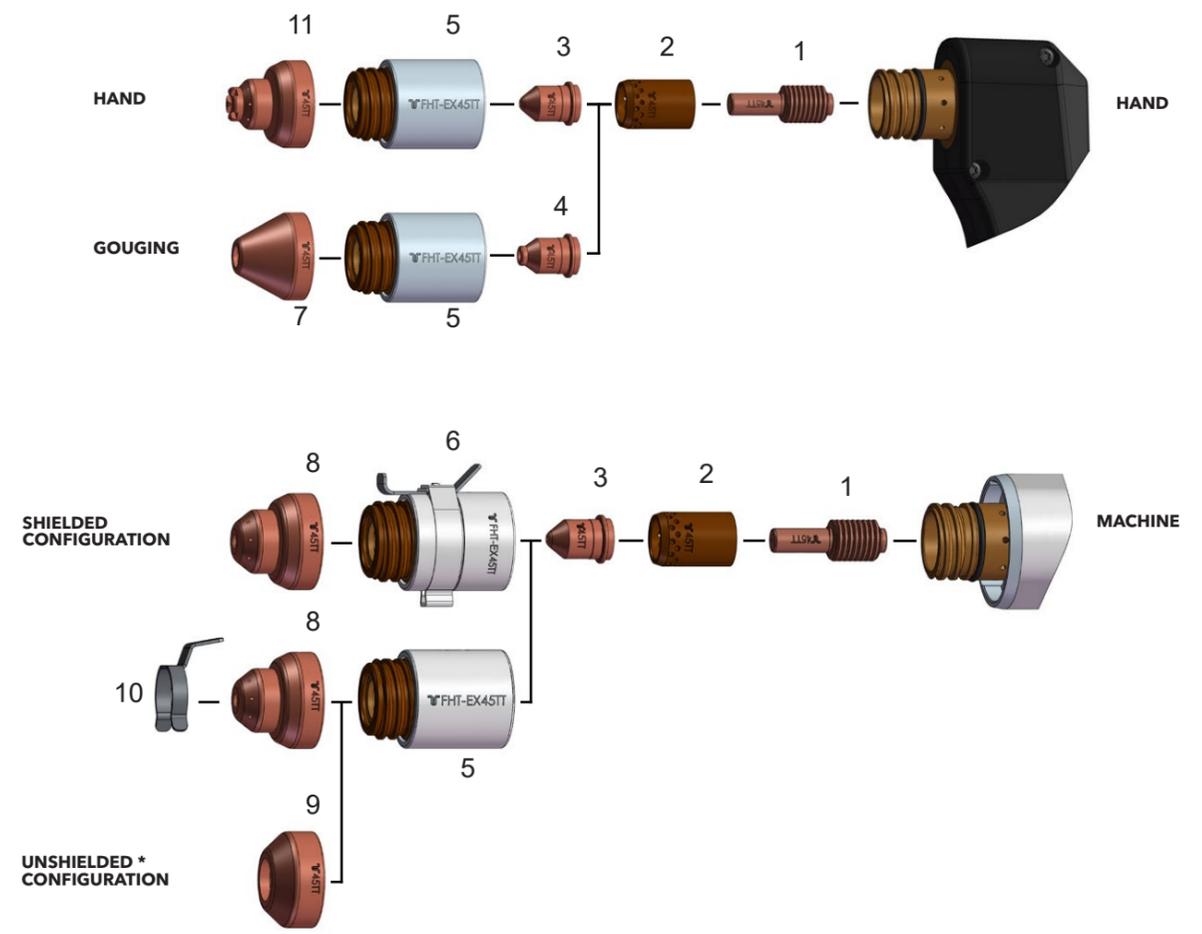


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-2-301-001	Machine Torch Body Assembly FHT-EX®45TTM	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-2-301-002	Machine Torch Body FHT-EX®45TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-001	Cap Sensor 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	16.	EX-0-321-003	Latch w/Key Assembly	1
6.	EX-0-325-001	TCS Clam Shell Lower	1				

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

# CONSUMABLES

## HAND / MACHINE TORCH CONSUMABLES



Item	Part No.	Description	Pcs	Item	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.

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

# EX-TRAFIRE<sup>®</sup> 55SD

**BEST IN CLASS  
PLASMA CUTTING SYSTEM.**



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

# EX-TRAFIRE® 55SD



## SIMPLE OPERATION



- + Intuitive control
- + Protected filter regulator
- + Engineered for professional applications

## HIGHEST APPLICATION FLEXIBILITY



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

## EX-TRA PERFORMANCE



- + Cutting, grid mode
- + Exact cuts
- + High duty cycle

## BEST COST-EFFECTIVENESS



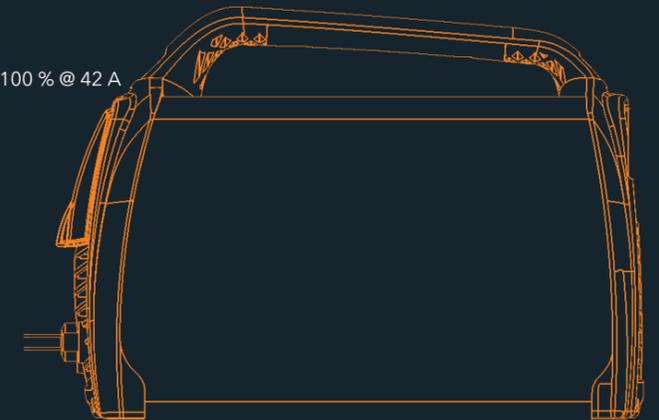
- + Low investment for high performance
- + Enhanced consumable lifetime
- + Reduced costs of ownership

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

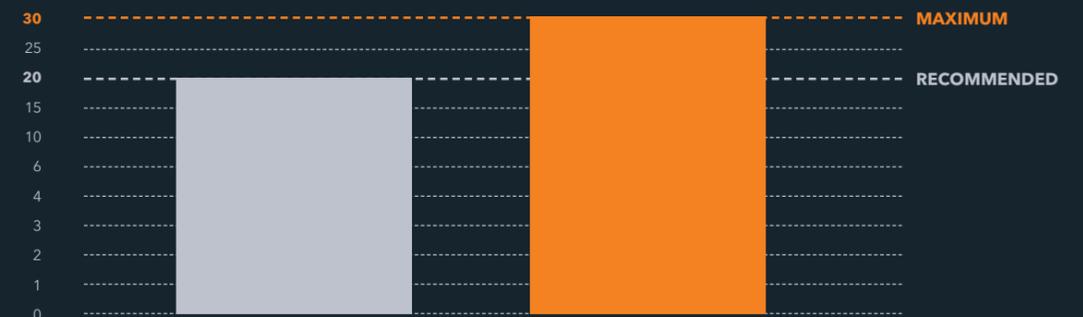
# EX-TRAFIRE® 55SD

## SPECIFICATIONS

- OUTPUT CURRENT (A)** 30-55
- INPUT VOLTAGE (VAC)** CE 3 x 400 VAC ± 15 %, 3 x 220 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 x 400 VAC
- OUTPUT VOLTAGE (VDC)** 170 V @ 3 x 400 VAC
- DUTY CYCLE @ 40 °C** 50 % @ 55 A, 100 % @ 41 A / 60 % @ 55 A, 100 % @ 42 A
- DIMENSION (l x h x w) mm** 469 x 228 x 177
- WEIGHT (kg)** 11.8
- RECOMMENDED CUTTING CAPACITY (mm)** 20
- SEVERANCE CUTTING CAPACITY (mm)** 30
- PIERCING CUTTING CAPACITY (mm)** 20
- AIR FLOW @ (lpm/bar)** 100 @ 5,2
- MAXIMUM INPUT PRESSURE (bar/psi)** 7/101
- PROTECTION LEVEL** IP23S
- INSULATION CLASS** H/F
- CNC INTERFACE** OPTIONAL
- INDUSTRY 4.0** NO
- TYPE OF TORCH** FHT-EX® 105RTX H/M

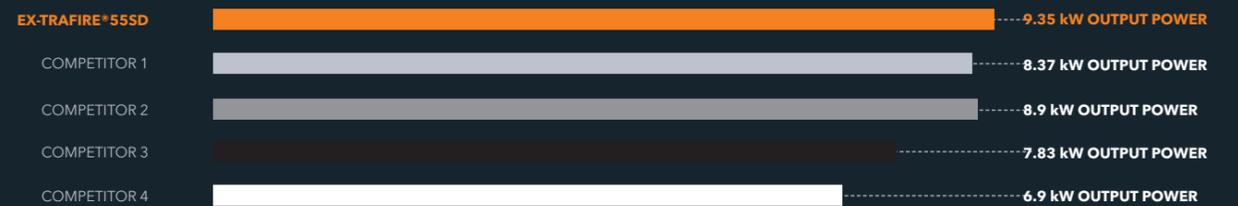


## MILD STEEL CUTTING CAPACITY IN MILLIMETRES



## 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.

# EX-TRAFIRE® 55SD

## ORDERING INFORMATION

Description	Length	Part No.
<b>MANUAL PLASMA CUTTING SYSTEMS</b>		
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
<b>MECHANIZED PLASMA CUTTING SYSTEMS</b>		
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
<b>PLASMA POWER SUPPLY UNITS</b>		
EX-TRAFIRE®55SD/CE/3x400V power supply unit (fully-equipped*)		EX-3-001-001

\* 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 Consumable 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	EX-0-804-001
Filter-EX Air Filter Cartridge	8	EX-0-804-002

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

# EX-TRAFIRE® 55SD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

# EX-TRAFIRE<sup>®</sup> 75SD

## ENGINEERED FOR ENDURANCE PLASMA CUTTING SYSTEM.



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

# 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



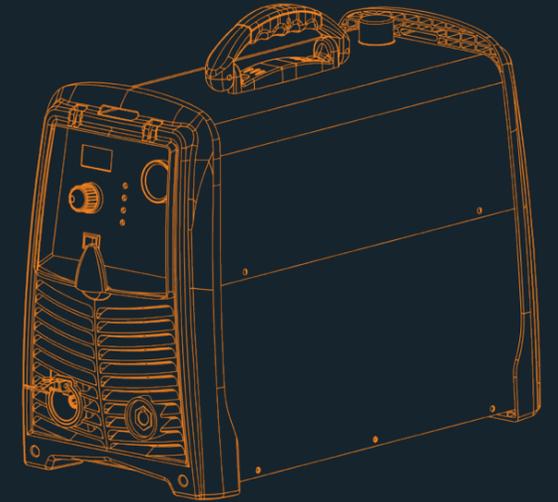
- + Reduced capital outlay
- + Enhanced consumable lifetime
- + Reduced costs of ownership

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

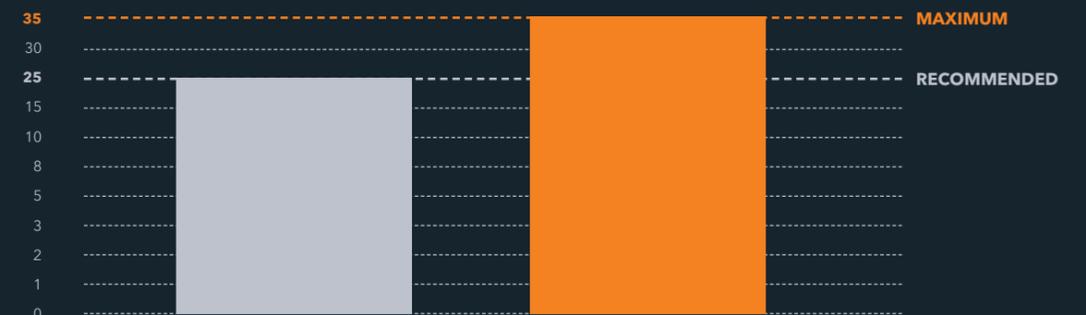
# EX-TRAFIRE® 75SD

## 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
- DIMENSION (l × h × w) mm** 560x400x265
- WEIGHT (kg)** 24
- RECOMMENDED CUTTING CAPACITY (mm)** 25
- SEVERANCE CUTTING CAPACITY (mm)** 35
- PIERCING CUTTING CAPACITY (mm)** 20
- AIR FLOW @ (lpm/bar)** 110 @ 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

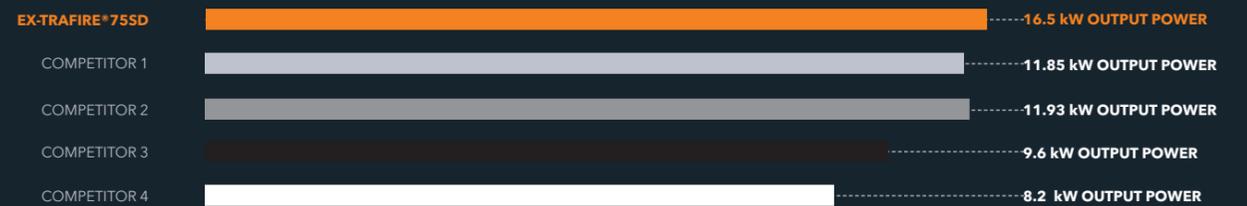


## MILD STEEL CUTTING CAPACITY IN MILLIMETRES



## COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES

EX-TRAFIRE® 75SD IS THE MOST POWERFUL SYSTEM IN IT'S CLASS.



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

# EX-TRAFIRE® 75SD

## ORDERING INFORMATION

Description	Length	Part No.
<b>MANUAL PLASMA CUTTING SYSTEMS</b>		
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
<b>MECHANIZED PLASMA CUTTING SYSTEMS</b>		
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
<b>PLASMA POWER SUPPLY UNITS</b>		
EX-TRAFIRE®75SD/CE/3x400 V power supply unit (fully-equipped*)		EX-4-001-004

\* 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 Consumable Kit 55/65 A	1	EX-3-443-001
Machine Torch Consumable Kit 55/65 A	1	EX-3-444-001
Hand Torch Consumable 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	EX-0-804-001
Filter-EX Air Filter Cartridge	8	EX-0-804-002

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

# EX-TRAFIRE® 75SD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

# EX-TRAFIRE<sup>®</sup>100SD

## BUILT FOR POWER PLASMA CUTTING SYSTEM.

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



# EX-TRAFIRE® 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



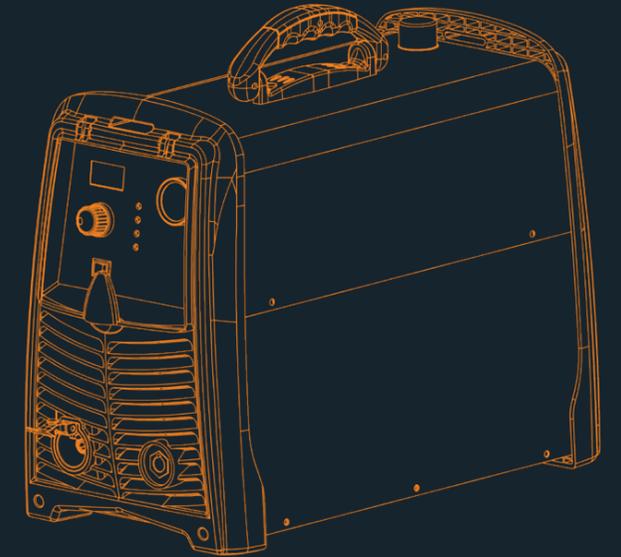
- + Reduced capital outlay
- + Longer consumable lifetime
- + Considerably reduced costs of ownership

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

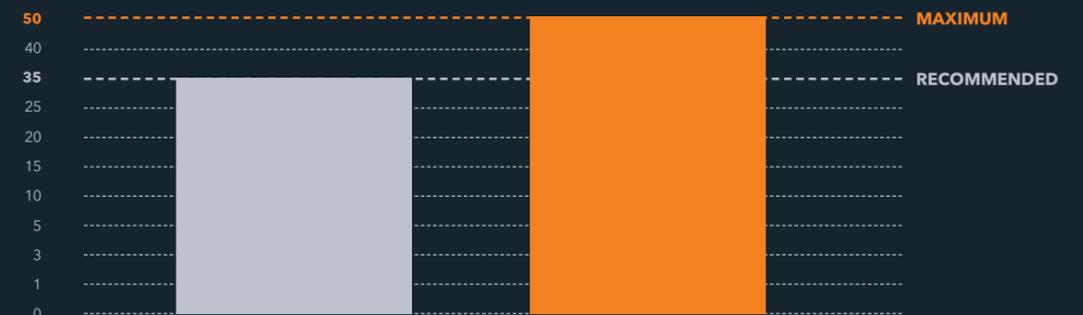
# EX-TRAFIRE® 100SD

## 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 x H x W) mm** 560x400x265
- WEIGHT (KG)** 24
- RECOMMENDED CUTTING CAPACITY (mm)** 35
- SEVERANCE CUTTING CAPACITY (mm)** 50
- PIERCING CUTTING 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

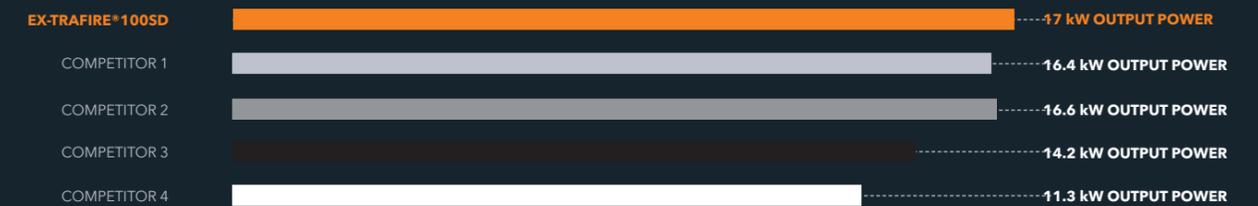


## MILD STEEL CUTTING CAPACITY IN MILLIMETRES



## COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES

EX-TRAFIRE® 100SD IS THE MOST POWERFUL SYSTEM IN IT'S CLASS.



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

# EX-TRAFIRE® 100SD

## ORDERING INFORMATION

Description	Length	Part No.
<b>MANUAL PLASMA CUTTING SYSTEMS</b>		
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
<b>MECHANIZED PLASMA CUTTING SYSTEMS</b>		
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
<b>PLASMA POWER SUPPLY UNITS</b>		
EX-TRAFIRE®100SD/CE/3x400 V power supply unit (fully-equipped*)		EX-5-001-003

\* 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-5-435-001
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 Consumable Kit 55/65 A	1	EX-3-443-001
Hand Torch Consumable Kit 75/85 A	1	EX-4-443-001
Hand Torch Consumable 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	EX-0-804-001
Filter-EX Air Filter Cartridge	8	EX-0-804-002

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

# EX-TRAFIRE® 100SD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

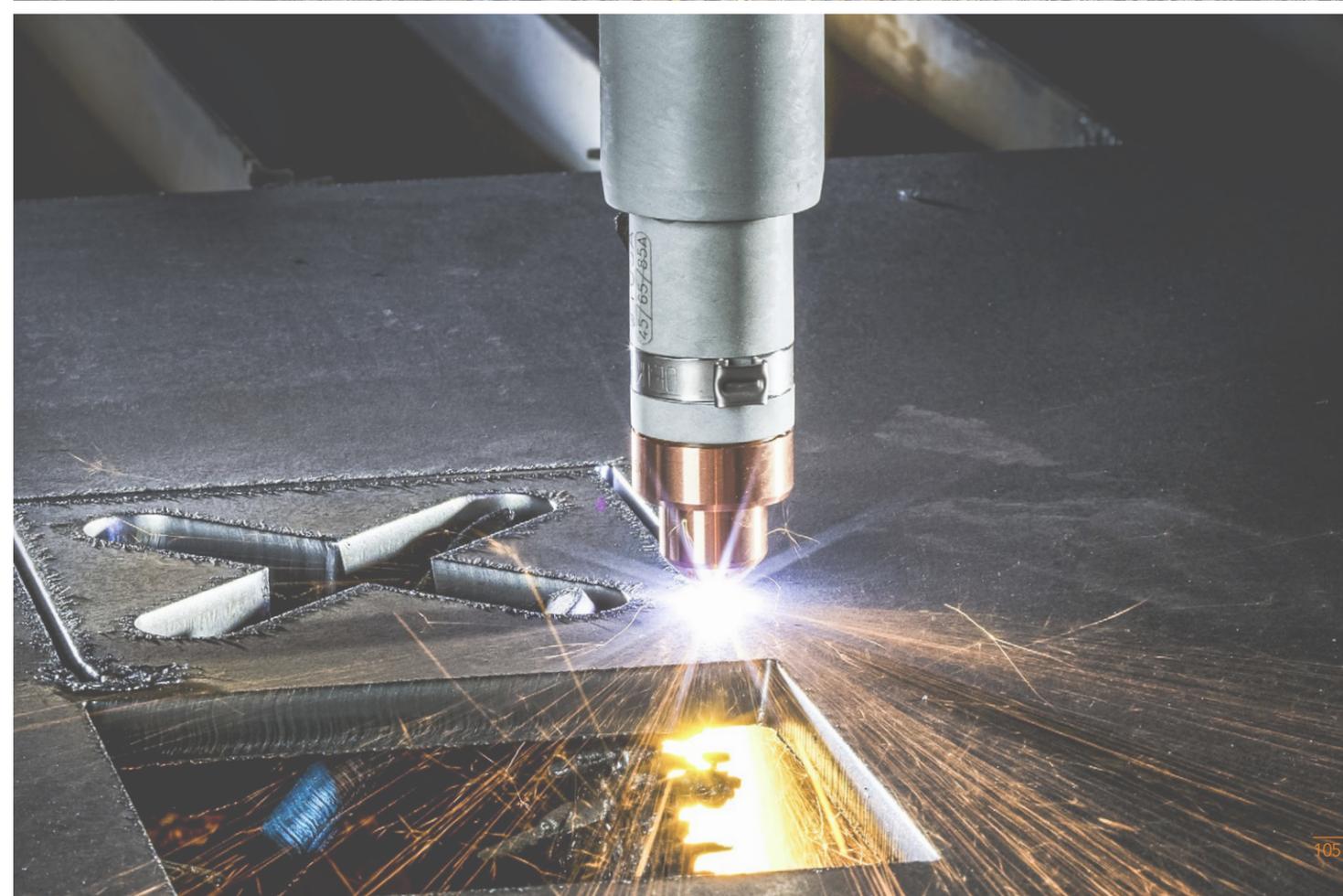
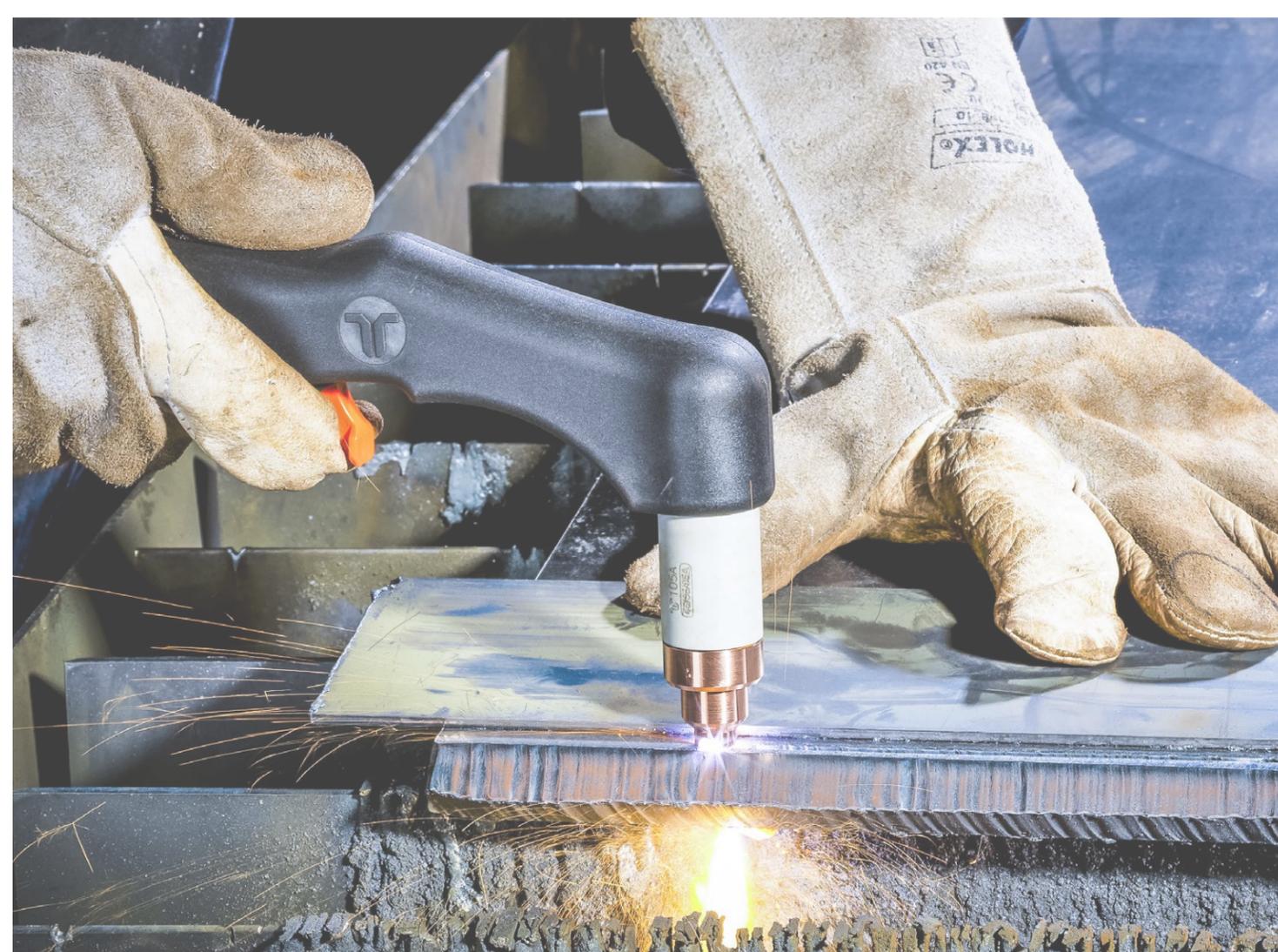
# FHT-EX® 105RTX

## HAND / MACHINE TORCHES AND CONSUMABLES

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



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



# FHT-EX® 105RTXH



**EXTREMELY FLEXIBLE  
AND POWERFUL**



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
- 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

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

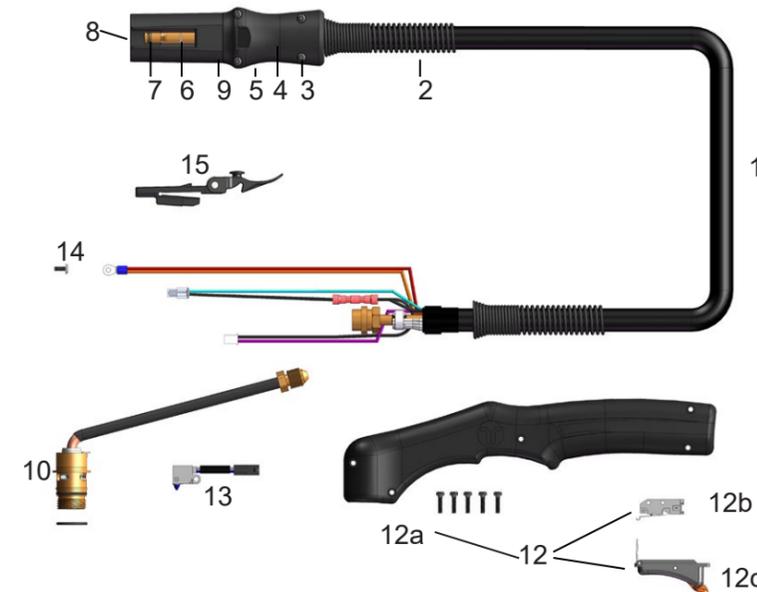
# FHT-EX® 105RTXH

## HAND TORCH ASSEMBLY AND TORCH COMPONENTS



Item	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
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.

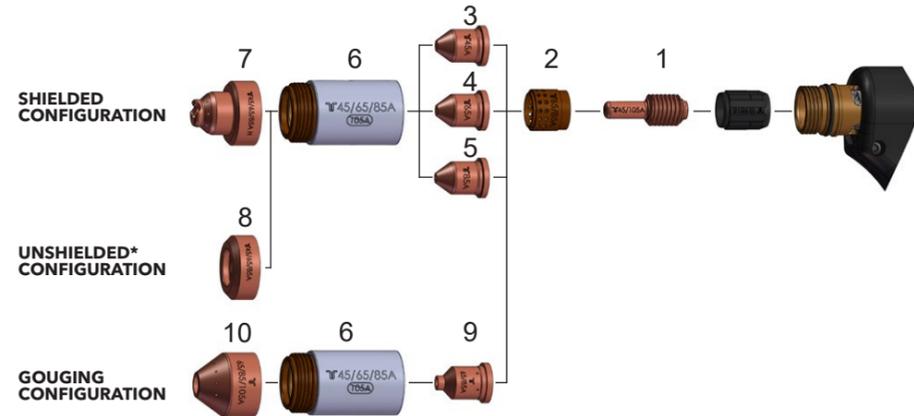


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-005	FHT-EX®105RTXH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-030	Hand Torch Body Replacement Kit	1
1.	EX-5-374-006	FHT-EX®105RTXH Hand Torch Lead Replacement 15m (50')/TCS13	1	11.	EX-5-431-050	Torch Body O-Ring	2
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	15.	EX-0-321-003	Latch w/Key Assembly	1
9.	EX-0-323-001	TCS13 Plug Body	1				

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

# CONSUMABLES

## HAND TORCH STANDARD CONSUMABLES - 45-85 A

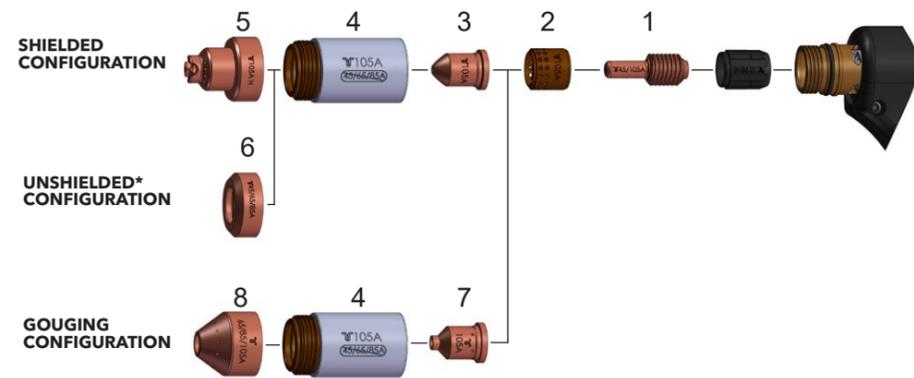


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5pcs package) **	1x5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 45-85 A	1	7.	EX-5-419-030	Shield 45-85 A, Hand	1
3.	EX-5-410-036	Nozzle 45 A (5 pcs package) **	1x5	8.	EX-5-423-031	Deflector 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



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1x5	5.	EX-5-420-030	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

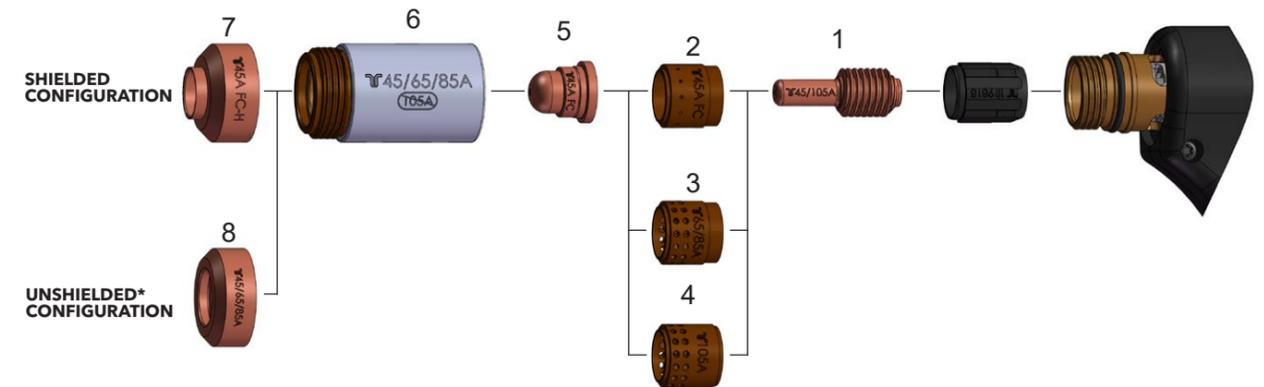
\* IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.

\*\* THIS PART IS AVAILABLE IN 5 PCS SET ONLY

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

# CONSUMABLES

## HAND TORCH CONSUMABLES - SMOOTHLINE



Item	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 45-85 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	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: 15/12/2021. See Revision history for details.



**DESIGNED FOR  
ACCURACY AND DURABILITY**



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 100/1050 A, ideal for continuous industrial 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 max. 20 mm
- Perfectly designed for use with EX-TRAFIRE®55SD, 75SD and 100SD power supplies

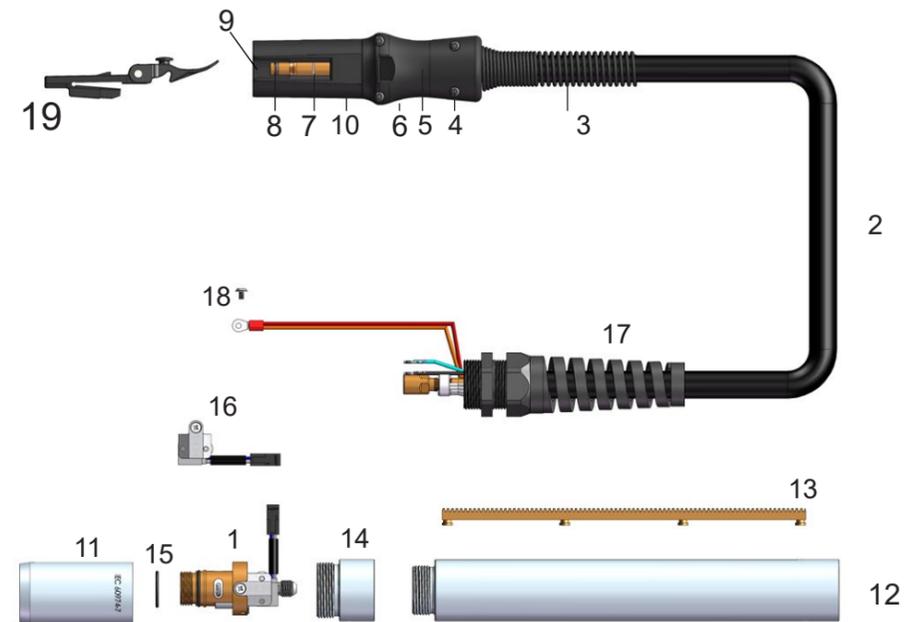
Last update of this page: 09/06/2021. See Revision history for details.

### 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
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.

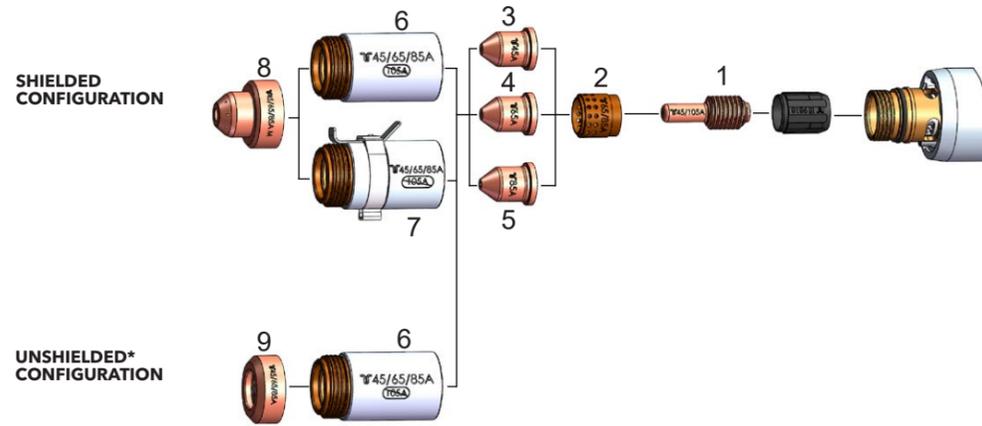


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-303-030	Machine Torch Body Replacement Kit	1	10.	EX-0-323-001	TCS13 Plug Body	1
2.	EX-5-375-001	FHT-EX®105RTXM Machine Torch Lead Replacement 8m (26')/TCS13	1	11.	EX-5-306-030	Torch Mounting Sleeve (incl. 3 screws)	1
2.	EX-5-375-002	FHT-EX®105RTXM Machine Torch Lead Replacement 15m (50')/TCS13	1	12.	EX-5-306-032	Standard Mounting Tube w/o Rack	1
3.	EX-5-318-001	TCS Plug Spring Strain Relief	1	13.	EX-5-306-033	Gear Rack	1
4.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	14.	EX-5-306-031	Standard Mounting Tube Reduction Nut	1
5.	EX-0-325-002	TCS Clam Shell Upper	1	15.	EX-5-431-050	Torch Body O-Ring	1
6.	EX-0-325-001	TCS Clam Shell Lower	1	16.	EX-5-304-030	Cap Sensor Replacement Kit with Screws /Machine Torch	1
7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	17.	EX-5-317-021	Machine Torch Strain Relief	1
8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	18.	EX-5-372-030	Pilot Cable Screw	1
9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1	19.	EX-0-321-003	Latch w/Key Assembly	1

Last update of this page: 21/4/2022. See Revision history for details.

# CONSUMABLES

## MACHINE TORCH STANDARD CONSUMABLES - 45-85 A

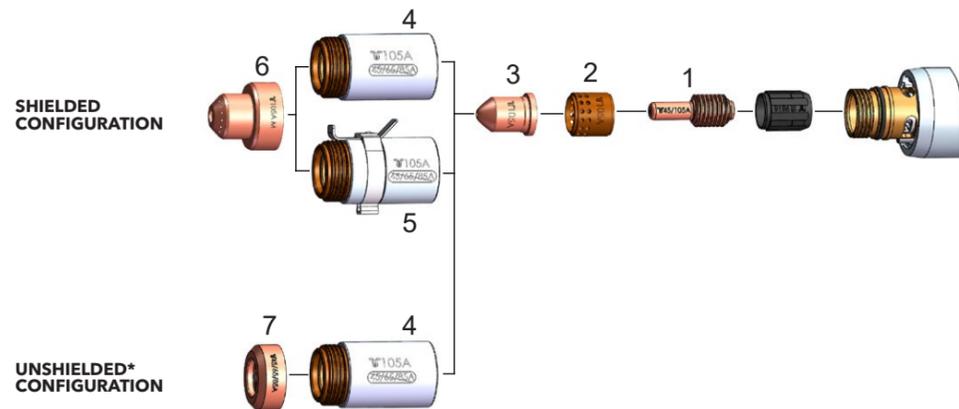


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1x5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 45-85 A	1	7.	EX-5-415-031	Retaining Cap 45-85 A, IHS Tab	1
3.	EX-5-410-036	Nozzle 45 A	5	8.	EX-5-421-031	Shield 45-85 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



Item	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.	EX-5-415-032	Retaining Cap 100/105 A	1				

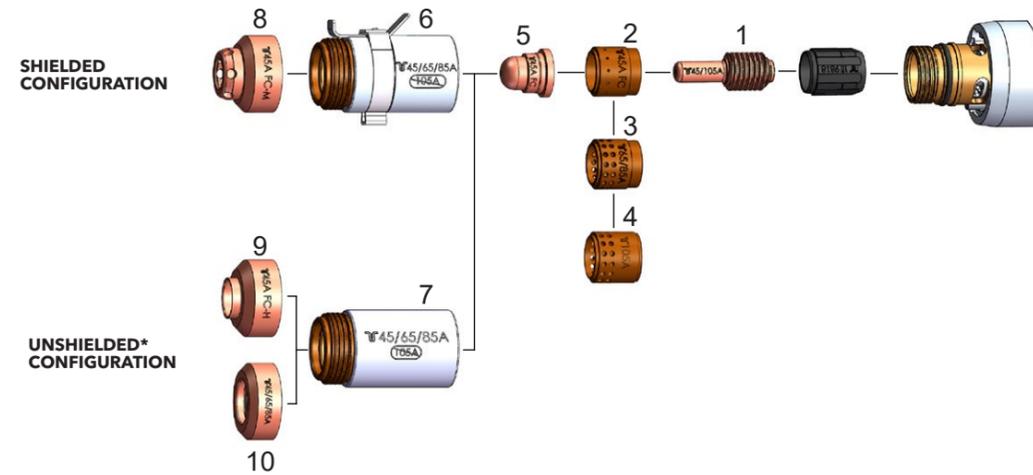
\* IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.

\*\* THIS PART IS AVAILABLE IN 5 PCS SET ONLY

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

# CONSUMABLES

## MACHINE TORCH CONSUMABLES - SMOOTHLINE



Item	Part No.	Description	Pcs	Item	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 45-85 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

Last update of this page: 15/12/2021. See Revision history for details.

# ACCESSORIES



Item	Part No.	Ref. No.	Description	Pcs	Item	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/105TH/45TTH	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1					

## 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

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

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

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

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

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

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