

EX-TRAFIRE® HD LINE

EX-TRAFIRE® SD LINE

EX-TRAFIRE® PLASMA SYSTEMS

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Training and education



General fabrication



Craft, hobby and non-industrial



Structural



Automotive and transportation



Energy



Steel mills and steel service centers



Shipyards and Offshore



Heavy fabrication

EX-TRAFIRE^{HD}

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.



EX-TRAFIRE® HD LINE OVERVIEW

Features / System	EX-TRAFIRE®45HD		EX-TRAFIRE®65HD
	Single phase	Three phase	Three phase
Output current [I2]	10 - 45 A	10 - 45 A	10 - 65 A
Input voltage [I2]	1 × 120/230 V AC ± 15 %	3 × 400 V AC ± 15 %	3 × 400 V AC + 15 %
Duty cycle	40 % @ 40 A	80 % @ 45 A	100% @ 65 A
I1max	16.5 A	16.2 A	24.5 A
I1eff	14.8 A	14.4 A	24.5 A
Weight [kg]	12.7		20.4
Dimensions (L × H × W) [mm]	470 × 229 × 177		560 × 400 × 260
Industry (IOT) 4.0	Yes		Yes
Handheld / Mechanised Application	Yes / Yes		Yes / Yes
Application modes	standard cutting, grid cutting, gouging, marking		
Torch	FHT-EX®45TTH/M		FHT-EX®105TTH/M
Max. gas flow rate for cutting	90 l/min. @ 4.8 bar		87 l/min. @ 5.2 bar
Recommended Cut (MS / SS / AL) [mm] *	10 / 6 / 10	10 / 6 / 10	18 / 10 / 10
Maximum Cut (MS / SS / AL) [mm] *	25 / 20 / 20	25 / 20 / 20	25 / 20 / 20
Piercing Capacity (MS / SS / AL) [mm] *	10 / 10 / 10	10 / 10 / 10	18 / 12 / 12
Ambient temperature	-10°C to +40°C		
Gas type	Compressed air		
Gas quality Air specification	Recommended Air quality: ISO 8573-1 Class 1.2.2.		
	Air max. particle size: 0.1 microns, class 1 ref. to ISO 8573,		
	Air max. oil: 0.1 mg/m ³ , class 2 ref.: ISO 8573,		
Nitrogen	Air max. dew point: +3° C, class 4 ref. to ISO 8573		
	Purity min. 99.3 %		
Gas quality	Clean, moisture-free, without oil		

(*) Recommendation based on cutting starting from the edge (up to)

(**) Only with built-in Marking Upgrade Kit

Cutting system content:

Power supply including TCS Latch with Key assembly and Input power cable (without plug)
 Work lead with clamp (4 m)
 Hand or Machine Torch including first fit consumable kit
 Starter kit (of consumables)
 Operator manual

Separate power supply content

Power supply including TCS Latch with Key assembly and Input power cable (without plug)
 Work lead with clamp (4 m)
 Operator manual

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EX-TRAFIRE®85HD	EX-TRAFIRE®105HD	EX-TRAFIRE®125HD
Three phase	Three phase	Three phase
20 (10**) - 85 A	20 (10**) -105 A	30 (10**) -125 A
3 × 400 VAC +15 %	3 × 400 VAC ± 15 %	3 × 400 VAC ± 15 %
100% @ 85 A	100% @ 105 A	100% @ 125 A
30.1 A	39 A	48.9 A
30.1 A	39 A	48.9 A
24.4	35.4	37.7
469.9 × 228.6 × 177	613 × 515 × 302	610 × 310 × 535
Yes	Yes	Yes
Yes / Yes	Yes / Yes	Yes / Yes
standard cutting, grid cutting, gouging, marking		
FHT-EX®105TTH/M	FHT-EX®105TTH/M	FHT-EX®125TTH/M
101 l/min. @ 5.2 bar	156 l/min. @ 4.8 bar	175 l/min. @ 5.2 bar
20 / 12 / 12	20 / 16 / 16	25 / 20 / 20
30 / 20 / 16	40 / 32 / 32	40 / 40 / 40
20 / 10 / 10	20 / 20 / 20	25 / 20 / 25

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45HD

EX-TRAFIRE[®] 45HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.



CUTTING
45 A
CURRENT

MATERIAL
25 mm
THICKNESS

LIGHTWEIGHT
12.7 kg



Training
and education



General
fabrication



Craft, hobby
and non-industrial



Structural

EX-TRAFIRE® 45HD

SPECIFICATIONS

	SINGLE PHASE		THREE PHASE
Output current	10-25 A @ 120 VAC	10-45 A @ 230 VAC	10-45 A
Modes	standard 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 ⁽¹⁾		
Piercing capacity [mm]	10 ⁽¹⁾		
Recommended cutting capacity [mm]	10 ⁽¹⁾		
Plasma gas	compressed air / nitrogen / argon (marking)		
Air flow (cutting) [lpm/bar]	90/4.8		
CNC interface / Serial (RS/CAN bus)	Built - In / optional		
Preadjusted voltage divider ratio	50:1		
Input voltage	120 VAC ± 15 %	230 VAC ± 15 %	3 × 400 VAC ± 15 % (CE)
Frequency [Hz]	50/60		
Dimensions (L×H×W) [mm]	470 × 229 × 177		
Weight [kg]	12.7		
Certification depending on region	CE		
Maximum input pressure [bar/psi]	10/145		
Protection level	IP23S		
Insulation class	F		
Type of hand torch	FHT-EX®45TTH		
Type of machine torch	FHT-EX®45TTM		

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



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.



CUTTING



GRID CUTTING



MARKING



GOUGING

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For product availability, please check with your local THERMACUT® dealer.

EX-TRAFIRE® 45HD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS (STANDARD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTH / H Starter Kit	5 m / 16.4'	EX-2-010-031
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTH / H Starter Kit	8 m / 26.2'	EX-2-010-032
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTH / H Starter Kit	15 m / 49.2'	EX-2-010-033
EX-TRAFIRE® 45HD/CE/1×110/230 V / Torch FHT-EX® 45TTH / H Starter Kit	5 m / 16.4'	EX-2-010-041
EX-TRAFIRE® 45HD/CE/1×110/230 V / Torch FHT-EX® 45TTH / H Starter Kit	8 m / 26.2'	EX-2-010-042
EX-TRAFIRE® 45HD/CE/1×110/230 V / Torch FHT-EX® 45TTH / H Starter Kit	15 m / 49.2'	EX-2-010-043
EX-TRAFIRE® 45HD/CE/1×120/240 V / Torch FHT-EX® 45TTH / H Starter Kit/Including Transport Case	5 m / 16.4'	EX-2-010-047
EX-TRAFIRE® 45HD/CE/1×120/240 V / Torch FHT-EX® 45TTH / H Starter Kit/Including Transport Case	8 m / 26.2'	EX-2-010-048
EX-TRAFIRE® 45HD/CE/1×120/240 V / Torch FHT-EX® 45TTH / H Starter Kit/Incl. Transport Case	15 m / 49.2'	EX-2-010-049
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTH / H Starter Kit/Including Transport Case	5 m / 16.4'	EX-2-010-050
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTH / H Starter Kit/Including Transport Case	8 m / 26.2'	EX-2-010-051
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTH / H Starter Kit/Including Transport Case	15 m / 49.2'	EX-2-010-052
MECHANIZED PLASMA CUTTING SYSTEMS (FULLY EQUIPPED)		
<i>Fully-equipped = CNC interface & Serial interfaceport (RS/CAN bus)</i>		
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTM / M Starter Kit	5 m / 16.4'	EX-2-011-031
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTM / M Starter Kit	8 m / 26.2'	EX-2-011-032
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTM / M Starter Kit	15 m / 49.2'	EX-2-011-033
EX-TRAFIRE® 45HD/CE/1×110/230 V / Torch FHT-EX® 45TTM / M Starter Kit	5 m / 16.4'	EX-2-011-041
EX-TRAFIRE® 45HD/CE/1×110/230 V / Torch FHT-EX® 45TTM / M Starter Kit	8 m / 26.2'	EX-2-011-042
EX-TRAFIRE® 45HD/CE/1×110/230 V / Torch FHT-EX® 45TTM / M Starter Kit	15 m / 49.2'	EX-2-011-043
MECHANIZED PLASMA CUTTING SYSTEMS (STANDARD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE® 45HD/CE/1×110/230 V / Torch FHT-EX® 45TTM / M Starter Kit	5 m / 16.4'	EX-2-013-001
EX-TRAFIRE® 45HD/CE/1×110/230 V / Torch FHT-EX® 45TTM / M Starter Kit	8 m / 26.2'	EX-2-013-002
EX-TRAFIRE® 45HD/CE/1×110/230 V / Torch FHT-EX® 45TTM / M Starter Kit	15 m / 49.2'	EX-2-013-003
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTM / M Starter Kit	5 m / 16.4'	EX-2-013-004
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTM / M Starter Kit	8 m / 26.2'	EX-2-013-005
EX-TRAFIRE® 45HD/CE/3×400 V / Torch FHT-EX® 45TTM / M Starter Kit	15 m / 49.2'	EX-2-013-006
PLASMA CUTTING UNITS (FULLY EQUIPPED)		
<i>Fully-equipped = CNC interface & Serial interfaceport (RS/CAN bus)</i>		
EX-TRAFIRE® 45HD/CE/1×110/230 V power supply unit		EX-2-001-001
EX-TRAFIRE® 45HD/CE/3×400 V power supply unit		EX-2-001-002
PLASMA CUTTING UNITS (STD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE® 45HD/CE/1×110/230 V power supply unit		EX-2-003-001
EX-TRAFIRE® 45HD/CE/3×400 V power supply unit		EX-2-003-003

AVAILABLE BULK PACKS

Information about available bulk packs on the end of Torch Consumables section

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accessories on the last pages of this section

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For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 45TT



MODERN AND CAPABLE TORCH



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 32 A (U1 230VAC), ideal for continuous use
- Optimal for plate thicknesses of up to 25 mm, thanks to 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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FHT-EX® 45TTH

HAND TORCH ASSEMBLY



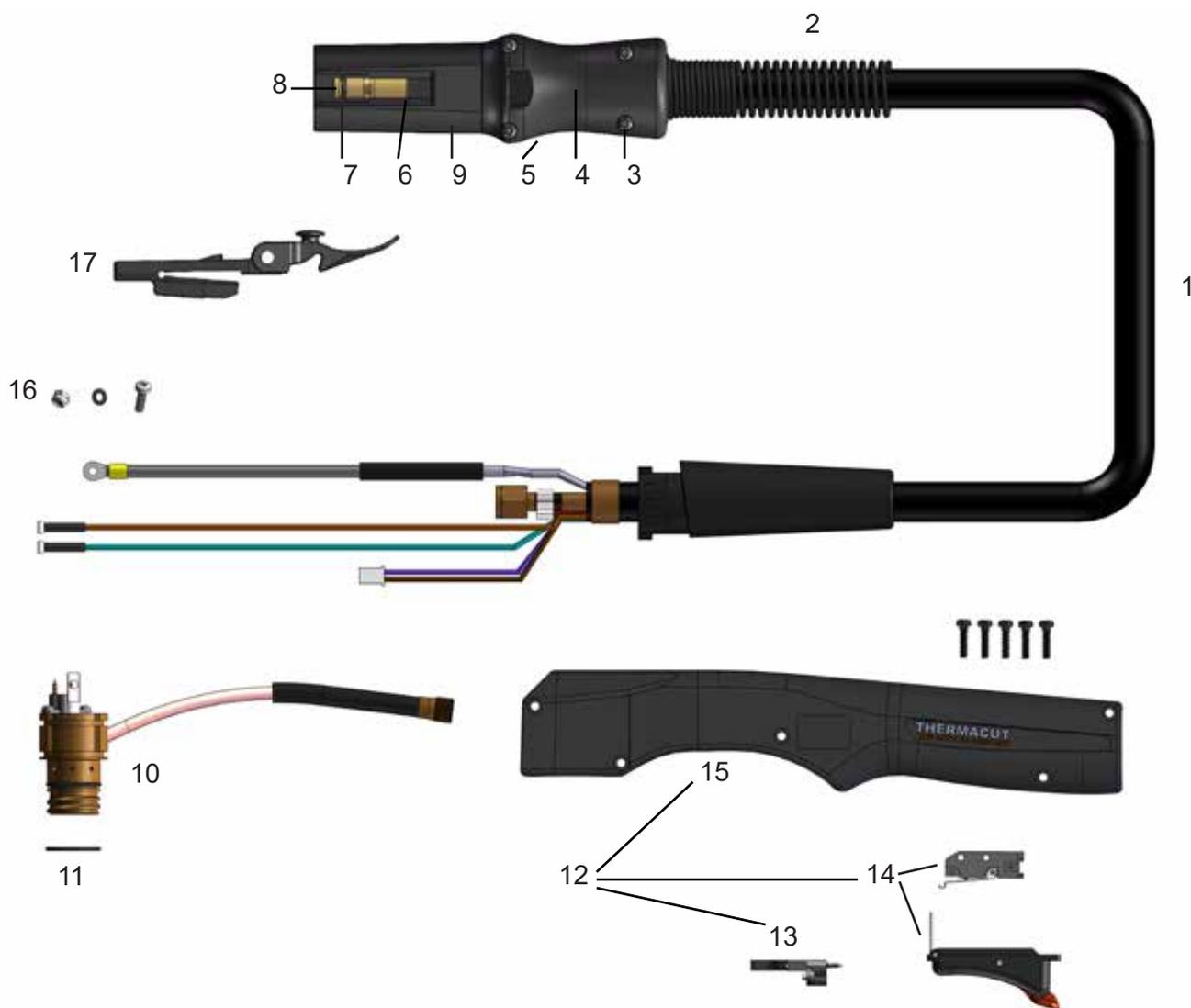
Item	Part No.	Description	Pcs
1.	EX-2-133-001	FHT-EX45®TTH DEMO Hand Torch Assembly w/consumables/TCS13	1
	EX-2-101-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-103-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-106-001	FHT-EX45®TTH Hand Torch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

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

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FHT-EX® 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	a	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



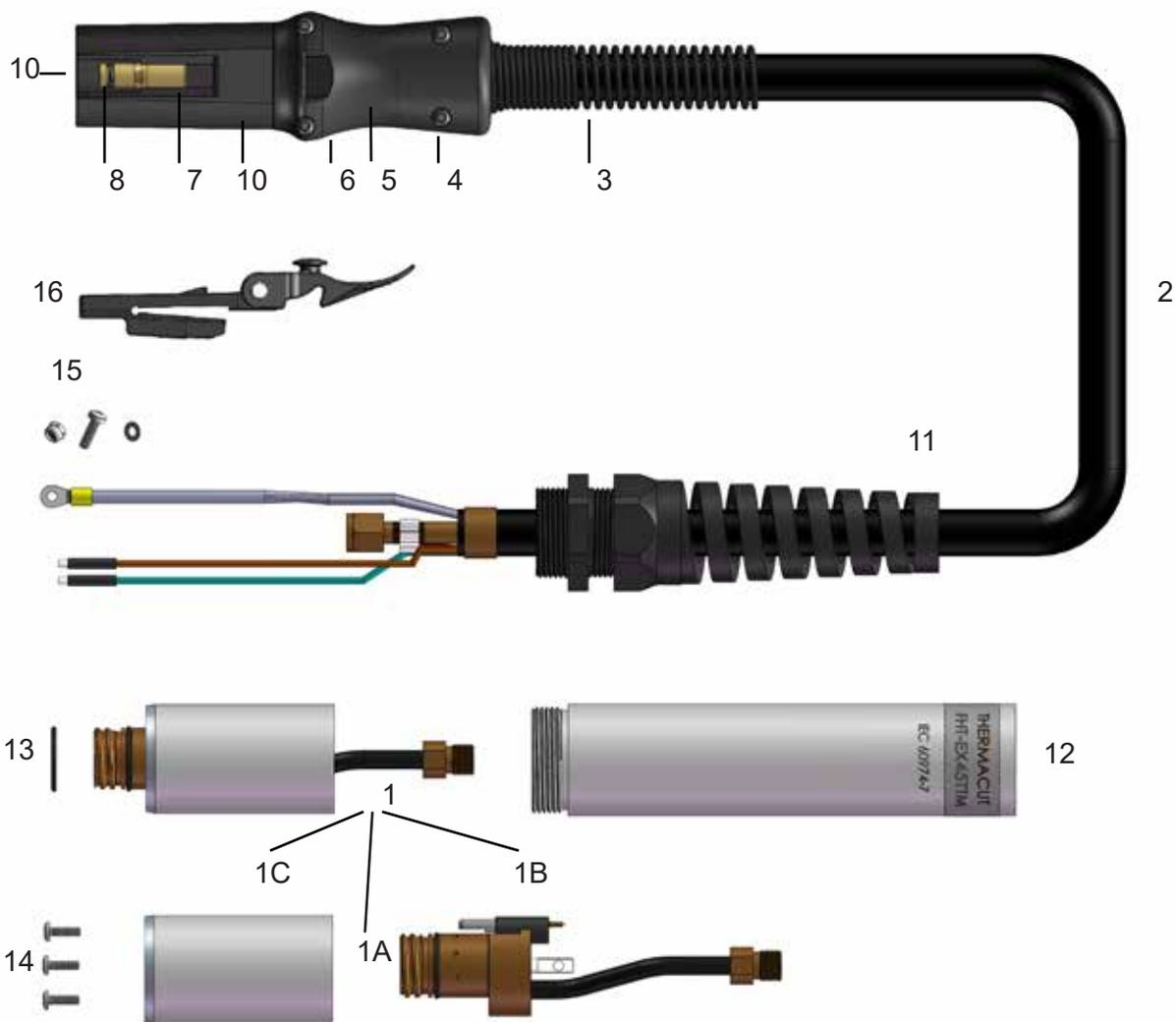
Item	Part No.	Description	Pcs
1.	EX-2-233-001	FHT-EX®45TTM DEMO Machine Torch Assembly w/consumables/TCS13	1
	EX-2-202-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/5 m Lead/TCS13	1
	EX-2-204-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/8 m Lead/TCS13	1
	EX-2-207-001	FHT-EX®45TTM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

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FHT-EX® 45TTM

MACHINE TORCH COMPONENTS



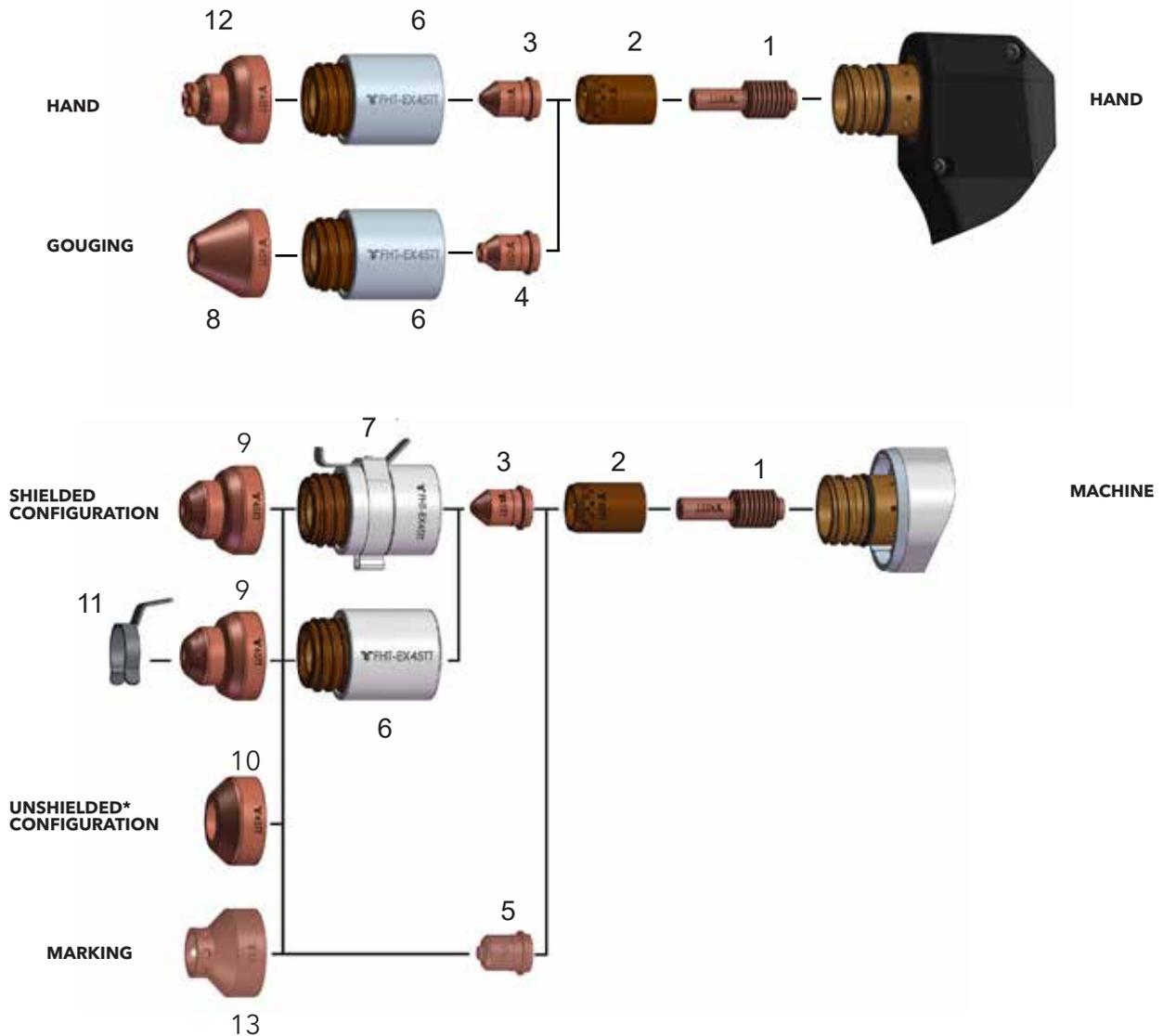
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-2-301-001	Machine Torch Body Assembly FHT-EX®45TTM	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-2-301-002	Machine Torch Body FHT-EX®45TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-001	Cap Sensor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

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CONSUMABLES

HAND / MACHINE TORCH CONSUMABLES



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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CONSUMABLES

AVAILABLE BULK PACKS



Part No.	Description	Std. package QTY
EX-2-434-201	Bulk Pack-Electrode - 25pcs	1×25



Part No.	Description	Std. package QTY
EX-2-435-201	Bulk Pack-Nozzle - 25pcs	1×25



Part No.	Description	Std. package QTY
EX-2-436-201	Bulk Pack - Hand (Contact) Shield - 18pcs	1×18
EX-2-437-201	Bulk Pack - Machine Shield - 18pcs	1×18

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CONSUMABLES

AVAILABLE STARTER KIT



CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-2-432-001	Starter Kit 45A for Hand Torch FHT-EX®45TTH	1
EX-2-433-001	Starter Kit 45A for Machine Torch FHT-EX®45TTM	1

AVAILABLE TORCH CONSUMABLE KITS FOR ASSEMBLING



Item	Part No.	Description	Std. package QTY
1.	EX-2-439-001	H45A Consumable kit for assembling of FHT-EX®45TTH torch	1
2.	EX-2-439-002	M45A Consumable kit for assembling of FHT-EX®45TTM torch	1

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ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
6.	EX-5-801-002	EX-5-801-002	Circle Cutting Guide Kit for FHT-EX®105RTXH/FHT-EX®105TTH/FHT-EX®45TTH	1
7.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105TTH/45TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD 10.	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD OD 11.	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD OD 12.	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD 13.	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD OD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm²/EU-plug 35-70 mm²	1
16.	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm²/EU-plug 10-25 mm²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
OD Only ON DEMAND
***** Items for use with Filter EX

Last update of this page: 10/01/2025. See Revision history for details.



EX-TRAFIRE 65HD

EX-TRAFIRE® 65HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.



CUTTING
65 A
CURRENT

MATERIAL
30 mm
THICKNESS

VARIOUS
OPERATION
MODES



Automotive
and transportation



Energy



Structural



Education
and Training



Craft, hobby and
non industrial users

EX-TRAFIRE® 65HD

SPECIFICATIONS

Output current [A]	10 -65
Modes	standard cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 65 A
Rated output voltage [VDC]	170
Severance cutting capacity [mm]	30 ⁽¹⁾
Piercing capacity [mm]	18 ⁽¹⁾
Recommended cutting capacity [mm]	18 ⁽¹⁾
Plasma gas	compressed air / nitrogen / argon
Max. Air flow (cutting) [lpm/bar]	195/5.2
CNC interface / Serial (RS/CAN bus)	Built - In / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 × 400 ± 15 % ⁽²⁾
Frequency [Hz]	50/60
Dimensions (L × H × W) [mm]	560 × 400 × 260
Weight [kg]	20.4
Certification depending on region	CE
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®105TTH
Type of machine torch	FHT-EX®105TTM

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

⁽²⁾ 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: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

EX-TRAFIRE® 65HD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS (STANDARD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE®65HD/CE/3x400 V / Torch FHT-EX®105TTH /Starter Kit	5 m / 16.4'	EX-3-010-051
EX-TRAFIRE®65HD/CE/3x400 V / Torch FHT-EX®105TTH /Starter Kit	8 m / 26.2'	EX-3-010-052
EX-TRAFIRE®65HD/CE/3x400 V / Torch FHT-EX®105TTH /Starter Kit	15 m / 49.2'	EX-3-010-053
MECHANIZED PLASMA CUTTING SYSTEMS (FULLY EQUIPPED)		
<i>Fully-equipped = CNC interface & Serial interfaceport (RS/CAN bus)</i>		
EX-TRAFIRE®65HD/CE/3x400 V / Torch FHT-EX®105TTM STD-NR /Starter Kit	8 m / 26.2'	EX-3-011-014
EX-TRAFIRE®65HD/CE/3x400 V / Torch FHT-EX®105TTM STD-NR /Starter Kit	15 m / 49.2'	EX-3-011-015
EX-TRAFIRE®65HD CE 3x400 V / Torch FHT-EX®105TTSM /Starter Kit	8 m / 26.2'	EX-3-012-006
EX-TRAFIRE®65HD CE 3x400 V / Torch FHT-EX®105TTSM /Starter Kit	15 m / 49.2'	EX-3-012-007
MECHANIZED PLASMA CUTTING SYSTEMS (STANDARD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE®65HD/CE/3x400 V / Torch FHT-EX®105TTM STD-NR /Starter Kit	8 m / 26.2'	EX-3-013-002
EX-TRAFIRE®65HD/CE/3x400 V / Torch FHT-EX®105TTM STD-NR /Starter Kit	15 m / 49.2'	EX-3-013-003
EX-TRAFIRE®65HD CE 3x400 V / Torch FHT-EX®105TTSM /Starter Kit	8 m / 26.2'	EX-3-014-002
EX-TRAFIRE®65HD CE 3x400 V / Torch FHT-EX®105TTSM /Starter Kit	15 m / 49.2'	EX-3-014-003
PLASMA CUTTING UNITS (FULLY EQUIPPED)		
<i>Fully-equipped = CNC interface & Serial interfaceport (RS/CAN bus)</i>		
EX-TRAFIRE®65HD/CE/3x400 V power supply unit		EX-3-001-002
PLASMA CUTTING UNITS (STD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE®65HD/CE/3x400 V power supply unit		EX-3-003-001

AVAILABLE BULK PACKS

Information about available bulk packs on the end of Torch Consumables section

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accessories on the last pages of this section

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 105TT



THE ALL-NEW CUTTING TORCH

+ HANDHELD
+ MECHANIZED



The high-performing FHT-EX®105TT H/M hand and machine torches meet the tough demands of continuous operations. Designed for optimal use with 105HD power supply for cutting, gouging, grid-cutting and marking, while allowing cut thickness up to 50 mm with greater precision and speed.

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 65 A, ideal for continuous use
- Optimal for plate thicknesses of up to 30 mm, thanks to high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing 18 mm
- Perfectly designed for use with EX-TRAFIRE®105HD power supplies

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

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
a2.	EX-0-321-003	Latch with Key Assembly	1

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

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For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 105TTH

HAND TORCH COMPONENTS



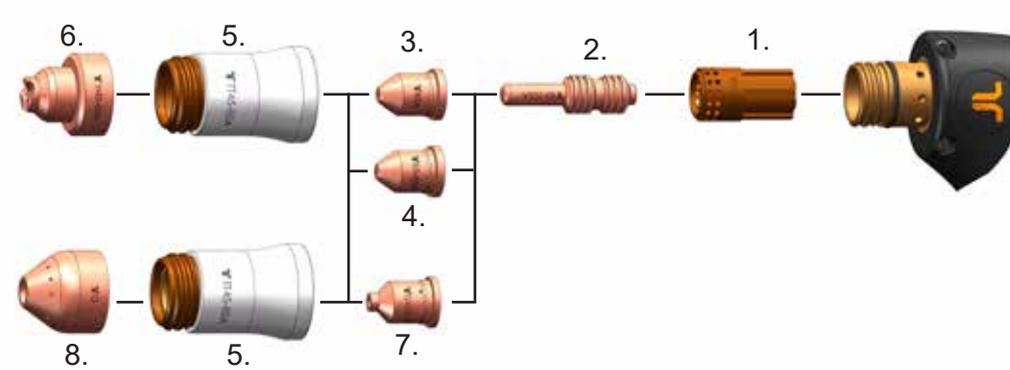
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-010	FHT-EX®105TTH Hand Torch Lead Replacement 5m (16.5')/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-5-374-011	FHT-EX®105TTH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-001	Hand Torch Body Repl. Kit (incl. Torch body & Cap sensor)	1
1.	EX-5-374-012	FHT-EX®105TTH Hand Torch Lead Replacement 15m (50')/TCS13	1	11.	EX-5-431-050	O-Ring (fitted on the torch body) - 2 pcs	2
1.	EX-5-374-013	FHT-EX®105TTH Hand Torch Lead Replacement 23m (75')/TCS13	1	12.	EX-5-314-001	Hand Torch Handle Replacement Kit	1
2.	EX-5-318-001	TCS Plug Spring Strain Relief	1	13.	EX-5-305-002	Cap-sensor Replacement Kit with Screws/ Hand Torch	1
3.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	14.	EX-5-313-031	Safety Trigger	1
4.	EX-0-325-002	TCS Clam Shell Upper	1	15.	EX-5-308-001	Hand Torch Handle with Screws	1
5.	EX-0-325-001	TCS Clam Shell Lower	1	16.	EX-5-372-010	Cathode mounting kit	1
6.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	a 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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For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

HAND TORCH CONSUMABLES - 45-65 A

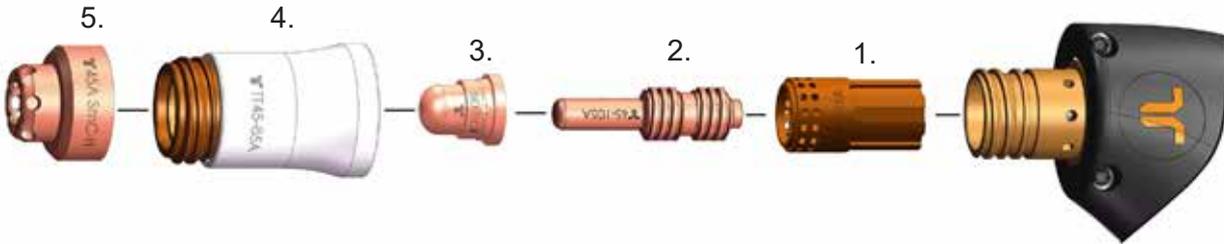


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1	5.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-422-031	Hand Shield 45-85 A	1
3.	EX-5-410-051	Nozzle 45 A	5	7.	EX-5-440-051	Gouging Nozzle 65-85 A	5
4.	EX-5-410-053	Nozzle 65-85 A	5	8.	EX-5-440-050	Gouging Shield	1

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 For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

HAND TORCH CONSUMABLES - SMOOTHLINE

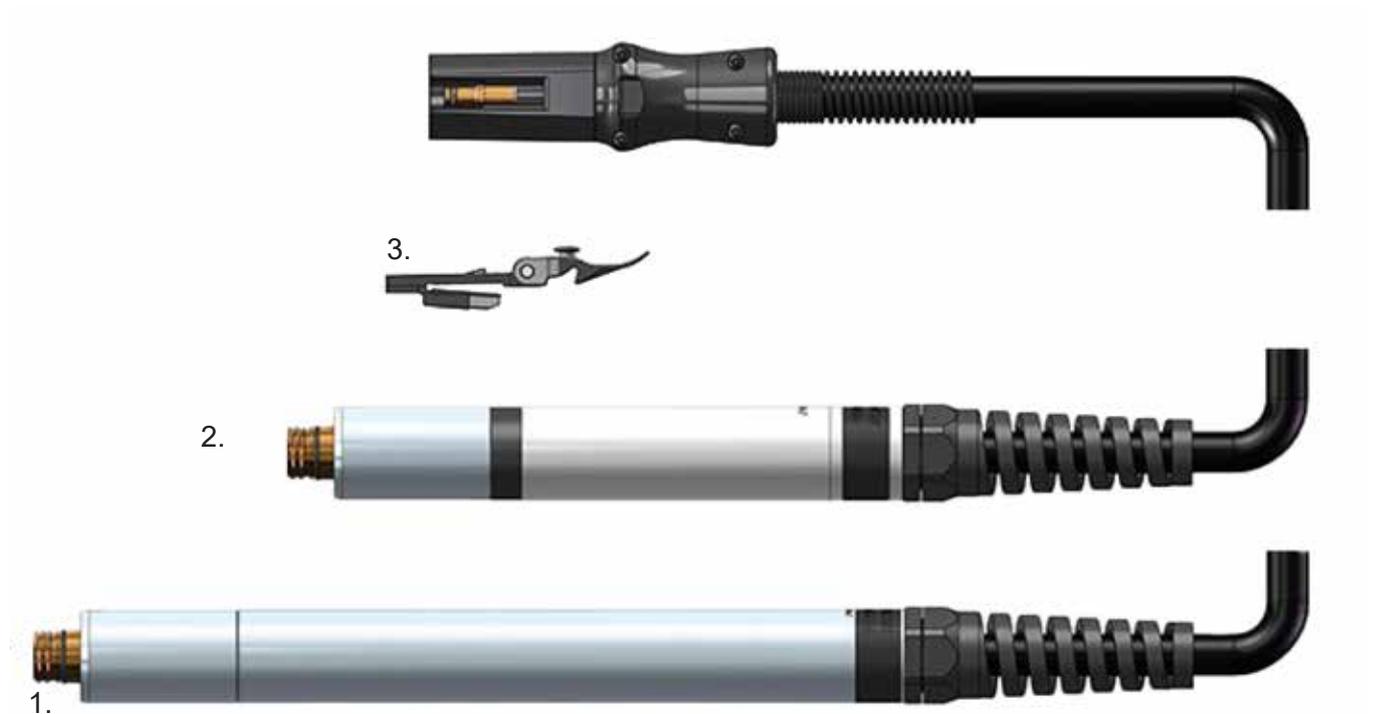


Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5
3.	EX-5-410-050	Nozzle Smoothline	5
4.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
5.	EX-5-420-050	Hand Shield 40/45 A Smoothline	1

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FHT-EX® 105TTM

MACHINE TORCH ASSEMBLY



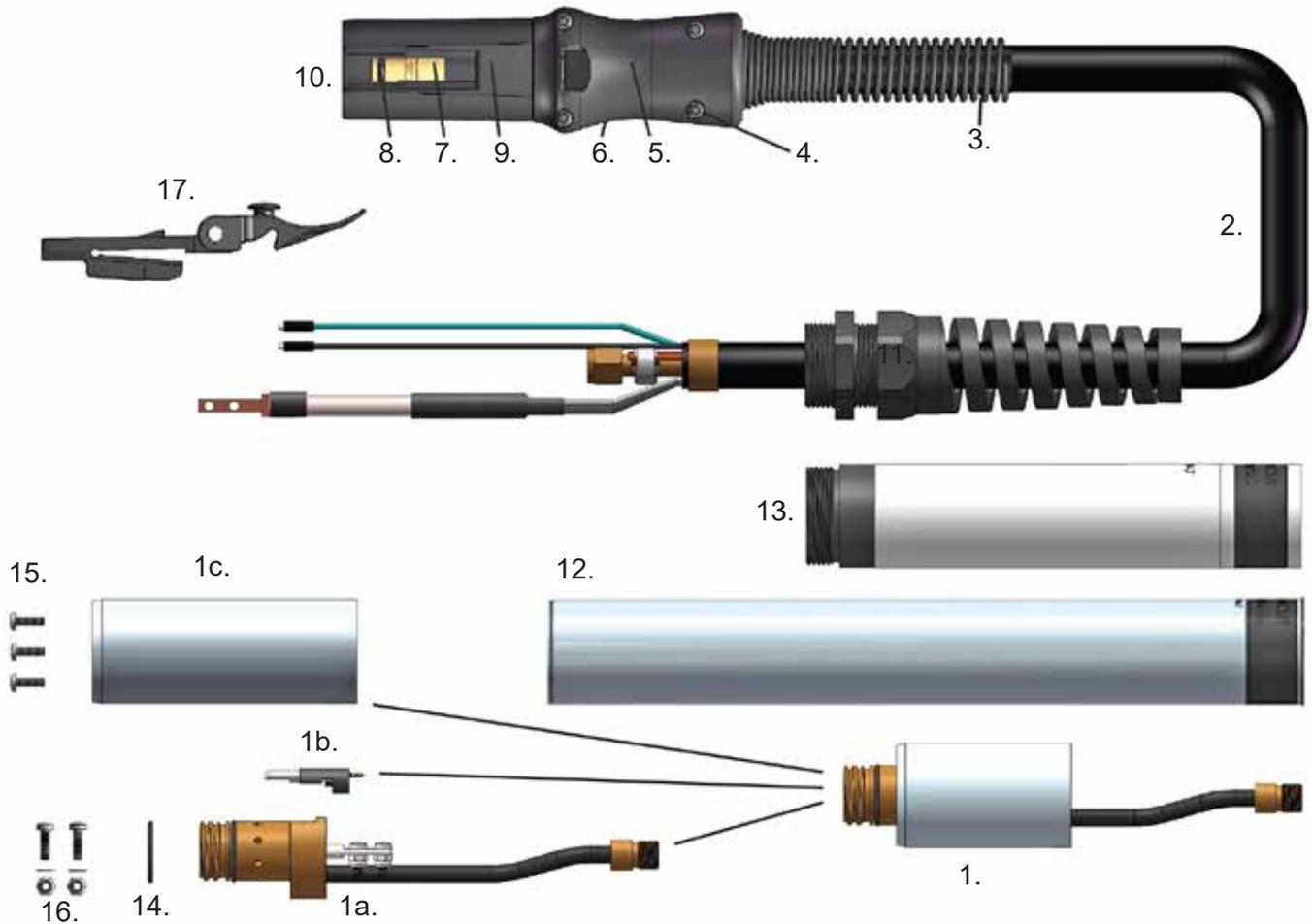
Item	Part No.	Description	Pcs
1.	EX-5-202-031	FHT-EX®105TTM M Torch Assy w/o consumables w/5m (16.5')Lead/ TCS13	1
1.	EX-5-204-031	FHT-EX®105TTM M Torch Assy w/o consumables w/8m (26') Lead/ TCS13	1
1.	EX-5-207-032	FHT-EX®105TTM M Torch Assy w/o consumables w/15m (50') Lead/ TCS13	1
1.	EX-5-210-034	FHT-EX®105TTM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

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

Last update of this page: 10/01/2025. See Revision history for details.
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FHT-EX® 105TTM

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	6.	EX-0-325-001	TCS Clam Shell Lower	1
1a.	EX-5-303-010	Machine Torch Body FHT-EX®105TTM	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1b.	EX-5-304-001	Cap Sensor Replacement Kit with Screws/Machine Torch	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1c.	EX-5-306-002	Torch Mounting Sleeve (incl. 3 screws)	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
2.	EX-5-375-010	FHT-EX®105TTM Machine Torch Lead Replacement 5m (16.5')/TCS13	1	10.	EX-0-323-001	TCS13 Plug Body	1
2.	EX-5-375-011	FHT-EX®105TTM Machine Torch Lead Replacement 8m (26')/TCS13	1	11.	EX-5-317-021	Machine Torch Strain Relief	1
2.	EX-5-375-012	FHT-EX®105TTM Machine Torch Lead Replacement 15m (50')/TCS13	1	12.	EX-5-306-011	Standard Mounting Tube *	1
2.	EX-5-375-013	FHT-EX®105TTM Machine Torch Lead Replacement 23m (75')/TCS13	1	13.	EX-5-306-009	Short Mounting Tube	1
3.	EX-5-318-001	TCS Plug Spring Strain Relief	1	14.	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	15.	EX-5-372-005	Torch Mounting Screws Kit (incl. 3 screws)	1
5.	EX-0-325-002	TCS Clam Shell Upper	1	16.	EX-5-372-010	Cathode Mounting Kit	1
				a 17.	EX-0-321-003	Latch w/Key Assembly	1

* Items EX-5-306-003 Standard Mounting Tube and EX-5-306-005 Standard Mounting Tube Reduction Nut had been replaced with this item (EX-5-306-011) and they are no longer available

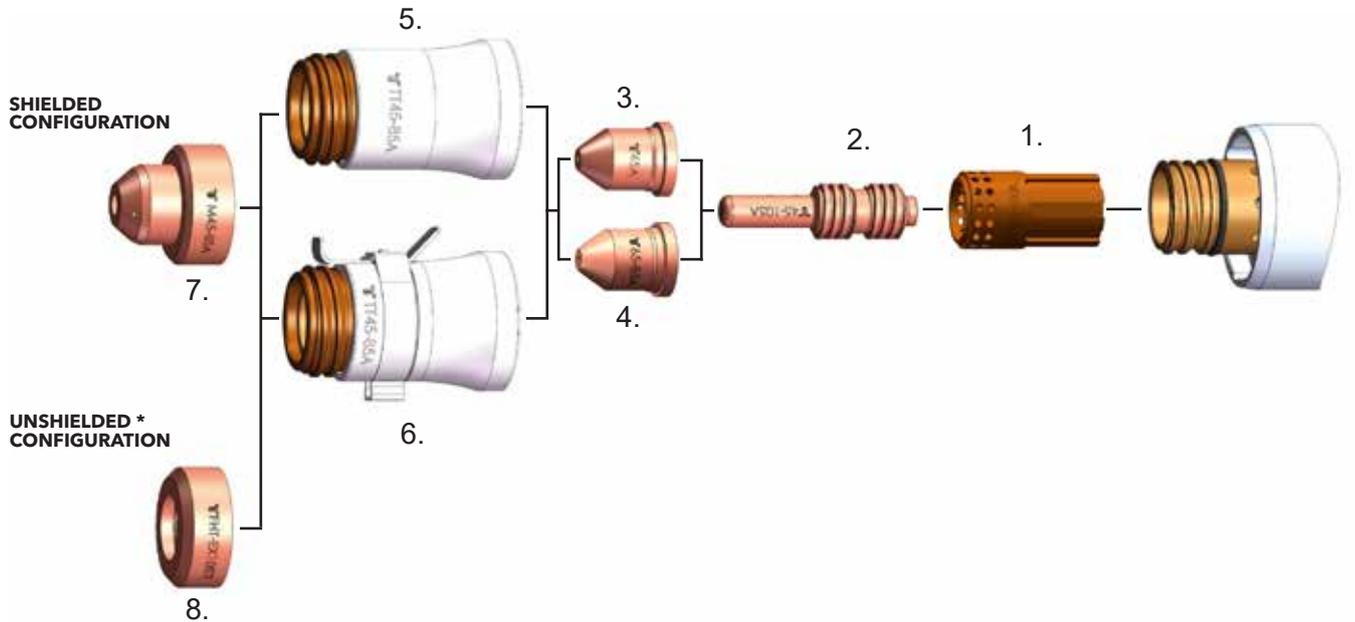
Item EX-5-306-004 Gear rack (designed for the Standard Mounting Tube EX-5-306-003) is no longer available.

a Latch with key is not content of torches above. If you need it, you have to order separately.

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

STANDARD MACHINE TORCH CONSUMABLES - 45-65 A



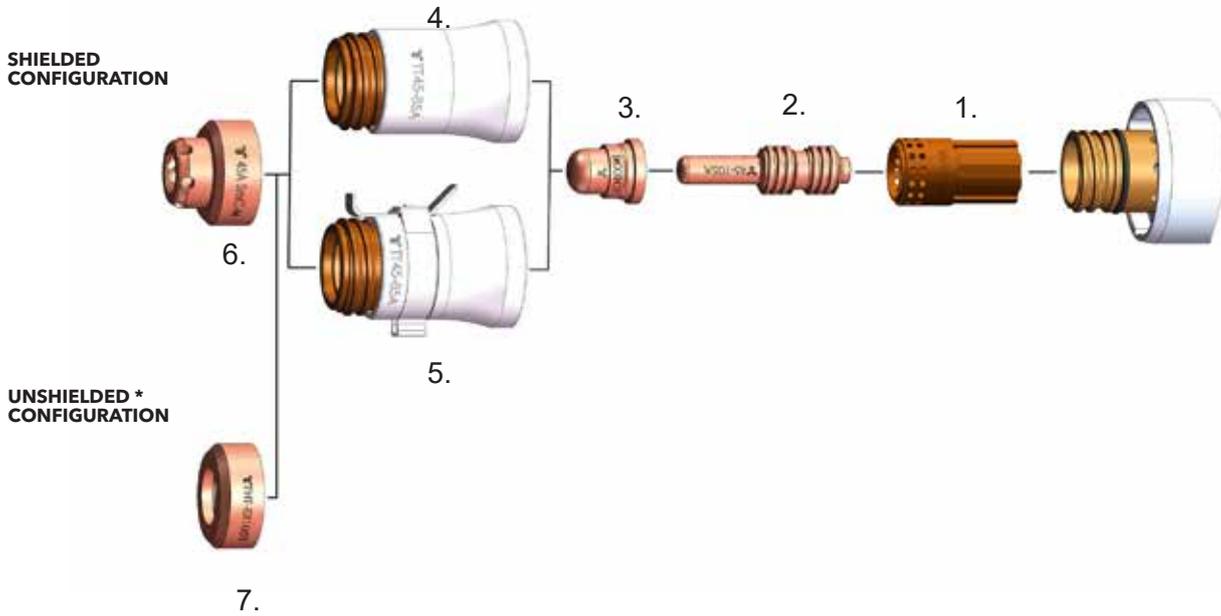
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1	5.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-415-052	Nozzle Retaining Cap 45-85 A w/IHS Tab	1
3.	EX-5-410-051	Nozzle 45 A	5	7.	EX-5-422-051	Machine Shield 45-85 A	1
4.	EX-5-410-053	Nozzle 65-85 A	5	8.	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: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

MACHINE TORCH CONSUMABLES - SMOOTHLINE



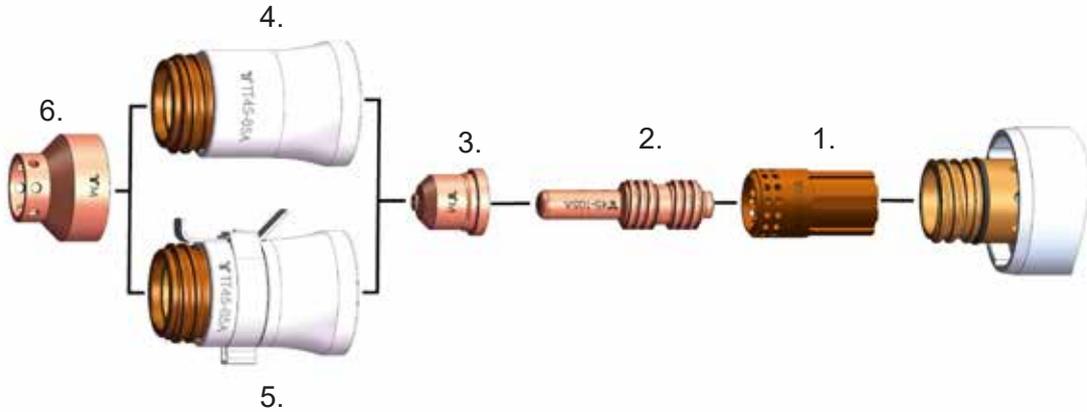
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1	5.	EX-5-415-052	Nozzle Retaining Cap 45-85 A w/IHS Tab	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-422-050	Machine Shield 40/45 A Smoothline	1
3.	EX-5-410-050	Nozzle Smoothline	5	7.	EX-5-423-001	Deflector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

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CONSUMABLES

MACHINE TORCH CONSUMABLES - MARKING



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	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

AVAILABLE TORCH CONSUMABLE KITS FOR ASSEMBLING



Item	Part No.	Description	Std. package QTY
1.	EX-5-439-015	H65A Consumable kit for assembling of FHT-EX®105TTH torch	1
2.	EX-5-439-010	M65A Consumable kit for assembling of FHT-EX®105TTM torch	1

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

AVAILABLE BULK PACKS



Part No.	Description	Std. package QTY
EX-5-401-061	Bulk Pack BP25 - Electrode 45-105 A	1×25



Part No.	Description	Std. package QTY
EX-5-410-060	Bulk Pack BP25 - Nozzle SmoothLine	1×25
EX-5-410-061	Bulk Pack BP25 - Nozzle 45A	1×25
EX-5-410-063	Bulk Pack BP25 - Nozzle 65-85 A	1×25



Part No.	Description	Std. package QTY
EX-5-422-041	Bulk Pack BP18 - Hand Shield 45-85A	1×18
EX-5-422-060	Bulk Pack BP18 - Machine Shield SmoothLine	1×18
EX-5-422-061	Bulk Pack BP18 - Machine Shield 45-85A	1×18

Last update of this page: 10/01/2025. See Revision history for details.
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CONSUMABLES

AVAILABLE STARTER KIT



CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-5-432-051	Starter Kit 65-85 A for Hand Torch FHT-EX®105TTH	1
EX-5-433-051	Starter Kit 55/65 A for Machine Torch FHT-EX®105TTM	1
EX-5-432-055	Starter Kit 45 A for Hand Torch FHT-EX®105TTH	1
EX-5-433-055	Starter Kit 45 A for Machine Torch FHT-EX®105TTM	1

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
6.	EX-5-801-002	EX-5-801-002	Circle Cutting Guide Kit for FHT-EX®105RTXH/FHT-EX®105TTH/FHT-EX®45TTH	1
7.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105TTH/45TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm²/EU-plug 35-70 mm²	1
16.	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm²/EU-plug 10-25 mm²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
OD Only ON DEMAND
***** Items for use with Filter EX

Last update of this page: 10/01/2025. See Revision history for details.



EX-TRAFIRE[®] 85HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.



CUTTING
85 A
CURRENT

MATERIAL
40 mm
THICKNESS

VARIOUS
OPERATION
MODES



Automotive
and transportation



Education and
Training



General
Fabrication



Structural

EX-TRAFIRE® 85HD

SPECIFICATIONS

Output current [A]	20-85 (10-85 with built-in Marking Upgrade Kit)
Modes	standard cutting / grid cutting / gouging / marking
Duty cycle T	100 % @ 85 A
Rated output voltage [VDC]	160
Severance cutting capacity [mm]	40 ⁽¹⁾
Piercing capacity [mm]	20 ⁽¹⁾
Recommended cutting capacity [mm]	20 ⁽¹⁾
Plasma gas	compressed air / nitrogen / argon
Max. Air flow (cutting) [lpm/bar]	195/5.2
CNC interface / Serial (RS/CAN bus)	Built - In / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 × 400 ± 15 % ⁽²⁾
Frequency [Hz]	50/60
Dimensions (L×H×W) [mm]	560 × 400 × 260
Weight [kg]	24.4
Certification depending on region	CE
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®105TTH
Type of machine torch	FHT-EX®105TTM

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

⁽²⁾ 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®85HD plasma cutting system with 100% duty cycle is the perfect solution for demanding heavy duty applications in industry.



Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

EX-TRAFIRE® 85HD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS (STANDARD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE®85HD/CE/3×400 V / Torch FHT-EX®105TTH /Starter Kit	5 m / 16.4'	EX-4-010-009
EX-TRAFIRE®85HD/CE/3×400 V / Torch FHT-EX®105TTH /Starter Kit	8 m / 26.2'	EX-4-010-010
EX-TRAFIRE®85HD/CE/3×400 V / Torch FHT-EX®105TTH /Starter Kit	15 m / 49.2'	EX-4-010-011
EXt-TRAFIRE®85HD/CE/3×400 V / Torch FHT-EX®105TTH /Starter Kit	23 m / 49.2'	EX-4-010-012
MECHANIZED PLASMA CUTTING SYSTEMS (FULLY EQUIPPED)		
<i>Fully-equipped = CNC interface & Serial interfaceport (RS/CAN bus)</i>		
EX-TRAFIRE®85HD/CE/3×400 V / Torch FHT-EX®105TTM STD-NR /Starter Kit	8 m / 26.2'	EX-4-011-019
EX-TRAFIRE®85HD/CE/3×400 V / Torch FHT-EX®105TTM STD-NR /Starter Kit	15 m / 49.2'	EX-4-011-020
EX-TRAFIRE®85HD/CE 3×400 V / Torch FHT-EX®105TTSM /Starter Kit	8 m / 26.2'	EX-4-012-006
EX-TRAFIRE®85HD/CE 3×400 V / Torch FHT-EX®105TTSM /Starter Kit	15 m / 49.2'	EX-4-012-007
EX-TRAFIRE®85HD/CE/3×400 V (+ Marking) / Torch FHT-EX®105TTM STD-NR /M Starter Kit	8 m / 26.2'	EX-4-015-001
EX-TRAFIRE®85HD/CE/3×400 V (+ Marking) / FHT-EX®105TTM STD-NR /M Starter Kit	15 m / 49.2'	EX-4-015-002
EX-TRAFIRE®85HD CE 3×400 V (+ Marking) / Torch FHT-EX®105TTSM /M Starter Kit	8 m / 26.2'	EX-4-016-001
EX-TRAFIRE®85HD CE 3×400 V (+ Marking) / Torch FHT-EX®105TTSM /M Starter Kit	15 m / 49.2'	EX-4-016-002
MECHANIZED PLASMA CUTTING SYSTEMS (STANDARD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE®85HD/CE/3×400 V / Torch FHT-EX®105TTM STD-NR /Starter Kit	8 m / 26.2'	EX-4-013-002
EX-TRAFIRE®85HD/CE/3×400 V / Torch FHT-EX®105TTM STD-NR /Starter Kit	15 m / 49.2'	EX-4-013-003
EX-TRAFIRE®85HD/CE 3×400 V / Torch FHT-EX®105TTSM /Starter Kit	8 m / 26.2'	EX-4-014-002
EX-TRAFIRE®85HD/CE 3×400 V / Torch FHT-EX®105TTSM /Starter Kit	15 m / 49.2'	EX-4-014-003
EX-TRAFIRE®85HD/CE/3×400 V (+ Marking) / Torch FHT-EX®105TTM STD-NR /M Starter Kit	8 m / 26.2'	EX-4-017-001
EX-TRAFIRE®85HD/CE/3×400 V (+ Marking) / Torch FHT-EX®105TTM STD-NR /M Starter Kit	15 m / 49.2'	EX-4-017-002
EX-TRAFIRE®85HD CE 3×400 V (+ Marking) / Torch FHT-EX®105TTSM /M Starter Kit	8 m / 26.2'	EX-4-018-001
EX-TRAFIRE®85HD CE 3×400 V (+ Marking) / Torch FHT-EX®105TTSM /M Starter Kit	15 m / 49.2'	EX-4-018-002
PLASMA CUTTING UNITS (FULLY + SUPER FULLY EQUIPPED)		
<i>Fully-equipped = CNC interface & Serial interfaceport (RS/CAN bus)</i>		
EX-TRAFIRE®85HD/CE/3×400 V power supply unit		EX-4-001-001
EX-TRAFIRE® 85HD/CE/3×400V power supply unit / SUPER FULLY EQUIPPED (+ Marking Upgrade Kit)		EX-4-004-001
PLASMA CUTTING UNITS (STDANDARD + SUPER STD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE®85HD/CE/3×400 V power supply unit		EX-4-003-001
EX-TRAFIRE® 85HD/CE/3×400V power supply unit / SUPER STD EQUIPPED (+ Marking Upgrade Kit)		EX-4-005-001

AVAILABLE BULK PACKS

Information about available bulk packs on the end of Torch Consumables section

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accessories on the last pages of this section

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 105TT



THE ALL-NEW CUTTING TORCH

+ HANDHELD
+ MECHANIZED



The high-performing FHT-EX® 105TT H/M hand and machine torches meet the tough demands of continuous operations. Designed for optimal use with 105HD power supply for cutting, gouging, grid-cutting and marking, while allowing cut thickness up to 50 mm with greater precision and speed.

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 85 A, ideal for continuous use
- Optimal for plate thicknesses of up to 40 mm, thanks to high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing 20 mm
- Perfectly designed for use with EX-TRAFIRE® 105HD power supplies

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

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
a2.	EX-0-321-003	Latch with Key Assembly	1

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

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FHT-EX® 105TTH

HAND TORCH COMPONENTS



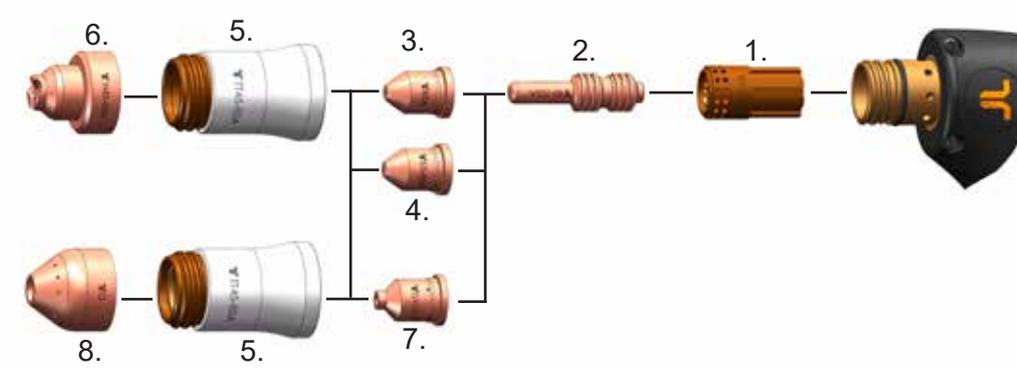
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-010	FHT-EX®105TTH Hand Torch Lead Replacement 5m (16.5')/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-5-374-011	FHT-EX®105TTH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-001	Hand Torch Body Repl. Kit (incl. Torch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

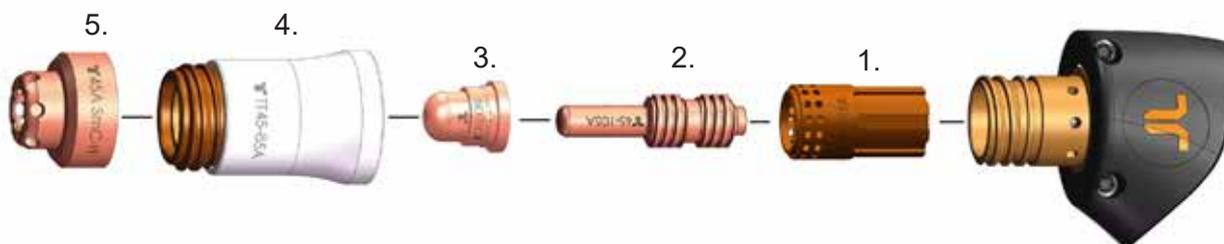


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1	5.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-422-031	Hand Shield 45-85 A	1
3.	EX-5-410-051	Nozzle 45 A	5	7.	EX-5-440-051	Gouging Nozzle 65-85 A	5
4.	EX-5-410-053	Nozzle 65-85 A	5	8.	EX-5-440-050	Gouging Shield	1

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CONSUMABLES

HAND TORCH CONSUMABLES - SMOOTHLINE



Item	Part No.	Description	Pcs
1.	EX-5-404-052	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



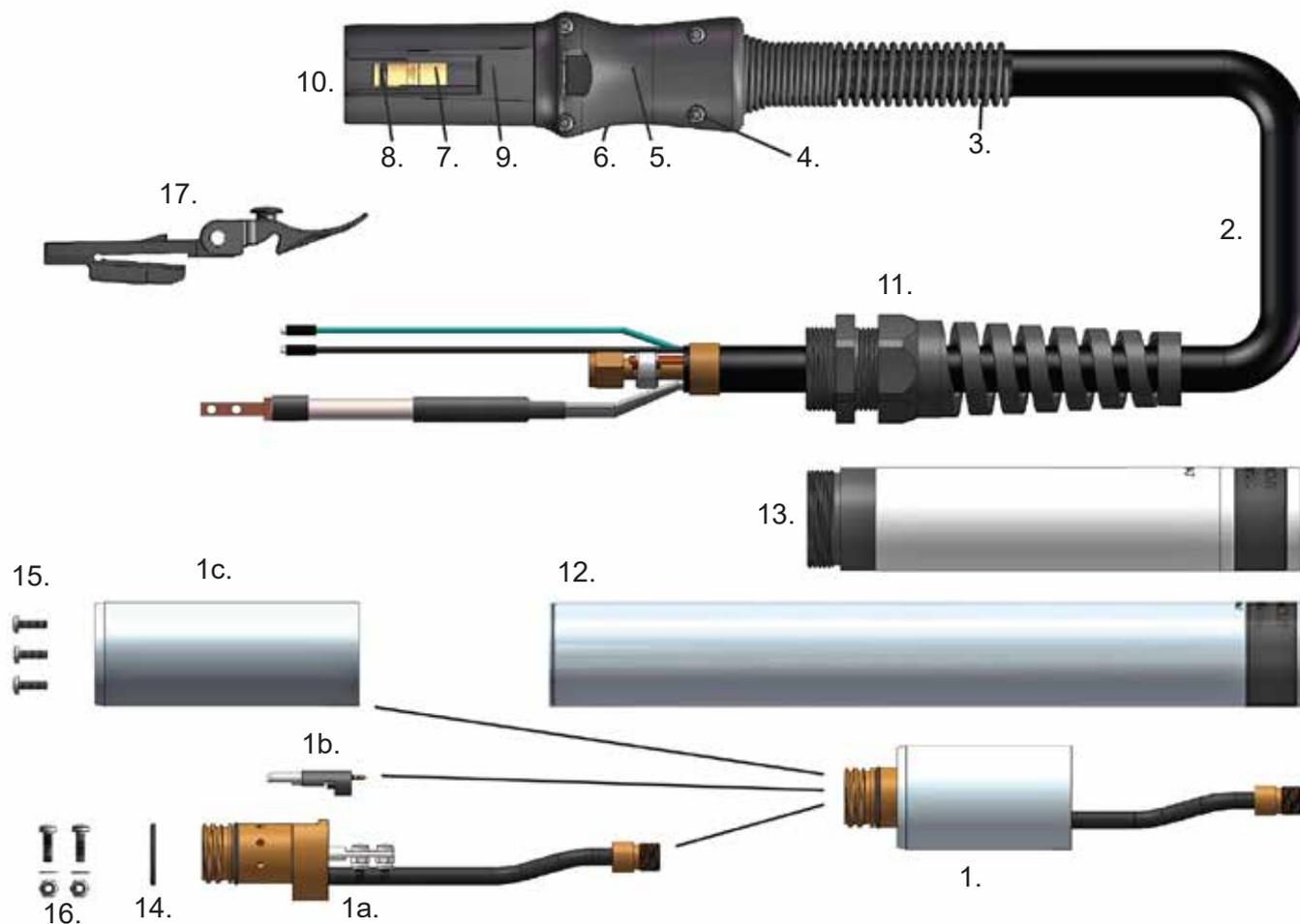
Item	Part No.	Description	Pcs
1.	EX-5-202-031	FHT-EX®105TTM M Torch Assy w/o consumables w/5m (16.5')Lead/ TCS13	1
1.	EX-5-204-031	FHT-EX®105TTM M Torch Assy w/o consumables w/8m (26') Lead/ TCS13	1
1.	EX-5-207-032	FHT-EX®105TTM M Torch Assy w/o consumables w/15m (50') Lead/ TCS13	1
1.	EX-5-210-034	FHT-EX®105TTM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

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FHT-EX® 105TTM

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	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-5-303-010	Machine Torch Body FHT-EX®105TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-001	Cap Sensor Repl. 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-5-375-010	FHT-EX®105TTM Machine Torch Lead Replacement 5m (16.5')/TCS13	1	11.	EX-5-317-021	Machine Torch Strain Relief	1
2.	EX-5-375-011	FHT-EX®105TTM Machine Torch Lead Replacement 8m (26')/TCS13	1	12.	EX-5-306-011	Standard Mounting Tube *	1
2.	EX-5-375-012	FHT-EX®105TTM Machine Torch Lead Replacement 15m (50')/TCS13	1	13.	EX-5-306-009	Short Mounting Tube	1
2.	EX-5-375-013	FHT-EX®105TTM Machine Torch Lead Replacement 23m (75')/TCS13	1	14.	EX-5-431-050	O-Ring (fitted on the torch body)	1
3.	EX-5-318-001	TCS Plug Spring Strain Relief	1	15.	EX-5-372-005	Torch Mounting Screws Kit (incl. 3 screws)	1
4.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	16.	EX-5-372-010	Catode Mounting Kit	1
5.	EX-0-325-002	TCS Clam Shell Upper	1	a 17.	EX-0-321-003	Latch w/Key Assembly	1
6.	EX-0-325-001	TCS Clam Shell Lower	1				

* Items EX-5-306-003 Standard Mounting Tube and EX-5-306-005 Standard Mounting Tube Reduction Nut had been replaced with this item (EX-5-306-011) and they are no longer available

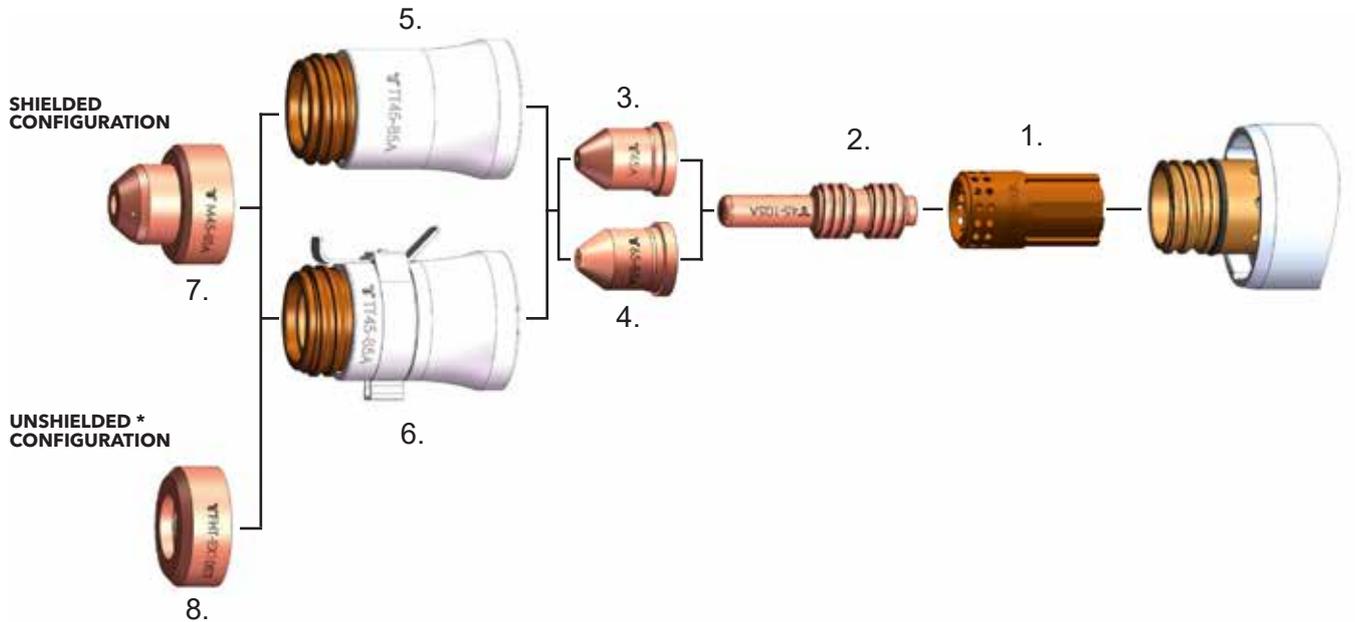
Item EX-5-306-004 Gear rack (designed for the Standard Mounting Tube EX-5-306-003) is no longer available.

a Latch with Key is not content of torches above. If you need it, you have to order separately

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CONSUMABLES

STANDARD MACHINE TORCH SPOTŘEBNÍ DÍLY - 45-85 A



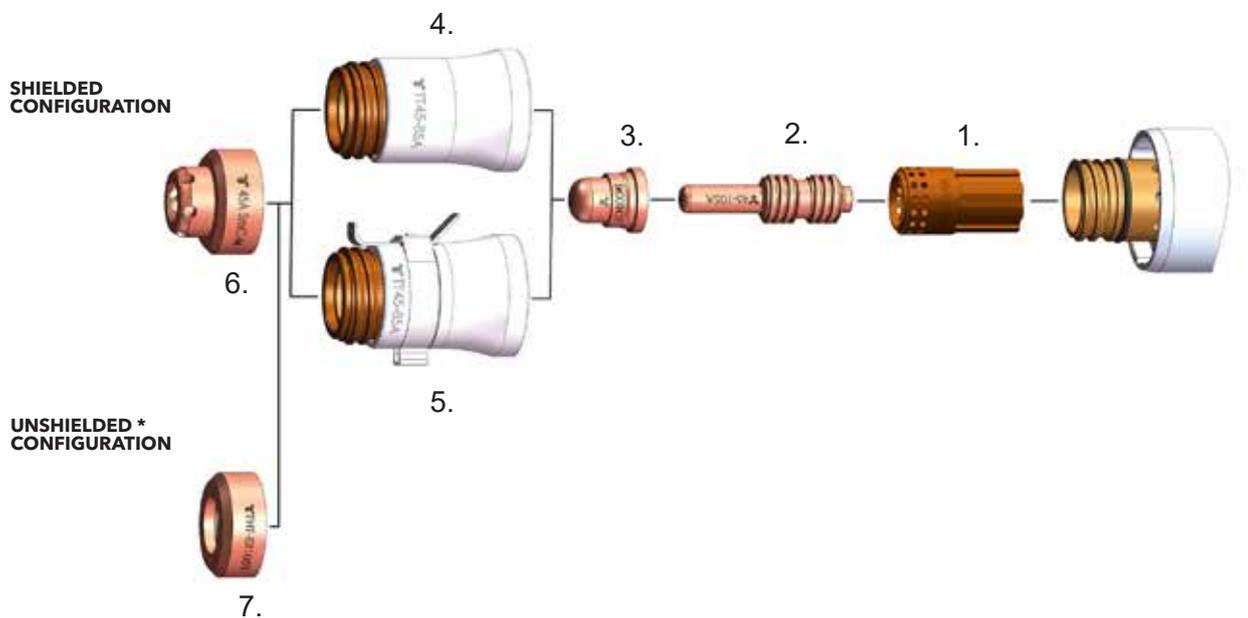
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1	5.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-415-052	Nozzle Retaining Cap 45-85 A w/IHS Tab	1
3.	EX-5-410-051	Nozzle 45 A	5	7.	EX-5-422-051	Machine Shield 45-85 A	1
4.	EX-5-410-053	Nozzle 65-85 A	5	8.	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: 10/01/2025. See Revision history for details.
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CONSUMABLES

MACHINE TORCH CONSUMABLES - SMOOTHLINE



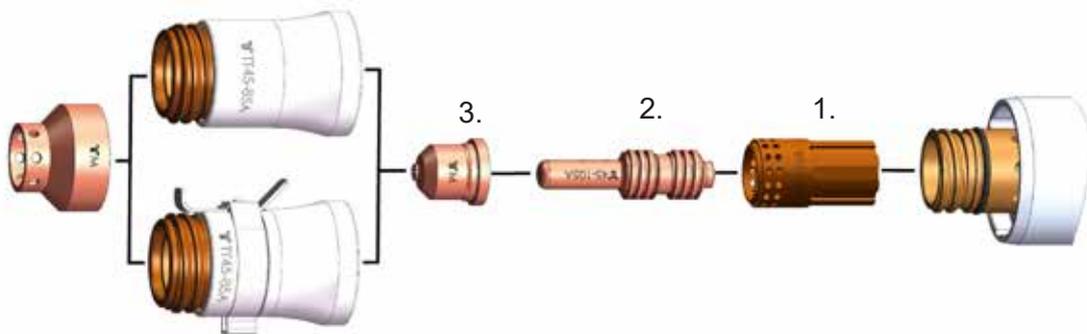
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1	5.	EX-5-415-052	Nozzle Retaining Cap 45-85 A w/IHS Tab	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-422-050	Machine Shield 40/45 A Smoothline	1
3.	EX-5-410-050	Nozzle Smoothline	5	7.	EX-5-423-001	Deflector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

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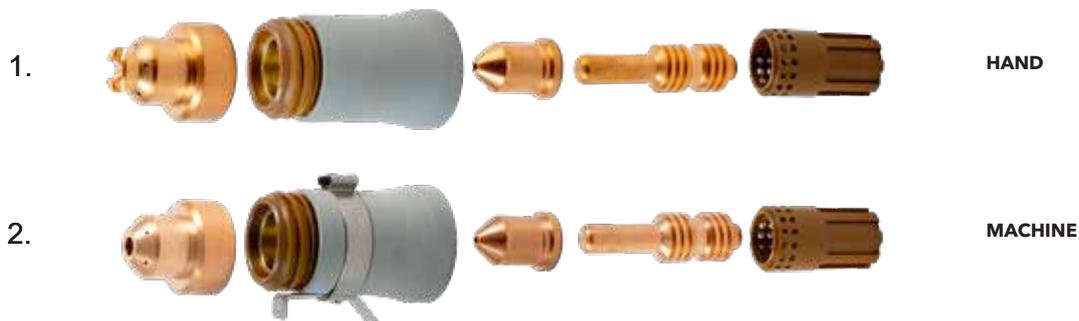
CONSUMABLES

MACHINE TORCH CONSUMABLES - MARKING



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	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

AVAILABLE TORCH CONSUMABLE KITS FOR ASSEMBLING



Item	Part No.	Description	Std. package QTY
1.	EX-5-439-015	H65A Consumable kit for assembling of FHT-EX®105TTH torch	1
	EX-5-439-016	H85A Consumable kit for assembling of FHT-EX®105TTH torch	1
2.	EX-5-439-010	M65A Consumable kit for assembling of FHT-EX®105TTM torch	1
	EX-5-439-011	M85A Consumable kit for assembling of FHT-EX®105TTM torch	1

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CONSUMABLES

AVAILABLE BULK PACKS



Part No.	Description	Std. package QTY
EX-5-401-061	Bulk Pack BP25 - Electrode 45-105 A	1×25



Part No.	Description	Std. package QTY
EX-5-410-060	Bulk Pack BP25 - Nozzle SmoothLine	1×25
EX-5-410-061	Bulk Pack BP25 - Nozzle 45 A	1×25
EX-5-410-063	Bulk Pack BP25 - Nozzle 65-85 A	1×25



Part No.	Description	Std. package QTY
EX-5-422-041	Bulk Pack BP18 - Hand Shield 45-85A	1×18
EX-5-422-060	Bulk Pack BP18 - Machine Shield SmoothLine	1×18
EX-5-422-061	Bulk Pack BP18 - Machine Shield 45-85A	1×18

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CONSUMABLES

AVAILABLE STARTER KIT



CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-5-432-051	Starter Kit 65-85 A for Hand Torch FHT-EX®105TTH	1
EX-5-433-051	Starter Kit 65-85 A for Machine Torch FHT-EX®105TTM	1
EX-5-432-055	Starter Kit 45 A for Hand Torch FHT-EX®105TTH	1
EX-5-433-055	Starter Kit 45 A for Machine Torch FHT-EX®105TTM	1

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ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
6.	EX-5-801-002	EX-5-801-002	Circle Cutting Guide Kit for FHT-EX®105RTXH/FHT-EX®105TTH/FHT-EX®45TTH	1
7.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105TTH/45TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm²/EU-plug 35-70 mm²	1
16.	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm²/EU-plug 10-25 mm²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
OD Only ON DEMAND
***** Items for use with Filter EX

Last update of this page: 10/01/2025. See Revision history for details.



105HD

EX-TRAFIRE[®] 105HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.



CUTTING
105 A
CURRENT

MATERIAL
50 mm
THICKNESS

VARIOUS
OPERATION
MODES



Automotive
and transportation



Steel mills and
steel service
centers



Structural



Shipyards
and Offshore



Heavy
fabrication

EX-TRAFIRE® 105HD

SPECIFICATIONS

Output current [A]	20-105 (10-105 with built-in Marking Upgrade Kit)
Modes	standard cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 105 A
Rated output voltage [VDC]	180
Severance cutting capacity [mm]	50 ⁽¹⁾
Piercing capacity [mm]	20 ⁽¹⁾
Recommended cutting capacity [mm]	20 ⁽¹⁾
Plasma gas	compressed air / nitrogen / argon
Max. Air flow (cutting) [lpm/bar]	205/5.2
CNC interface / Serial (RS/CAN bus)	Built - In / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 × 400 ± 15 % ⁽²⁾
Frequency [Hz]	50/60
Dimensions (L×H×W) [mm]	613 × 515 × 302
Weight [kg]	35.4
Certification depending on region	CE
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of torch - Hand / Machine	FHT-EX®105TTH / M
Type of machine torch	FHT-EX®105TTM

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

⁽²⁾ 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: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

EX-TRAFIRE® 105HD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS (STANDARD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE®105HD/CE/3×400 V / Torch FHT-EX®105TTH/Starter Kit	5 m / 16.4'	EX-5-010-009
EX-TRAFIRE®105HD/CE/3×400 V / Torch FHT-EX®105TTH/Starter Kit	8 m / 26.2'	EX-5-010-010
EX-TRAFIRE®105HD/CE/3×400 V / Torch FHT-EX®105TTH/Starter Kit	15 m / 49.2'	EX-5-010-011
EX-TRAFIRE®105HD/CE/3×400 V / Torch FHT-EX®105TTH/Starter Kit	23 m / 75.5'	EX-5-010-012
MECHANIZED PLASMA CUTTING SYSTEMS (FULLY EQUIPPED)		
<i>Fully-equipped = CNC interface & Serial interfaceport (RS/CAN bus)</i>		
EX-TRAFIRE®105HD/CE/3×400 V / Torch FHT-EX®105TTM STD-NR/Starter Kit	8 m / 26.2'	EX-5-011-019
EX-TRAFIRE®105HD/CE/3×400 V / Torch FHT-EX®105TTM STD-NR/Starter Kit	15 m / 49.2'	EX-5-011-020
EX-TRAFIRE®105HD CE 3×400 V / Torch FHT-EX®105TSM/Starter Kit	8 m / 26.2'	EX-5-012-006
EX-TRAFIRE®105HD CE 3×400 V / Torch FHT-EX®105TSM/Starter Kit	15 m / 49.2'	EX-5-012-007
EX-TRAFIRE®105HD/CE/3×400 V (+ Marking) / Torch FHT-EX®105TTM STD-NR /M Starter Kit	8 m / 26.2'	EX-5-015-001
EX-TRAFIRE®105HD/CE/3×400 V (+ Marking) / Torch FHT-EX®105TTM STD-NR /M Starter Kit	15 m / 49.2'	EX-5-015-002
EX-TRAFIRE®105HD CE 3×400 V (+ Marking) / Torch FHT-EX®105TSM /M Starter Kit	8 m / 26.2'	EX-5-016-001
EX-TRAFIRE®105HD CE 3×400 V (+ Marking) / Torch FHT-EX®105TSM /M Starter Kit	15 m / 49.2'	EX-5-016-002
MECHANIZED PLASMA CUTTING SYSTEMS (STANDARD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE®105HD/CE/3×400 V / Torch FHT-EX®105TTM STD-NR/Starter Kit	8 m / 26.2'	EX-5-013-002
EX-TRAFIRE®105HD/CE/3×400 V / Torch FHT-EX®105TTM STD-NR/Starter Kit	15 m / 49.2"	EX-5-013-003
EX-TRAFIRE®105HD CE 3×400 V / Torch FHT-EX®105TSM/Starter Kit	8 m / 26.2'	EX-5-014-002
EX-TRAFIRE®105HD CE 3×400 V / Torch FHT-EX®105TSM/Starter Kit	15 m / 49.2'	EX-5-014-003
EX-TRAFIRE®105HD/CE/3×400 V (+ Marking) / Torch FHT-EX®105TTM STD-NR /M Starter Kit	8 m / 26.2'	EX-5-017-001
EX-TRAFIRE®105HD/CE/3×400 V (+Marking) / Torch FHT-EX®105TTM STD-NR /M Starter Kit	15 m / 49.2'	EX-5-017-002
EX-TRAFIRE®105HD CE 3×400 V (+ Marking) / Torch FHT-EX®105TSM /M Starter Kit	8 m / 26.2'	EX-5-018-001
EX-TRAFIRE®105HD CE 3×400 V (+ Marking) / Torch FHT-EX®105TSM /M Starter Kit	15 m / 49.2'	EX-5-018-002
PLASMA CUTTING UNITS (FULLY + SUPER FULLY EQUIPPED)		
<i>Fully-equipped = CNC interface & Serial interfaceport (RS/CAN bus (+ Marking Upgrade Kit)</i>		
EX-TRAFIRE®105HD/CE/3×400 V power supply unit		EX-5-001-002
EX-TRAFIRE® 105HD/CE/3×400V power supply unit/SUPER FULLY EQUIPPED (+ Marking Upgrade Kit)		EX-5-004-001
PLASMA CUTTING UNITS (STANDARD + SUPER STD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface (+ Marking Upgrade Kit)</i>		
EX-TRAFIRE®105HD/CE/3×400 V power supply unit		EX-5-003-001
EX-TRAFIRE® 105HD/CE/3×400 V power supply unit / SUPER STD EQUIPPED (+ Marking Upgrade Kit)		EX-5-005-001

AVAILABLE BULK PACKS

Information about available bulk packs on the end of Torch Consumables section

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accesories on the last pages of this section

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 105TT



THE ALL-NEW CUTTING TORCH

+ HANDHELD
+ MECHANIZED



The high-performing FHT-EX®105TT H/M hand and machine torches meet the tough demands of continuous operations. Designed for optimal use with 105HD power supply for cutting, gouging, grid-cutting and marking, while allowing cut thickness up to 50 mm with greater precision and speed.

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.

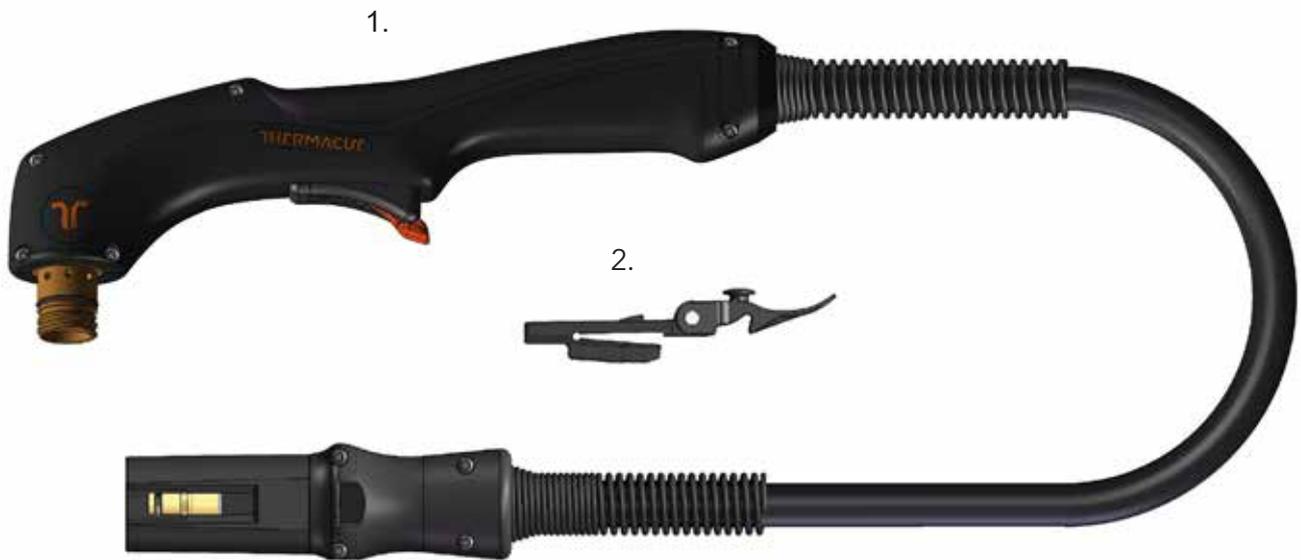
BENEFITS

- 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
- Optimal for plate thicknesses of up to 50 mm, thanks to high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing 20 mm
- Perfectly designed for use with EX-TRAFIRE®105HD power supplies

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

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

a Latch with Key is not content of torches above. If you need it, you have to order separately.

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For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 105TTH

HAND TORCH COMPONENTS



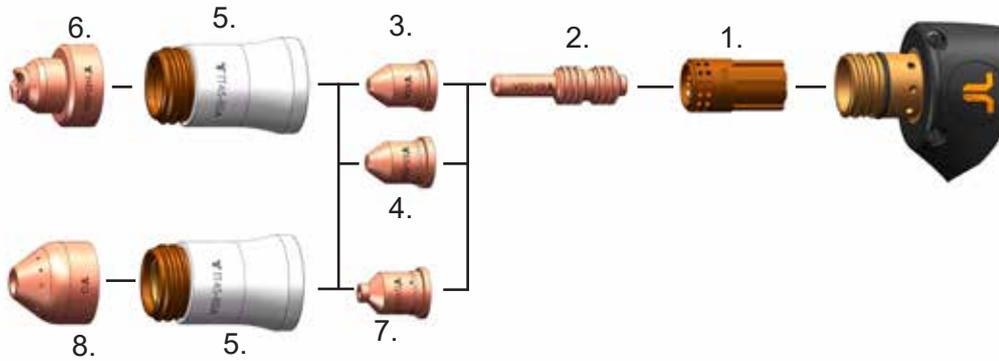
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-010	FHT-EX®105TTH Hand Torch Lead Replacement 5m (16.5')/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-5-374-011	FHT-EX®105TTH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-001	Hand Torch Body Repl. Kit (incl. Torch body & Cap sensor)	1
1.	EX-5-374-012	FHT-EX®105TTH Hand Torch Lead Replacement 15m (50')/TCS13	1	11.	EX-5-431-050	O-Ring (fitted on the torch body) - 2 pcs	2
1.	EX-5-374-013	FHT-EX®105TTH Hand Torch Lead Replacement 23m (75')/TCS13	1	12.	EX-5-314-001	Hand Torch Handle Replacement Kit	1
2.	EX-5-318-001	TCS Plug Spring Strain Relief	1	13.	EX-5-305-002	Cap-sensor Replacement Kit w/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	a17.	EX-0-321-003	Latch w/Key Assembly	1
7.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	18.	EX-5-313-030	Safety Trigger Micro-Switch	1
8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1				

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

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For product availability, please check with your local THERMACUT® dealer.

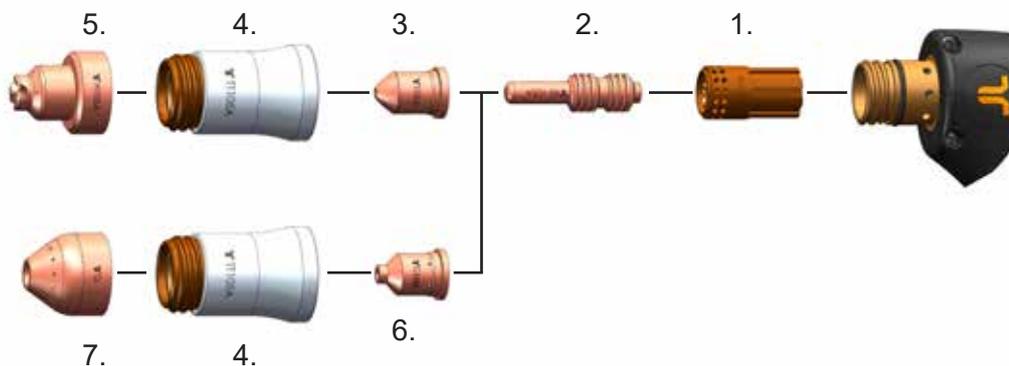
CONSUMABLES

HAND TORCH CONSUMABLES - 45-85 A



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1	5.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-422-031	Hand Shield 45-85 A	1
3.	EX-5-410-051	Nozzle 45 A	5	7.	EX-5-440-051	Gouging Nozzle 65-85 A	5
4.	EX-5-410-053	Nozzle 65-85 A	5	8.	EX-5-440-050	Gouging Shield	1

HAND TORCH CONSUMABLES - 105 A

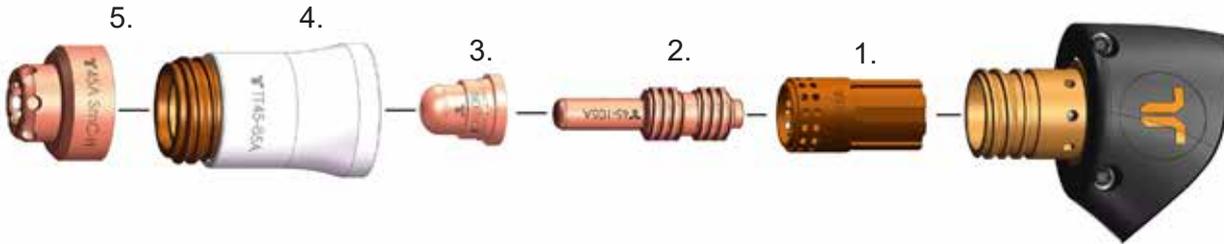


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1	5.	EX-5-422-032	Hand Shield 105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-440-052	Gouging Nozzle 105 A	5
3.	EX-5-410-056	Nozzle 105 A	5	7.	EX-5-440-050	Gouging Shield	1
4.	EX-5-415-051	Nozzle Retaining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

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For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

HAND TORCH CONSUMABLES - SMOOTHLINE

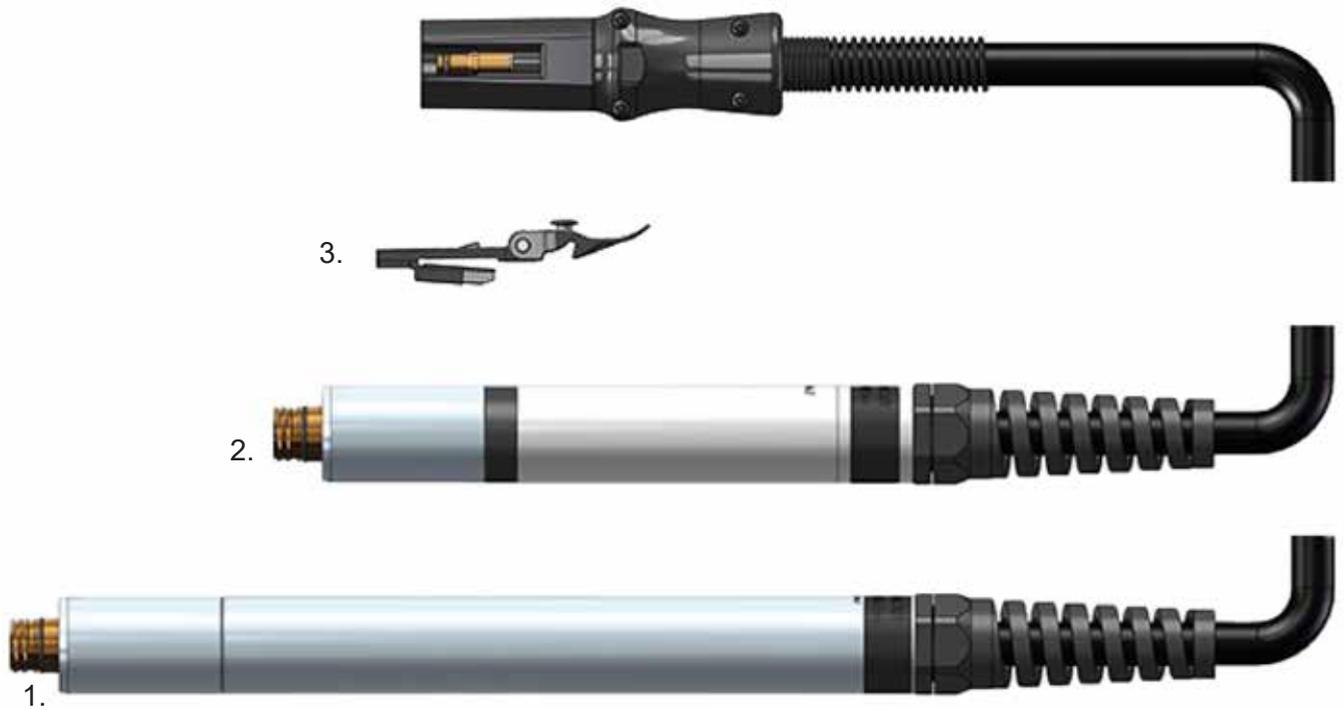


Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5
3.	EX-5-410-050	Nozzle Smoothline	5
4.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
5.	EX-5-420-050	Hand Shield 40/45 A Smoothline	1

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 105TTM

MACHINE TORCH ASSEMBLY



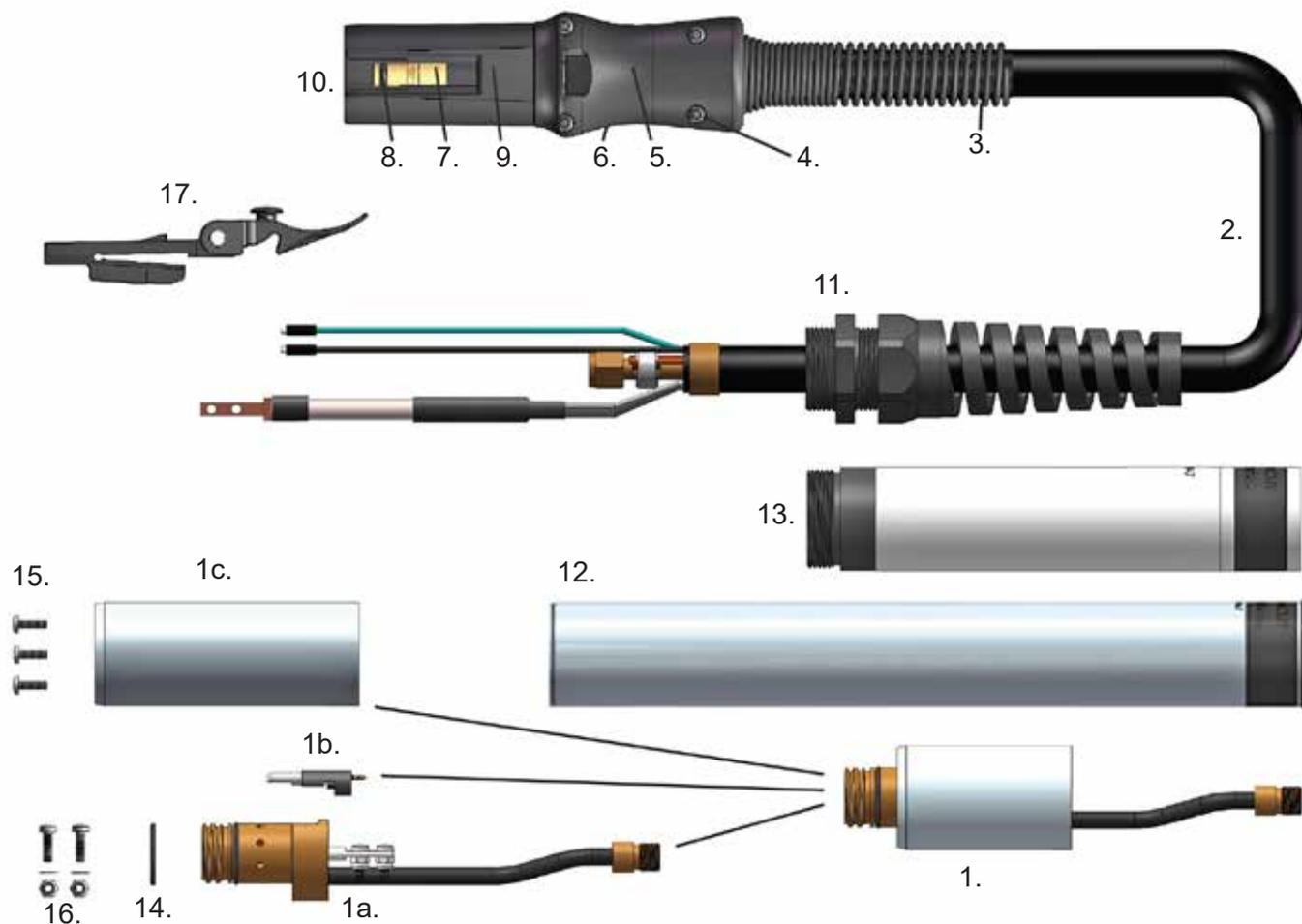
Item	Part No.	Description	Pcs
1.	EX-5-202-031	FHT-EX®105TTM M Torch Assy w/o consumables w/5m (16.5')Lead/ TCS13	1
1.	EX-5-204-031	FHT-EX®105TTM M Torch Assy w/o consumables w/8m (26') Lead/ TCS13	1
1.	EX-5-207-032	FHT-EX®105TTM M Torch Assy w/o consumables w/15m (50') Lead/ TCS13	1
1.	EX-5-210-034	FHT-EX®105TTM M Torch Assy w/o consumables w/23m (75') Lead/ TCS13	1
NS	EX-5-233-020	DEMO FHT-EX®105TTM (STD) 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
NS	EX-5-234-021	DEMO FHT-EX®105TTSM Short Machine torch assembly/ TCS13	1
a	3.	EX-0-321-003 Latch with Key	1

a Latch with Key is not content of torches above. If you need it, you have to order separately.

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 105TTM

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	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-5-303-010	Machine Torch Body FHT-EX®105TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-001	Cap Sensor Repl. 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-5-375-010	FHT-EX®105TTM Machine Torch Lead Repl. 5m (16.5')/TCS13	1	11.	EX-5-317-021	Machine Torch Strain Relief	1
2.	EX-5-375-011	FHT-EX®105TTM Machine Torch Lead Repl. 8m (26')/TCS13	1	12.	EX-5-306-011	Standard Mounting Tube *	1
2.	EX-5-375-012	FHT-EX®105TTM Machine Torch Lead Repl. 15m (50')/TCS13	1	13.	EX-5-306-009	Short Mounting Tube	1
2.	EX-5-375-013	FHT-EX®105TTM Machine Torch Lead Repl. 23m (75')/TCS13	1	14.	EX-5-431-050	O-Ring (fitted on the torch body)	1
3.	EX-5-318-001	TCS Plug Spring Strain Relief	1	15.	EX-5-372-005	Torch Mounting Screws Kit (incl. 3 screws)	1
4.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	16.	EX-5-372-010	Catode Mounting Kit	1
5.	EX-0-325-002	TCS Clam Shell Upper	1	a 17.	EX-0-321-003	Latch w/Key Assembly	1
6.	EX-0-325-001	TCS Clam Shell Lower	1				

* Items EX-5-306-003 Standard Mounting Tube and EX-5-306-005 Standard Mounting Tube Reduction Nut had been replaced with this Items (EX-5-306-011) and they are no longer available

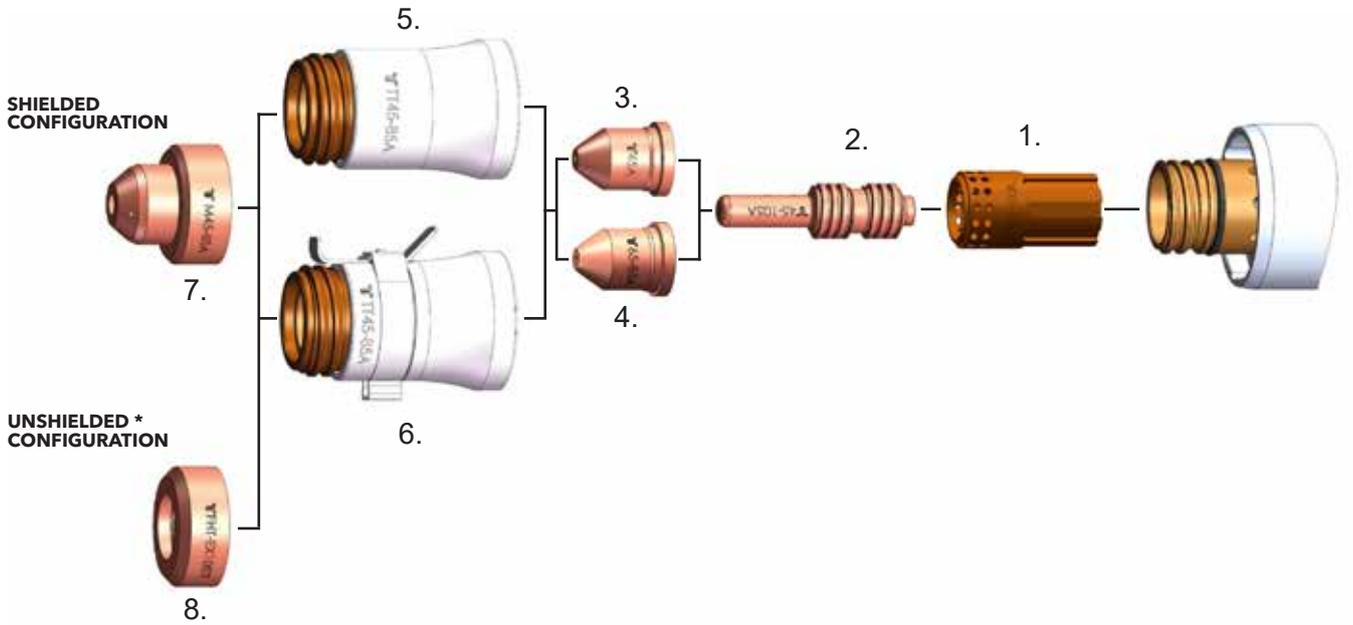
Item EX-5-306-004 Gear rack (designed for the Standard Mounting Tube EX-5-306-003) is no longer available.

a Latch with Key is not content of torches above. If you need it, you have to order separately.

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For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

STANDARD MACHINE TORCH CONSUMABLES - 45-85 A



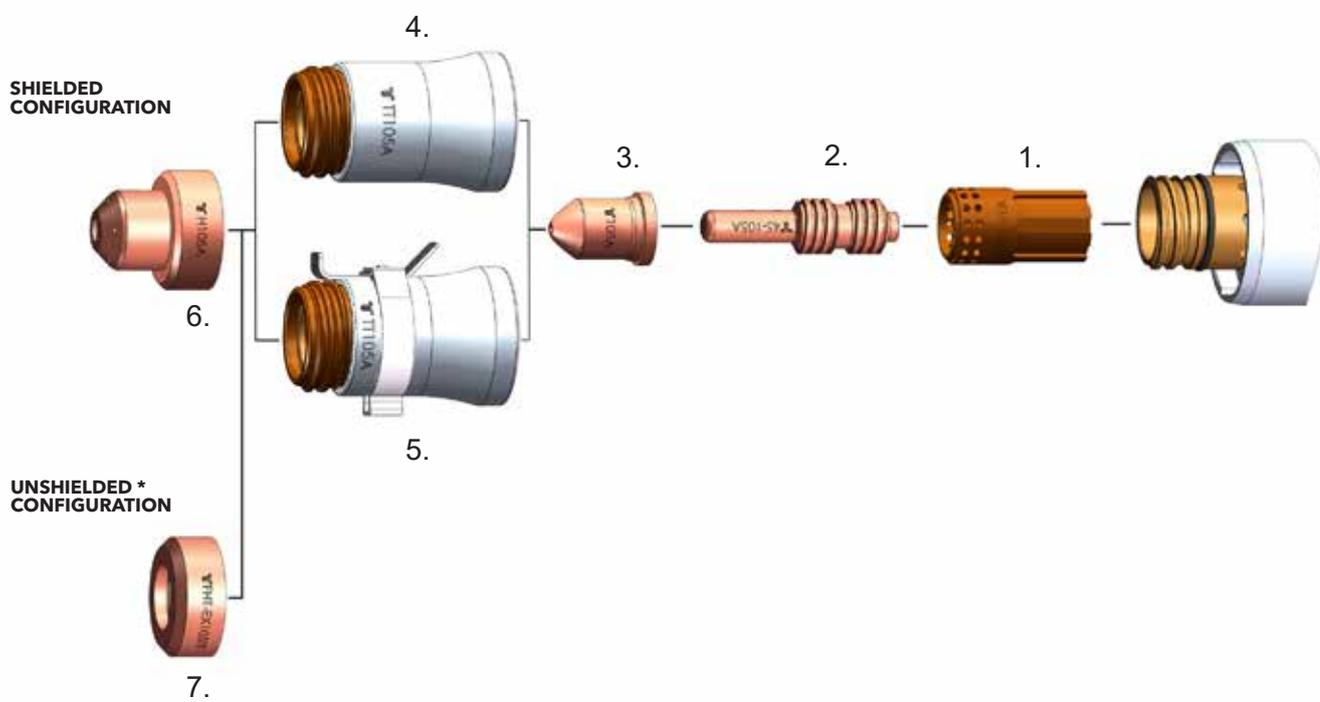
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1	5.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-415-052	Nozzle Retaining Cap 45-85 A w/IHS Tab	1
3.	EX-5-410-051	Nozzle 45 A	5	7.	EX-5-422-051	Machine Shield 45-85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

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

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For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

MACHINE TORCH CONSUMABLES - 105 A



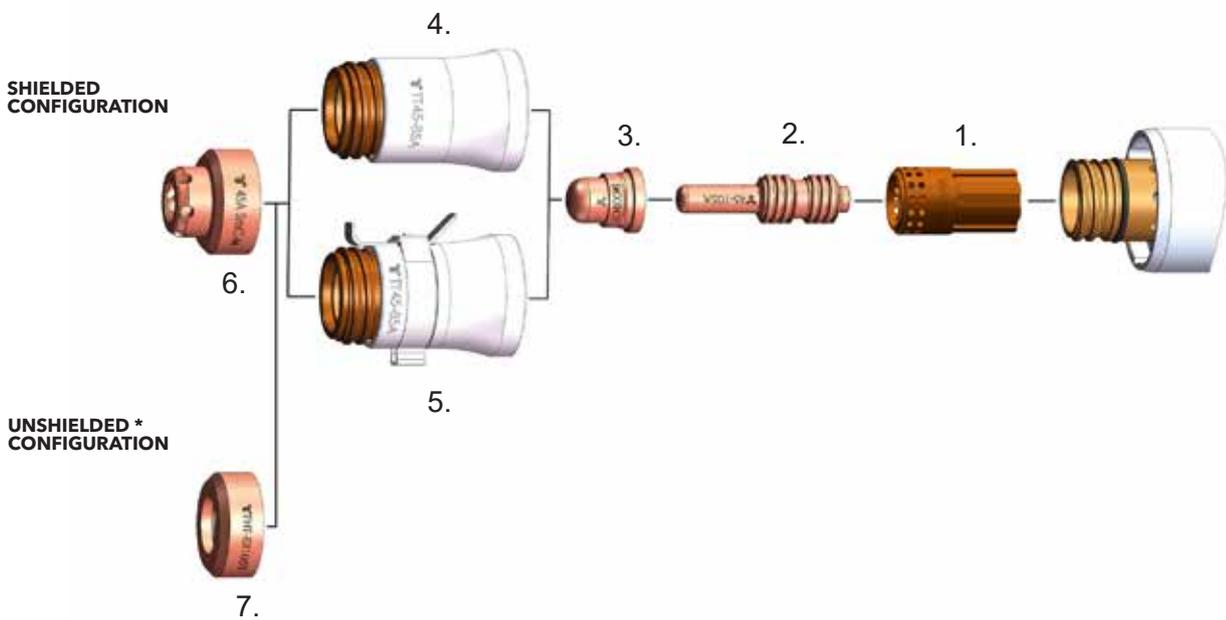
Item	Part No.	Description	Pcs
1.	EX-5-404-052	Swirl Ring 45-105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5
3.	EX-5-410-056	Nozzle 105 A	5
4.	EX-5-415-051	Nozzle Retaining Cap 105 A	1
5.	EX-5-415-053	Nozzle Retaining Cap 105 A w/IHS Tab	1
6.	EX-5-422-052	Machine Shield 105 A	1
7.	EX-5-423-001	Deflector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

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

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

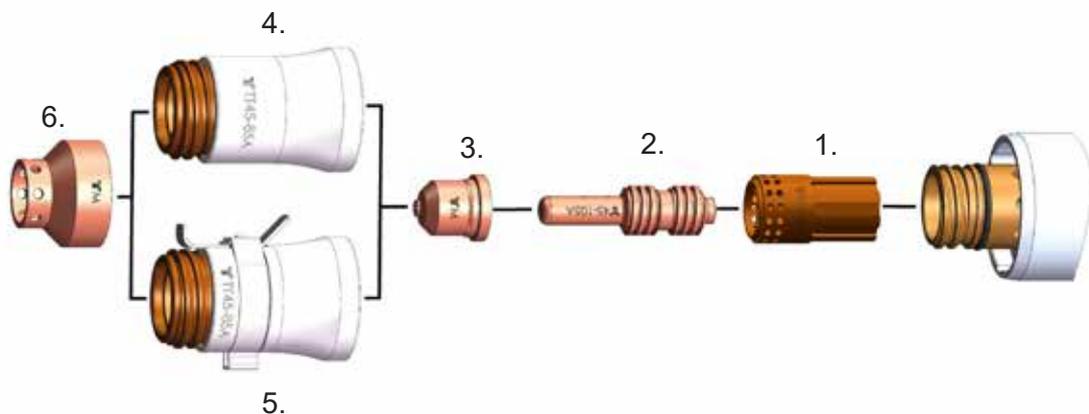
MACHINE TORCH CONSUMABLES - SMOOTHLINE



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-052	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-5-404-052	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: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

AVAILABLE BULK PACKS



Part No.	Description	Std. package QTY
EX-5-401-061	Bulk Pack BP25 - Electrode 45-105 A	1×25



Part No.	Description	Std. package QTY
EX-5-410-060	Bulk Pack BP25 - Nozzle SmoothLine	1×25
EX-5-410-061	Bulk Pack BP25 - Nozzle 45 A	1×25
EX-5-410-063	Bulk Pack BP25 - Nozzle 65-85 A	1×25
EX-5-410-066	Bulk Pack BP25 - Nozzle 105 A	1×25



Part No.	Description	Std. package QTY
EX-5-422-041	Bulk Pack BP18 - Hand Shield 45-85 A	1×18
EX-5-422-042	Bulk Pack BP18 - Hand Shield 105 A	1×18
EX-5-422-060	Bulk Pack BP18 - Machine Shield SmoothLine	1×18
EX-5-422-061	Bulk Pack BP18 - Machine Shield 45-85 A	1×18
EX-5-422-062	Bulk Pack BP18 - Machine Shield 105 A	1×18

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

AVAILABLE STARTER KIT

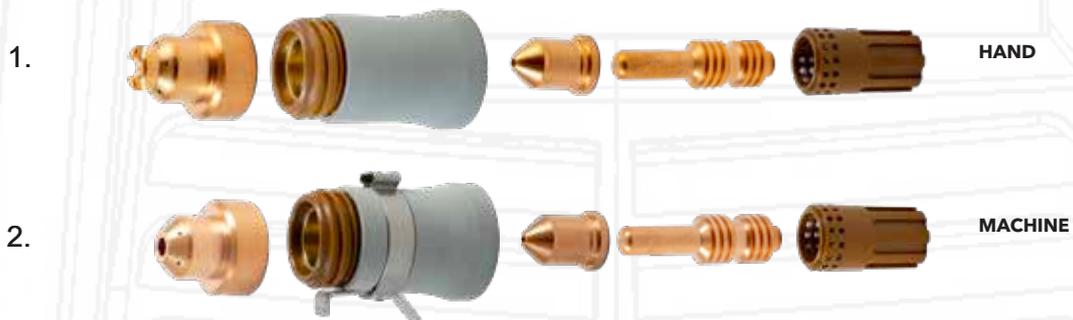


CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-5-432-051	Starter Kit 65-85 A for Hand Torch FHT-EX®105TTH	1
EX-5-432-054	Starter Kit 105 A for Hand Torch FHT-EX®105TTH	1
EX-5-433-051	Starter Kit 65-85 A for Machine Torch FHT-EX®105TTM	1
EX-5-433-054	Starter Kit 105 A for Machine Torch FHT-EX®105TTM	1
EX-5-432-055	Starter Kit 45 A for Hand Torch FHT-EX®105TTH	1
EX-5-433-055	Starter Kit 45 A for Machine Torch FHT-EX®105TTM	1

AVAILABLE TORCH CONSUMABLE KITS FOR ASSEMBLING



Item	Part No.	Description	Std. package QTY
1.	EX-5-439-015	H65A Consumable kit for assembling of FHT-EX®105TTH torch	1
	EX-5-439-016	H85A Consumable kit for assembling of FHT-EX®105TTH torch	1
	EX-5-439-017	H105A Consumable kit for assembling of FHT-EX®105TTH torch	1
2.	EX-5-439-010	M65A Consumable kit for assembling of FHT-EX®105TTM torch	1
	EX-5-439-011	M85A Consumable kit for assembling of FHT-EX®105TTM torch	1
	EX-5-439-012	M105A Consumable kit for assembling of FHT-EX®105TTM torch	1

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
6.	EX-5-801-002	EX-5-801-002	Circle Cutting Guide Kit for FHT-EX®105RTXH/FHT-EX®105TTH/FHT-EX®45TTH	1
7.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105TTH/45TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm²/EU-plug 35-70 mm²	1
16.	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm²/EU-plug 10-25 mm²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
OD Only ON DEMAND
***** Items for use with Filter EX

Last update of this page: 10/01/2025. See Revision history for details.



EX-TRAFIRE 125HD

125 A

THERMACUT

125HD

EX-TRAFIRE[®] 125HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.



CUTTING
125 A
CURRENT

MATERIAL
60 mm
THICKNESS

VARIOUS
OPERATION
MODES



Automotive
and transportation



Steel mills and
steel service
centers



Structural



Shipyards
and Offshore



Heavy fabrication

EX-TRAFIRE® 125HD

SPECIFICATIONS

Output current [A]	30-125 (10-125 with built-in Marking Upgrade Kit)
Modes	standard cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 125 A
Rated output voltage [VDC]	180
Severance cutting capacity [mm]	60 ⁽¹⁾
Piercing capacity [mm]	25 ⁽¹⁾
Recommended cutting capacity [mm]	40 ⁽¹⁾
Plasma gas	compressed air / nitrogen / argon
Max. Air flow (cutting) [lpm/bar]	175/5.2
CNC interface / Serial (RS/CAN bus)	Built - In / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 × 400 ± 15 % ⁽²⁾
Frequency [Hz]	50/60
Dimensions (L×H×W) [mm]	615 × 310 × 535
Weight [kg]	37.7
Certification depending on region	CE
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®125TTH
Type of machine torch	FHT-EX®125TTM

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

⁽²⁾ 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®125HD plasma cutting system with 100% duty cycle is the perfect solution for demanding heavy duty applications in industry.



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EX-TRAFIRE® 125HD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS (STANDARD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE®125HD/CE/3×400 V / Torch FHT-EX®125TTH /Starter Kit	8 m / 26.2 "	EX-6-010-001
EX-TRAFIRE®125HD/CE/3×400 V / Torch FHT-EX®125TTH /Starter Kit	15 m / 49.2 "	EX-6-010-002
MECHANIZED PLASMA CUTTING SYSTEMS (FULLY EQUIPPED)		
<i>Fully-equipped = CNC interface & Serial interfaceport (RS/CAN bus)</i>		
EX-TRAFIRE®125HD/CE/3×400 V / Torch FHT-EX®125TTM /Starter Kit	8 m / 26.2 "	EX-6-011-001
EX-TRAFIRE®125HD/CE/3×400 V / Torch FHT-EX®125TTM /Starter Kit	15 m / 49.2 "	EX-6-011-002
EX-TRAFIRE®125HD/CE/3×400V (+ Marking) / Torch FHT-EX®125TTM /M Starter Kit	8 m / 26.2 "	EX-6-015-001
EX-TRAFIRE®125HD/CE/3×400V (+ Marking) / Torch FHT-EX®125TTM /M Starter Kit	15 m / 49.2 "	EX-6-015-002
MECHANIZED PLASMA CUTTING SYSTEMS (STANDARD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface</i>		
EX-TRAFIRE®125HD/CE/3×400 V / Torch FHT-EX®125TTM /Starter Kit	8 m / 26.2 "	EX-6-013-005
EX-TRAFIRE®125HD/CE/3×400 V / Torch FHT-EX®125TTM /Starter Kit	15 m / 49.2 "	EX-6-013-006
EX-TRAFIRE®125HD/CE/3×400 V (+ Marking) / Torch FHT-EX®125TTM /M Starter Kit	8 m / 26.2 "	EX-6-017-001
EX-TRAFIRE®125HD/CE/3×400 V (+ Marking) / Torch FHT-EX®125TTM /M Starter Kit	15 m / 49.2 "	EX-6-017-002
PLASMA CUTTING UNITS (FULLY + SUPER FULLY EQUIPPED)		
<i>Fully-equipped = CNC interface & Serial interfaceport (RS/CAN bus (+ Marking Upgrade Kit)</i>		
EX-TRAFIRE® 125HD/CE/3×400 V (Fighter version) power supply unit		EX-6-001-002
EX-TRAFIRE® 125HD/CE/3×400 V (Fighter version) power supply unit /SUPER FULLY EQUIPPED (+ Marking Upgrade Kit)		EX-6-004-001
PLASMA CUTTING UNITS (STANDARD + SUPER STD EQUIPPED)		
<i>Standard (STD) - equipped = CNC interface (+ Marking Upgrade Kit)</i>		
EX-TRAFIRE® 125HD/CE/3×400 V (Fighter version) power supply unit		EX-6-003-001
EX-TRAFIRE® 125HD/CE/3×400 V (Fighter version) power supply unit /SUPER STD EQUIPPED (+ Marking Upgrade Kit)		EX-6-005-001

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accessories on the last pages of this section

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For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 125TT



The high-performant FHT-EX®125TT 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®125HD power supplies and are suitable for cutting, gouging, grid-cutting and marking. They can cut plate thickness of up to 60 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 125 A, ideal for continuous use
- Optimal for plate thicknesses of up to 60 mm, thanks to high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing 25 mm
- Perfectly designed for use with EX-TRAFIRE®125HD power supplies

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 125TTH

HAND TORCH ASSEMBLY



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

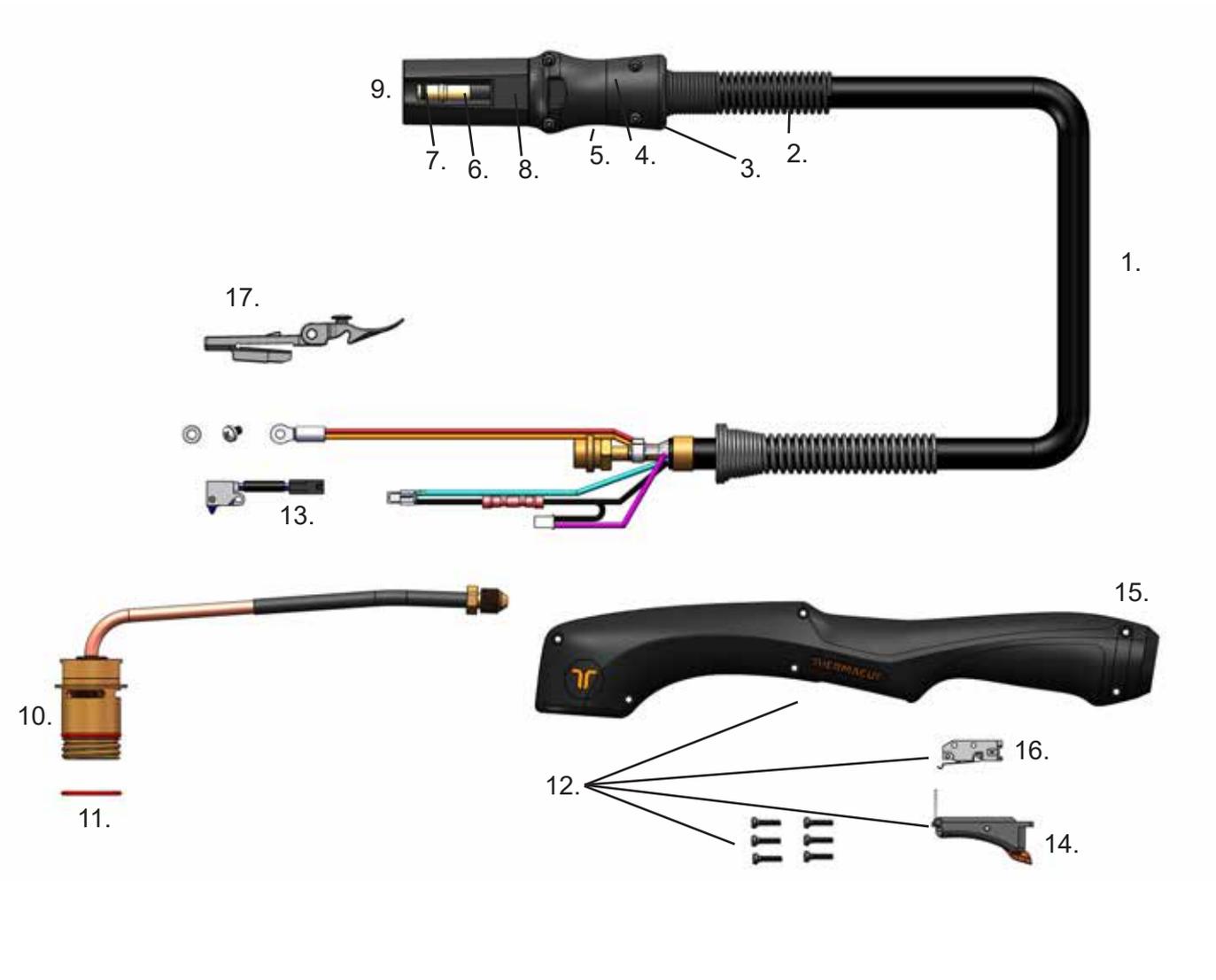
LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

a

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For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 125TTH

HAND TORCH COMPONENTS



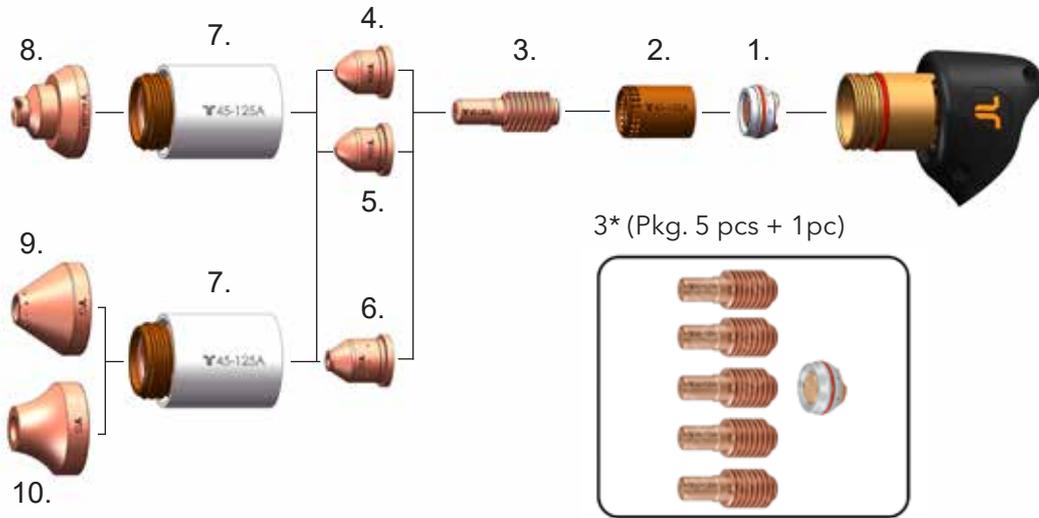
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-6-374-001	FHT-EX®125TTH Hand Torch Lead Replacement 5m (16.5')/TCS13	1	8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
1.	EX-6-374-002	FHT-EX®125TTH Hand Torch Lead Replacement 8m (26.2')/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-6-374-003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

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

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CONSUMABLES

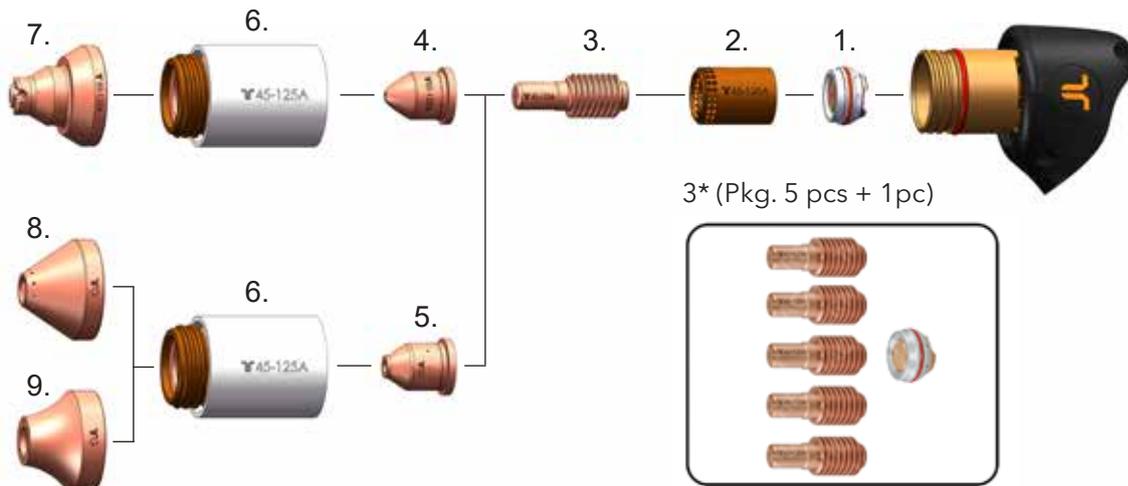
HAND TORCH CONSUMABLES - 45-65 A



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

* THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

HAND TORCH CONSUMABLES - 85-125 A



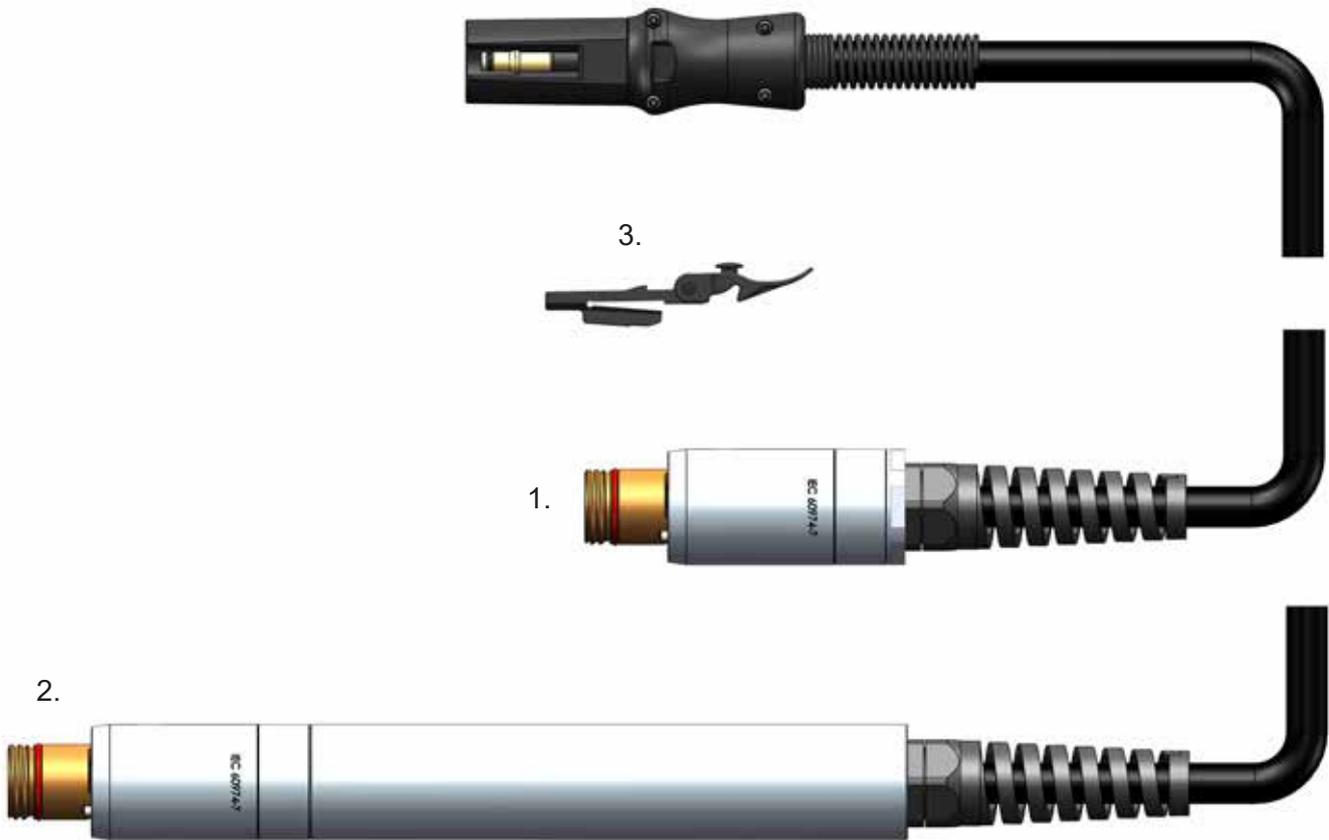
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-6-446-001	Swirl Ring Holder	1	6.	EX-6-415-021	Retaining Cap 45-125A	1
2.	EX-6-404-021	Swirl Ring 45-125A	1	7.	EX-6-419-021	Shield 85-125A, Hand	1
3.	EX-6-401-021	Electrode 45-125A (5pcs package) *	1×5	8.	EX-6-440-023	Gouging Shield, Standard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

* THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

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For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 125TTM

MACHINE TORCH ASSEMBLY



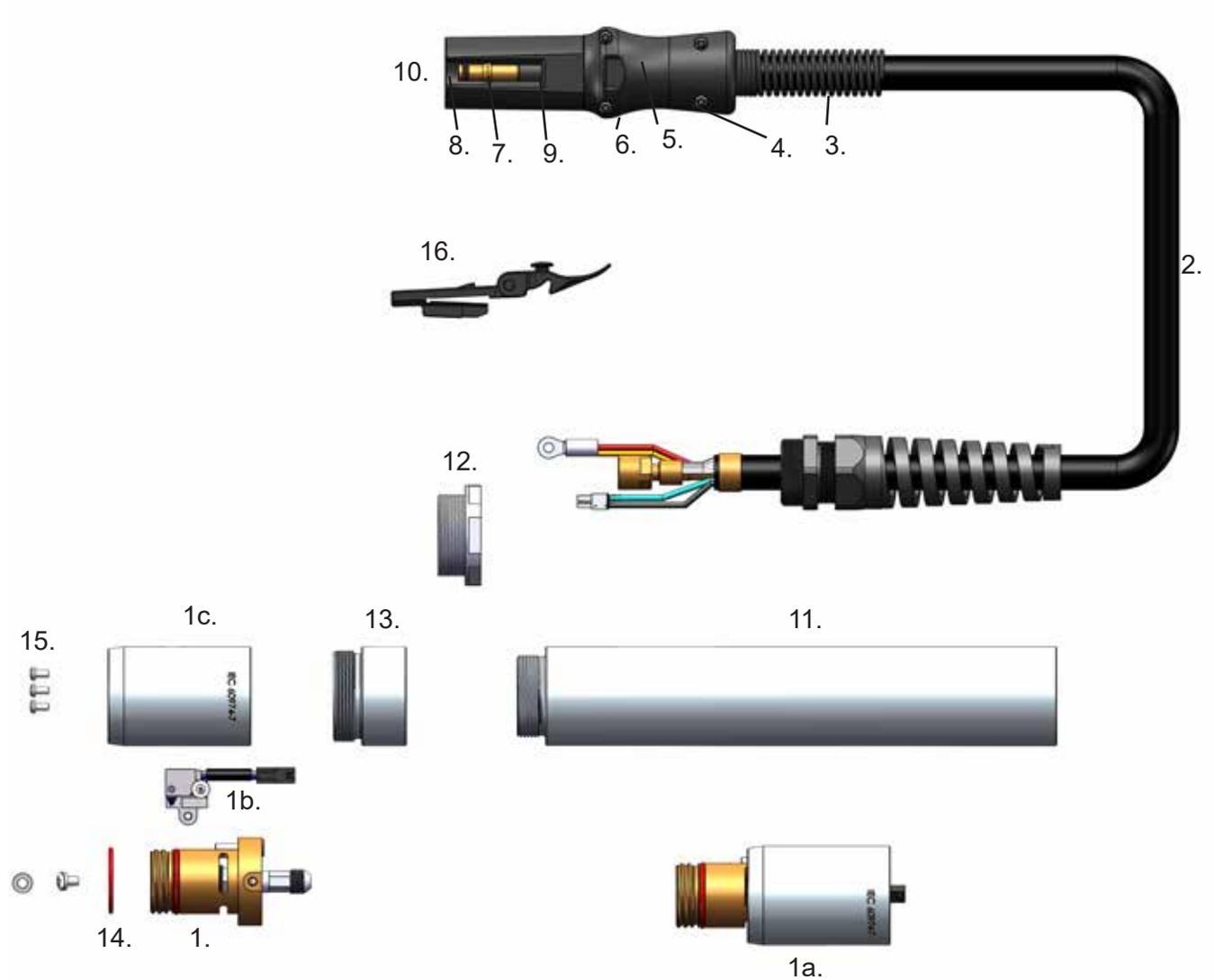
Item	Part No.	Description	Pcs
NS	EX-6-233-001	DEMO FHT-EX®125TTM Machine Torch Assembly/TCS13	1
NS	EX-6-234-001	DEMO FHT-EX®125TTSM Short Machine Torch Assembly/TCS13	1
1.	EX-6-272-001	FHT-EX®125TTSM Short Machine Torch Assembly-w/o consumables w/5m (16.5') Lead/TCS13	1
1.	EX-6-272-002	FHT-EX®125TTSM Short Machine Torch Assembly-w/o consumables w/8m (26.2') Lead/TCS13	1
1.	EX-6-272-003	FHT-EX®125TTSM Short Machine Torch Assembly-w/o consumables w/15m (49.2') Lead/TCS13	1
1.	EX-6-272-004	FHT-EX®125TTSM Short Machine Torch Assembly-w/o consumables w/23m (75.5') Lead/TCS13	1
2.	EX-6-270-001	FHT-EX®125TTM Machine Torch Assy w/o consumables w/5m (16.5')Lead/TCS13	1
2.	EX-6-270-002	FHT-EX®125TTM Machine Torch Assy w/o consumables w/8m (26.2') Lead/TCS13	1
2.	EX-6-270-003	FHT-EX®125TTM Machine Torch Assy w/o consumables w/15m (49.2') Lead/TCS13	1
2.	EX-6-270-004	FHT-EX®125TTM Machine Torch Assy w/o consumables w/23m (75.5') Lead/TCS13	1
a	3.	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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For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 125TTM

MACHINE TORCH COMPONENTS



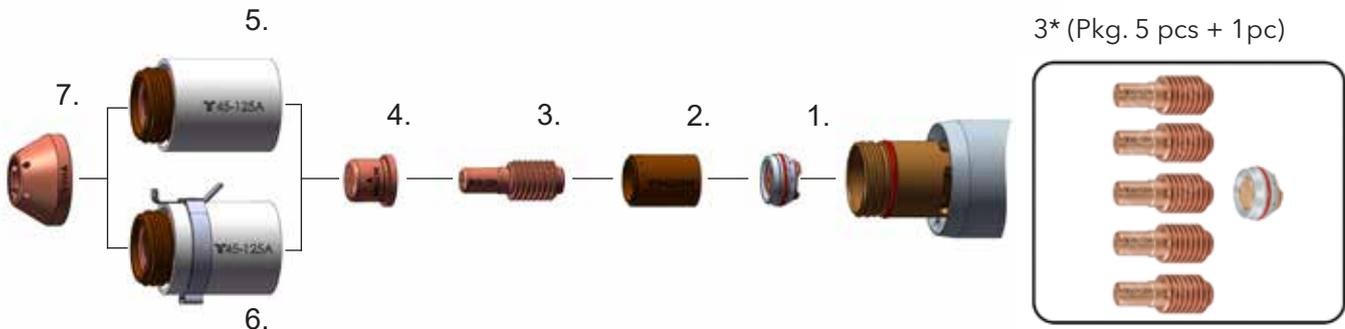
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-6-303-001	FHT-EX125TTM/TTSM Machine Torch Body Replacement Kit	1	6.	EX-0-325-001	TCS Clam Shell Lower	1
1a.	EX-6-303-002	FHT-EX®125TTM/TTSM Machine Torch Body Assembly	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1b.	EX-5-304-030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

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CONSUMABLES

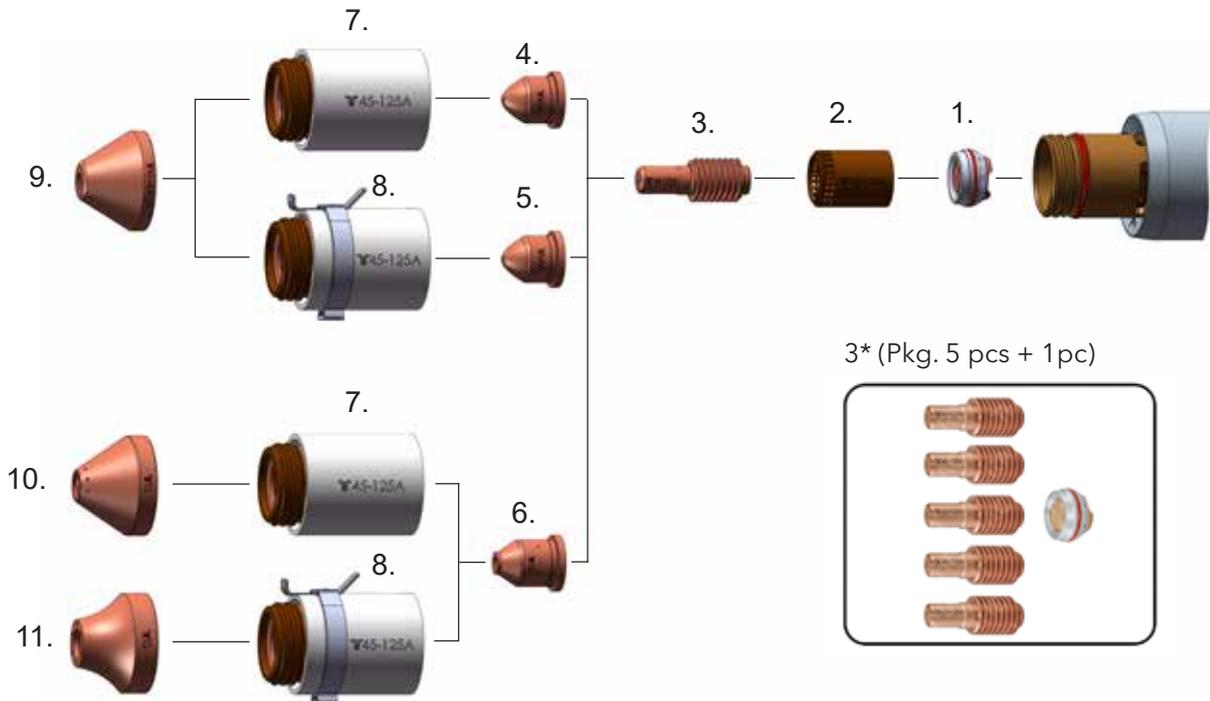
MACHINE TORCH CONSUMABLES - MARKING



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-6-446-001	Swirl Ring Holder	1	5.	EX-6-415-021	Retaining Cap 45-125 A	1
2.	EX-6-404-021	Swirl Ring 45-125 A	1	6.	EX-6-415-022	Retaining Cap 45-125 A, IHS Tab	1
3.	EX-6-401-021	Electrode 45-125 A (5 pcs package) *	1x5	7.	EX-6-445-002	Shield, Marking	1
4.	EX-6-445-001	Nozzle, Marking	5				

* THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

MACHINE TORCH CONSUMABLES - 45-65 A



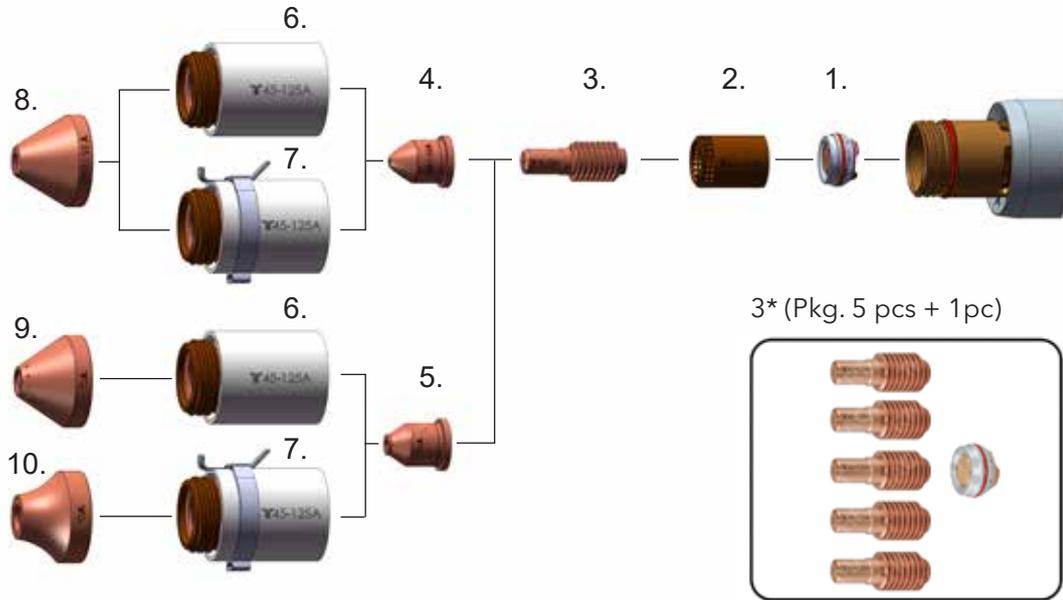
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-6-446-001	Swirl Ring Holder	1	7.	EX-6-415-021	Retaining Cap 45-125A	1
2.	EX-6-404-021	Swirl Ring 45-125A	1	8.	EX-6-415-022	Retaining Cap 45-125A, IHS Tab	1
3.	EX-6-401-021	Electrode 45-125A (5pcs package) *	1x5	9.	EX-6-421-022	Shield 45-65A, Machine	1
4.	EX-6-409-024	Nozzle 45A	5	10.	EX-6-440-023	Gouging Shield, Standard	1
5.	EX-6-409-023	Nozzle 65A	5	11.	EX-6-440-024	Gouging Shield, High Removal	1
6.	EX-6-440-020	Gouging Nozzle	5				

* THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

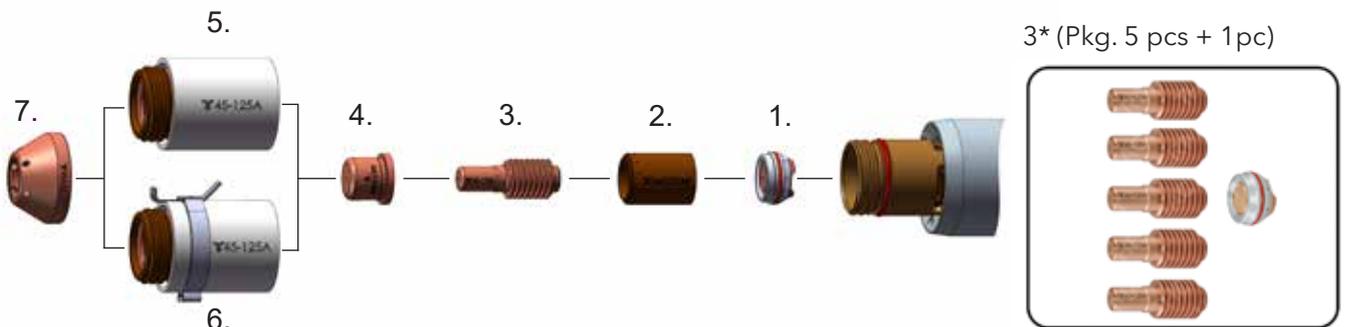
MACHINE TORCH CONSUMABLES - 85-125 A



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

* THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

MACHINE TORCH CONSUMABLES - SMOOTHLINE



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

* THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES

AVAILABLE STARTER KIT

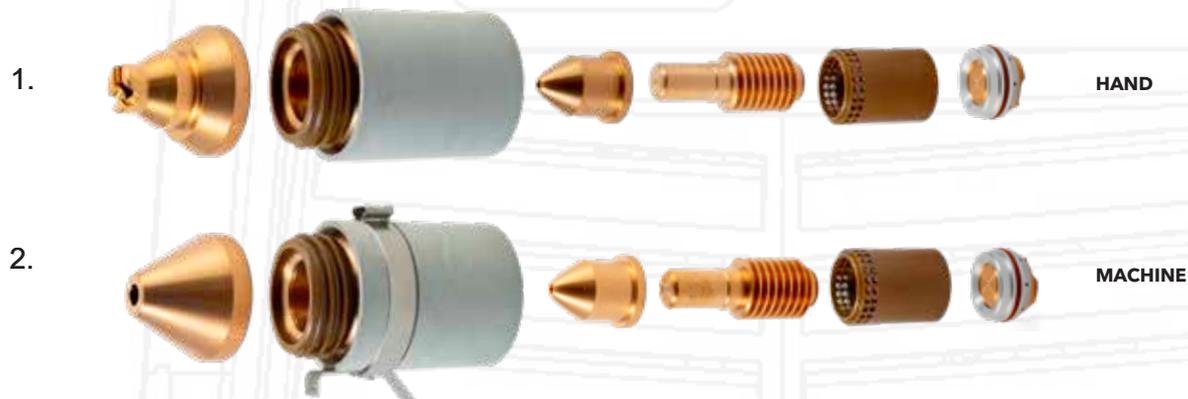


CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-6-432-001	Starter Kit 125 A for Hand Torch FHT-EX®125TTH	1
EX-6-433-001	Starter Kit 125 A for Machine Torch FHT-EX®125TTM	1

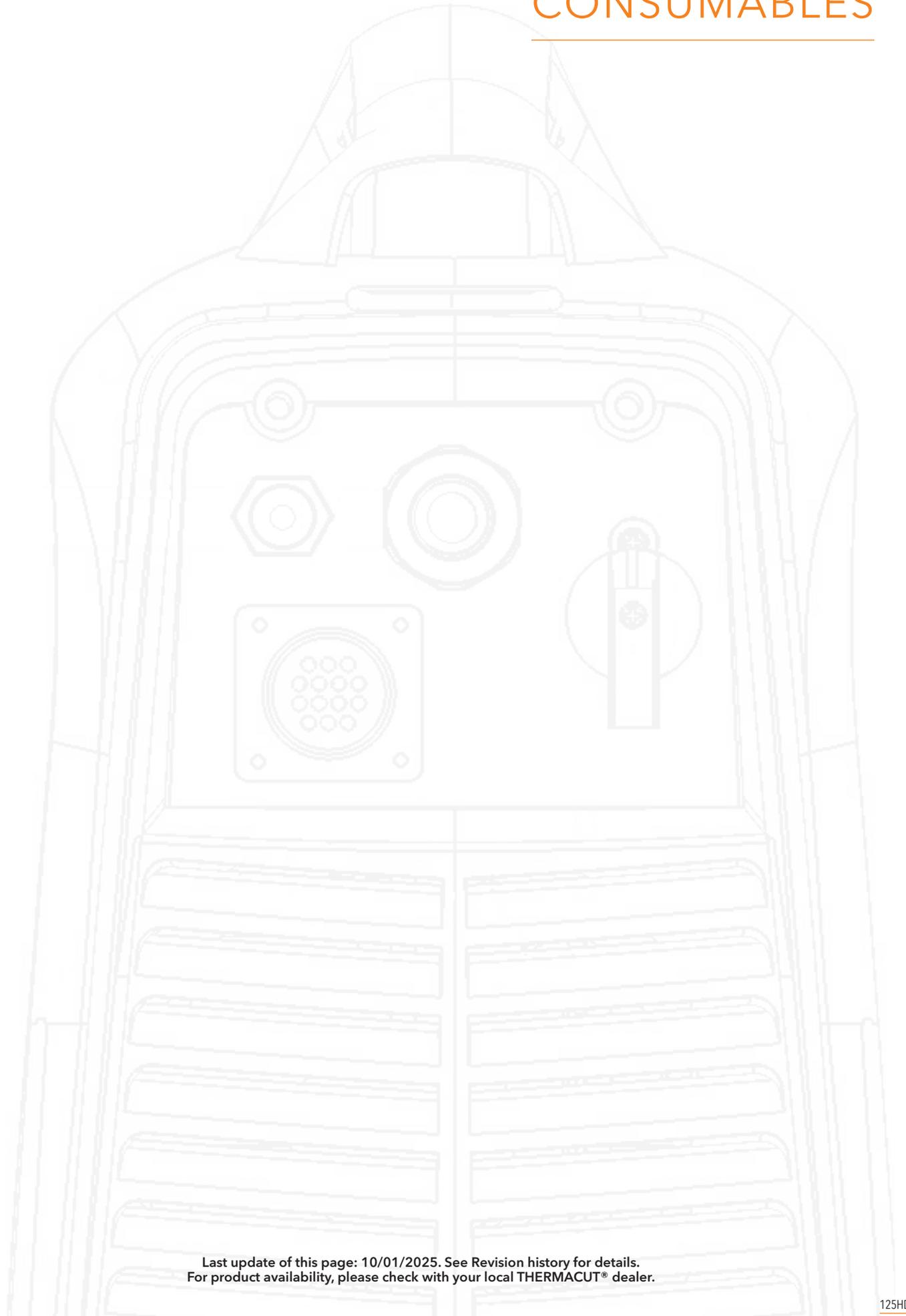
AVAILABLE TORCH CONSUMABLE KITS FOR ASSEMBLING



Item	Part No.	Description	Std. package QTY
1.	EX-6-441-003	H125A Consumable kit for assembling of FHT-EX®125TTH torch	1
2.	EX-6-442-003	M125A Consumable kit for assembling of FHT-EX®125TTM torch	1

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

CONSUMABLES



Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
	EX-6-801-002	EX-6-801-002	Circle Cutting Guide Kit for FHT-EX®125TTH	1
7.	EX-6-801-003	EX-6-801-003	Bevel Cutting Guide Kit for FHT-EX®125TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm²/EU-plug 35-70 mm²	1
16.	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm²/EU-plug 10-25 mm²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
OD Only ON DEMAND
***** Items for use with Filter EX

Last update of this page: 10/01/2025. See Revision history for details.



Training and education



General fabrication



Craft, hobby and non-industrial



Structural



Automotive and transportation



Energy



Steel mills and steel service centers



Shipyards and Offshore



Heavy fabrication

EX-TRAFIRE^{SD}

PORTABLE AND POWERFUL PLASMA CUTTING SYSTEM



EX-TRAFIRE® SD LINE OVERVIEW

Features / System	EX-TRAFIRE®30H	EX-TRAFIRE®45SD	
Cutting current [I2]	10-30 A	20-45 A (20-25 A)	20-45 A
Input voltage [I2]	CE 220-240 VAC ± 15 %	1×230 VAC ± 15 % (1×120 VAC)	3×400 VAC ± 15 %
Duty cycle	35 % @ 30 A-92 V 60 % @ 25 A-90 V 100 % @ 21 A-88,4 V	50 % @ 45 A, 100 % @ 32 A (230 VAC) 40 % @ 25 A, 100 % @ 16 A (120 VAC)	80 % @ 45 A, 100 % @ 40 A
I1max	22 A	33 A (36.7 A)	16,2 A
I1eff	13 A	23.3 A (23.2 A)	14,4 A
Weight [kg]	10,5	12,7	
Dimensions (L x H x W) [mm]	480 x 290 x 165	470 x 229 x 177	
Industry (IOT) 4.0	Not applicable		
Handheld / Mechanised Application	Yes / No		Yes / Yes
Application modes	standard cutting, grid cutting	standard cutting, grid cutting	
Torch	FHT-EX®30H	FHT-EX®45TT	
Max. gas flow rate for cutting	48 l/min @ 4.5 bar dynamic	90 l/min @ 4.8 bar dynamic	
Recommended Cut (MS / SS / AL) [mm] *	8 / 4 / 6	10 / 10 / 10	10 / 10 / 10
Maximum (MS / SS / AL) [mm] *	10 / 8 / 10	25 / 20 / 20	25 / 20 / 20
Piercing capacity (MS / SS / AL) [mm] *	8 / 4 / 6	10 / 10 / 10	10 / 10 / 10
Gas type	Compressed air/nitrogen		
Gas quality	Recommended Air quality: ISO 8573-1 Class 1.2.2.		
Air specification	Air max. particle size: 0.1 microns, class 1 ref. to ISO 8573,		
	Air max. oil: 0.1 mg/m ³ , class 2 ref.: ISO 8573,		
	Air max. dew point: +3° C, class 4 ref. to ISO 8573		
Nitrogen	Purity min. 99.3 %		
Gas quality	Clean, moisture-free, without oil		

(*) Recommendation based on cutting starting from the edge (up to)

Cutting system content:

Power supply including TCS Latch with Key assembly and Input power cable (without plug)
Work lead with clamp (4 m)
Hand or Machine Torch including first fit consumable kit
Starter kit (of consumables)
Operator manual

Separate power supply content

Power supply including TCS Latch with Key assembly and Input power cable (without plug)
Work lead with clamp (4 m)
Operator manual

Last update of this page: 10/01/2025. See Revision history for details.

	EX-TRAFIRE®55SD	EX-TRAFIRE®75SD	EX-TRAFIRE®100SD
	30-55 A	30-75 A	30-100 A
	CE 3×400 VAC ± 15 %	CE 3 × 400 VAC ± 15 %	3 × 400 VAC ± 15 %
	50 % @55 A-170 V 60 % @50 A-170 V 100 % @41 A-170 V	100% @75A-170 V	50 % @100 A-170 V 60 % @91 A-170 V 10 0% @80 A-170 V
	14.9 A	28.1 A	39.3 A
	10.5 A	28.1 A	27.8 A
	11.8	24	24
	470 × 229 × 177	560 × 400 × 265	560 × 400 × 265
	Yes / Yes	Yes / Yes	Yes / Yes
	standard cutting, grid cutting	standard cutting, grid cutting, gouging	standard cutting, grid cutting, gouging
	FHT-EX*105RTX		
	100 A approx. 135 l/min, 75 A approx. 110 l/min, 55 A approx. 98 l/min, 45 A approx. 87 l/min @ 5.2 bar (Cutting mode)		
	16 / 12 / 12	20 / 16 / 16	20 / 20 / 20
	30 / 25 / 25	35 / 25 / 25	50 / 32 / 32
	16 / 12 / 12	20 / 20 / 20	20 / 20 / 20

Last update of this page: 10/01/2025. See Revision history for details.



EX-TRAFIRE[®] 30H

PORTABLE AND POWERFUL PLASMA CUTTING SYSTEM



Training and education



General fabrication



Craft, hobby and non-industrial



Structural

EX-TRAFIRE® 30H

SPECIFICATIONS

Output current [A]	10-30
Modes	cutting / grid cutting
Duty cycle	35 % @ 30 A, 100 % @ 21 A
Rated output voltage [VDC]	92
Severance cutting capacity [mm]	10 ⁽¹⁾
Piercing capacity [mm]	8 ⁽¹⁾
Recommended cutting capacity [mm]	8 ⁽¹⁾
Plasma gas	compressed air
Max. Air flow (cutting) [lpm/bar]	48/4.5
CNC interface	No
Input voltage [VAC]	220-240 V ± 15 %
Frequency [Hz]	50/60
Dimensions (L×H×W)[mm]	480 × 290 × 165
Weight [kg]	10.5
Certification depending on region	CE
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®30H

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

⁽²⁾Suitable for generator use



2 DIFFERENT OPERATION MODES

Lightweight, exceptionally portable system with precise cuts. The mobile EX-TRAFIRE® 30H plasma cutting system is the ideal entry solution for anyone looking for very low investment and lower running costs model.



CUTTING



GRID CUTTING

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

EX-TRAFIRE® 30H

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®30H/CE/1×220-240 VAC Hand System/ Torch FHT-EX30H-FC /H Starter Kit	4 m / 13.1 '	EX-1-010-005

AVAILABLE BULK PACKS

Information about available bulk packs on the end of Torch Consumables section

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accessories on the last pages of this section

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 30H



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

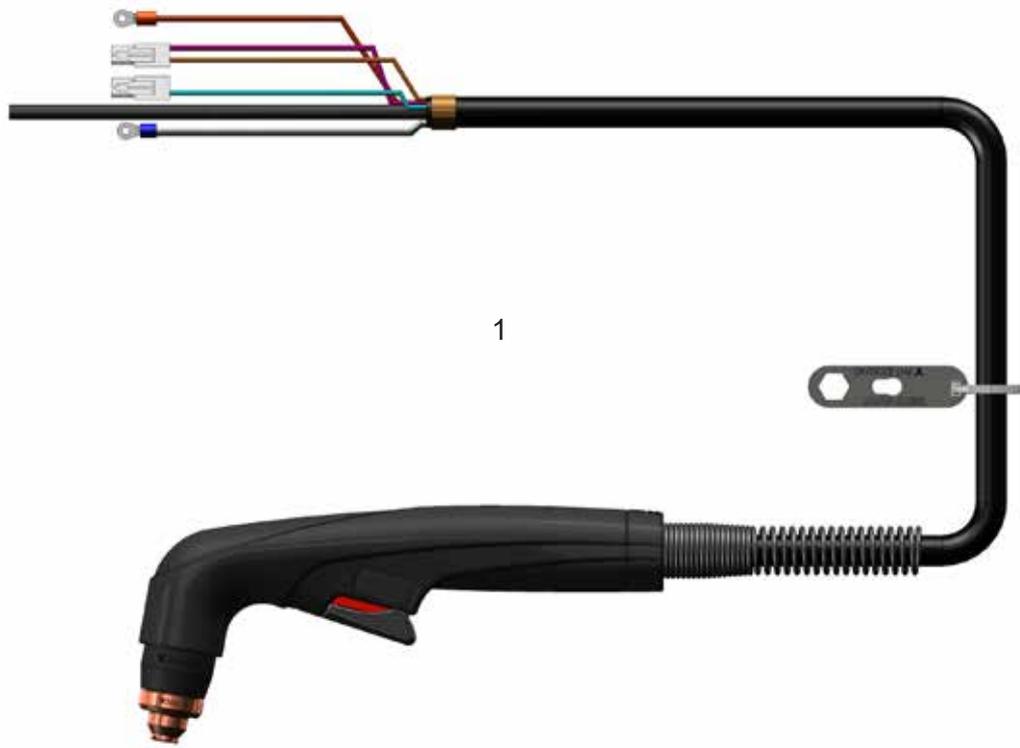
This particularly cost-effective entry-level torch is the result of decades of experience in the field of plasma cutting. It features a robust and durable design in which all consumables can be replaced quickly and easily.

BENEFITS

- An ergonomically shaped handheld torch that reduces fatigue
- Compact and particularly flexible for handheld applications, even if difficult to reach
- A long lifetime thanks to a 100% duty cycle at 21 A
- Optimal for plate thicknesses of up to 10 mm, thanks to 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: 10/01/2025. See Revision history for details.

HAND TORCH ASSEMBLY

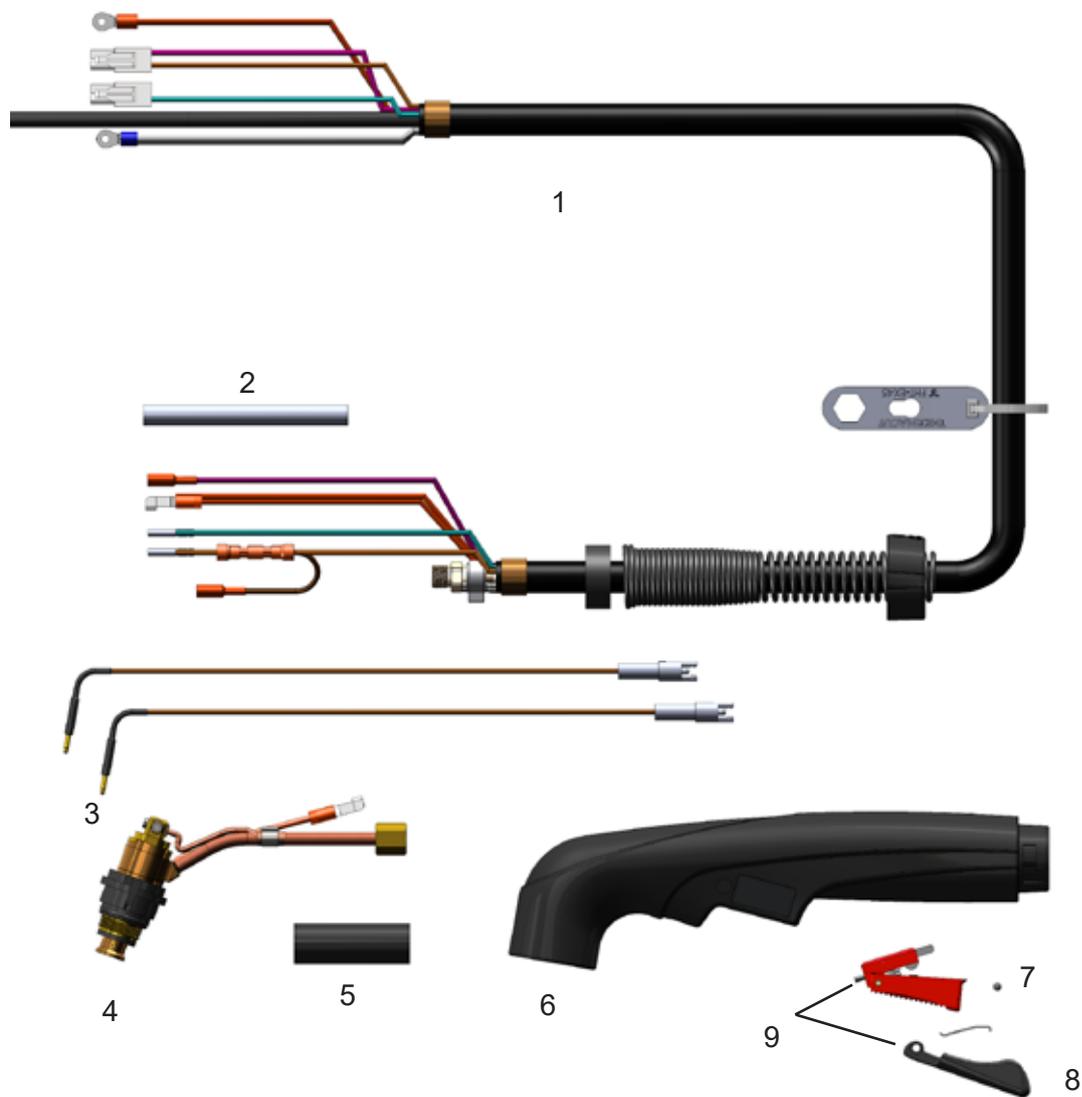


Item	Part No.	Description	Pcs.
1.	EX-1-134-001	FHT-EX®30H Hand Torch Assembly with 4m Lead/FC	1

Last update of this page: 10/01/2025. See Revision history for details.

FHT-EX® 30H

HAND TORCH COMPONENTS

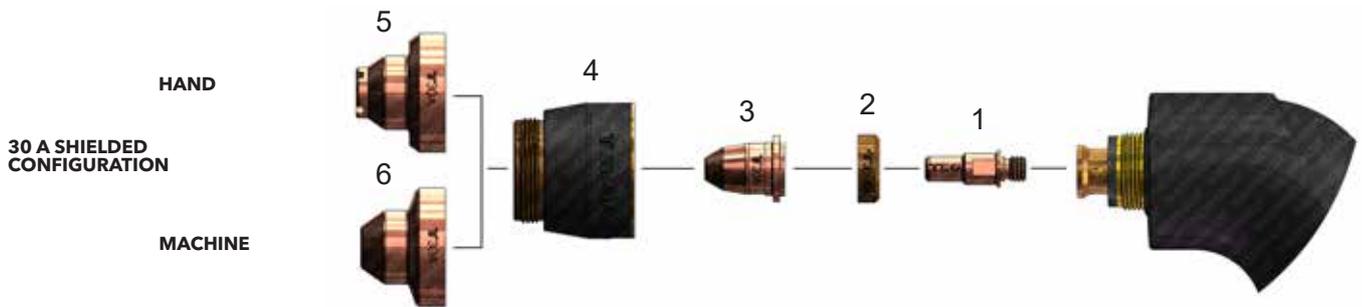


Item	Part No.	Description	Pcs.	Item	Part No.	Description	Pcs.
1.	EX-1-373-001	Hand Torch Lead Replacement Kit 4m Lead/FC	1	6.	EX-2-314-015	Hand Torch Handle Replacement Kit	1
2.	EX-0-319-021	Insulating Teflon Tube	1	7.	EX-5-309-013	Trigger	1
3.	EX-2-304-020	Hand Torch PIP Pins Replacement Kit (with Wires)	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: 10/01/2025. 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	a 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
a FOR USE WITH CIRCLE CUTTING GUIDE OR FOR BEVEL CUTTING

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

AVAILABLE BULK PACKS



Part No.	Description	Std. package QTY
EX-2-434-014	Bulk Pack-Electrode - 25pcs	1×25



Part No.	Description	Std. package QTY
EX-2-435-015	Bulk Pack-Nozzle 30A 0,8mm - 25pcs	1×25



Part No.	Description	Std. package QTY
EX-2-436-016	Bulk Pack - Hand (contact) Shield 30A - 18pcs	1×18
EX-2-437-017	Bulk Pack - Machine Shield 30A - 18pcs	1×18

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

AVAILABLE STARTER KIT



CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-2-432-012	Starter Kit 30A for Hand Torch FHT-EX®30/40H	1

Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
	EX-5-801-002	EX-5-801-002	Circle Cutting Guide Kit for FHT-EX®105RTXH/FHT-EX®105TTH/FHT-EX®45TTH	1
7.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105TTH/45TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm²/EU-plug 35-70 mm²	1
16.	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm²/EU-plug 10-25 mm²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
OD Only ON DEMAND
***** Items for use with Filter EX

Last update of this page: 10/01/2025. See Revision history for details.



40SD

EX-TRAFIRE[®]40SD

Sale discontinued



EX-TRAFIRE® 40SD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®40SD/CE/1×100-240 V Hand System/ Torch FHT-EX40H 4m/H Starter Kit	4 m	EX-2-010-001
EX-TRAFIRE®40SD/CE/1×100-240 V Hand System/ Torch FHT-EX40H 5m/H Starter Kit	5 m	EX-2-010-002
EX-TRAFIRE®40SD/CE/1×100-240 V Hand System/ Torch FHT-EX40H 7,5m/H Starter Kit	7.5 m	EX-2-010-003
EX-TRAFIRE®40SD/CE/1×100-240 V Hand System/ Torch FHT-EX40H 15m/H Starter Kit	15 m	EX-2-010-004
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®40SD/CE/1×100-240 V Machine System/ Torch FHT-EX40M 4m/M Starter Kit	4 m	EX-2-011-001
EX-TRAFIRE®40SD/CE/1×100-240 V Machine System/ Torch FHT-EX40M 5m/M Starter Kit	5 m	EX-2-011-002
EX-TRAFIRE®40SD/CE/1×100-240 V Machine System/ Torch FHT-EX40M 7,5m/M Starter Kit	7.5 m	EX-2-011-003
EX-TRAFIRE®40SD/CE/1×100-240 V Machine System/ Torch FHT-EX40M 15m/M Starter Kit	15 m	EX-2-011-004
PLASMA POWER SUPPLY UNITS		
EX-TRAFIRE®40SD/CE/1×100-240 V power supply unit (fully-equipped*)		EX-2-001-007

AVAILABLE BULK PACKS

Information about available bulk packs on the end of Torch Consumables section

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accesories on the last pages of this section

Last update of this page: 10/01/2025. See Revision history for details.

FHT-EX® 40H/M



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
- Long lifetime thanks to a 100 % duty cycle at 25 A
- Optimal for plate thicknesses of up to 15 mm, thanks to 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: 10/01/2025. See Revision history for details.

FHT-EX® 40H

HAND TORCH ASSEMBLY



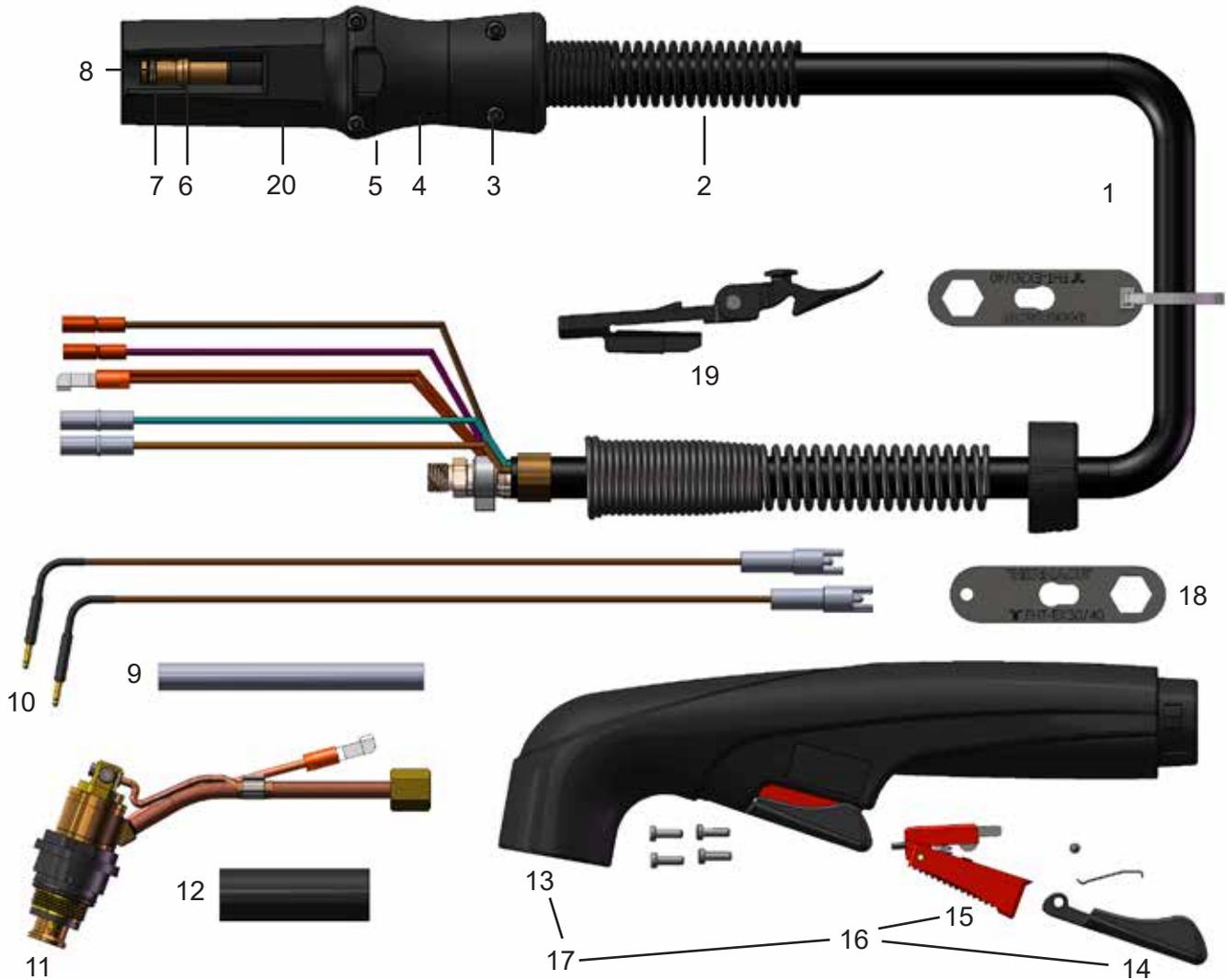
Item	Part No.	Description	Pcs
1.	EX-2-130-001	FHT-EX®40H Hand Torch Assembly w/o consumables/4m Lead/TCS13	1
	EX-2-101-003	FHT-EX®40H Hand Torch Assembly w/o consumables/5m Lead/TCS13	1
	EX-2-131-005	FHT-EX®40H Hand Torch Assembly w/o consumables/7.5m Lead/TCS13	1
	EX-2-106-007	FHT-EX®40H Hand Torch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

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

Last update of this page: 10/01/2025. 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	a 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

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

Last update of this page: 10/01/2025. See Revision history for details.

FHT-EX® 40M

MACHINE TORCH ASSEMBLY



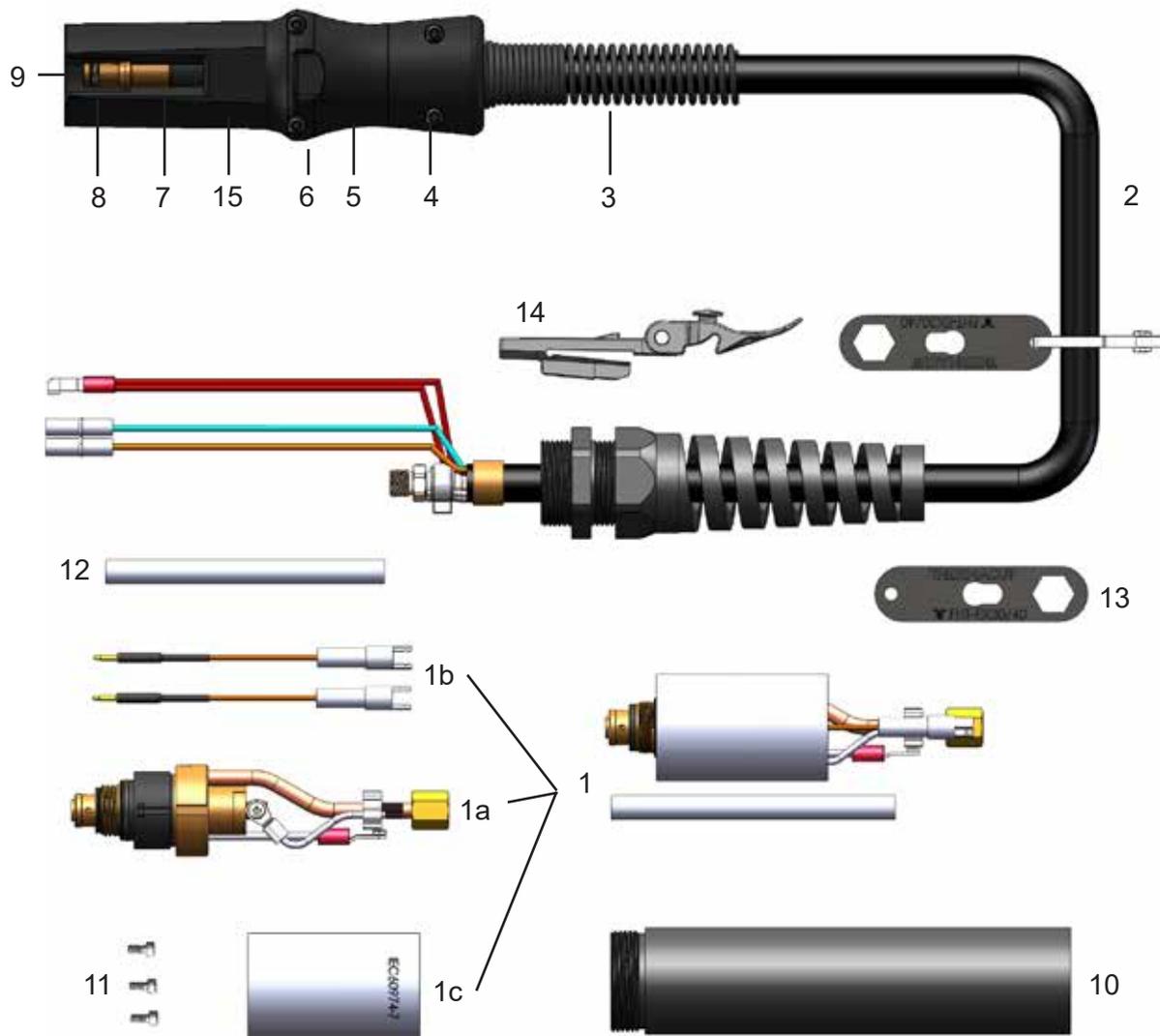
Item	Part No.	Description	Pcs
1.	EX-2-233-000	DEMO FHT-EX®40M Machine Torch Assembly/TCS13	1
	EX-2-235-001	FHT-EX®40M Machine Torch Assembly w/o consumables/4m Lead/TCS13	1
	EX-2-202-003	FHT-EX®40M Machine Torch Assembly w/o consumables/5m Lead/TCS13	1
	EX-2-236-005	FHT-EX®40M Machine Torch Assembly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

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

Last update of this page: 10/01/2025. 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	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	a 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

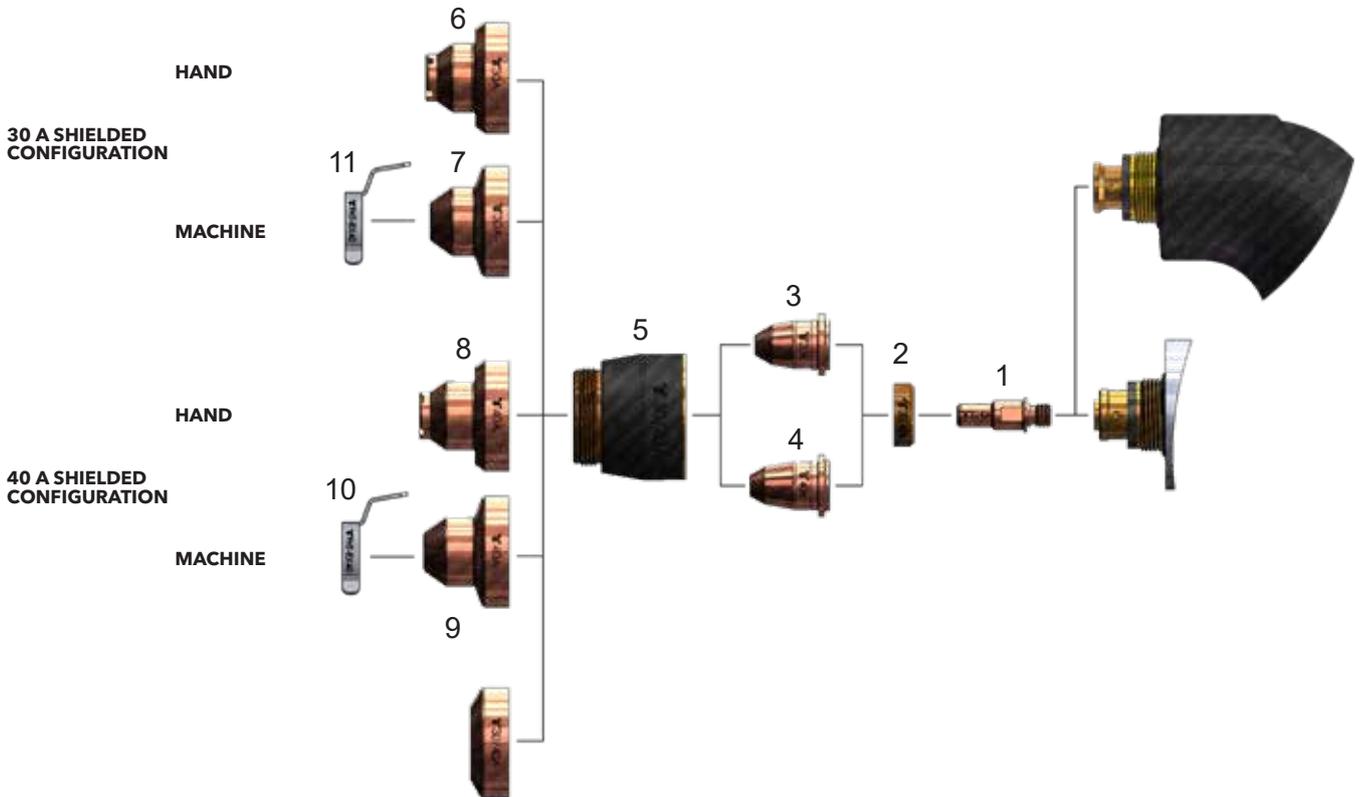
OD ON DEMAND - WE DO NOT KEEP THESE PARTS IN STOCK, COST IS SET ACCORDING TO THE ORDERED QUANTITY, DELIVERY TIME MAY DIFFER FROM STANDARD PRODUCT

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

Last update of this page: 10/01/2025. 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	a 9.	EX-2-421-001	Machine Shield 40 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
a 4.	EX-2-409-001	Nozzle 40 A 0.9 mm	5	a NS	EX-2-435-001	Bulk Pack - Nozzle 40 A 0.9 mm - 25 pcs	1
5.	EX-2-415-004	Nozzle Retaining Cap (Protection Cap)	1	NS	EX-2-437-017	Bulk Pack - Machine Shield 30 A - 18 pcs	1
6.	EX-2-419-005	Hand Shield 30 A	1	a NS	EX-2-437-001	Bulk Pack - Machine Shield 40 A - 18 pcs	1
7.	EX-2-421-006	Machine Shield 30 A	1	10.	EX-2-428-011	IHS Ohmic Clip	1
a 8.	EX-2-419-001	Hand Shield 40 A	1				

NS NOT SHOWN IN THE PICTURE

a ONLY FOR EX-TRAFIRE®40SD

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

AVAILABLE BULK PACKS



Part No.	Description	Std. package QTY
EX-2-434-014	Bulk Pack-Electrode - 25pcs	1×25



Part No.	Description	Std. package QTY
EX-2-435-001	Bulk Pack-Nozzle 40A, 0,9mm - 25pcs	1×25
EX-2-435-015	Bulk Pack-Nozzle 30A 0,8mm - 25pcs	1×25



Part No.	Description	Std. package QTY
EX-2-436-001	Bulk Pack - Hand (contact) Shield 40 A - 18 pcs	1×18
EX-2-436-016	Bulk Pack - Hand (contact) Shield 30 A - 18 pcs	1×18
EX-2-437-001	Bulk Pack - Machine Shield 40 A - 18 pcs	1×18
EX-2-437-017	Bulk Pack - Machine Shield 30 A - 18 pcs	1×18

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

AVAILABLE STARTER KIT



CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-2-432-013	Starter Kit 40A for Hand Torch FHT-EX®40H	1
EX-2-433-014	Starter Kit 40A for Machine Torch FHT-EX®40M	1

Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
	EX-5-801-002	EX-5-801-002	Circle Cutting Guide Kit for FHT-EX®105RTXH/FHT-EX®105TTH/FHT-EX®45TTH	1
7.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105TTH/45TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD 10.	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD OD 11.	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD OD 12.	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD 13.	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD OD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm ² /EU-plug 35-70 mm ²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm ² /EU-plug 35-70 mm ²	1
OD	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm ² /EU-plug 35-70 mm ²	1
OD	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm ² /EU-plug 35-70 mm ²	1
16 .	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm ² /EU-plug 10-25 mm ²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
 OD Only ON DEMAND
 * Items for use with Filter EX

Last update of this page: 10/01/2025. See Revision history for details.



EX-TRAFIRE^{45SD}

45SD

EX-TRAFIRE[®] 45SD

PROFESSIONAL AND VERSATILE PLASMA CUTTING SYSTEM



Automotive
and transportation



Steel mills and
steel service
centers



Structural



Shipyards
and Offshore



Heavy fabrication

EX-TRAFIRE® 45SD

SPECIFICATIONS

	SINGLE PHASE		THREE PHASE
Input voltage [VAC]	1×120 V +-15 %	1×230 V +-15 %	3×400 V +-15 %
Output current [A]	20-25	20-45	20-45
Plasma gas	Compressed air / nitrogen		
Certification	CE	CE	CE
Modes	standard cutting / gouging / grid cutting		
Frequency [Hz]	50/60		
Maximum input power [kVA]	4.4	7.59	11.2
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 × H × W) [mm]	470 × 229 × 177		
Weight [kg]	12,7		
Recommended cutting capacity [mm]	4	10	
Severance cutting capacity [mm]	6	25	
Piercing capacity [mm]	4	10	
Air flow @ [lpm/bar]	90/4.8		
Maximum input pressure [bar/psi]	10/145		
Protection level	IP23S		
Insulation class	F		
CNC interface	YES		
Type of hand torch	FHT-EX®45TTH		
Type of machine torch	FHT-EX®45TTM		

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

⁽²⁾Suitable for generator use



3 DIFFERENT OPERATION MODES

Lightweight, exceptionally portable system with precise cuts suitable for generator use. The mobile EX-TRAFIRE®45SD plasma cutting system is engineered for professionals and demanding beginners.



CUTTING



GRID CUTTING



GOUGING

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

EX-TRAFIRE® 45SD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®45SD/CE/3×400 V / Torch FHT-EX®45TTH /H Starter Kit	5 m / 16.4 ' /	EX-2-010-011
EX-TRAFIRE®45SD/CE/3×400 V / Torch FHT-EX®45TTH /H Starter Kit	8 m / 26.2 ' /	EX-2-010-012
EX-TRAFIRE®45SD/CE/3×400 V / Torch FHT-EX45®TTH /H Starter Kit	15 m / 49.2 ' /	EX-2-010-013
EX-TRAFIRE®45SD/CE/1×110/230 V / Torch FHT-EX45®TTH /H Starter Kit	5 m / 16.4 ' /	EX-2-010-020
EX-TRAFIRE®45SD/CE/1×110/230 V / Torch FHT-EX45®TTH /H Starter Kit	8 m / 26.2 ' /	EX-2-010-021
EX-TRAFIRE®45SD/CE/1×110/230 V / Torch FHT-EX45®TTH /H Starter Kit	15 m / 49.2 ' /	EX-2-010-022
MECHANIZED PLASMA CUTTING SYSTEMS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®45SD/CE/3×400 V / Torch FHT-EX45®TTM /M Starter Kit	5 m / 16.4 ' /	EX-2-011-008
EX-TRAFIRE®45SD/CE/3×400 V / Torch FHT-EX45®TTM /M Starter Kit	8 m / 26.2 ' /	EX-2-011-009
EX-TRAFIRE®45SD/CE/3×400 V / Torch FHT-EX45®TTM /M Starter Kit	15 m / 49.2 ' /	EX-2-011-010
EX-TRAFIRE®45SD/CE/1×110/230 V / Torch FHT-EX45®TTM /M Starter Kit	5 m / 16.4 ' /	EX-2-011-014
EX-TRAFIRE®45SD/CE/1×110/230 V / Torch FHT-EX45®TTM /M Starter Kit	8 m / 26.2 ' /	EX-2-011-015
EX-TRAFIRE®45SD/CE/1×110/230 V / Torch FHT-EX45®TTM /M Starter Kit	15 m / 49.2 ' /	EX-2-011-016
PLASMA POWER SUPPLY UNITS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®45SD/CE/3×400 V power supply unit		EX-2-001-030
EX-TRAFIRE®45SD/CE/1×110/230 V power supply unit		EX-2-001-024

AVAILABLE BULK PACKS

Information about available bulk packs on the end of Torch Consumables section

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accessories on the last pages of this section

Last update of this page: 10/01/2025. See Revision history for details.

FHT-EX® 45TT



MODERN AND CAPABLE TORCH



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 40 A, recommended for industrial use
- Optimal for plate thicknesses of up to 25 mm, thanks to 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

Last update of this page: 10/01/2025. See Revision history for details.

FHT-EX® 45TTH

HAND TORCH ASSEMBLY



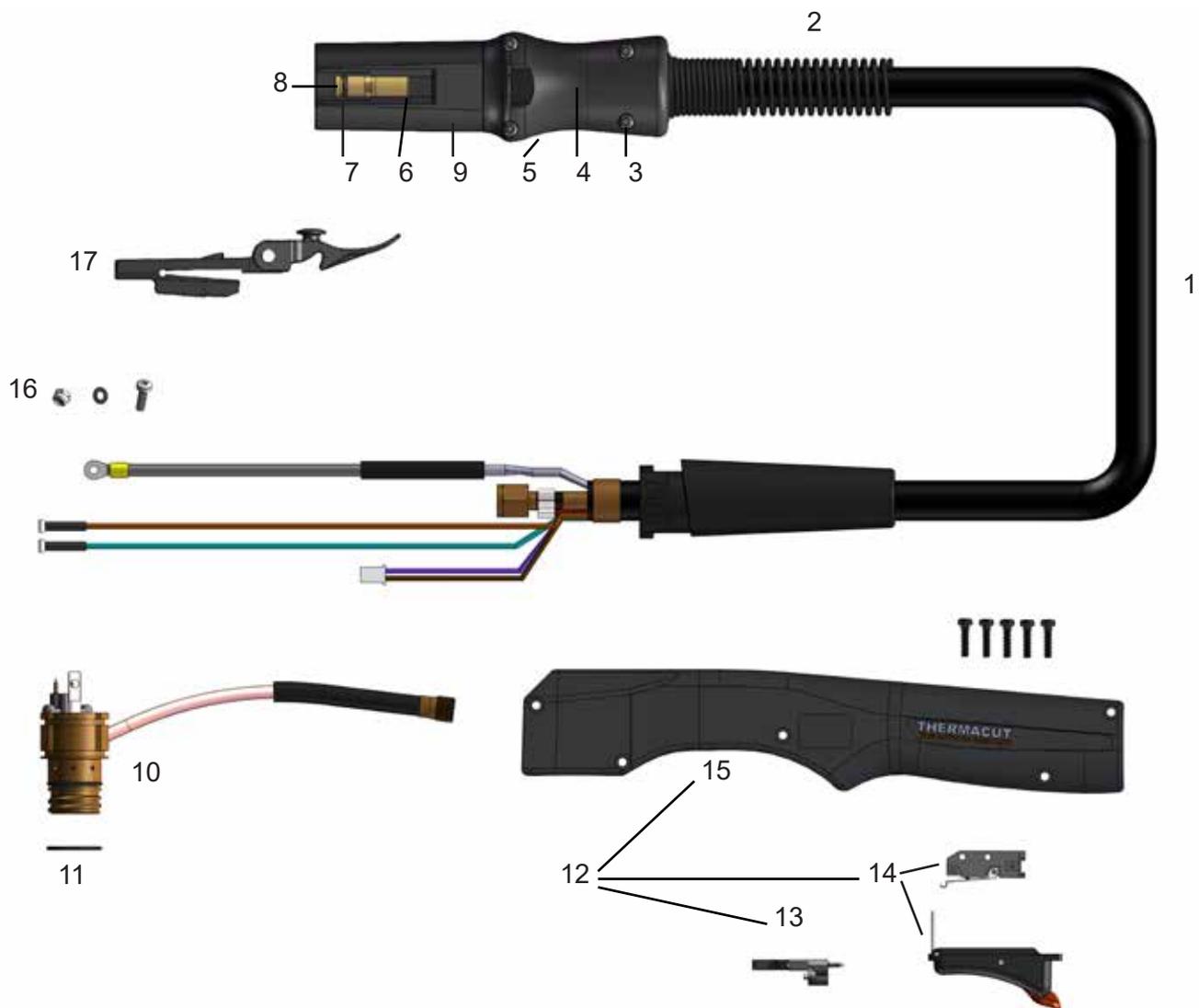
Item	Part No.	Description	Pcs
1.	EX-2-133-001	FHT-EX45®TTH DEMO Hand Torch Assembly w/consumables/TCS13	1
	EX-2-101-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-103-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-106-001	FHT-EX45®TTH Hand Torch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

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

Last update of this page: 10/01/2025. 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	a 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



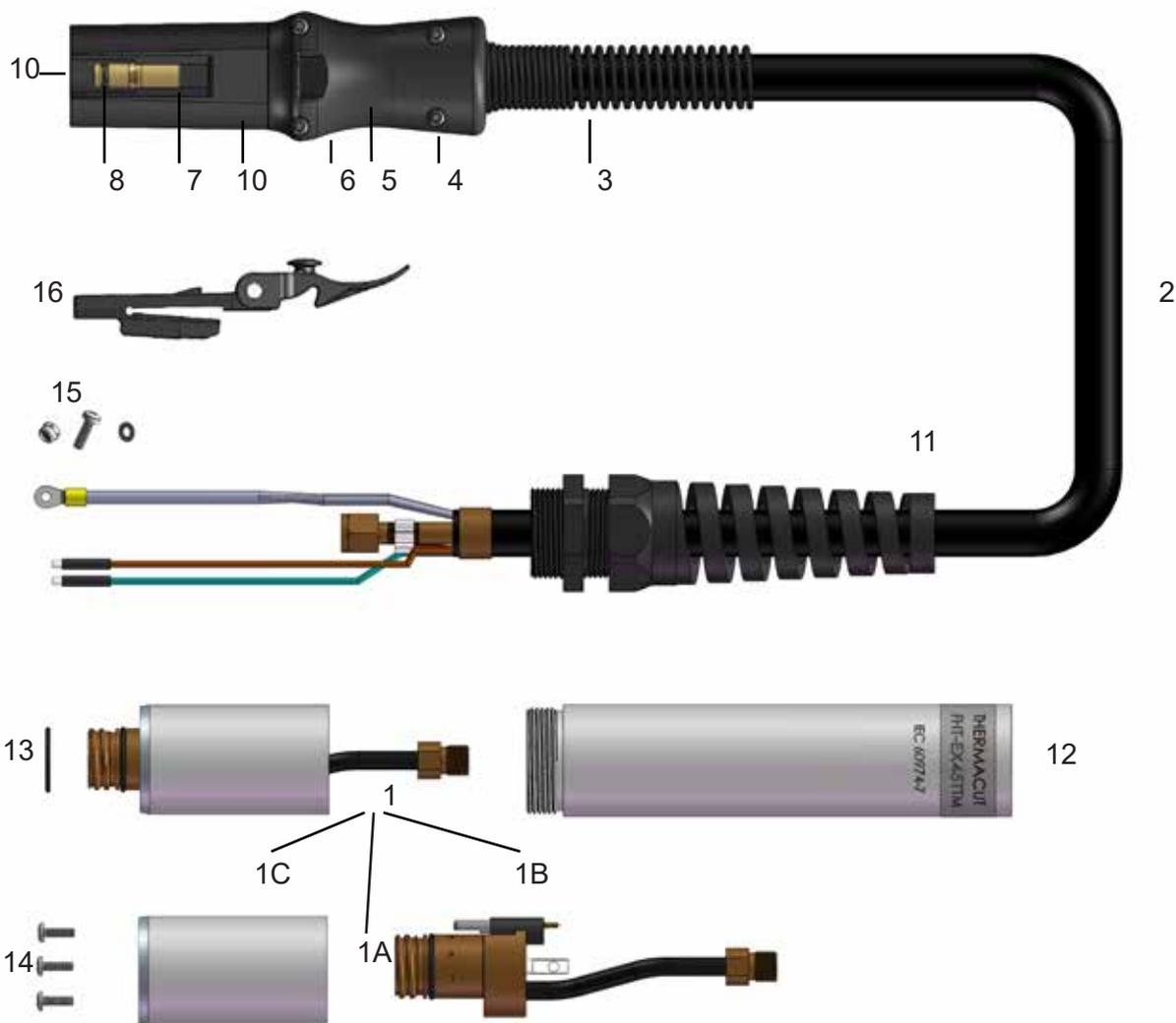
Item	Part No.	Description	Pcs
1.	EX-2-233-001	FHT-EX®45TTM DEMO Machine Torch Assembly w/consumables/TCS13	1
	EX-2-202-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-204-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-207-001	FHT-EX®45TTM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

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FHT-EX® 45TTM

MACHINE TORCH COMPONENTS



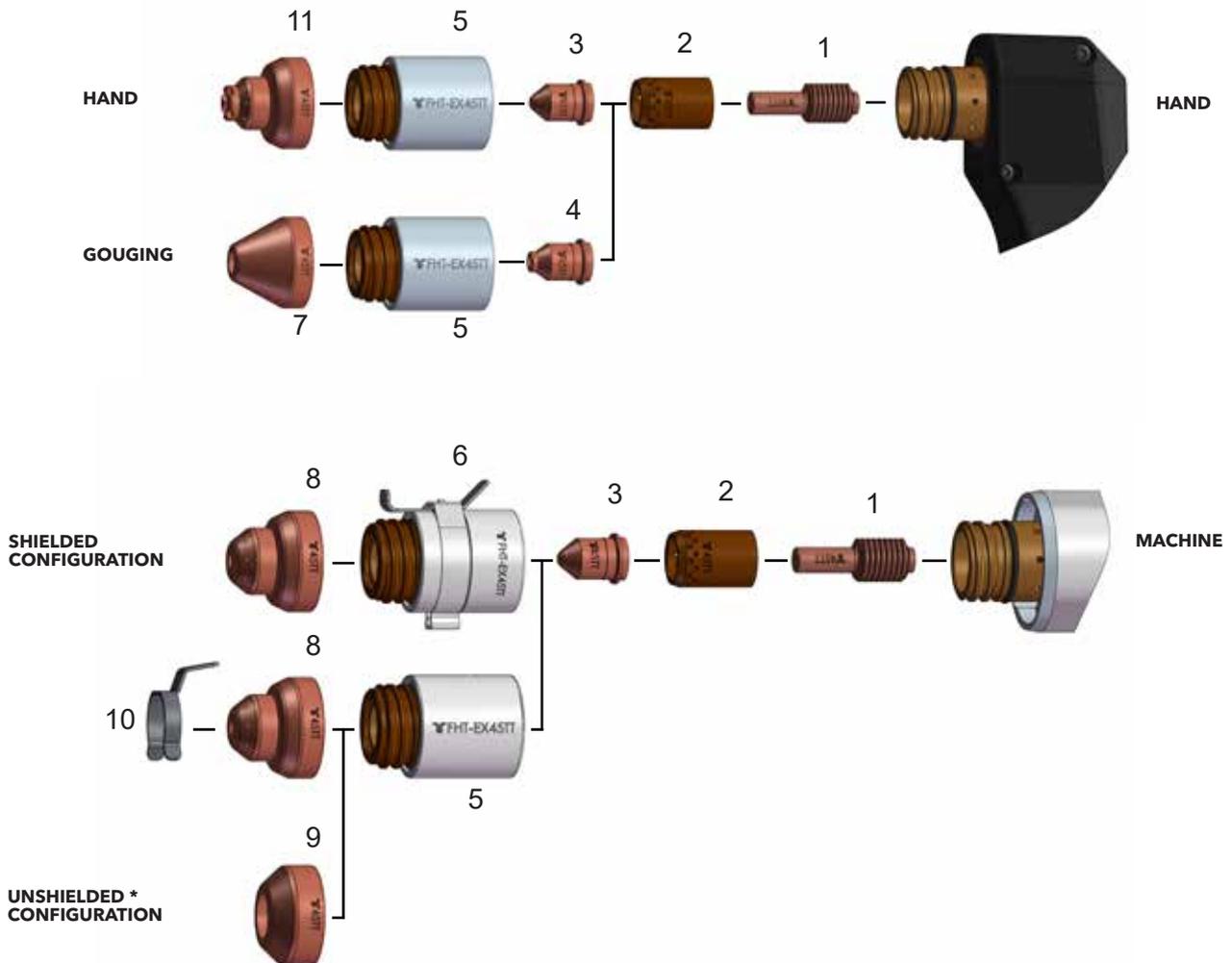
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-2-301-001	Machine Torch Body Assembly FHT-EX®45TTM	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-2-301-002	Machine Torch Body FHT-EX®45TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-001	Cap Sensor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

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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: 10/01/2025. See Revision history for details.

CONSUMABLES

AVAILABLE BULK PACKS



Part No.	Description	Std. package QTY
EX-2-434-201	Bulk Pack-Electrode - 25pcs	1×25



Part No.	Description	Std. package QTY
EX-2-435-201	Bulk Pack-Nozzle - 25pcs	1×25



Part No.	Description	Std. package QTY
EX-2-436-201	Bulk Pack - Hand (Contact) Shield - 18pcs	1×18
EX-2-437-201	Bulk Pack - Machine Shield - 18pcs	1×18

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

AVAILABLE STARTER KIT



CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-2-432-001	Starter Kit 45A for Hand Torch FHT-EX®45TTH	1
EX-2-433-001	Starter Kit 45A for Machine Torch FHT-EX®45TTM	1

AVAILABLE TORCH CONSUMABLE KITS FOR ASSEMBLING



Item	Part No.	Description	Std. package QTY
1.	EX-2-439-001	H45A Consumable kit for assembling of FHT-EX®45TTH torch	1
2.	EX-2-439-002	M45A Consumable kit for assembling of FHT-EX®45TTM torch	1

Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
6.	EX-5-801-002	EX-5-801-002	Circle Cutting Guide Kit for FHT-EX®105RTXH/FHT-EX®105TTH/FHT-EX®45TTH	1
7.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105TTH/45TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD 10.	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD OD 11.	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD OD 12.	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD 13.	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD OD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm ² /EU-plug 35-70 mm ²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm ² /EU-plug 35-70 mm ²	1
OD	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm ² /EU-plug 35-70 mm ²	1
OD	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm ² /EU-plug 35-70 mm ²	1
16.	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm ² /EU-plug 10-25 mm ²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
OD Only ON DEMAND
***** Items for use with Filter EX

Last update of this page: 10/01/2025. See Revision history for details.



EX-TRAFIRE[®] 55SD

BEST IN CLASS PLASMA CUTTING SYSTEM



Automotive and transportation



Steel mills and steel service centers



Structural



Shipyards and Offshore



Heavy fabrication

EX-TRAFIRE® 55 SD

SPECIFICATIONS

Output current [A]	30-55
Modes	standard cutting / gouging / grid cutting
Duty cycle @ 40° C	50 % @ 55 A, 100 % @ 41 A / 60 % @ 50 A, 100 % @ 41 A
Output voltage [VDC]	170 V @ 3 × 400 VAC
Severance cutting capacity [mm]	30 ⁽¹⁾
Piercing capacity [mm]	16 ⁽¹⁾
Recommended cutting capacity [mm]	16 ⁽¹⁾
Plasma gas	Compressed air / nitrogen
Max. Air flow (cutting) [lpm/bar]	98/5.2
CNC interface	YES
Input voltage [VAC]	CE 3 × 400 VAC ± 15 %
Frequency [Hz]	50/60
Dimensions (L×H×W)[mm]	469.9 × 228.6 × 177
Weight [kg]	11.8
Certification depending on region	CE, C-TICK, CCC
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	H/F
Type of hand torch	FHT-EX®105RTX H
Type of machine torch	FHT-EX®105RTX M

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

⁽²⁾ Suitable for generator use

3 DIFFERENT OPERATION MODES

Lightweight, exceptionally portable system with exact cuts and high duty cycle. System is suitable for generator use. The EX-TRAFIRE® 55 SD plasma cutting system is engineered for professional applications.



Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

EX-TRAFIRE® 55SD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®55SD/CE/3×400 V / Torch FHT-EX®105RTXH /H Starter Kit	8 m / 26.2'	EX-3-010-034
EX-TRAFIRE®55SD/CE/3×400 V / Torch FHT-EX®105RTXH /H Starter Kit	15 m / 49.2'	EX-3-010-035
MECHANIZED PLASMA CUTTING SYSTEMS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®55SD/CE/3×400 V / Torch FHT-EX®105RTXM-NR /M Starter Kit	8 m / 26.2'	EX-3-011-030
EX-TRAFIRE®55SD/CE/3×400 V / Torch FHT-EX®105RTXM-NR /M Starter Kit	15 m / 49.2'	EX-3-011-031
PLASMA POWER SUPPLY UNITS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®55SD/CE/3×400 V power supply unit		EX-3-001-001

AVAILABLE BULK PACKS

Information about available bulk packs on the end of Torch Consumables section

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

AVAILABLE CONSUMABLE KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accesories on the last pages of this section

Last update of this page: 10/01/2025. See Revision history for details.

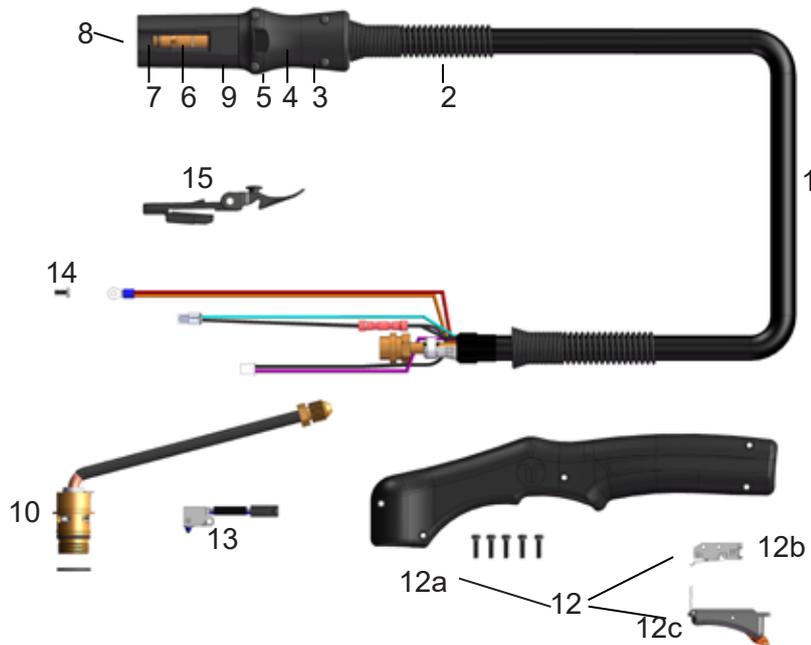
FHT-EX® 105RTXH

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
a	2.	EX-0-321-003 Latch w/Key Assembly	1

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



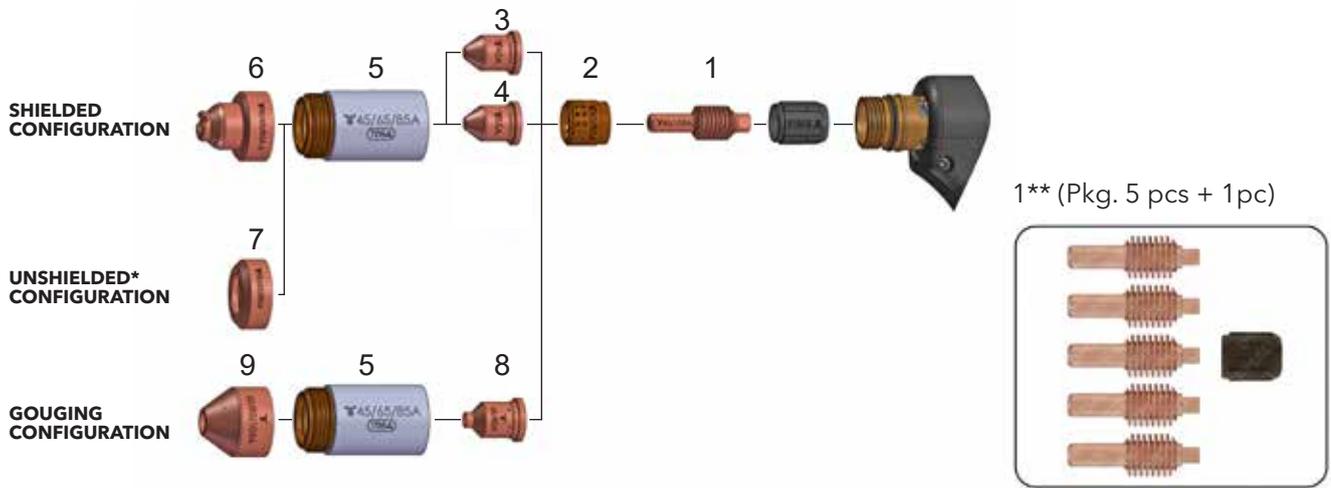
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-005	FHT-EX®105RTXH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-030	Hand Torch Body Replacement Kit	1
1.	EX-5-374-006	FHT-EX®105RTXH Hand Torch Lead Replacement 15m (50')/TCS13	1	11.	EX-5-431-050	Torch Body O-Ring	2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

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

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

HAND TORCH STANDARD CONSUMABLES - 45-85 A



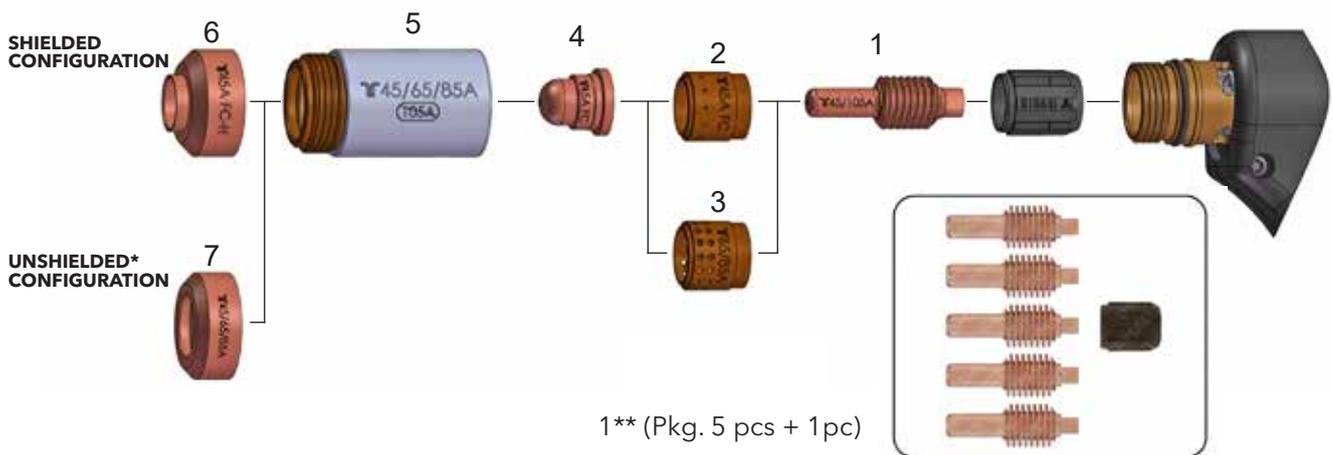
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5pcs package) **	1×5	6.	EX-5-419-030	Shield 45-85 A, Hand	1
2.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-423-031	Deflector 45-105 A	1
3.	EX-5-410-036	Nozzle 45 A (5 pcs package) ***	1×5	8.	EX-5-440-031	Nozzle 45-85 A, Gouging (5 pcs package) ***	1×5
4.	EX-5-410-037	Nozzle 55/65 A (5 pcs package) ***	1×5	9.	EX-5-440-030	Shield 45-105 A, Gouging	1
5.	EX-5-415-030	Retaining Cap 45-85 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 + 1PC OF SWIRL RING HOLDER SET ONLY

*** THIS PART IS AVAILABLE IN 5 PCS

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) **	1×5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-030	Swirl Ring 45-105 A / Smoothline	1	7.	EX-5-423-030	Deflector 45 A / Smoothline	1
3.	EX-5-404-031	Swirl Ring 10-85 A	1	8.	EX-5-423-031	Deflector 45-105 A	1
4.	EX-5-410-035	Nozzle 45 A / Smoothline (5 pcs package) ***	1×5				

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

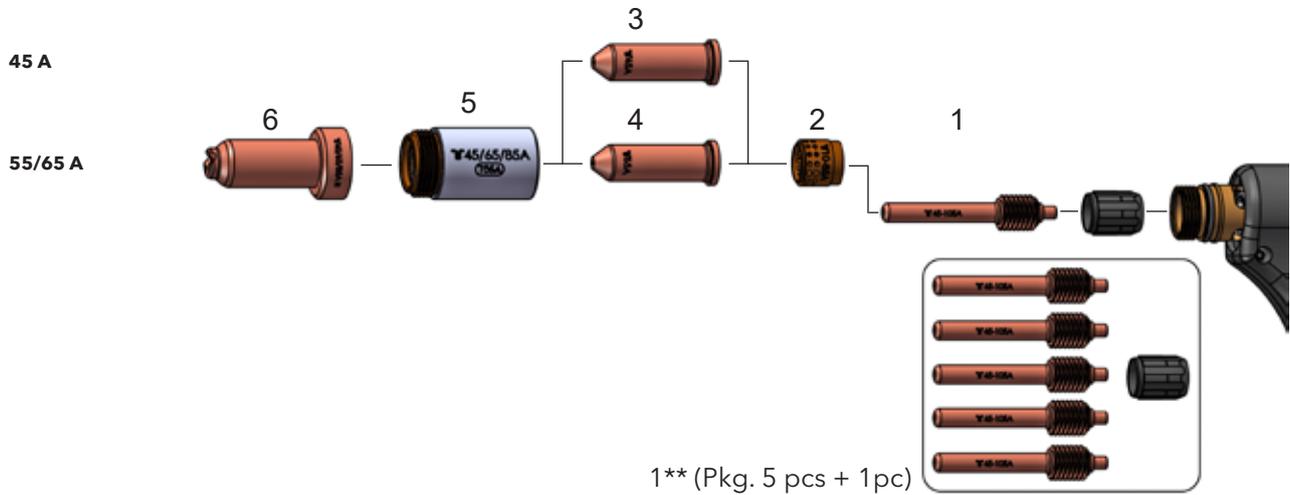
** THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

*** THIS PART IS AVAILABLE IN 5 PCS

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

HAND TORCH EXTENDED CONSUMABLES 45-85 A



Item	Part No.	Description.	Pcs	Item	Part No.	Description.	Pcs
1.	EX-5-402-001	Electrode 45-105 A, Extended (5pcs package) - part is available in 5pcs set only *	1 x 5	4.	EX-5-406-002	Nozzle 55/65 A, Extended	5
2.	EX-5-404-031	Swirl Ring 10-85 A	1	6.	EX-5-415-030	Retaining Cap 45-85 A	1
3.	EX-5-406-001	Nozzle 45 A, Extended	5	7.	EX-5-420-001	Shield 45-85 A, Hand Extended	1

* THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

Last update of this page: 10/01/2025. See Revision history for details.

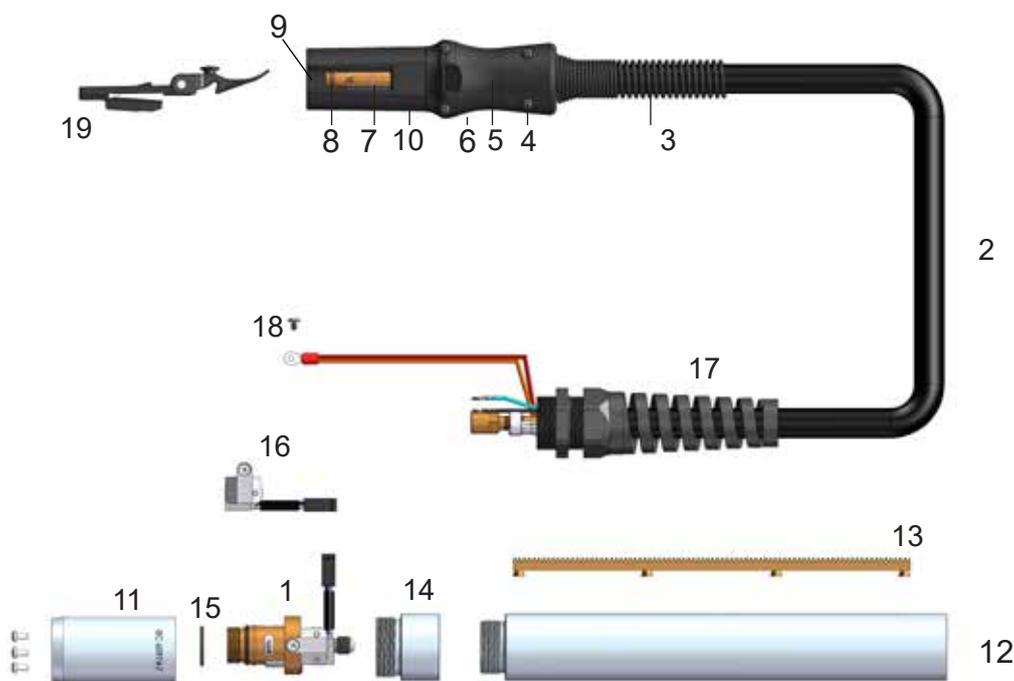
FHT-EX® 105RTXM

MACHINE TORCH ASSEMBLY AND TORCH COMPONENTS



Item	Part No.	Description
1.	EX-5-240-001	FHT-EX®105RTXM Machine Torch Assy-w/o consumables w/8m Lead/ TCS13
	EX-5-240-005	FHT-EX®105RTXM Machine Torch 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
a 3.	EX-0-321-003	Latch w/Key Assembly

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



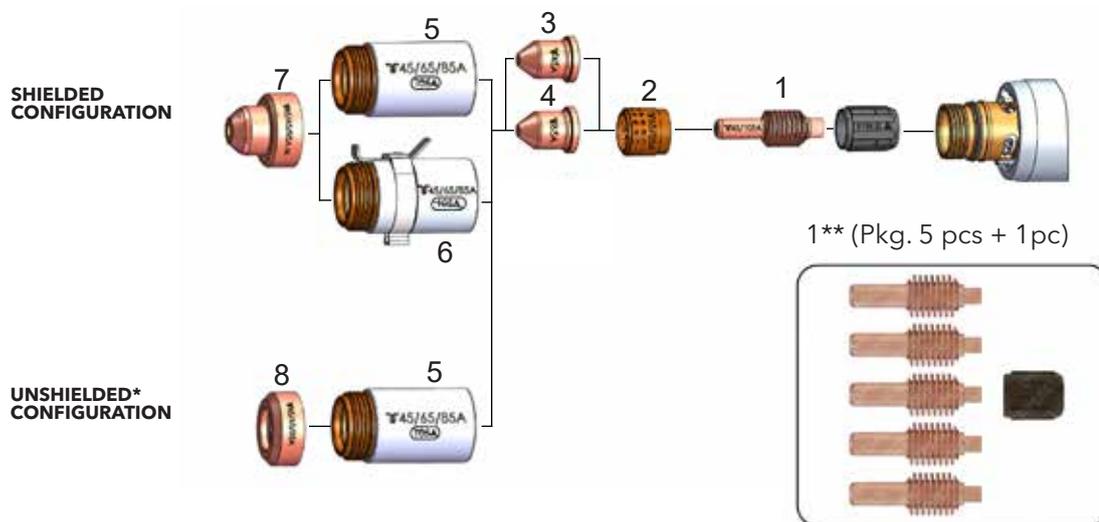
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-303-030	Machine Torch Body Replacement Kit	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
2.	EX-5-375-001	FHT-EX® 105RTXM Machine Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-0-323-001	TCS13 Plug Body	1
2.	EX-5-375-002	FHT-EX® 105RTXM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

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

Last update of this page: 10/01/2025. 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) **	1×5	5.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 10-85 A	1	6.	EX-5-415-031	Retaining Cap 45-85 A, IHS Tab	1
3.	EX-5-410-036	Nozzle 45 A	5	7.	EX-5-421-031	Shield 45-85 A, Machine	1
4.	EX-5-410-037	Nozzle 55/65 A (5 pcs package) ***	1×5	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.

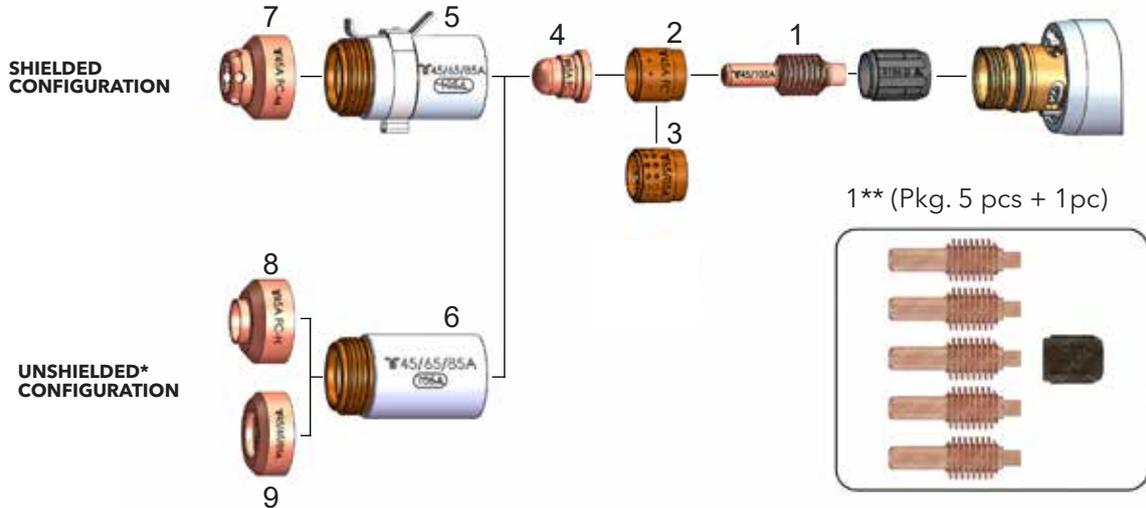
** THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

*** THIS PART IS AVAILABLE IN 5 PCS

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

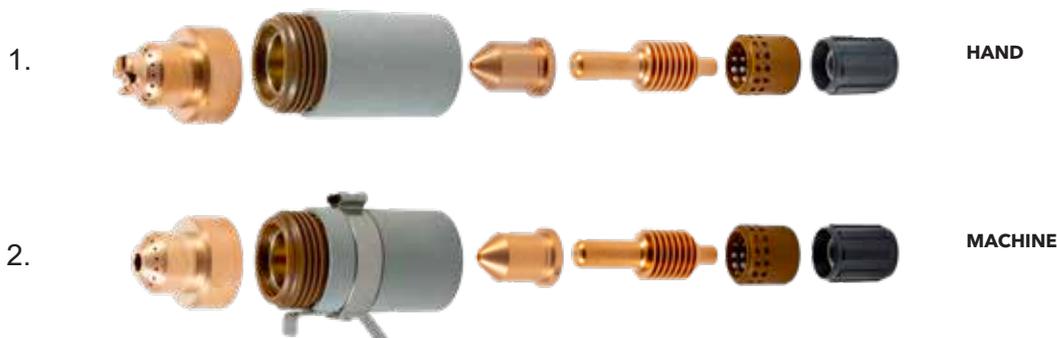
MACHINE TORCH CONSUMABLES - SMOOTHLINE



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

* IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.
 ** THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY
 *** THIS PART IS AVAILABLE IN 5 PCS

AVAILABLE TORCH CONSUMABLE KITS FOR ASSEMBLING



Item	Part No.	Description	Std. package QTY
1.	EX-3-439-031	RTXH55/65A Consumable kit for assembling of FHT-EX®105RTXH torch	1
2.	EX-3-439-030	RTXM55/65A Consumable kit for assembling of FHT-EX®105RTXM torch	1

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

AVAILABLE BULK PACKS



Part No.	Description	Std. package QTY
EX-5-434-001	Bulk Pack BP25 - Electrode 45-105 A (including 5 pcs of the swirl ring holder)	1×25 (+5)



Part No.	Description	Std. package QTY
EX-5-435-001	Bulk Pack BP25 - Nozzle 55/65 A	1×25



Part No.	Description	Std. package QTY
EX-5-437-001	Bulk Pack BP18 - Shield 45-85 A, Machine	1×18

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

AVAILABLE STARTER KIT



CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-5-432-030	Starter Kit 55/65 A for Hand Torch FHT-EX®105RTXH	1
EX-5-433-030	Starter Kit 55/65 A for Machine Torch FHT-EX®105RTXM	1

AVAILABLE CONSUMABLE KITS



CONTAIN OF THE PACKAGE

- 5 pcs of electrodes + 1 pc of swirl ring holder
- 5 pcs of nozzles
- 2 pcs of Hand/Machine shields
- 1 pc of retaining cup (Machine version with IHS Tab)
- 1 pc of swirl ring
- 2 pcs of torch body O-ring

Part No.	Description	Std. package QTY
EX-3-443-001	Consumable Kit 55/65 A for Hand Torch FHT-EX®105RTXH	1
EX-3-444-001	Consumable Kit 55/65 A for Machine Torch FHT-EX®105RTXM	1

Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
6.	EX-5-801-002	EX-5-801-002	Circle Cutting Guide Kit for FHT-EX®105RTXH/FHT-EX®105TTH/FHT-EX®45TTH	1
7.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105TTH/45TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm²/EU-plug 35-70 mm²	1
	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm²/EU-plug 35-70 mm²	1
	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm²/EU-plug 35-70 mm²	1
16.	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm²/EU-plug 10-25 mm²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
 OD Only ON DEMAND
 * Items for use with Filter EX

Last update of this page: 10/01/2025. See Revision history for details.



75SD

EX-TRAFIRE[®] 75SD

ENGINEERED FOR ENDURANCE PLASMA CUTTING SYSTEM



Automotive
and transportation



Steel mills and
steel service
centers



Structural



Shipyards
and Offshore



Heavy fabrication

EX-TRAFIRE® 75SD

SPECIFICATIONS

Output current [A]	30-75
Modes	standard cutting / gouging / grid cutting
Duty cycle @ 40° C	100% @ 75 A
Output voltage [VDC]	170 V (EXTRA-BOOST 220 V)
Severance cutting capacity [mm]	35 ⁽¹⁾
Piercing capacity [mm]	20 ⁽¹⁾
Recommended cutting capacity [mm]	25 ⁽¹⁾
Plasma gas	compressed air / nitrogen
Max. Air flow (cutting) [lpm/bar]	110 @ 5.2
CNC interface	YES
Input voltage [VAC]	3 × 400 VAC ± 15 %
Frequency [Hz]	50/60
Dimensions (L×H×W)[mm]	560 × 400 × 265
Weight [kg]	24
Certification depending on region	CE
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®105RTX H
Type of machine torch	FHT-EX®105RTX M

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

⁽²⁾ Suitable for generator use



4 DIFFERENT OPERATION MODES

Powerful and lightweight system with 100% duty cycle. System is suitable for generator use, it is engineered especially for mechanised applications. The EX-TRAFIRE® 75 SD plasma cutting system is engineered for professionals.



CUTTING



GRID CUTTING



GOUGING

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

EX-TRAFIRE® 75SD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®75SD/CE/3×400 V / Torch FHT-EX®105RTXH /H Starter Kit	8 m / 26.2'	EX-4-010-041
EX-TRAFIRE®75SD/CE/3×400 V / Torch FHT-EX®105RTXH /H Starter Kit	15 m / 49.2'	EX-4-010-042
MECHANIZED PLASMA CUTTING SYSTEMS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®75SD/CE/3×400 V / Torch FHT-EX®105RTXM-NR /M Starter Kit	8 m / 26.2'	EX-4-011-030
EX-TRAFIRE®75SD/CE/3×400 V / Torch FHT-EX®105RTXM-NR /M Starter Kit	15 m / 49.2'	EX-4-011-031
PLASMA POWER SUPPLY UNITS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®75SD/CE/3×400 V power supply unit		EX-4-001-004

AVAILABLE BULK PACKS

Information about available bulk packs on the end of Torch Consumables section

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

AVAILABLE CONSUMABLE KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accessories on the last pages of this section

Last update of this page: 10/01/2025. 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 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 75 A, ideal for continuous industrial use
- Optimal for plate thicknesses of up to 35 mm, thanks to 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®75SD power supply

Last update of this page: 10/01/2025. See Revision history for details.

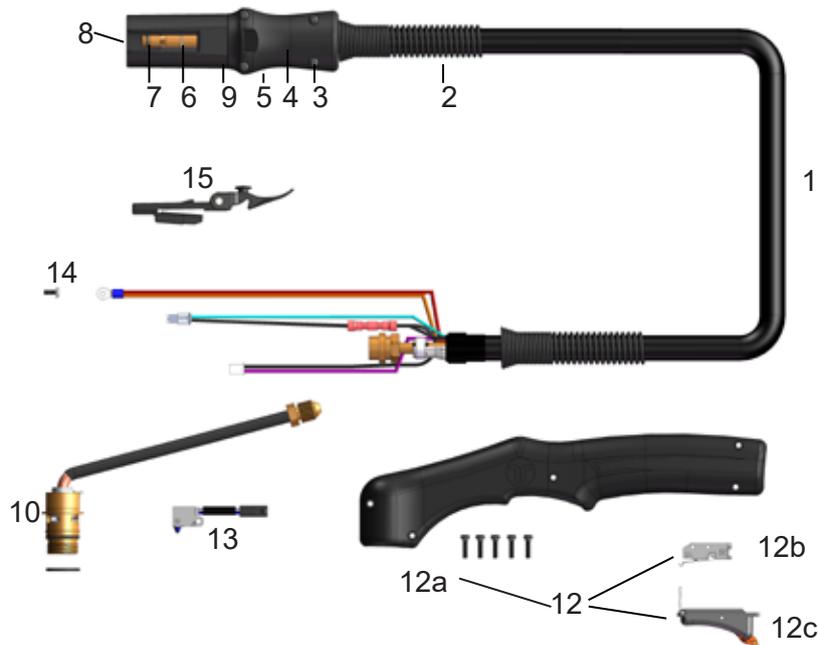
FHT-EX® 105RTXH

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
a	2.	EX-0-321-003 Latch w/Key Assembly	1

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



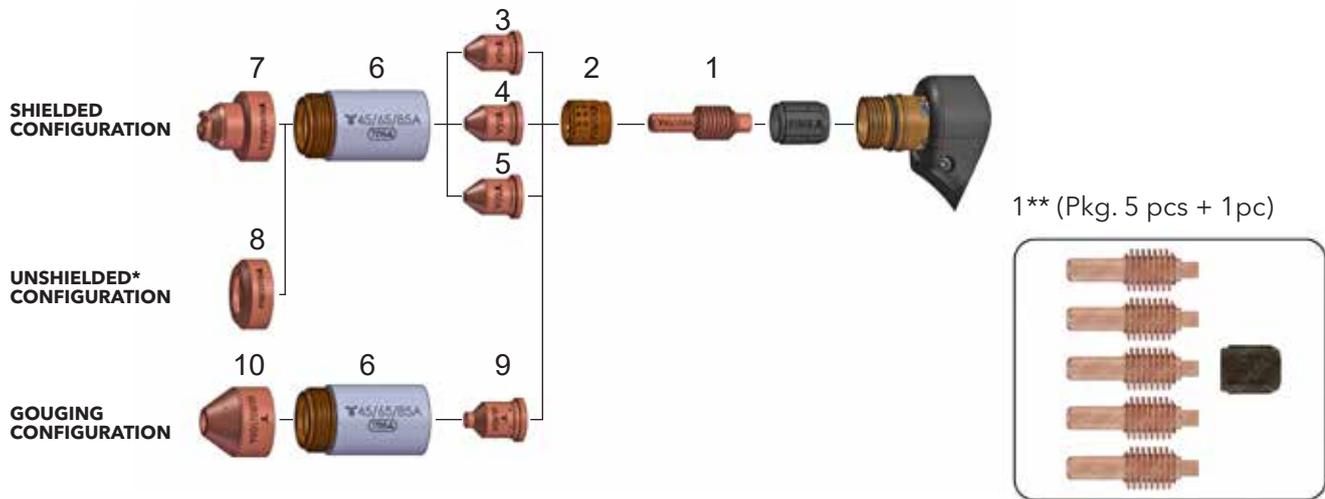
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-005	FHT-EX®105RTXH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-030	Hand Torch Body Replacement Kit	1
1.	EX-5-374-006	FHT-EX®105RTXH Hand Torch Lead Replacement 15m (50')/TCS13	1	11.	EX-5-431-050	Torch Body O-Ring	2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

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

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

HAND TORCH STANDARD CONSUMABLES - 45-85 A



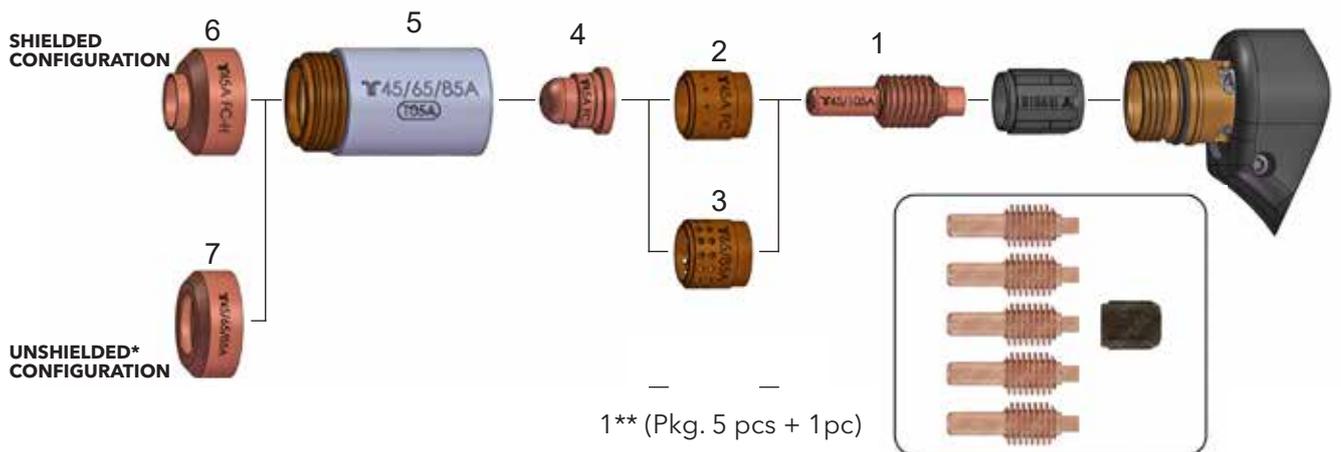
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5pcs package) **	1×5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-419-030	Shield 45-85 A, Hand	1
3.	EX-5-410-036	Nozzle 45 A (5 pcs package) ***	1×5	8.	EX-5-423-031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

*** THIS PART IS AVAILABLE IN 5 PCS

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) **	1×5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-030	Swirl Ring 45-105 A / Smoothline	1	7.	EX-5-423-030	Deflector 45 A / Smoothline	1
3.	EX-5-404-031	Swirl Ring 10-85 A	1	8.	EX-5-423-031	Deflector 45-105 A	1
4.	EX-5-410-035	Nozzle 45 A / Smoothline (5 pcs package) ***	1×5				

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

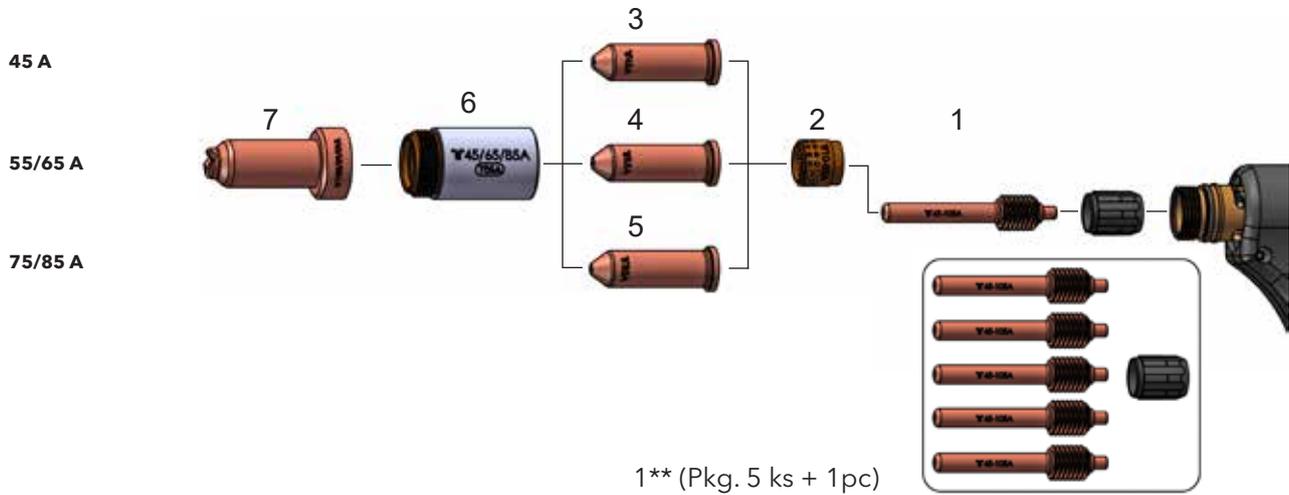
** THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

*** THIS PART IS AVAILABLE IN 5 PCS

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

HAND TORCH EXTENDED CONSUMABLES 45-85 A



Item	Part No.	Description.	Pcs	Item	Part No.	Description.	Pcs
1.	EX-5-402-001	Electrode 45-105 A, Extended (5pcs package) - part is available in 5pcs set only *	1 × 5	4.	EX-5-406-002	Nozzle 55/65 A, Extended	5
2.	EX-5-404-031	Swirl Ring 10-85 A	1	5.	EX-5-406-003	Nozzle 75/85 A, Extended	5
3.	EX-5-406-001	Nozzle 45 A, Extended	5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
				7.	EX-5-420-001	Shield 45-85 A, Hand Extended	1

* THIS PART IS AVAILABLE IN 5 KS + 1PC OF SWIRL RING HOLDER SET ONLY

Last update of this page: 10/01/2025. See Revision history for details.

FHT-EX® 105RTXM



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.

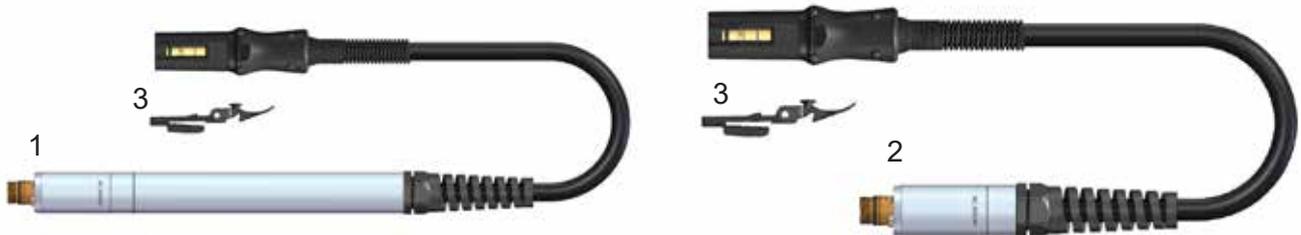
BENEFITS

- Extremely high-performance torches for mechanised applications
- 100 % duty cycle at 75 A, ideal for continuous industrial use
- Optimal for plate thicknesses of up to 35 mm, thanks to 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®75SD power supply

Last update of this page: 10/01/2025. See Revision history for details.

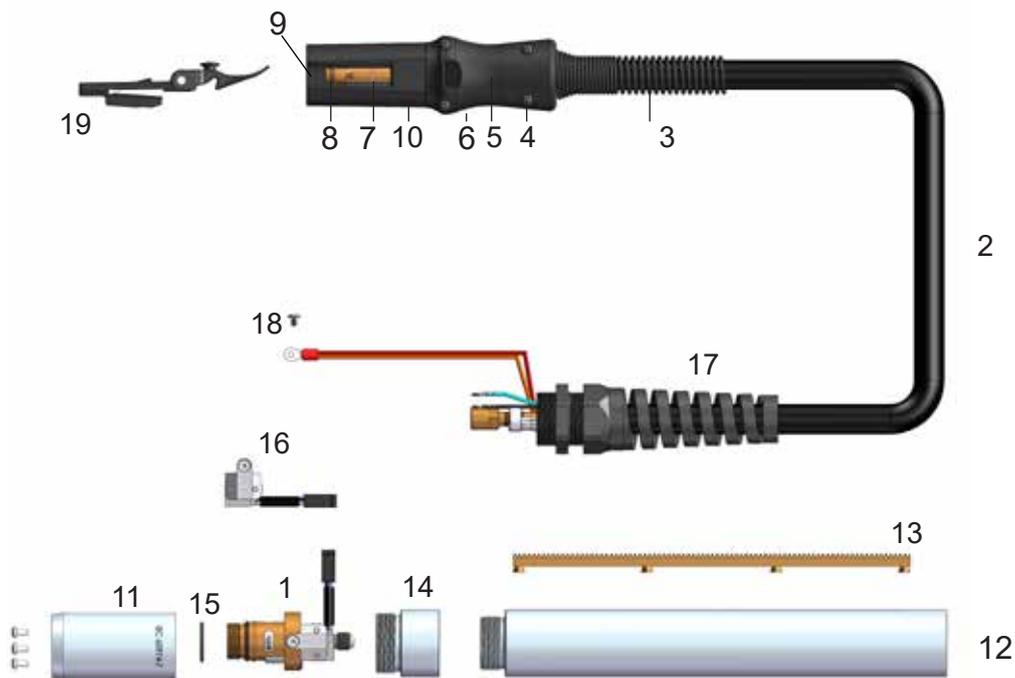
FHT-EX® 105RTXM

MACHINE TORCH ASSEMBLY AND TORCH COMPONENTS



Item	Part No.	Description
1.	EX-5-240-001	FHT-EX®105RTXM Machine Torch Assy-w/o consumables w/8m Lead/ TCS13
	EX-5-240-005	FHT-EX®105RTXM Machine Torch 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
a	EX-0-321-003	Latch w/Key Assembly

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



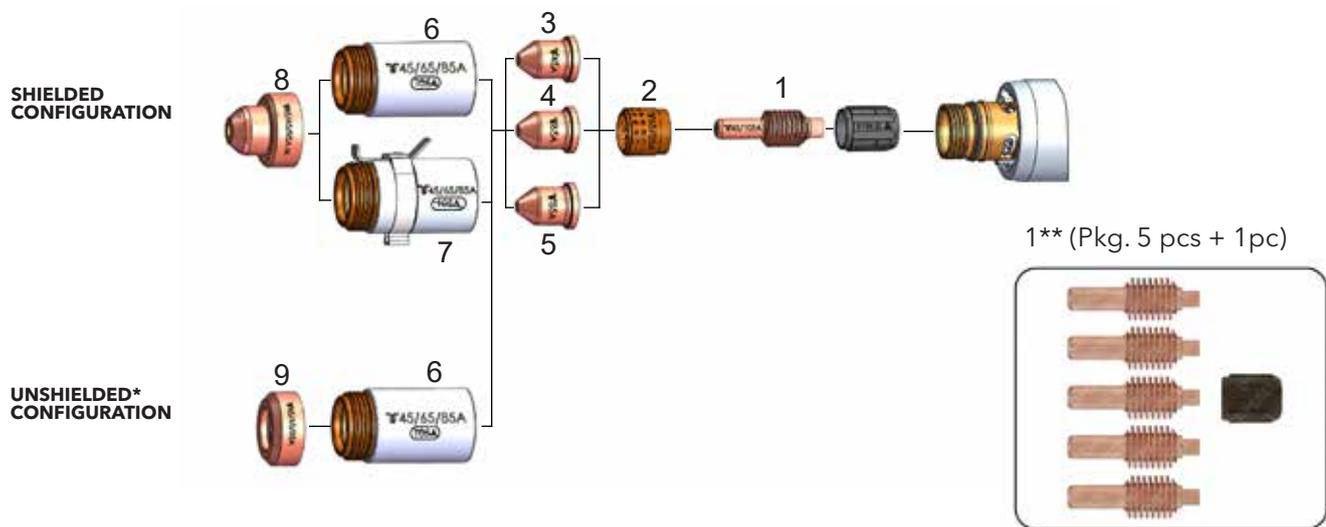
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs	
1.	EX-5-303-030	Machine Torch Body Replacement Kit	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1	
2.	EX-5-375-001	FHT-EX®105RTXM Machine Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-0-323-001	TCS13 Plug Body	1	
2.	EX-5-375-002	FHT-EX®105RTXM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

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Last update of this page: 10/01/2025. 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) **	1×5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-415-031	Retaining Cap 45-85 A, IHS Tab	1
3.	EX-5-410-036	Nozzle 45 A	5	8.	EX-5-421-031	Shield 45-85 A, Machine	1
4.	EX-5-410-037	Nozzle 55/65 A (5 pcs package) ***	1×5	9.	EX-5-423-031	Deflector 45-105 A	1
5.	EX-5-410-038	Nozzle 75/85 A (5 pcs package) ***	1×5				

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

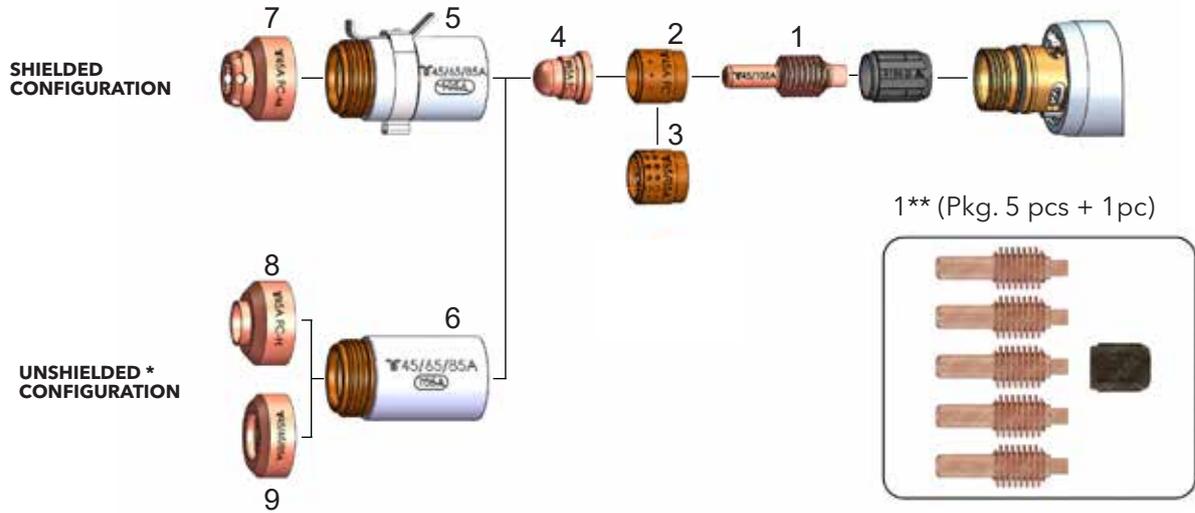
** THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

*** THIS PART IS AVAILABLE IN 5 PCS

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

MACHINE TORCH CONSUMABLES - SMOOTHLINE



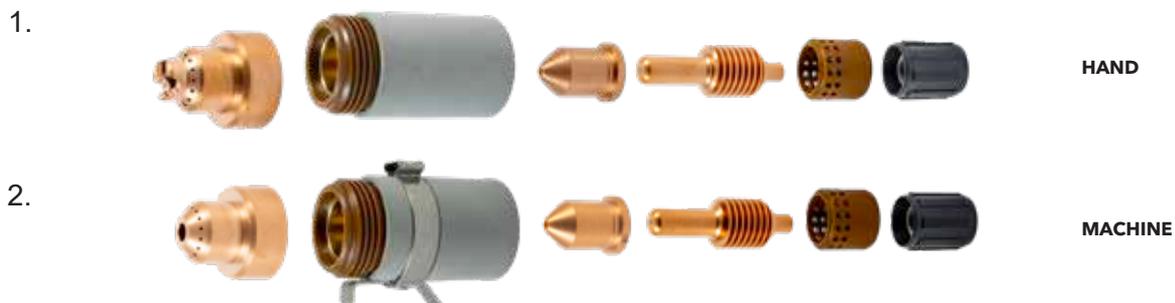
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1×5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-030	Swirl Ring 45-105 A / Smoothline	1	7.	EX-5-421-030	Shield 45 A, IHS, Smoothline	1
3.	EX-5-404-031	Swirl Ring 10-85 A	1	8.	EX-5-423-030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

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

** THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

*** THIS PART IS AVAILABLE IN 5 PCS

AVAILABLE TORCH CONSUMABLE KITS FOR ASSEMBLING



Item	Part No.	Description	Std. package QTY
1.	EX-3-439-031	RTXH55/65A Consumable kit for assembling of FHT-EX®105RTXH torch	1
	EX-4-439-031	RTXH75/85A Consumable kit for assembling of FHT-EX®105RTXH torch	1
2.	EX-3-439-030	RTXM55/65A Consumable kit for assembling of FHT-EX®105RTXM torch	1
	EX-4-439-030	RTXM75/85A Consumable kit for assembling of FHT-EX®105RTXM torch	1

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

AVAILABLE BULK PACKS



Part No.	Description	Std. package QTY
EX-5-434-001	Bulk Pack BP25 - Electrode 45-105 A (including 5 pcs of the swirl ring holder)	1×25 (+5)



Part No.	Description	Std. package QTY
EX-5-435-002	Bulk Pack BP25 - Nozzle 75/85 A	1×25
EX-5-435-001	Bulk Pack BP25 - Nozzle 55/65 A	1×25



Part No.	Description	Std. package QTY
EX-5-437-001	Bulk Pack BP18 - Shield 45-85 A, Machine	1×18

Last update of this page: 10/01/2025. See Revision history for details.

CONSUMABLES

AVAILABLE STARTER KIT



CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-5-432-030	Starter Kit 55/65 A for Hand Torch FHT-EX®105RTXH	1
EX-5-432-031	Starter Kit 75/85 A for Hand Torch FHT-EX®105RTXH	1
EX-5-433-030	Starter Kit 55/65 A for Machine Torch FHT-EX®105RTXM	1
EX-5-433-031	Starter Kit 75/85 A for Machine Torch FHT-EX®105RTXM	1

AVAILABLE CONSUMABLE KITS



CONTAIN OF THE PACKAGE

- 5 pcs of electrodes + 1 pc of swirl ring holder
- 5 pcs of nozzles
- 2 pcs of Hand/Machine shields
- 1 pc of retaining cup (Machine version with IHS Tab)
- 1 pc of swirl ring
- 2 pcs of torch body O-ring

Part No.	Description	Std. package QTY
EX-3-443-001	Consumable Kit 55/65 A for Hand Torch FHT-EX®105RTXH	1
EX-3-444-001	Consumable Kit 55/65 A for Machine Torch FHT-EX®105RTXM	1
EX-4-443-001	Consumable Kit 75/85 A for Hand Torch FHT-EX®105RTXH	1
EX-4-444-001	Consumable Kit 75/85 A for Machine Torch FHT-EX®105RTXM	1

Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
6.	EX-5-801-002	EX-5-801-002	Circle Cutting Guide Kit for FHT-EX®105RTXH/FHT-EX®105TTH/FHT-EX®45TTH	1
7.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105TTH/45TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD OD	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD OD	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD OD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm²/EU-plug 35-70 mm²	1
16.	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm²/EU-plug 10-25 mm²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
OD Only ON DEMAND
 * Items for use with Filter EX

Last update of this page: 10/01/2025. See Revision history for details.



EX-TRAFIRE[®]100SD

BUILT FOR POWER PLASMA CUTTING SYSTEM



Automotive
and transportation



Steel mills and
steel service
centers



Structural



Shipyards
and Offshore



Heavy fabrication

EX-TRAFIRE® 100SD

SPECIFICATIONS

Output current [A]	30-100
Modes	standard cutting / gouging / grid cutting
Duty cycle @ 40° C	50 % @ 100 A, 100 % @ 80 A
Output voltage [VDC]	170 V (EXTRA-BOOST 220 V)
Severance cutting capacity [mm]	50 ⁽¹⁾
Piercing capacity [mm]	20 ⁽¹⁾
Recommended cutting capacity [mm]	20 ⁽¹⁾
Plasma gas	compressed air / nitrogen
Max. Air flow (cutting) [lpm/bar]	135 @ 5.2
CNC interface	YES
Input voltage [VAC]	3 × 400 VAC ± 15 %
Frequency [Hz]	50/60
Dimensions (L×H×W)[mm]	WW
Weight [kg]	24
Certification depending on region	CE
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®105RTX H
Type of mechanised torch	FHT-EX®105RTX M

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

⁽²⁾ Suitable for generator use



3 DIFFERENT OPERATION MODES

Powerful and lightweight system with 100% duty cycle @ 80A. System is suitable for generator use, it is exceptionally robust. The EX-TRAFIRE® 100SD plasma cutting system is engineered for demanding professionals.



CUTTING



GRID CUTTING



GOUGING

Last update of this page: 10/01/2025. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

EX-TRAFIRE® 100SD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®100SD/CE/3×400 V / Torch FHT-EX®105RTXH /H Starter Kit	8 m / 26.2'	EX-5-010-033
EX-TRAFIRE®100SD/CE/3×400 V / Torch FHT-EX®105RTXH /H Starter Kit	15 m / 49.2'	EX-5-010-034
MECHANIZED PLASMA CUTTING SYSTEMS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®100SD/CE/3×400 V / Torch FHT-EX®105RTXM-NR /M Starter Kit	8 m / 26.2'	EX-5-011-030
EX-TRAFIRE®100SD/CE/3×400 V / Torch FHT-EX®105RTXM-NR /M Starter Kit	15 m / 49.2'	EX-5-011-031
PLASMA POWER SUPPLY UNITS		
<i>Equipped with CNC interface</i>		
EX-TRAFIRE®100SD/CE/3×400 V power supply unit		EX-5-001-003

AVAILABLE BULK PACKS

Information about available bulk packs on the end of Torch Consumables section

AVAILABLE STARTER KITS

Information about available starter kits on the end of Torch Consumables section

AVAILABLE CONSUMABLE KITS

Information about available starter kits on the end of Torch Consumables section

ACCESSORIES

Information about available accesories on the last pages of this section

Last update of this page: 10/01/2025. 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 80 A, ideal for continuous industrial use
- Optimal for plate thicknesses of up to 50 mm, thanks to 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®100SD power supply

Last update of this page: 10/01/2025. See Revision history for details.

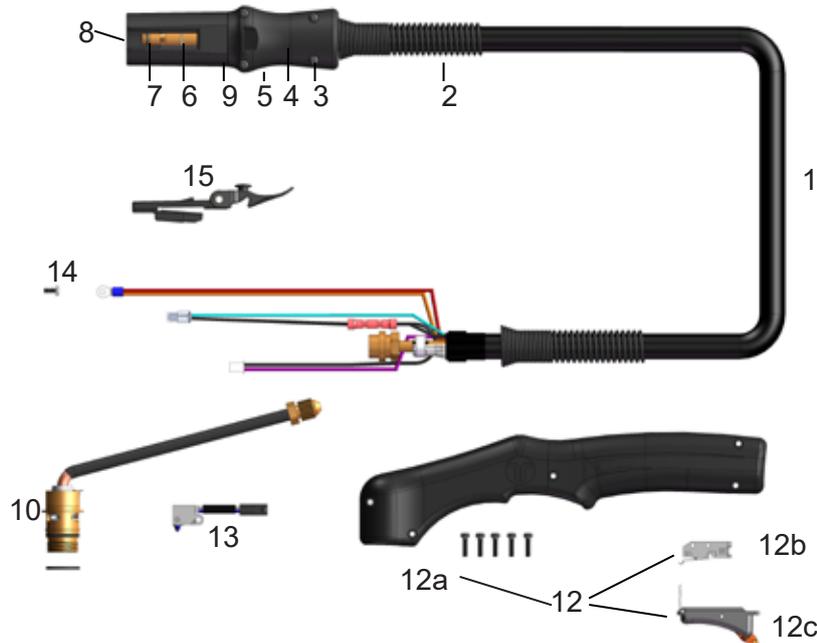
FHT-EX® 105RTXH

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
a	2.	EX-0-321-003 Latch w/Key Assembly	1

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



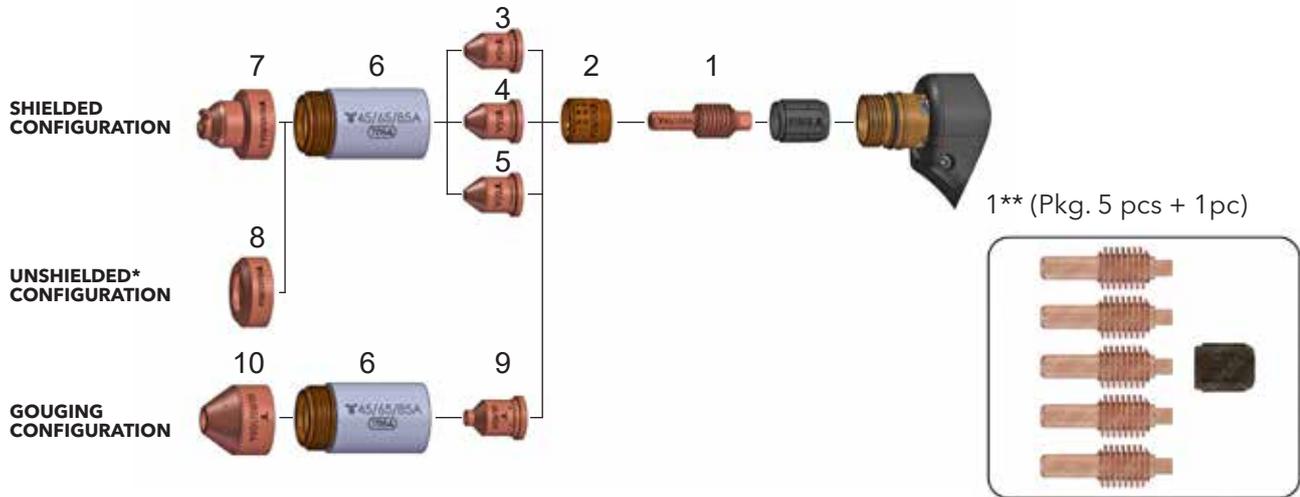
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-005	FHT-EX®105RTXH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-030	Hand Torch Body Replacement Kit	1
1.	EX-5-374-006	FHT-EX®105RTXH Hand Torch Lead Replacement 15m (50')/TCS13	1	11.	EX-5-431-050	Torch Body O-Ring	2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

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

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CONSUMABLES

HAND TORCH STANDARD CONSUMABLES - 45-85 A



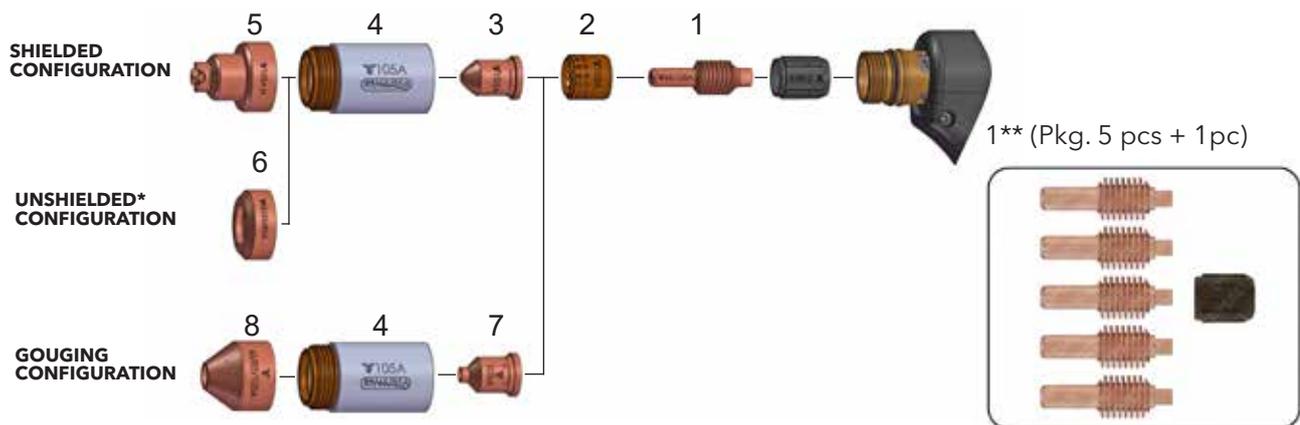
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5pcs package) **	1×5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-419-030	Shield 45-85 A, Hand	1
3.	EX-5-410-036	Nozzle 45 A (5 pcs package)	1×5	8.	EX-5-423-031	Deflector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

*** THIS PART IS AVAILABLE IN 5 PCS

HAND TORCH STANDARD CONSUMABLES - 105 A

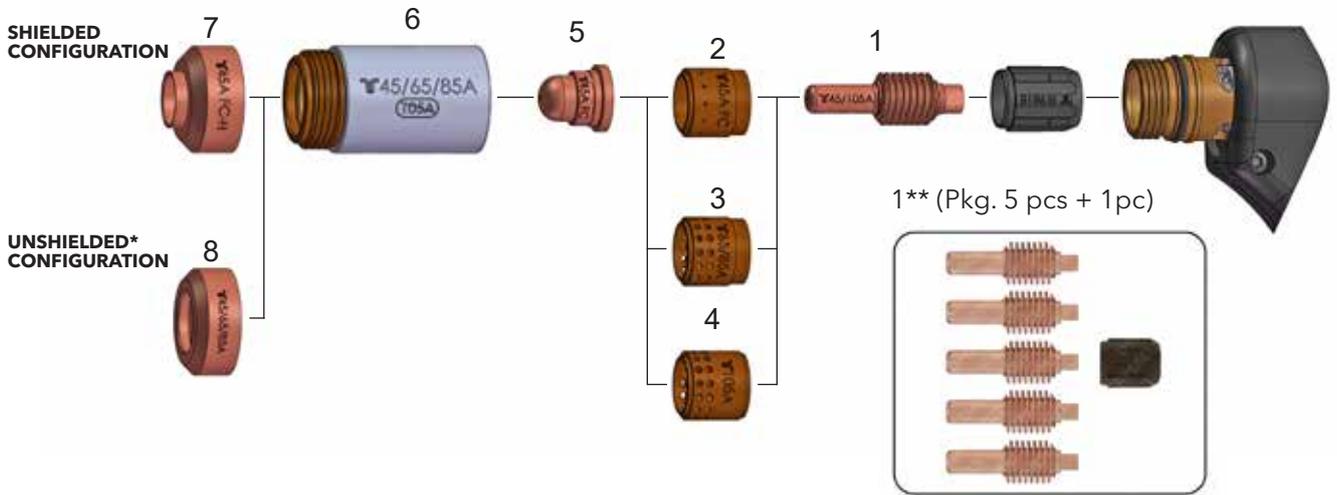


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1×5	5.	EX-5-420-030	Shield 100/105 A, Hand	1
2.	EX-5-404-032	Swirl Ring 100/105 A	1	6.	EX-5-423-031	Deflector 45-105 A	1
3.	EX-5-410-039	Nozzle 100/105 A (5 pcs package) ***	1×5	7.	EX-5-440-032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

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CONSUMABLES

HAND TORCH CONSUMABLES - SMOOTHLINE



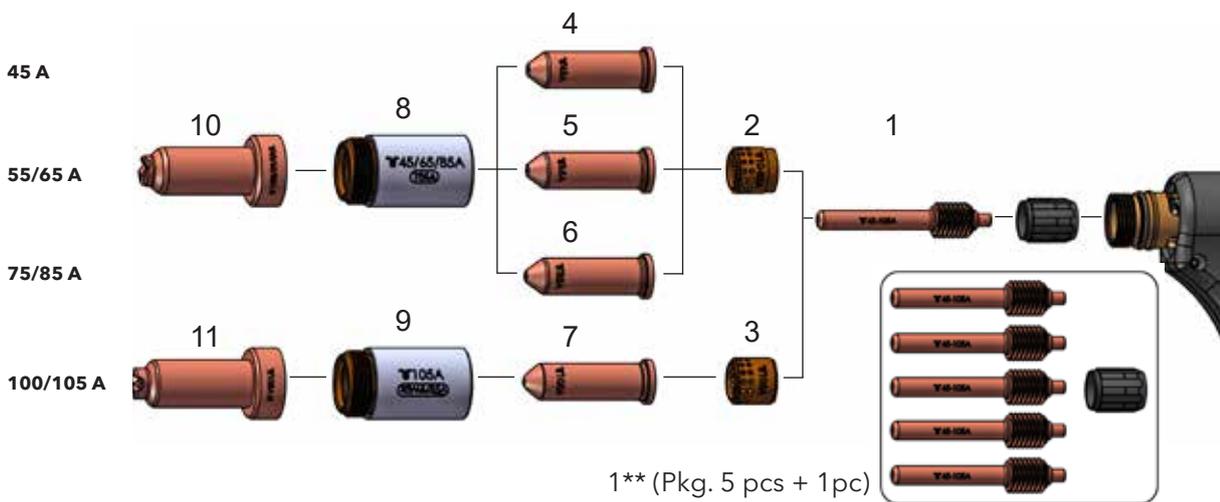
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1×5	5.	EX-5-410-035	Nozzle 45 A / Smoothline (5 pcs package) ***	1×5
2.	EX-5-404-030	Swirl Ring 45-105 A / Smoothline	1	6.	EX-5-415-030	Retaining Cap 45-85 A	1
3.	EX-5-404-031	Swirl Ring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

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

** THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

*** THIS PART IS AVAILABLE IN 5 PCS

HAND TORCH EXTENDED CONSUMABLES 45-105 A



Item	Part No.	Description.	Pcs	Item	Part No.	Description.	Pcs
1.	EX-5-402-001	Electrode 45-105 A, Extended (5pcs package) - part is available in 5pcs set only *	1 × 5	6.	EX-5-406-003	Nozzle 75/85 A, Extended	5
2.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-406-004	Nozzle 100/105 A, Extended	5
3.	EX-5-404-032	Swirl Ring 100/105 A	1	8.	EX-5-415-030	Retaining Cap 45-85 A	1
4.	EX-5-406-001	Nozzle 45 A, Extended	5	9.	EX-5-415-032	Retaining Cap100/105 A	1
5.	EX-5-406-002	Nozzle 55/65 A, Extended	5	10.	EX-5-420-001	Shield 45-85 A, Hand Extended	1
				11.	EX-5-420-002	Shield 100/105 A, Hand Extended	1

* THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

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FHT-EX® 105RTXM



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 80 A, ideal for continuous industrial use
- Optimal for plate thicknesses of up to 50 mm, thanks to 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®100SD power supply

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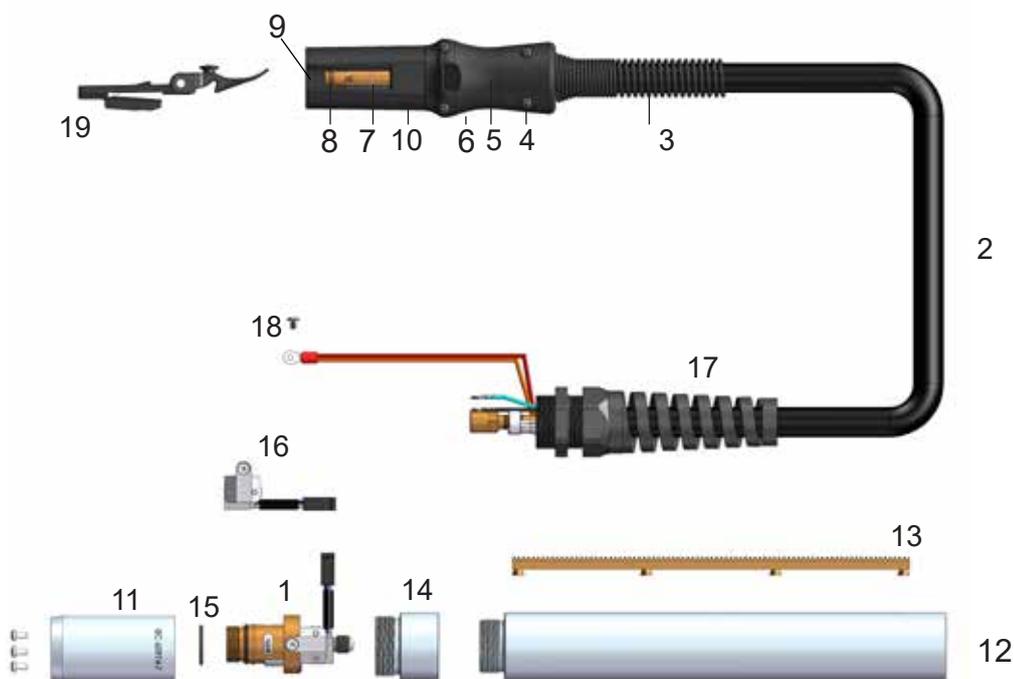
FHT-EX® 105RTXM

MACHINE TORCH ASSEMBLY AND TORCH COMPONENTS



Item	Part No.	Description
1.	EX-5-240-001	FHT-EX®105RTXM Machine Torch Assy-w/o consumables w/8m Lead/ TCS13
	EX-5-240-005	FHT-EX®105RTXM Machine Torch 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
a 3.	EX-0-321-003	Latch w/Key Assembly

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



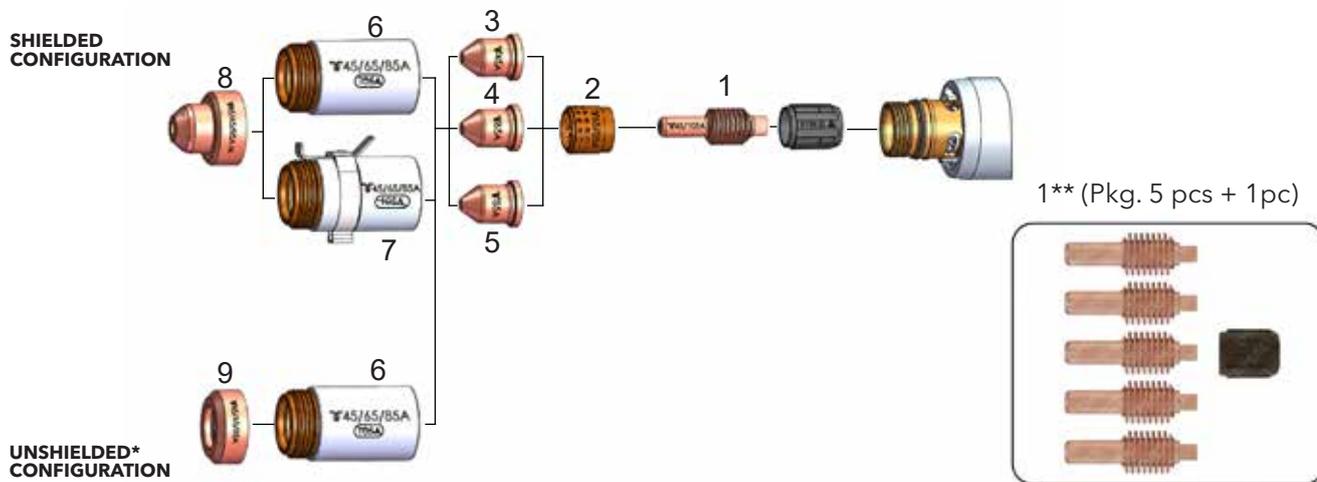
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-303-030	Machine Torch Body Replacement Kit	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
2.	EX-5-375-001	FHT-EX®105RTXM Machine Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-0-323-001	TCS13 Plug Body	1
2.	EX-5-375-002	FHT-EX®105RTXM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

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

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CONSUMABLES

MACHINE TORCH STANDARD CONSUMABLES - 45-85 A



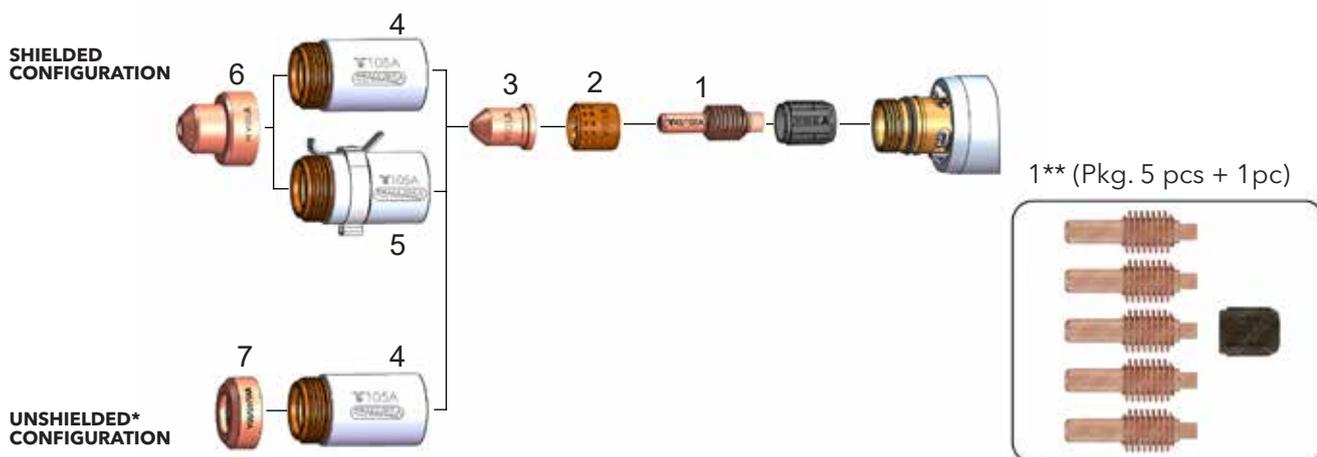
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1×5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-415-031	Retaining Cap 45-85 A, IHS Tab	1
3.	EX-5-410-036	Nozzle 45 A	5	8.	EX-5-421-031	Shield 45-85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

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

** THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

*** 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) **	1×5	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) ***	1×5	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.

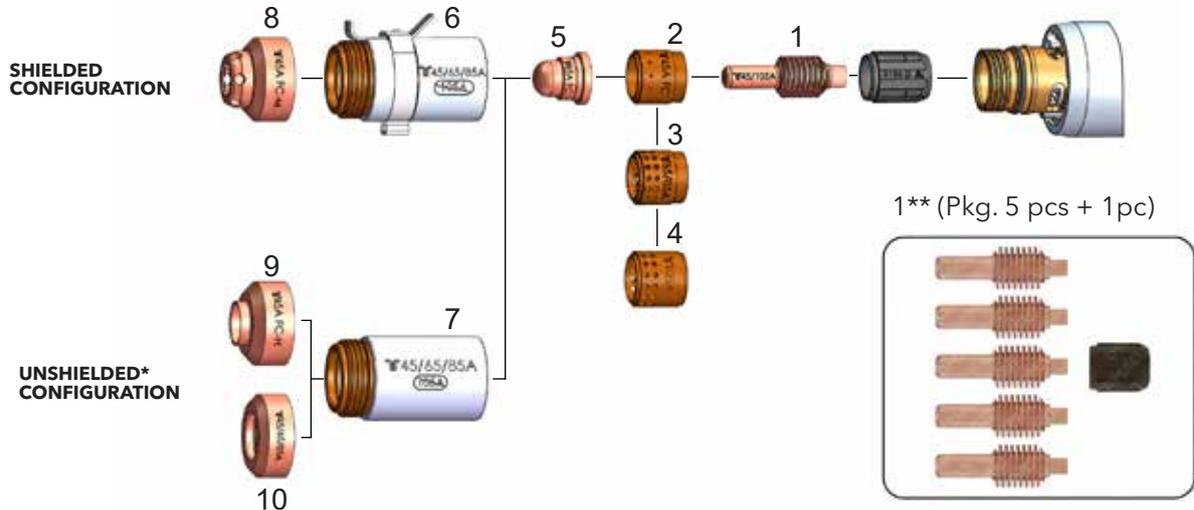
** THIS PART IS AVAILABLE IN 5 PCS + 1PC OF SWIRL RING HOLDER SET ONLY

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

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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) **	1×5	6.	EX-5-415-031	Retaining Cap 45-85 A, IHS Tab	1
2.	EX-5-404-030	Swirl Ring 45-105 A / Smoothline	1	7.	EX-5-415-030	Retaining Cap 45-85 A	1
3.	EX-5-404-031	Swirl Ring 10-85 A	1	8.	EX-5-421-030	Shield 45 A, IHS, Smoothline	1
4.	EX-5-404-032	Swirl Ring 100/105 A	1	9.	EX-5-423-030	Deflector 45 A / Smoothline	1
5.	EX-5-410-035	Nozzle 45 A / Smoothline (5 pcs package) ***	1×5	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 + 1PC OF SWIRL RING HOLDER SET ONLY
 *** THIS PART IS AVAILABLE IN 5 PCS SET ONLY

AVAILABLE TORCH CONSUMABLE KITS FOR ASSEMBLING



Item	Part No.	Description	Std. package QTY
1.	EX-3-439-031	RTXH55/65A Consumable kit for assembling of FHT-EX®105RTXH torch	1
	EX-4-439-031	RTXH75/85A Consumable kit for assembling of FHT-EX®105RTXH torch	1
	EX-5-439-031	RTXH100/105A Consumable kit for assembling of FHT-EX®105RTXH torch	1
2.	EX-3-439-030	RTXM55/65A Consumable kit for assembling of FHT-EX®105RTXM torch	1
	EX-4-439-030	RTXM75/85A Consumable kit for assembling of FHT-EX®105RTXM torch	1
	EX-5-439-030	RTXM100/105A Consumable kit for assembling of FHT-EX®105RTXM torch	1

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CONSUMABLES

AVAILABLE BULK PACKS



Part No.	Description	Std. package QTY
EX-5-434-001	Bulk Pack BP25 - Electrode 45-105 A (including 5 pcs of the swirl ring holder)	1×25 (+5)



Part No.	Description	Std. package QTY
EX-5-435-003	Bulk Pack BP25 - Nozzle 100/105 A	1×25
EX-5-435-002	Bulk Pack BP25 - Nozzle 75/85 A	1×25
EX-5-435-001	Bulk Pack BP25 - Nozzle 55/65 A	1×25



Part No.	Description	Std. package QTY
EX-5-437-001	Bulk Pack BP18 - Shield 45-85 A, Machine	1×18
EX-5-437-002	Bulk Pack BP18 - Shield 100/105 A, Machine	1×18

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CONSUMABLES

AVAILABLE STARTER KIT



CONTAIN OF THE PACKAGE

- 4 pcs of electrodes
- 4 pcs of nozzles
- 4 pcs of Hand/Machine shields
- 1 pc of swirl ring
- 1 pc of torch body O-ring

Part No.	Description	Std. package QTY
EX-5-432-030	Starter Kit 55/65 A for Hand Torch FHT-EX®105RTXH	1
EX-5-432-031	Starter Kit 75/85 A for Hand Torch FHT-EX®105RTXH	1
EX-5-432-032	Starter Kit 100/105 A for Hand Torch FHT-EX®105RTXH	1
EX-5-433-030	Starter Kit 55/65 A for Machine Torch FHT-EX®105RTXM	1
EX-5-433-031	Starter Kit 75/85 A for Machine Torch FHT-EX®105RTXM	1
EX-5-433-032	Starter Kit 100/105 A for Machine Torch FHT-EX®105RTXM	1

AVAILABLE CONSUMABLE KITS



CONTAIN OF THE PACKAGE

- 5 pcs of electrodes + 1 pc of swirl ring holder
- 5 pcs of nozzles
- 2 pcs of Hand/Machine shields
- 1 pc of retaining cup (Machine version with IHS Tab)
- 1 pc of swirl ring
- 2 pcs of torch body O-ring

Part No.	Description	Std. package QTY
EX-3-443-001	Consumable Kit 55/65 A for Hand Torch FHT-EX®105RTXH	1
EX-3-444-001	Consumable Kit 55/65 A for Machine Torch FHT-EX®105RTXM	1
EX-4-443-001	Consumable Kit 75/85 A for Hand Torch FHT-EX®105RTXH	1
EX-4-444-001	Consumable Kit 75/85 A for Machine Torch FHT-EX®105RTXM	1
EX-5-443-001	Consumable Kit 100/105 A for Hand Torch FHT-EX®105RTXH	1
EX-5-444-001	Consumable Kit 100/105 A for Machine Torch FHT-EX®105RTXM	1

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ACCESSORIES



Last update of this page: 10/01/2025. See Revision history for details.

ACCESSORIES

Item	Part No.	Ref. No.	Description	Pcs
1.	T-12452	EX-0-804-001	Filter-EX Compressed Air Filter	1
2.	T-12453	EX-0-804-002	Filter-EX Air Filter Cartridge	8
3.	EX-0-802-001	EX-0-802-001	Quick Connect Plug with male thread G 1/4" *	1
4.	EX-0-802-002	EX-0-802-002	Quick Connect Coupling with male thread G 1/4" *	1
5.	T-0994	EX-0-805-001	Silicone Lubricant 0.8 oz	1
6.	EX-2-801-001	EX-2-801-001	Circle Cut. Guide Kit for FHT-EX®30/40H	1
6.	EX-5-801-002	EX-5-801-002	Circle Cutting Guide Kit for FHT-EX®105RTXH/FHT-EX®105TTH/FHT-EX®45TTH	1
7.	EX-5-801-003	EX-5-801-003	Bevel cutting guide kit FHT-EX®105RTXH/105TTH/45TTH	1
8.	N-21811	EX-0-806-001	THERMACUT® Cutting Gloves	1
9.	EX-0-803-001	EX-0-803-001	CNC Interface 14-pin Plug Kit	1
OD	EX-0-803-003	EX-0-803-003	CNC Interface connection lead 3 m	1
	EX-0-803-004	EX-0-803-004	CNC Interface connection lead 6 m	1
HD OD	EX-0-803-006	EX-0-803-006	CAN bus connection cable 10 m	1
HD	EX-0-803-007	EX-0-803-007	CAN bus connection cable 5 m	1
HD OD	EX-0-803-008	EX-0-803-008	RS422 bus connection cable 10 m	1
HD	EX-0-803-009	EX-0-803-009	RS422 bus connection cable 5 m	1
HD	EX-0-803-010	EX-0-803-010	Universal connection cable 10 m	1
HD OD	EX-0-803-011	EX-0-803-011	Universal connection cable 5 m	1
14.	EX-0-803-005	EX-0-803-005	Plasma Arc START/STOP Remote controller for power supplies equipped with CNCinterface	1
15.	EX-5-543-037	EX-5-543-037	Work lead with clamp 300 A/4 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-003	EX-5-543-003	Work lead with clamp 300 A/16 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-002	EX-5-543-002	Work lead with clamp 300 A/23 m/16 mm²/EU-plug 35-70 mm²	1
OD	EX-5-543-001	EX-5-543-001	Work lead with clamp 300 A/8 m/16 mm²/EU-plug 35-70 mm²	1
16.	EX-1-543-036	EX-1-543-036	Work lead with clamp 300A/4 m/10 mm²/EU-plug 10-25 mm²	1
17.	EX-6-810-001	EX-6-810-001	Hand gouging heat shield	1
18.	EX-0-809-001	EX-0-809-001	Transport case w/foam insert for EX-TRAFIRE®30H/45SD/45HD/55SD	1

HD For HD power supplies equipped with serial communication only
OD Only ON DEMAND
 * Items for use with Filter EX

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