

EX-TRA-FIRE[®] 45HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.

SOLUTIONS / INDUSTRIES



Training
and education



General
fabrication



Craft, hobby
and non-industrial



Structural

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EX-TRAFIRE® 45HD



IMPRESSIVE PERFORMANCE



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

AUTOMATIC SETTINGS



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

READY FOR INDUSTRY 4.0



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

OPTIMAL COST-EFFECTIVENESS



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

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EX-TRAFIRE® 45HD

SPECIFICATIONS

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

⁽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.



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EX-TRAFIRE® 45HD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®45HD/CE/3x400 V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/ H Starter Kit	5 m	EX-2-010-031
EX-TRAFIRE®45HD/CE/3x400 V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/ H Starter Kit	8 m	EX-2-010-032
EX-TRAFIRE®45HD/CE/3x400 V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/ H Starter Kit	15 m	EX-2-010-033
EX-TRAFIRE®45HD/CE/1x110/230 V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/ H Starter Kit	5 m	EX-2-010-041
EX-TRAFIRE®45HD/CE/1x110/230 V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/ H Starter Kit	8 m	EX-2-010-042
EX-TRAFIRE®45HD/CE/1x110/230 V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/ H Starter Kit	15 m	EX-2-010-043
EX-TRAFIRE®45HD/CE/1x120/240V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/H Starter Kit/Including Transport Case	5 m	EX-2-010-047
EX-TRAFIRE®45HD/CE/1x120/240V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/H Starter Kit/Including Transport Case	8 m	EX-2-010-048
EX-TRAFIRE®45HD/CE/1x120/240V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/H Starter Kit/Incl. Transport Case	15 m	EX-2-010-049
EX-TRAFIRE®45HD/CE/3x400V Hand System (STD-equipped**)/FHT-EX®45TTH 5m/H Starter Kit/Including Transport Case	5 m	EX-2-010-050
EX-TRAFIRE®45HD/CE/3x400V Hand System (STD-equipped**)/FHT-EX®45TTH 8m/H Starter Kit/Including Transport Case	8 m	EX-2-010-051
EX-TRAFIRE®45HD/CE/3x400V Hand System (STD-equipped**)/FHT-EX®45TTH 15m/H Starter Kit/Including Transport Case	15 m	EX-2-010-052
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®45HD/CE/3x400 V Machine System (Fully-equipped*)/FHT-EX®45TTM 5m/M Starter Kit	5 m	EX-2-011-031
EX-TRAFIRE®45HD/CE/3x400 V Machine System (Fully-equipped*)/FHT-EX®45TTM 8m/M Starter Kit	8 m	EX-2-011-032
EX-TRAFIRE®45HD/CE/3x400 V Machine System (Fully-equipped*)/FHT-EX®45TTM 15m/M Starter Kit	15 m	EX-2-011-033
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (Fully-equipped*)/FHT-EX®45TTM 5m/M Starter Kit	5 m	EX-2-011-041
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (Fully-equipped*)/FHT-EX®45TTM 8m/M Starter Kit	8 m	EX-2-011-042
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (Fully-equipped*)/FHT-EX®45TTM 15m/M Starter Kit	15 m	EX-2-011-043
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (STD-equipped**)/FHT-EX®45TTM 5m/M Starter Kit	5 m	EX-2-013-001
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (STD-equipped**)/FHT-EX®45TTM 8m/M Starter Kit	8 m	EX-2-013-002
EX-TRAFIRE®45HD/CE/1x110/230 V Machine System (STD-equipped**)/FHT-EX®45TTM 15m/M Starter Kit	15 m	EX-2-013-003
EX-TRAFIRE®45HD/CE/3x400 V Machine System (STD-equipped**)/FHT-EX®45TTM 5m/M Starter Kit	5 m	EX-2-013-004
EX-TRAFIRE®45HD/CE/3x400 V Machine System (STD-equipped**)/FHT-EX®45TTM 8m/M Starter Kit	8 m	EX-2-013-005
EX-TRAFIRE®45HD/CE/3x400 V Machine System (STD-equipped**)/FHT-EX®45TTM 15m/M Starter Kit	15 m	EX-2-013-006
PLASMA CUTTING UNITS		
EX-TRAFIRE® 45HD/CE/1x110/230 V power supply unit (Fully-equipped*)		EX-2-001-001
EX-TRAFIRE® 45HD/CE/3x400 V power supply unit (Fully-equipped*)		EX-2-001-002
EX-TRAFIRE® 45HD/CE/1x110/230 V power supply unit (STD-equipped**)		EX-2-003-001
EX-TRAFIRE® 45HD/CE/3x400 V power supply unit (STD-equipped**)		EX-2-003-003

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

** STD-equipped=CNC interface

AVAILABLE BULK PACKS

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

ACCESSORIES

Description	Pcs	Part No.
DN 7.2 ES Quick Connect Plug with male thread G 1/4"	1	EX-0-802-001
DN 7.2 ES Quick Connect Coupling with male thread G 1/4"	1	EX-0-802-002
Grease 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	EX-0-804-001
Filter-EX Air Filter Cartridge	8	EX-0-804-002

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EX-TRAFIRE® 45HD



FRONT VIEW



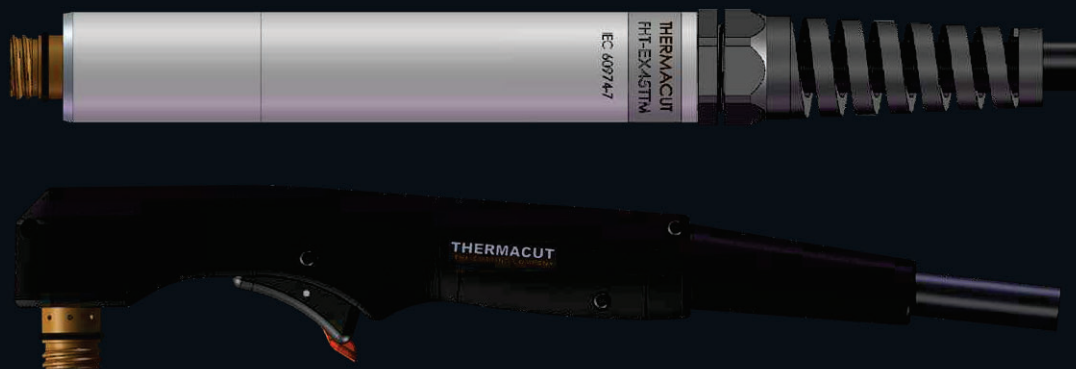
BACK VIEW



SIDE VIEW

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FHT-EX® 45TT



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 45 A, ideal for continuous use
- Ideal for plate thicknesses of up to 25 mm and more with high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing 10+ mm
- Perfectly designed for use with EX-TRAFIRE®45HD power supplies

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FHT-EX® 45TTH

HAND TORCH ASSEMBLY



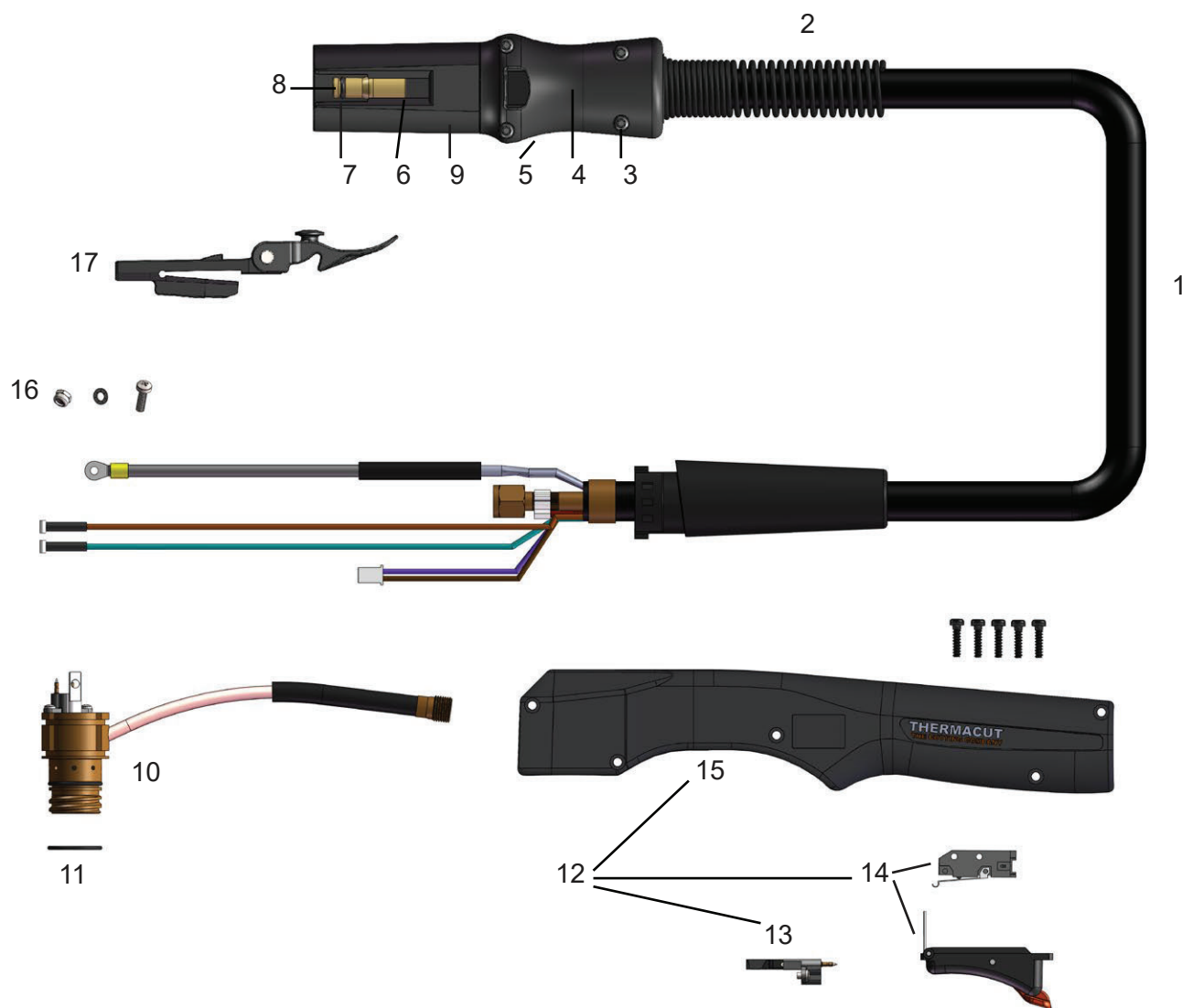
Item	Part No.	Description	Pcs
1.	EX-2-133-001	FHT-EX45®TTH DEMO Hand Torch Assembly w/consumables/TCS13	1
	EX-2-101-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-103-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-106-001	FHT-EX45®TTH Hand Torch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

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

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FHT-EX® 45TTH

HAND TORCH COMPONENTS



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

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FHT-EX® 45TTM

MACHINE TORCH ASSEMBLY



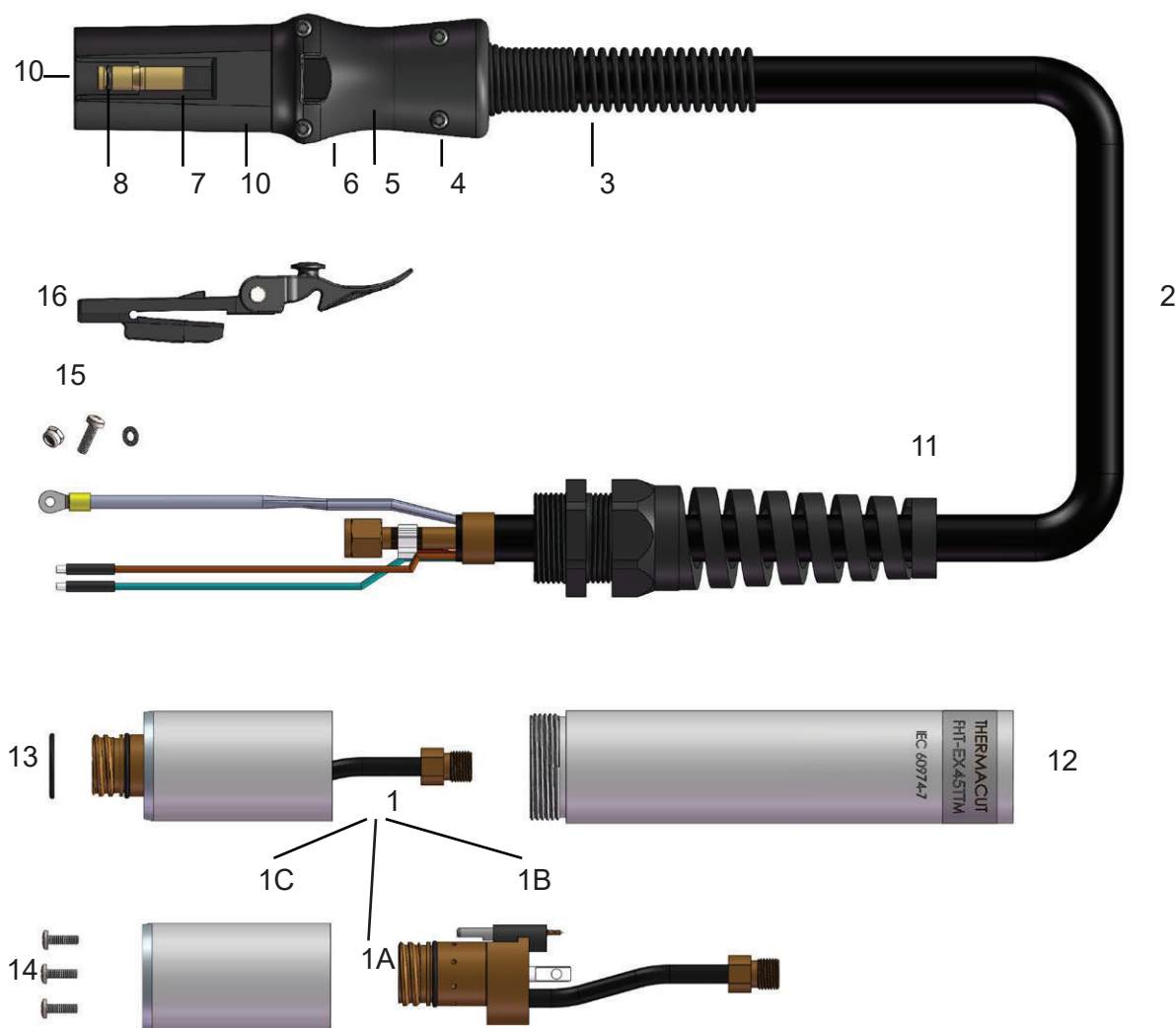
Item	Part No.	Description	Pcs
1.	EX-2-233-001	FHT-EX®45TTM DEMO Machine Torch Assembly w/consumables/TCS13	1
	EX-2-202-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/5 m Lead/TCS13	1
	EX-2-204-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/8 m Lead/TCS13	1
	EX-2-207-001	FHT-EX®45TTM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

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

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FHT-EX® 45TTM

MACHINE TORCH COMPONENTS

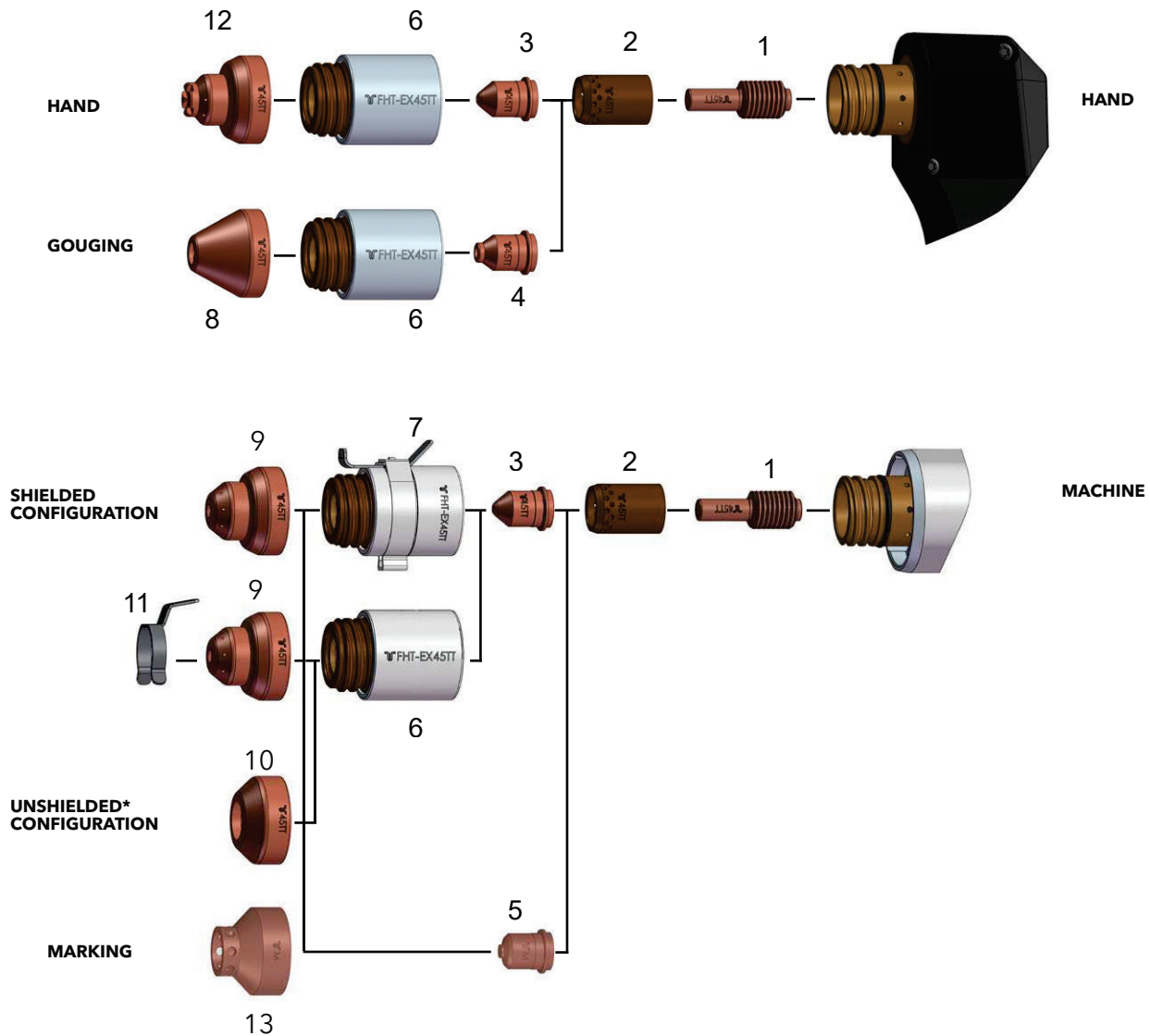


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-2-301-001	Machine Torch Body Assembly FHT-EX®45TTM	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-2-301-002	Machine Torch Body FHT-EX®45TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-001	Cap Sensor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

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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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