



A GLOBAL PROVIDER OF ENHANCED THERMAL CUTTING SOLUTIONS

EX-TRAFIRE[®]

PLASMA CUTTING SYSTEMS CATALOG



18072023
THERMACUT[®] - THE CUTTING COMPANY

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Rev 1;13_EN

FROM THE GARAGE TO THE SHIPYARD

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

AND WE CREATED IT. IT'S CALLED THE **EX-TRAFIRE**[®]

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

EX-TRAFIRE[®] PLASMA SYSTEMS

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EX-TRAFIRE[®] HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.



EX-TRAFIRE[®] 105HD

EX-TRAFIRE® HD LINE OVERVIEW

Fetures / System	EX-TRAFIRE®45HD		EX-TRAFIRE®65HD		EX-TRAFIRE®85HD		EX-TRAFIRE®105HD		EX-TRAFIRE®125HD	
	Single phase	Three phase	Three phase		Three phase		Three phase		Three phase	
Cutting current [I2]	10 - 45 A	10 - 45 A	10 - 65 A		20 - 85 A		20 -105 A		20 -125 A	
Input voltage [I2]	1x240 V AC ± 15%	3x400 V AC ± 15%	3 x 400 V AC + 15%		3 x 400 V AC +15%		3 x 400 V AC ± 15%		3 x 400 V AC ± 15%	
Duty cycle	40 % @ 45A	80 % @ 45A	100% @ 65A		100% @ 85A		100% @ 105A		100% @ 125A	
I1max	16.5 A	16.2 A	24.5 A		30.1 A		39 A		48.9 A	
I1eff	14.8 A	14.4 A	24.5 A		30.1 A		39 A		48.9 A	
Weight [kg]	12.7		20.4		24.4		35		37.1	
Width [mm]	469		560		560		613		615	
Depth [mm]	117		260		260		302		295	
Height [mm]	228		400		400		515		505	
Industry (IOT) 4.0	Yes		Yes		Yes		Yes		Yes	
Handheld Application	Yes		Yes		Yes		Yes		Yes	
Mechanised Application	Yes		Yes		Yes		Yes		Yes	
Gouging	Yes		Yes		Yes		Yes		Yes	
Grid Cutting	Yes		Yes		Yes		Yes		Yes	
Torch	FHT-EX®45TTH/M		FHT-EX®105TTH/M		FHT-EX®105TTH/M		FHT-EX®105TTH/M		FHT-EX®125TTH/M	
Torch flow	90 l/min. at 4.8 bar		87 l/min. at 5.2 bar		101 l/min. at 5.2 bar		156 l/min. at 4.8 bar		175 l/min. at 5.2 bar	
Recommended Cut	(*) 12 mm	(*) 12 mm	(*) 12 mm		(*) 12 mm		(*) 18 mm		(*) 20 mm	
Maximum	(*) 25 mm	(*) 25 mm	(*) 25 mm		(*) 25 mm		(*) 40 mm		(*) 40 mm	
Piercing	(*) 10mm	(*) 10mm	(*) 18 mm		(*) 10 mm		(*) 20 mm		(*) 25 mm	
Recommended Cut	(**) 6 mm	(**) 6 mm	(**) 10 mm		(**) 12 mm		(**) 16 mm		(**) 20 mm	
Maximum	(**) 20 mm	(**) 20 mm	(**) 20 mm		(**) 20 mm		(**) 32 mm		(**) 40 mm	
Piercing	(**) 10 mm	(**) 10 mm	(**) 12 mm		(**) 10 mm		(**) 20 mm		(**) 20 mm	
Recommended Cut	(***) 10 mm	(***) 10 mm	(***) 10 mm		(***) 12 mm		(***) 16 mm		(***) 20 mm	
Maximum	(***) 20 mm	(***) 20 mm	(***) 20 mm		(***) 16 mm		(***) 32 mm		(***) 40mm	
Piercing	(***) 10 mm	(***) 10 mm	(***) 12 mm		(***) 10 mm		(***) 20 mm		(***) 25 mm	
Ambient temperature	-10°C to +40°C									
Gas type	Compressed air									
	Recommended Air quality: ISO 8573-1 Class 1.2.2.									
Gas quality	Air max. particle size: 0.1 microns, class 1 ref. to ISO 8573,									
Air specification	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 ≥ 99,99%									
Gas quality	Clean, moisture-free, without oil									
	(*) Recommendation based on mild steel cutting starting from the edge (up to)									
	(**) Recommendation based on stainless steel cutting starting from the edge (up to)									
	(***) Recommendation based on aluminium cutting starting from the edge (up to)									

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EX-TRAFIRE[®] 45HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.

SOLUTIONS / INDUSTRIES



Training
and education



General
fabrication



Craft, hobby
and non-industrial



Structural

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



EX-TRAFIRE® 45HD



IMPRESSIVE PERFORMANCE



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

AUTOMATIC SETTINGS



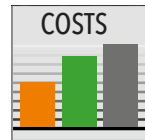
- + Cutting gas media, electricity and pilot current
- + Compensation for pressure drops
- + Fewer operating errors, better cutting quality

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

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 (LxHxW) [mm]	469x228x177		
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.



Last update of this page: 10.05.2022. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

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	T-12452
Filter-EX Air Filter Cartridge	8	EX-0-804-002

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

EX-TRAFIRE® 45HD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

Last update of this page: 29/10/2021. See Revision history for details.
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FHT-EX® 45TTH

HAND TORCH ASSEMBLY



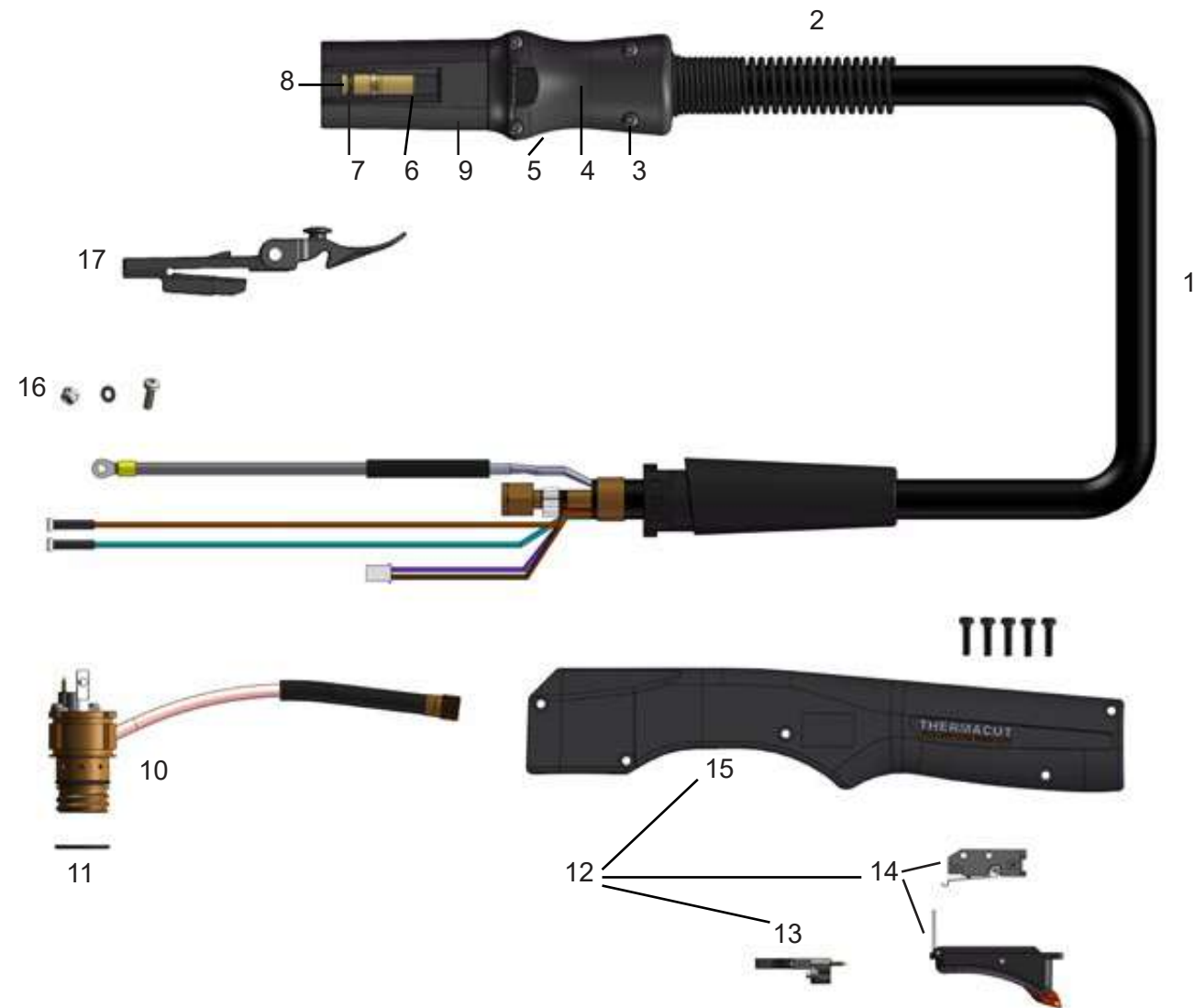
Item	Part No.	Description	Pcs
1.	EX-2-133-001	FHT-EX45®TTH DEMO Hand Torch Assembly w/consumables/TCS13	1
	EX-2-101-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-103-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-106-001	FHT-EX45®TTH Hand Torch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



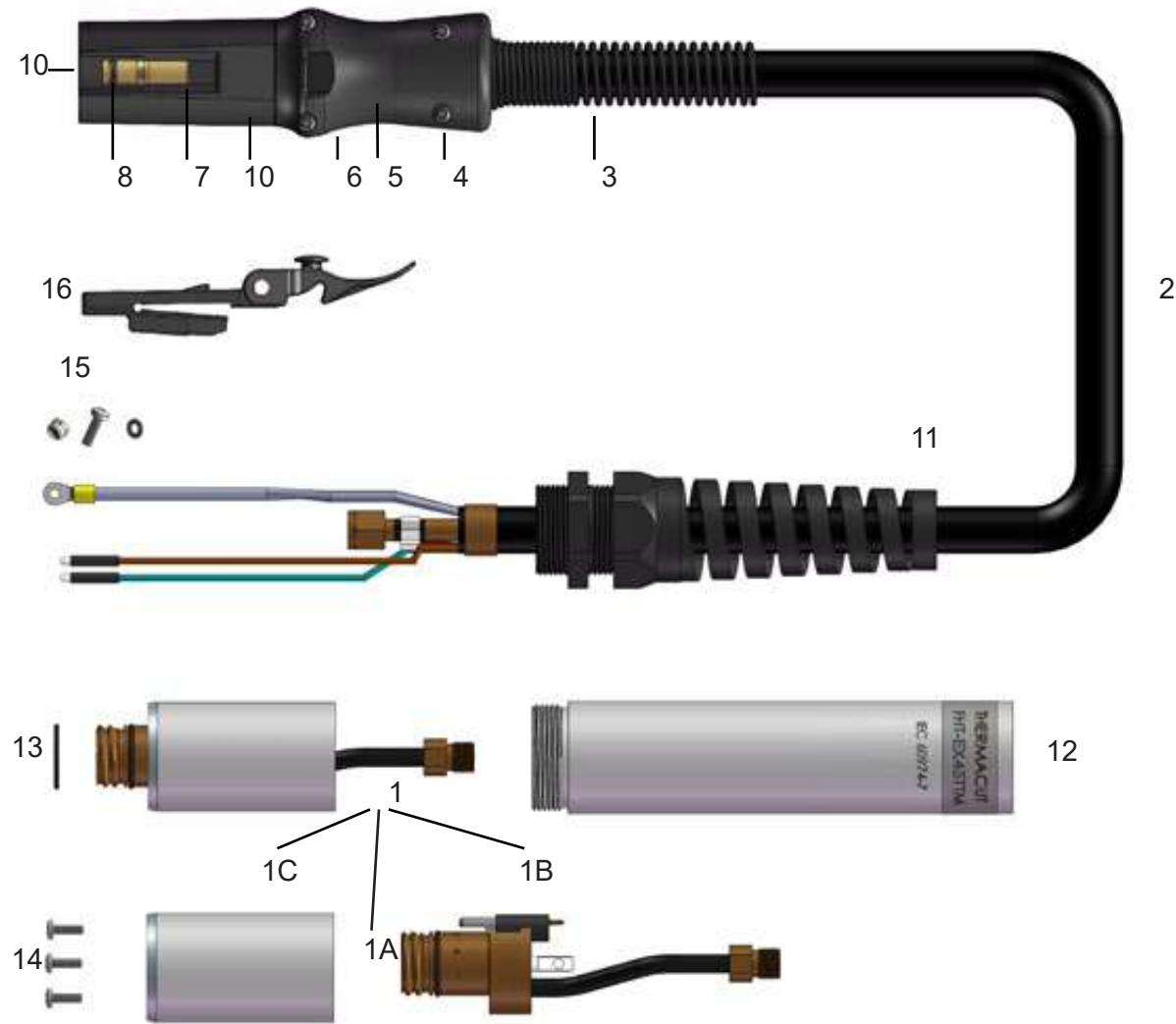
Item	Part No.	Description	Pcs
1.	EX-2-233-001	FHT-EX®45TTM DEMO Machine Torch Assembly w/consumables/TCS13	1
	EX-2-202-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/5 m Lead/TCS13	1
	EX-2-204-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/8 m Lead/TCS13	1
	EX-2-207-001	FHT-EX®45TTM 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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For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 45TTM

MACHINE TORCH COMPONENTS



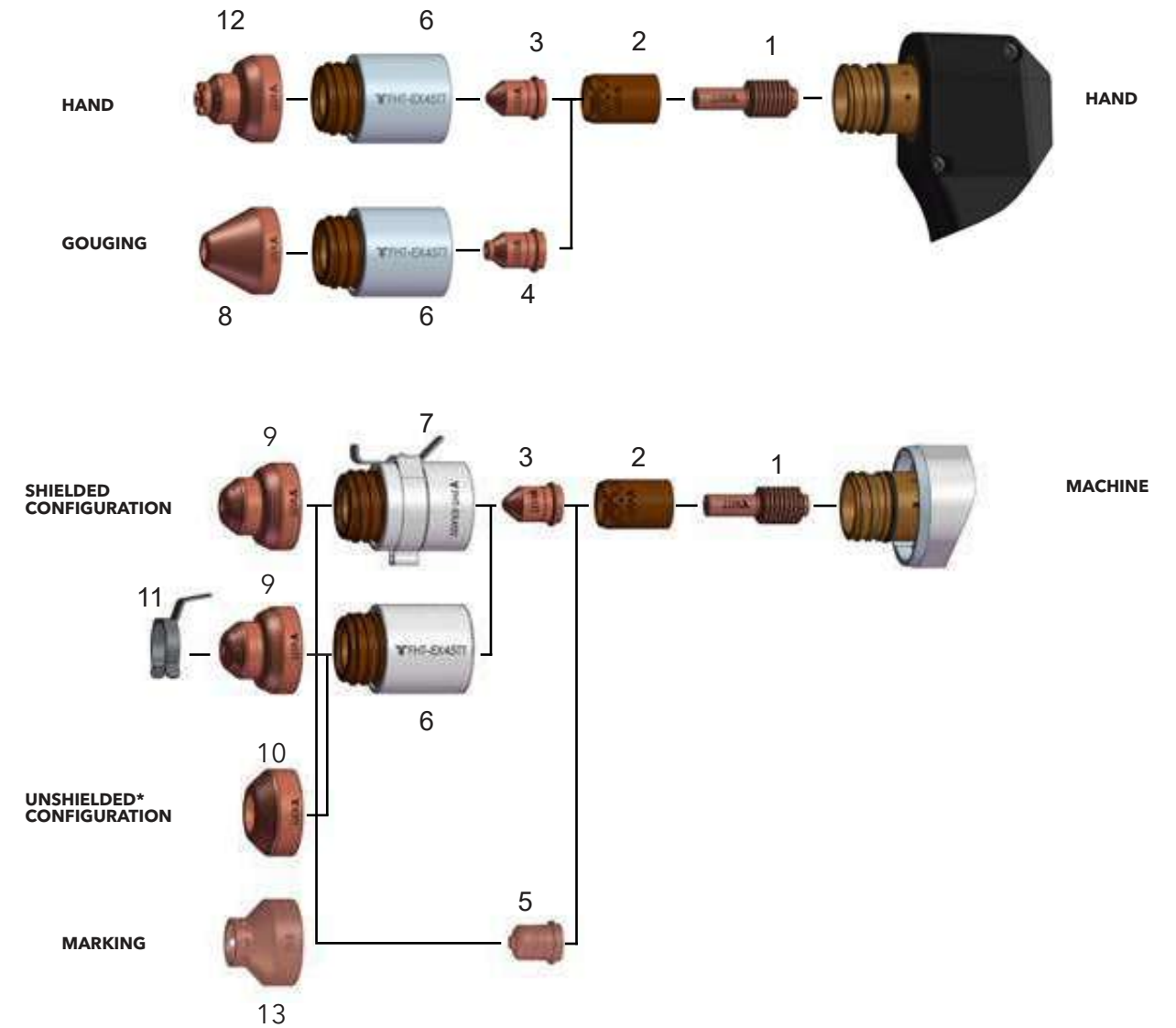
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-2-301-001	Machine Torch Body Assembly FHT-EX®45TTM	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-2-301-002	Machine Torch Body FHT-EX®45TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-001	Cap Sensor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

Last update of this page: 18/01/2022. See Revision history for details.
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EX-TRAFIRE® 65HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.

SOLUTIONS / INDUSTRIES



Automotive
and transportation



Energy



Structural



Education
and Training



Craft, hobby and
non industrial users

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



EX-TRAFIRE® 65HD



IMPRESSIVE PERFORMANCE



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

READY FOR INDUSTRY 4.0



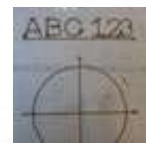
- + Industry leading connectivity
- + CAN / RS 485 / RS 422 Bus interface (optional)
- + Easy monitoring
- + Expandable and updatable

HIGHEST FLEXIBILITY



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

MARKING MODE



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

AUTOMATIC SETTINGS



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

NEW CUTTING TORCH FHT®EX105TT



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

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

EX-TRAFIRE® 65HD

SPECIFICATIONS

Output current [A]	20-65
Modes	cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 65 A
Rated output voltage [VDC]	170
Severance cutting capacity [mm]	38 ⁽¹⁾
Piercing capacity [mm]	20 ⁽¹⁾
Recommended cutting capacity [mm]	25 ⁽¹⁾
Plasma gas	compr. air / nitrogen / argon
Max. Air flow [lpm/bar]	180/5
CNC interface / CAN BUS interface	optional / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 x 400 ± 15 % ⁽²⁾
Frequency [Hz]	50/60
Dimensions (LxHxW) [mm]	560 x 400 x 260
Weight [kg]	20.3
Certification depending on region	CE, C-TICK, CCC, CSA
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®105TTH
Type of machine torch	FHT-EX®105TTM

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

⁽²⁾ suitable for generator use

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: 22/03/2023. 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		
EX-TRAFIRE®65HD/CE/3x400 V/STD EQUIPPED/Hand System/FHT-EX®105TTH Torch 5m/Starter Kit	5 m	EX-3-010-051
EX-TRAFIRE®65HD/CE/3x400 V/STD EQUIPPED/Hand System/FHT-EX®105TTH Torch 8m/Starter Kit	8 m	EX-3-010-052
EX-TRAFIRE®65HD/CE/3x400 V/STD EQUIPPED/Hand System/FHT-EX®105TTH Torch 15m/Starter Kit	15 m	EX-3-010-053
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®65HD/CE/3x400 V/FULLY EQUIPPED/Machine System/FHT-EX®105TTM STD-NR Torch 8m/Starter Kit	8 m	EX-3-011-014
EX-TRAFIRE®65HD/CE/3x400 V/FULLY EQUIPPED/Machine System/FHT-EX®105TTM STD-NR Torch 15m/Starter Kit	15 m	EX-3-011-015
EX-TRAFIRE®65HD CE 3x400 V/FULLY EQUIPPED/Machine System/FHT-EX®105TSM Torch 8m/Starter Kit	8 m	EX-3-012-006
EX-TRAFIRE®65HD CE 3x400 V/FULLY EQUIPPED/Machine System/FHT-EX®105TSM Torch 15m/Starter Kit	15 m	EX-3-012-007
EX-TRAFIRE®65HD/CE/3x400 V/STD EQUIPPED/Machine System/FHT-EX®105TTM STD-NR Torch 8m/Starter Kit	8 m	EX-3-013-002
EX-TRAFIRE®65HD/CE/3x400 V/STD EQUIPPED/Machine System/FHT-EX®105TTM STD-NR Torch 15m/Starter Kit	15 m	EX-3-013-003
EX-TRAFIRE®65HD CE 3x400 V/STD EQUIPPED/Machine System/FHT-EX®105TSM Torch 8m/Starter Kit	8 m	EX-3-014-002
EX-TRAFIRE®65HD CE 3x400 V/STD EQUIPPED/Machine System/FHT-EX®105TSM Torch 15m/Starter Kit	15 m	EX-3-014-003
PLASMA CUTTING UNITS		
EX-TRAFIRE®65HD/CE/3x400 V power supply unit/FULLY EQUIPPED		EX-3-001-002
EX-TRAFIRE®65HD/CE/3x400 V power supply unit/STD EQUIPPED		EX-3-003-001

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

AVAILABLE BULK PACKS

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

ACCESSORIES

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

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

EX-TRAFIRE® 65HD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

EX-TRAFIRE 85HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.

SOLUTIONS / INDUSTRIES



Automotive
and transportation



Education and
Training



General
Fabrication

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



EX-TRAFIRE® 85HD



IMPRESSIVE PERFORMANCE



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

READY FOR INDUSTRY 4.0



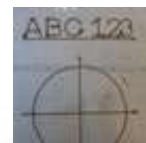
- + Industry leading connectivity
- + CAN / RS 485 / RS 422 Bus interface (optional)
- + Easy monitoring
- + Expandable and updatable

HIGHEST FLEXIBILITY



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

MARKING MODE



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

AUTOMATIC SETTINGS



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

NEW CUTTING TORCH FHT®EX105TT



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

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

EX-TRAFIRE® 85HD

SPECIFICATIONS

Output current [A]	20 -85
Modes	cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 85 A
Rated output voltage [VDC]	160
Severance cutting capacity [mm]	45 ⁽¹⁾
Piercing capacity [mm]	20 ⁽¹⁾
Recommended cutting capacity [mm]	25 ⁽¹⁾
Plasma gas	compr. air / nitrogen / argon
Max. Air flow [lpm/bar]	195/5
CNC interface / CAN BUS interface	optional / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 x 400 ± 15 % ⁽²⁾
Frequency [Hz]	50/60
Dimensions (L×H×W) [mm]	613 x 515 x 302
Weight [kg]	24
Certification depending on region	CE, C-TICK, CCC, CSA
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®105TTH
Type of machine torch	FHT-EX®105TTM

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

⁽²⁾ suitable for generator use

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: 22/03/2023. 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		
EX-TRAFIRE®85HD/CE/3x400 V Hand System/STD EQUIPPED/FHT-EX®105TTH Torch 5m/Starter Kit	5 m	EX-4-010-009
EX-TRAFIRE®85HD/CE/3x400 V Hand System/STD EQUIPPED/FHT-EX®105TTH Torch 8m/Starter Kit	8 m	EX-4-010-010
EX-TRAFIRE®85HD/CE/3x400 V Hand System/STD EQUIPPED/FHT-EX®105TTH Torch 15m/Starter Kit	15 m	EX-4-010-011
EX-TRAFIRE®85HD/CE/3x400 V Hand System/STD EQUIPPED/FHT-EX®105TTH Torch 23m/Starter Kit	23 m	EX-4-010-012
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®85HD/CE/3x400 V Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 8m/Starter Kit	8 m	EX-4-011-019
EX-TRAFIRE®85HD/CE/3x400 V Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 15m/Starter Kit	15 m	EX-4-011-020
EX-TRAFIRE®85HD/CE 3x400 V Machine System/FULLY EQUIPPED/FHT-EX®105TTSM Torch 8m/Starter Kit	8 m	EX-4-012-006
EX-TRAFIRE®85HD/CE 3x400 V Machine System/FULLY EQUIPPED/FHT-EX®105TTSM Torch 15m/Starter Kit	15 m	EX-4-012-007
EX-TRAFIRE®85HD/CE/3x400 V Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 8m/Starter Kit	8 m	EX-4-013-002
EX-TRAFIRE®85HD/CE/3x400 V Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 15m/Starter Kit	15 m	EX-4-013-003
EX-TRAFIRE®85HD/CE 3x400 V Machine System/STD EQUIPPED/FHT-EX®105TTSM Torch 8m/Starter Kit	8 m	EX-4-014-002
EX-TRAFIRE®85HD/CE 3x400 V Machine System/STD EQUIPPED/FHT-EX®105TTSM Torch 15m/Starter Kit	15 m	EX-4-014-003
PLASMA CUTTING UNITS		
EX-TRAFIRE®85HD/CE/3x400 V power supply unit/FULLY EQUIPPED		EX-4-001-001
EX-TRAFIRE®85HD/CE/3x400 V power supply unit/STD EQUIPPED		EX-4-003-001

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

AVAILABLE BULK PACKS

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

ACCESSORIES

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

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

EX-TRAFIRE® 85HD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

EX-TRAFIRE[®] 105HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.

SOLUTIONS / INDUSTRIES



Automotive
and transportation



Steel mills and
steel service
centers



Structural



Shipyards
and Offshore



Heavy
fabrication

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



EX-TRAFIRE® 105HD



IMPRESSIVE PERFORMANCE



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

READY FOR INDUSTRY 4.0



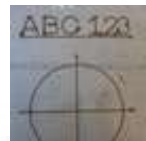
- + Industry leading connectivity
- + CAN / RS 485 / RS 422 Bus interface (optional)
- + Easy monitoring
- + Expandable and updatable

HIGHEST FLEXIBILITY



- + Plate thicknesses up to 50 mm and more
- + For mechanized and manual applications
- + Gouging with high removal rate
- + Suitable for worldwide use

MARKING MODE



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

AUTOMATIC SETTINGS



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

NEW CUTTING TORCH FHT®EX105TT



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

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

EX-TRAFIRE® 105HD

SPECIFICATIONS

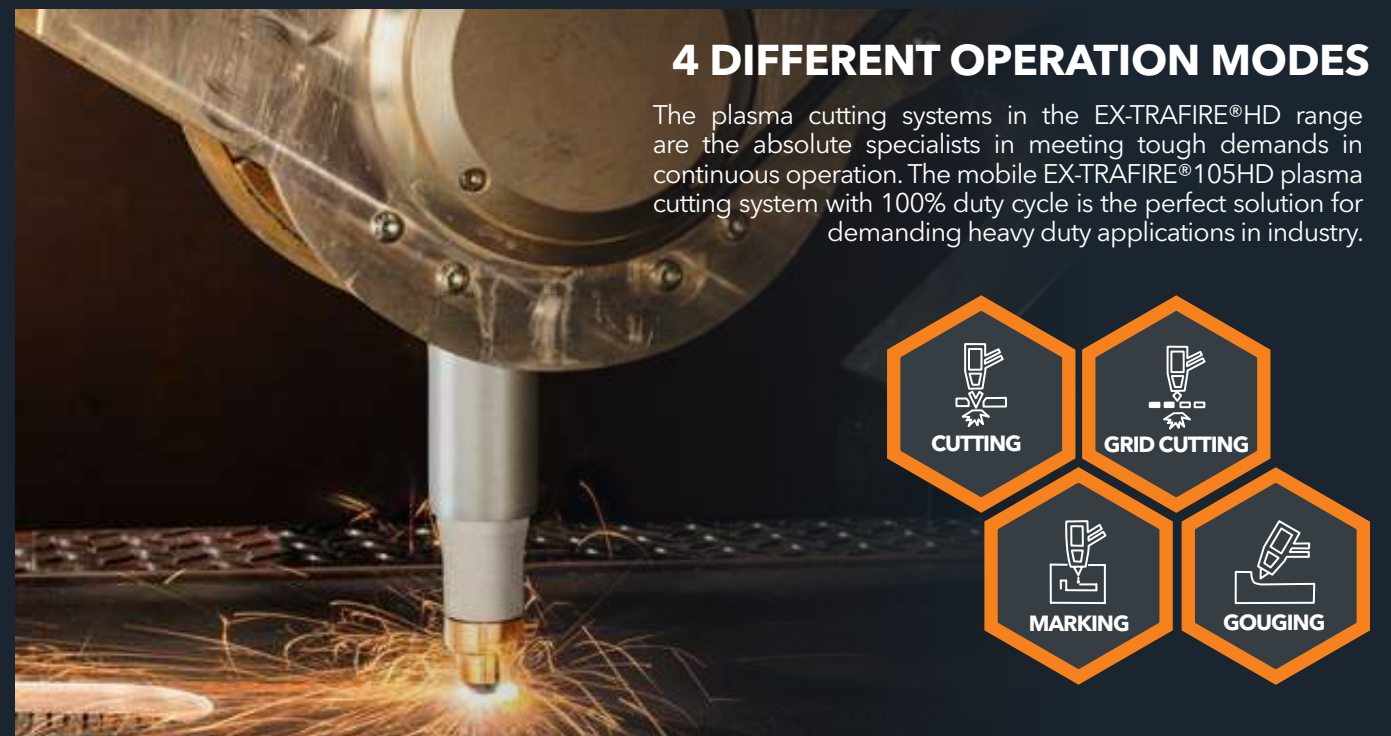
Output current [A]	20-105
Modes	cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 105 A
Rated output voltage [VDC]	200
Severance cutting capacity [mm]	50 ⁽¹⁾
Piercing capacity [mm]	20 ⁽¹⁾
Recommended cutting capacity [mm]	35 ⁽¹⁾
Plasma gas	compr. air / nitrogen / argon
Max. Air flow [lpm/bar]	205/5
CNC interface / CAN BUS interface	optional / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 x 400 ± 15 % ⁽²⁾
Frequency [Hz]	50/60
Dimensions (L×H×W) [mm]	613 x 515 x 302
Weight [kg]	35.4
Certification depending on region	CE, C-TICK, CCC, CSA
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®105TTH
Type of machine torch	FHT-EX®105TTM

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

⁽²⁾ suitable for generator use

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: 22/03/2023. 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		
EX-TRAFIRE®105HD/CE/3x400 V Hand System/CNC Port/FHT-EX®105TTH/Starter Kit	5 m	EX-5-010-009
EX-TRAFIRE®105HD/CE/3x400 V Hand System/CNC Port/FHT-EX®105TTH/Starter Kit	8 m	EX-5-010-010
EX-TRAFIRE®105HD/CE/3x400 V Hand System/CNC Port/FHT-EX®105TTH/Starter Kit	15 m	EX-5-010-011
EX-TRAFIRE®105HD/CE/3x400 V Hand System/CNC Port/FHT-EX®105TTH/Starter Kit	23 m	EX-5-010-012
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®105HD/CE/3x400 V Machine System/CNC Port/Serial Interface/FHT-EX®105TTM STD-NR/Starter Kit	8 m	EX-5-011-019
EX-TRAFIRE®105HD/CE/3x400 V Machine System/CNC Port/Serial Interface/FHT-EX®105TTM STD-NR/Starter Kit	15 m	EX-5-011-020
EX-TRAFIRE®105HD CE 3x400 V Machine System/CNC Port/Serial Interface/FHT-EX®105TTSM/Starter Kit	8 m	EX-5-012-006
EX-TRAFIRE®105HD CE 3x400 V Machine System/CNC Port/Serial Interface/FHT-EX®105TTSM/Starter Kit	15 m	EX-5-012-007
EX-TRAFIRE®105HD/CE/3x400 V Machine System/CNC Port/FHT-EX®105TTM STD-NR/Starter Kit	8 m	EX-5-013-002
EX-TRAFIRE®105HD/CE/3x400 V Machine System/CNC Port/FHT-EX®105TTM STD-NR/Starter Kit	15 m	EX-5-013-003
EX-TRAFIRE®105HD CE 3x400 V Machine System/CNC Port/FHT-EX®105TTSM/Starter Kit	8 m	EX-5-014-002
EX-TRAFIRE®105HD CE 3x400 V Machine System/CNC Port/FHT-EX®105TTSM/Starter Kit	15 m	EX-5-014-003
PLASMA CUTTING UNITS		
EX-TRAFIRE®105HD/CE/3x400 V power supply unit/CNC Port/Serial Interface		EX-5-001-002
EX-TRAFIRE®105HD/CE/3x400 V power supply unit/CNC Port		EX-5-003-001

AVAILABLE BULK PACKS

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

ACCESSORIES

Description	Pcs	Part No.
CNC Interface 14-pin Plug Kit	1	EX-0-803-001
CNC Interface connection lead 3 m	1	EX-0-803-003
CNC Interface connection lead 6 m	1	EX-0-803-004
CAN bus connection cable 10 m	1	EX-0-803-006
CAN bus connection cable 5 m	1	EX-0-803-007
RS422 bus connection cable 10 m	1	EX-0-803-008
RS422 bus connection cable 5 m	1	EX-0-803-009
Universal connection cable 10 m	1	EX-0-803-010
Universal connection cable 5 m	1	EX-0-803-011
Silicone Grease 25 ml	1	EX-0-805-001
Work lead with clamp 300 A/4 m/16 mm ² /EU-plug 35-70 mm ²	1	EX-5-543-037
Work lead with clamp 300 A/8 m/16 mm ² /EU-plug 35-70 mm ² (ON REQUEST)	1	EX-5-543-001
Work lead with clamp 300 A/15 m/16 mm ² /EU-plug 35-70 mm ² (ON REQUEST)	1	EX-5-543-002
Work lead with clamp 300 A/23 m/16 mm ² /EU-plug 35-70 mm ² (ON REQUEST)	1	EX-5-543-003

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

EX-TRAFIRE® 105HD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

FHT-EX® 105TT

HAND / MACHINE TORCHES AND CONSUMABLES

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



Last update of this page: 09/06/2021. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 105TT



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



The high-performant FHT-EX®105TT H/M hand and machine torches are ideal for meeting tough demands in continuous operation. These torches are optimally designed for use with EX-TRAFIRE®105HD power supplies and are suitable for cutting, gouging, grid-cutting and marking. They can cut plate thickness of up to 55+ mm and more precisely and quickly.

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

BENEFITS

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

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

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

FHT-EX® 105TTH

HAND TORCH COMPONENTS



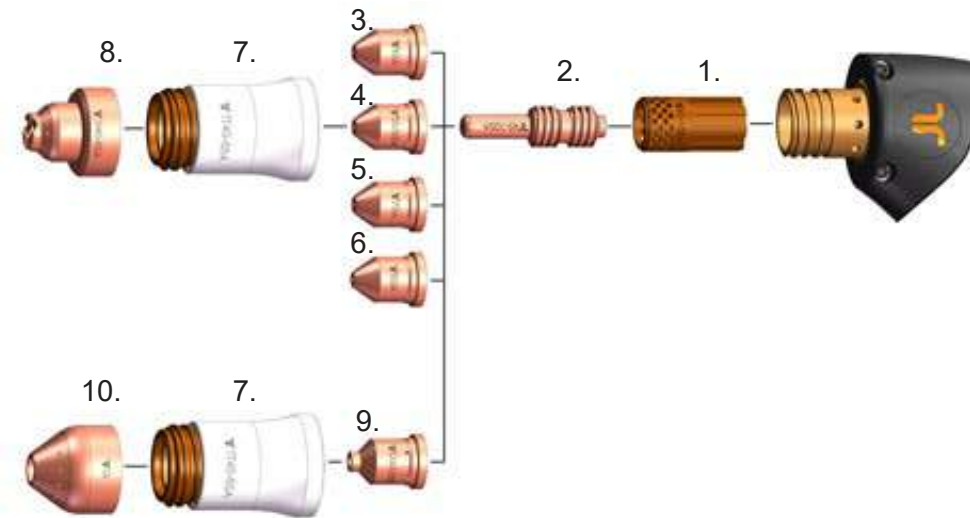
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-010	FHT-EX®105TTH Hand Torch Lead Replacement 5m (16.5')/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-5-374-011	FHT-EX®105TTH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-001	Hand Torch Body Repl. Kit (incl. Torch 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	17.	EX-0-321-003	Latch w/Key Assembly	1
7.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	18.	EX-5-313-030	Safety Trigger Micro-Switch	1
8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1				

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

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

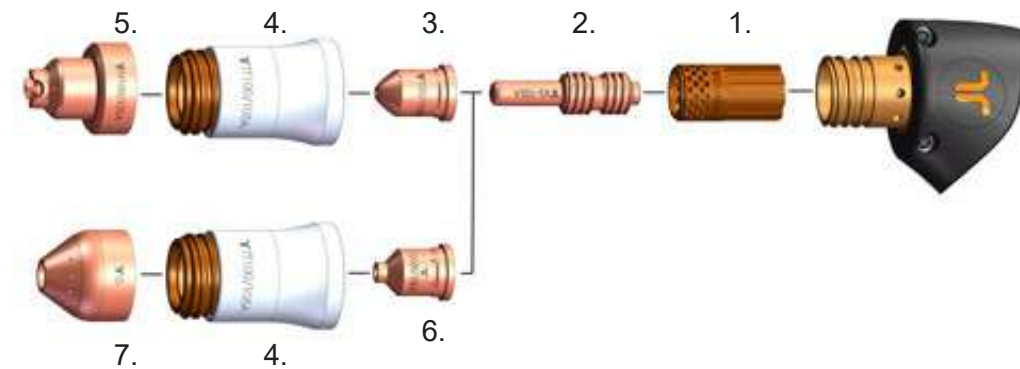
CONSUMABLES

HAND TORCH CONSUMABLES - 45-85 A



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

HAND TORCH CONSUMABLES - 100-105 A

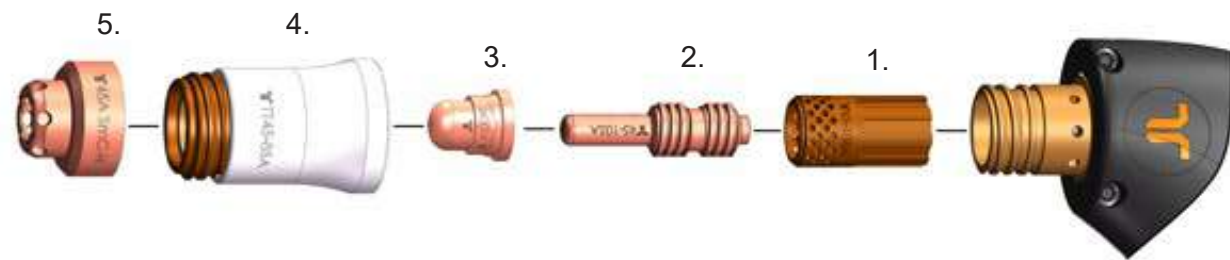


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1	5.	EX-5-422-032	Hand Shield 100/105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5	6.	EX-5-440-052	Gouging Nozzle 100/105 A	5
3.	EX-5-410-056	Nozzle 100/105 A	5	7.	EX-5-440-050	Gouging Shield	1
4.	EX-5-415-051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

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CONSUMABLES

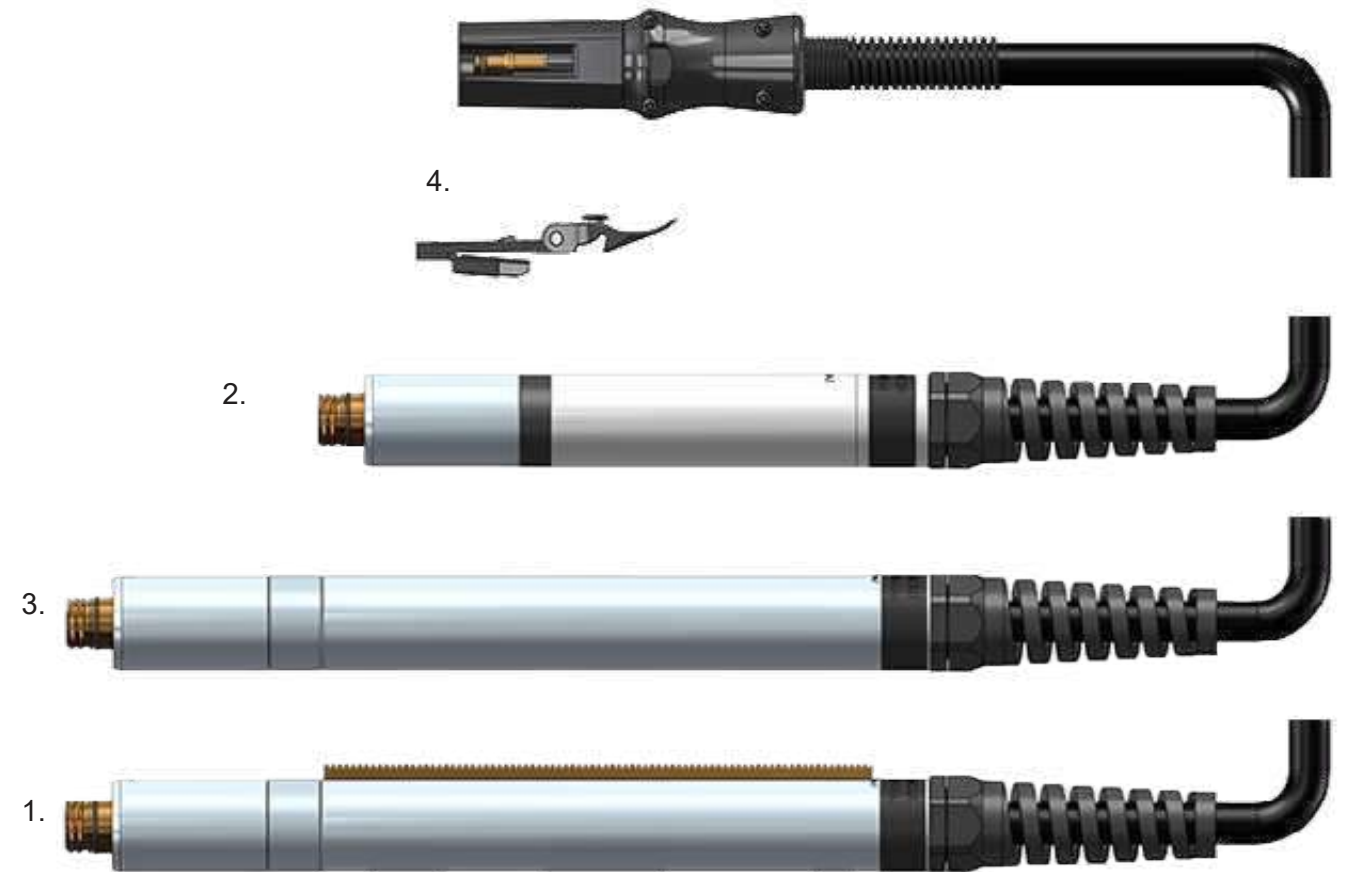
HAND TORCH CONSUMABLES - SMOOTHLINE



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

FHT-EX® 105TTM

MACHINE TORCH ASSEMBLY



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

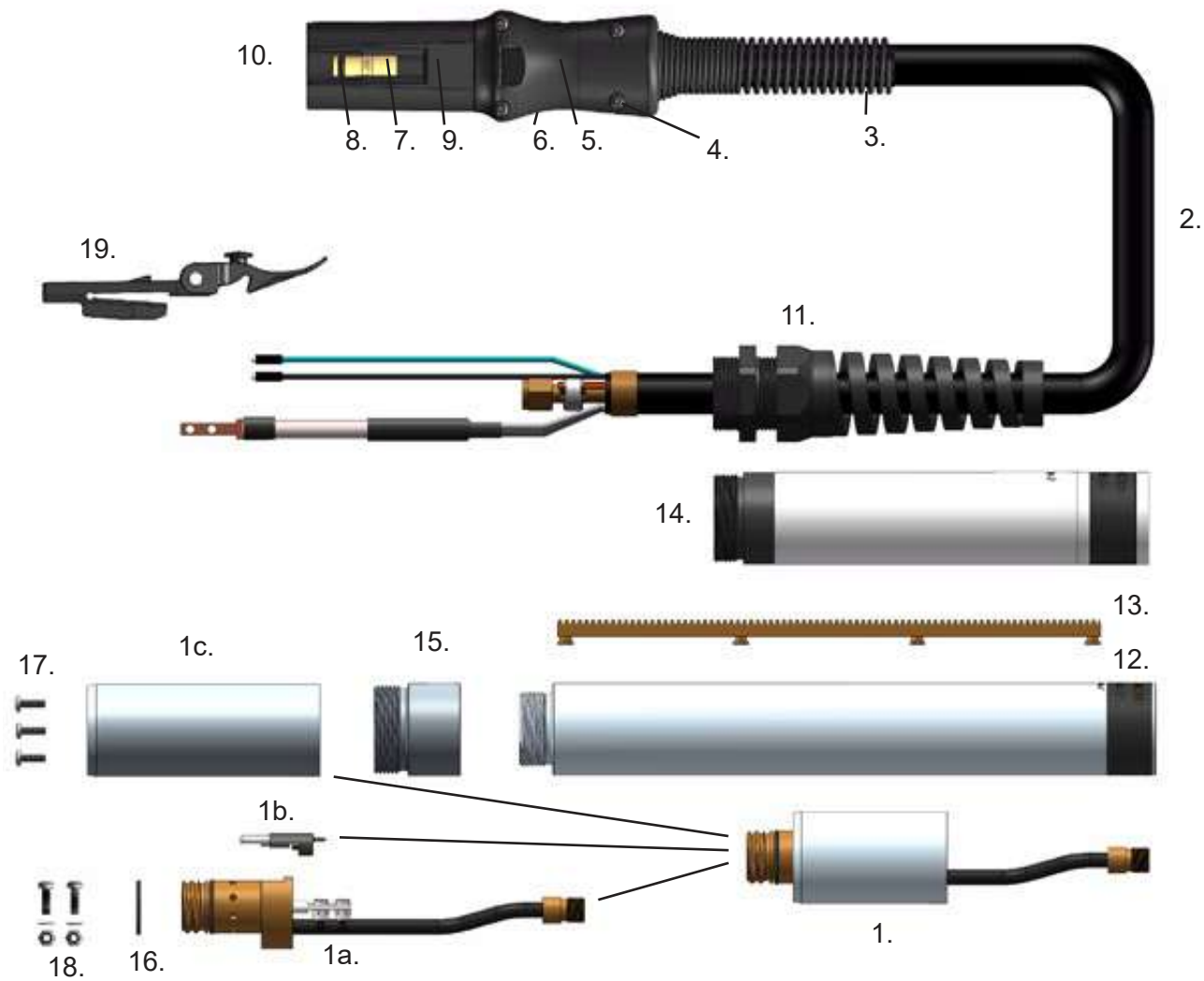
a LATCH WITH KEY IS NOT CONTENT OF TORCHES ABOVE. IF YOU NEED IT, YOU HAVE TO ORDER SEPARATELY.

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FHT-EX® 105TTM

MACHINE TORCH COMPONENTS



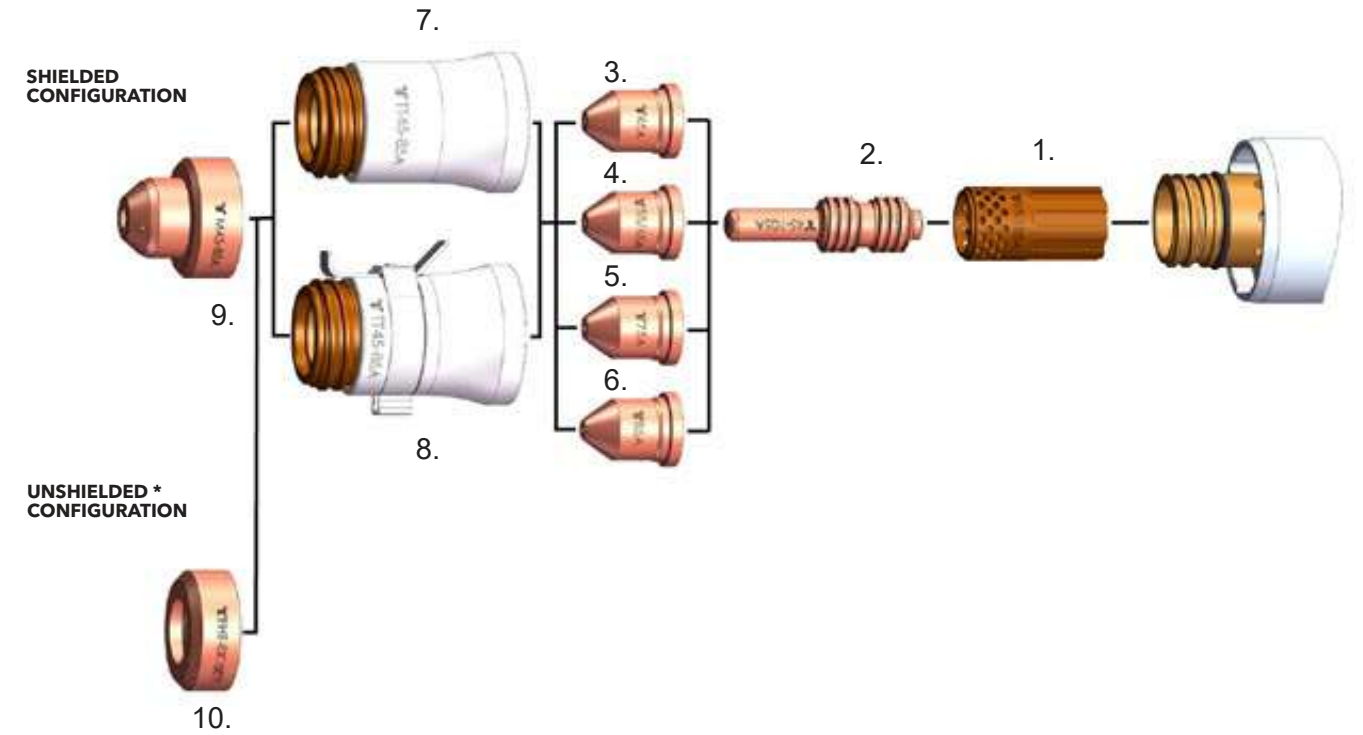
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-303-011	Machine Torch Body Assembly FHT-EX®105TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1a.	EX-5-303-010	Machine Torch Body FHT-EX®105TTM	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
1b.	EX-5-304-001	Cap Sensor Replacement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

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CONSUMABLES

STANDARD MACHINE TORCH CONSUMABLES - 45-85 A



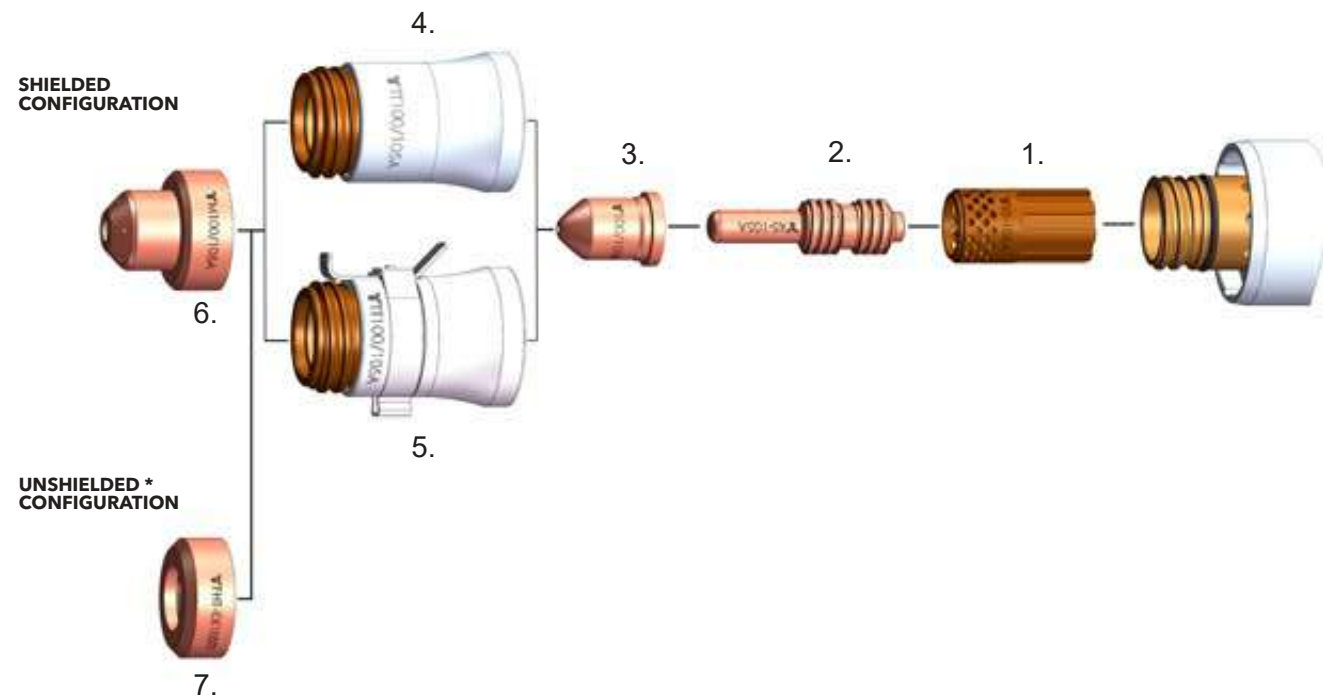
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1	6.	EX-5-410-055	Nozzle 85 A	5
2.	EX-5-401-051	Electrode 45-105 A	5	7.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
3.	EX-5-410-051	Nozzle 45 A	5	8.	EX-5-415-052	Nozzle Retaining Cap 45-85 A w/IHS Tab	1
4.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

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

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CONSUMABLES

MACHINE TORCH CONSUMABLES - 100-105 A



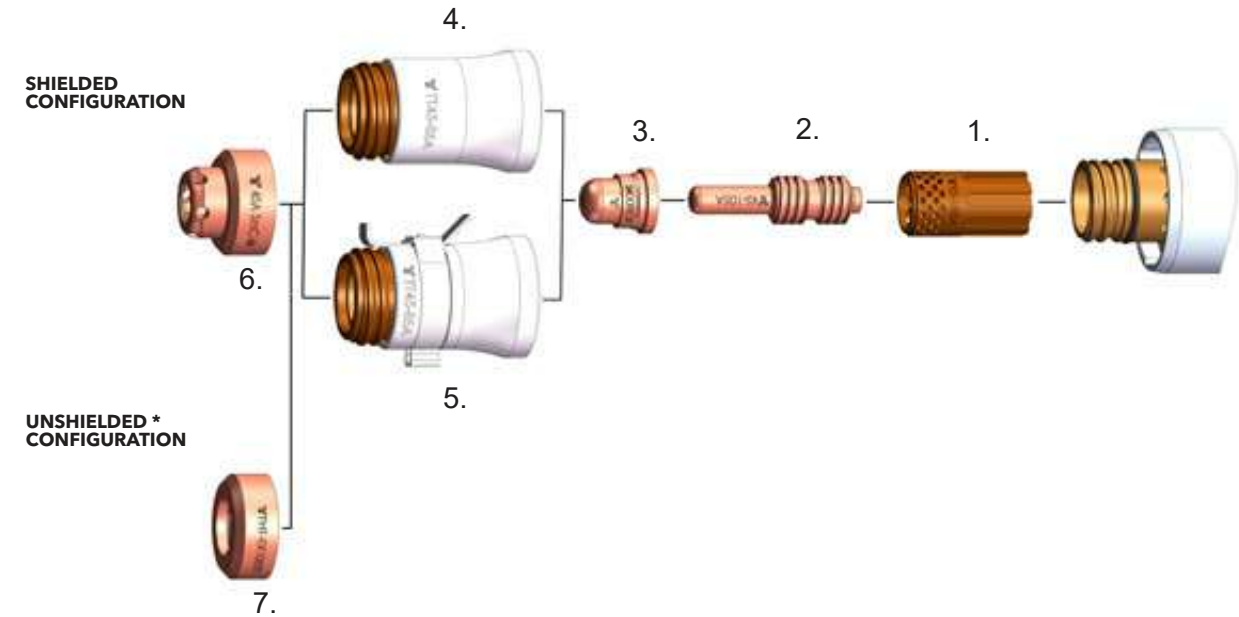
Item	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1
2.	EX-5-401-051	Electrode 45-105 A	5
3.	EX-5-410-056	Nozzle 100/105 A	5
4.	EX-5-415-051	Nozzle Retaining Cap 100/105 A	1
5.	EX-5-415-053	Nozzle Retaining Cap 100/105 A w/IHS Tab	1
6.	EX-5-422-052	Machine Shield 100/105 A	1
7.	EX-5-423-001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

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CONSUMABLES

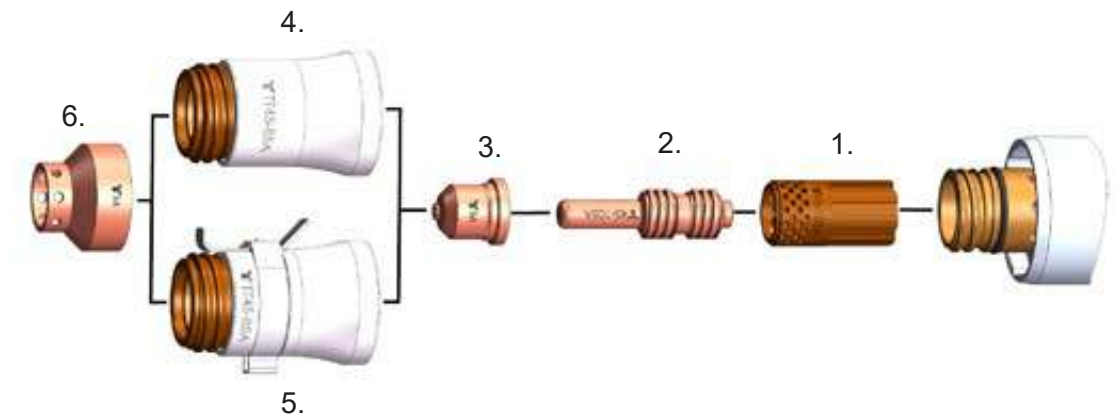
MACHINE TORCH CONSUMABLES - SMOOTHLINE



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

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

MACHINE TORCH CONSUMABLES - MARKING



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

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EX-TRAFIRE® I25HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.

SOLUTIONS / INDUSTRIES



Heavy Fabrication



Steel mills and steel service centers



Structural



Shipyards and Offshore



Heavy fabrication

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EX-TRAFIRE® 125HD

EX-TRAFIRE® 125HD



CUTTING
125 A
CURRENT

MATERIAL
60+ mm
THICKNESS

INCLUDING
MARKING
MODE

SPECIFICATIONS

Output current [A]	30-125
Modes	cutting / grid cutting / gouging / marking
Duty cycle	100 % @ 125 A
Rated output voltage [VDC]	382,5
Severance cutting capacity [mm]	60 ⁽¹⁾
Piercing capacity [mm]	25 ⁽¹⁾
Recommended cutting capacity [mm]	40 ⁽¹⁾
Plasma gas	compressed air/nitrogen
Max. Air flow [lpm/bar]	175/5.2
CNC interface / CAN BUS interface	optional / optional
Preadjusted voltage divider ratio	50:1
Input voltage [VAC]	3 x 400 ± 15 % ⁽²⁾
Frequency [Hz]	50/60
Dimensions (LxHxW) [mm]	615 x 295 x 505
Weight [kg]	37.7
Certification depending on region	CE, RCM, CSA
Maximum input pressure [bar/psi]	10/145
Protection level	IP23S
Insulation class	F
Type of hand torch	FHT-EX®125TTH
Type of machine torch	FHT-EX®125TTM

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

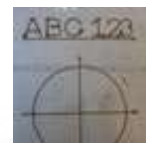
⁽²⁾ suitable for generator use

IMPRESSIVE PERFORMANCE



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

MARKING MODE



- + Automatic gas identification (air, nitrogen, argon)
- + Integrated gas saving function
- + Fine, deep or wide markings
- + Optional smooth marking for applications below 30A

READY FOR INDUSTRY 4.0



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

AUTOMATIC SETTINGS



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

HIGHEST FLEXIBILITY



- + Plate thicknesses up to 60 mm
- + For mechanized and manual applications
- + Gouging with high removal rate
- + Suitable for worldwide use

NEW CUTTING TORCH FHT®EX125TT

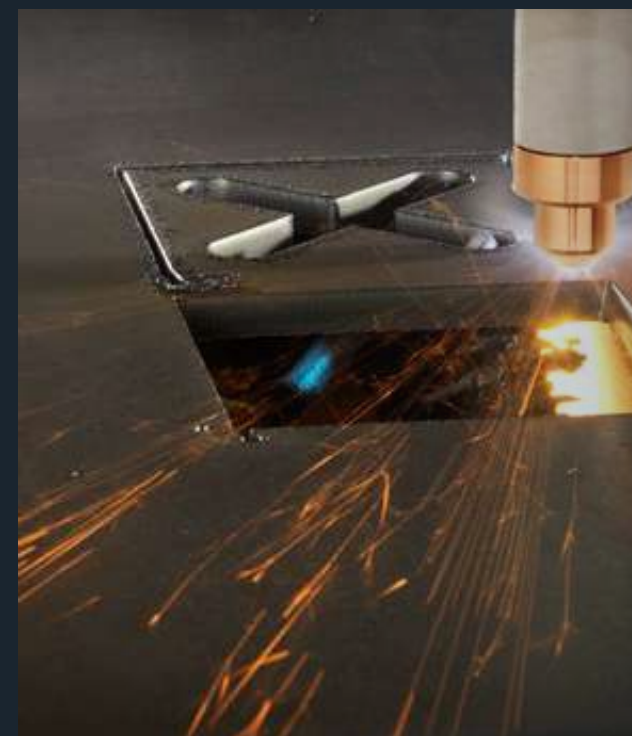


- + Torch design award BigSEE 2021 winner
- + Optimized ergonomics
- + Relaxed PE and PA cutting
- + 100% duty cycle

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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.



CUTTING

GRID CUTTING

MARKING

GOUGING

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EX-TRAFIRE® 125HD

ORDERING INFORMATION

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

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

ACCESSORIES

Description	Pcs	Part No.
DN 7.2 ES Quick Connect Plug with male thread G 1/4"	1	EX-0-802-001
DN 7.2 ES Quick Connect Coupling with male thread G 1/4"	1	EX-0-802-002
CNC Interface 14-pin Plug Kit	1	EX-0-803-001
CNC Interface connection lead 3 m	1	EX-0-803-003
CNC Interface connection lead 6 m	1	EX-0-803-004
Plasma Arc START/STOP Remote Controller for STD/FULLY EQUIPPED power supplies	1	EX-0-803-005
FILTER-EX Compressed Air Filter	1	T-12452
FILTER-EX Air Filter Cartridge	1	T-12453
Silicone Grease 25ml	1	EX-0-805-001
THERMACUT® Cutting Gloves	1	N-21811
CAN bus connection cable 10m (32.8')	1	EX-0-803-006
CAN bus connection cable 5m (16.4')	1	EX-0-803-007
RS422 bus connection cable 10m (32.8')	1	EX-0-803-008
RS422 bus connection cable 5m (16.4')	1	EX-0-803-009
Universal connection cable 10m (32.8')	1	EX-0-803-010
Universal connection cable 5m (16.4')	1	EX-0-803-011
Work lead with clamp 300A/4m/16mm2/EU-plug 35-70mm2	1	EX-5-543-037
Work lead with clamp 300A/23m/16mm2/EU-plug 35-70mm2	1	EX-5-543-003
Work lead with clamp 300A/15m/16mm2/EU-plug 35-70mm2	1	EX-5-543-002
Work lead with clamp 300A/8m/16mm2/EU-plug 35-70mm2	1	EX-5-543-001
EX-TRAFIRE®65-125HD CAN/RS Bus Upgrade Kit	1	EX-0-803-013

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EX-TRAFIRE® 125HD



FRONT VIEW



BACK VIEW



SIDE VIEW

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FHT-EX® 125TT

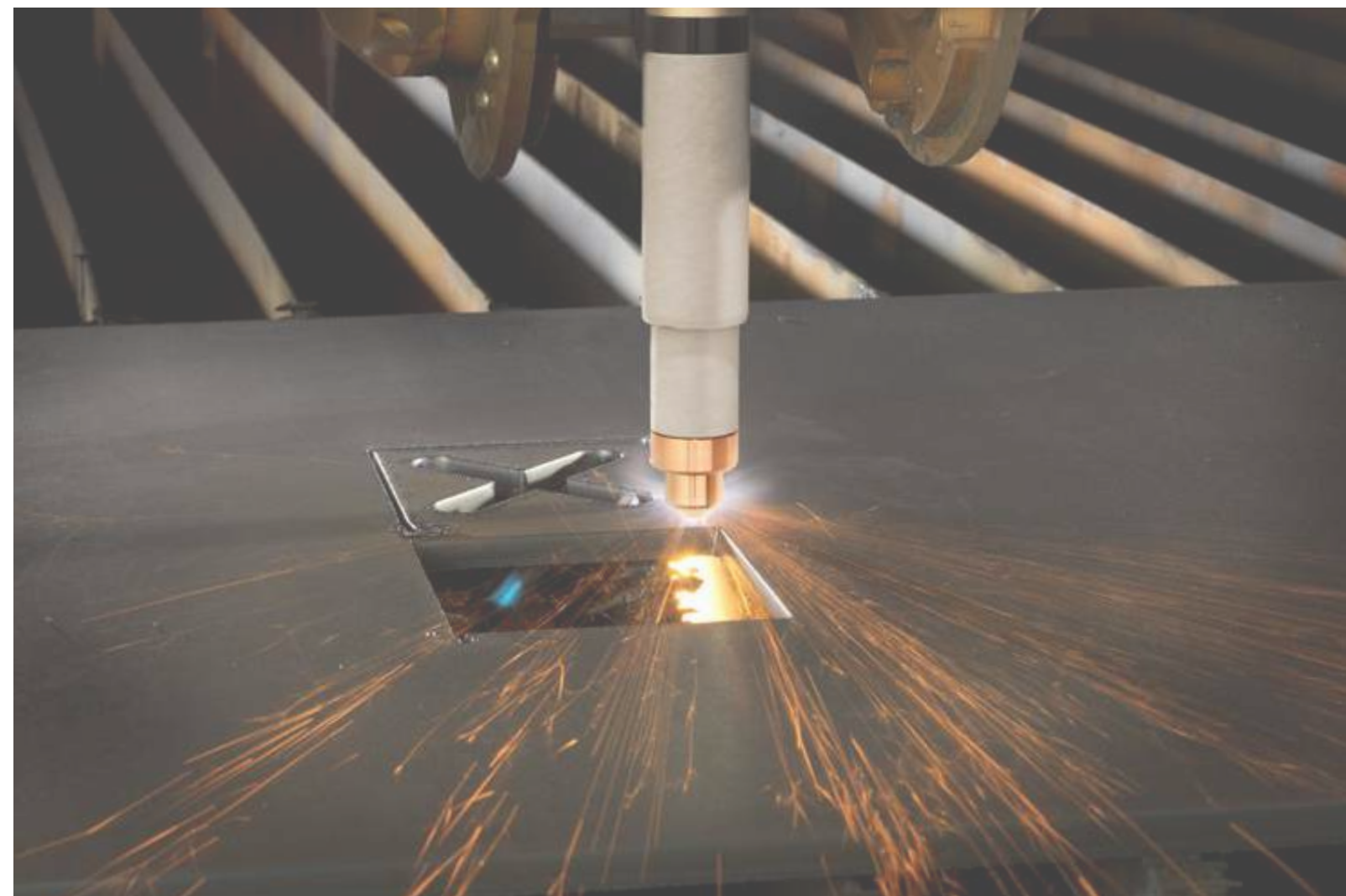
HAND / MACHINE TORCHES

AND CONSUMABLES

SUITABLE FOR EX-TRAFIRE® 125HD



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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
- Ideal for plate thicknesses of up to 60 mm and more with high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing 25+ mm
- Perfectly designed for use with EX-TRAFIRE®125HD power supplies

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FHT-EX® 125TTH

HAND TORCH ASSEMBLY



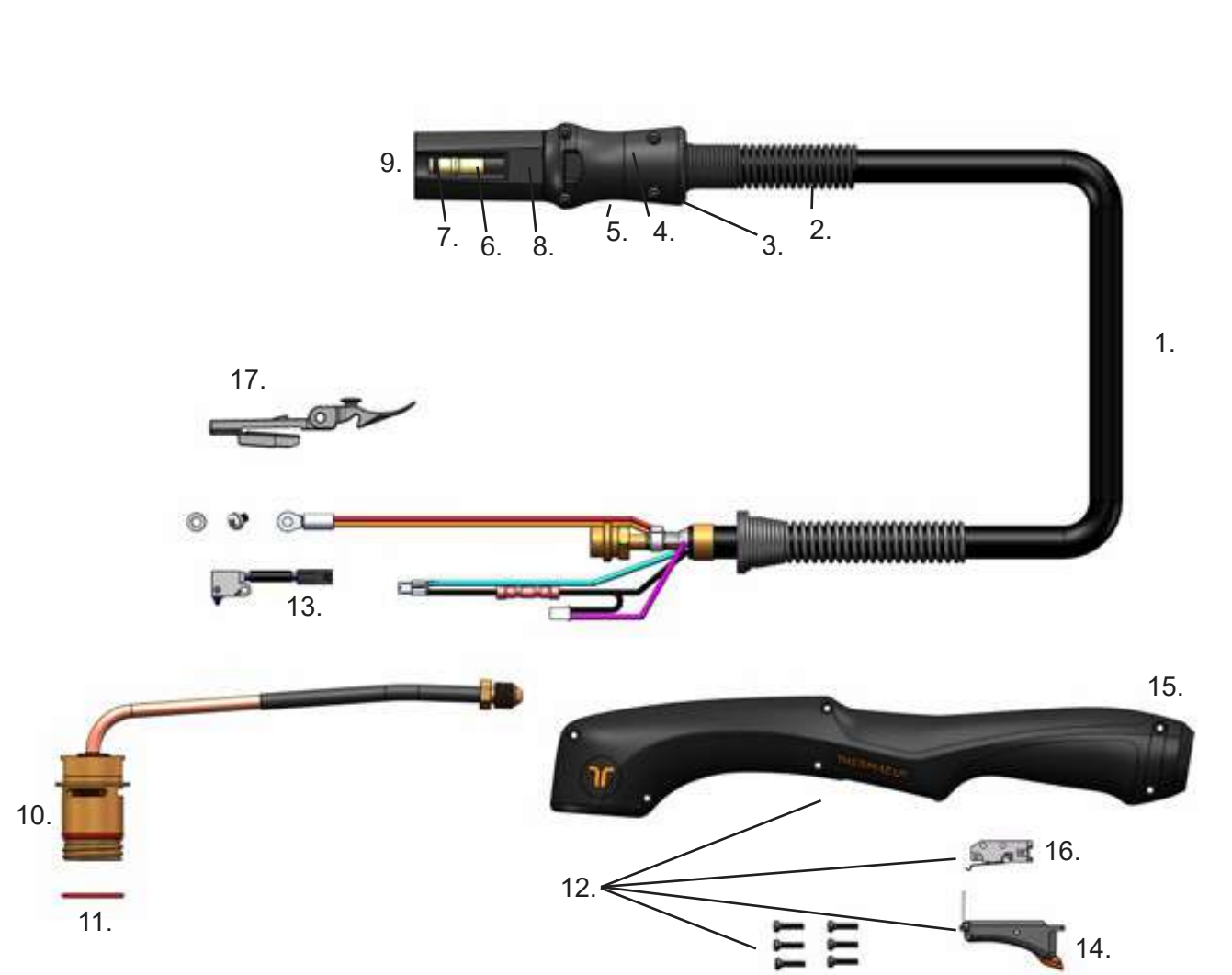
Item	Part No.	Description	Pcs
NS	EX-6-133-001	DEMO FHT-EX®125TTH Hand Torch Assembly/TCS13	1
1.	EX-6-139-001	FHT-EX®125TTH Hand Torch Assembly-w/o consumables w/5m (16.5')Lead/TCS13	1
1.	EX-6-139-002	FHT-EX®125TTH Hand Torch Assembly-w/o consumables w/8m (26.2') Lead/TCS13	1
1.	EX-6-139-003	FHT-EX®125TTH 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

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

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FHT-EX® 125TTH

HAND TORCH COMPONENTS



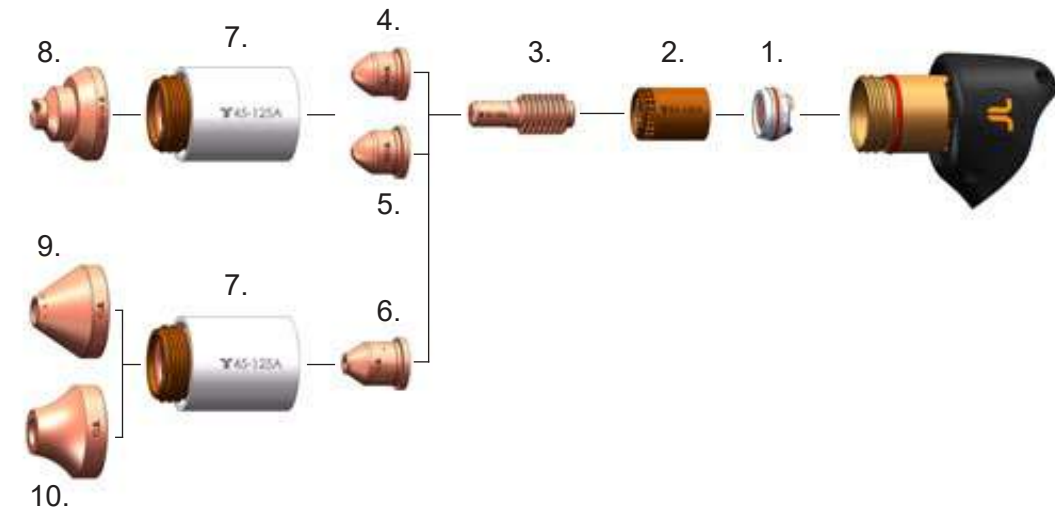
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-6-374-001	FHT-EX®125TTH Hand Torch Lead Replacement 5m (16.5')/TCS13	1	8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
1.	EX-6-374-002	FHT-EX®125TTH Hand Torch Lead Replacement 8m (26.2')/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-6-374-003	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	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.

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

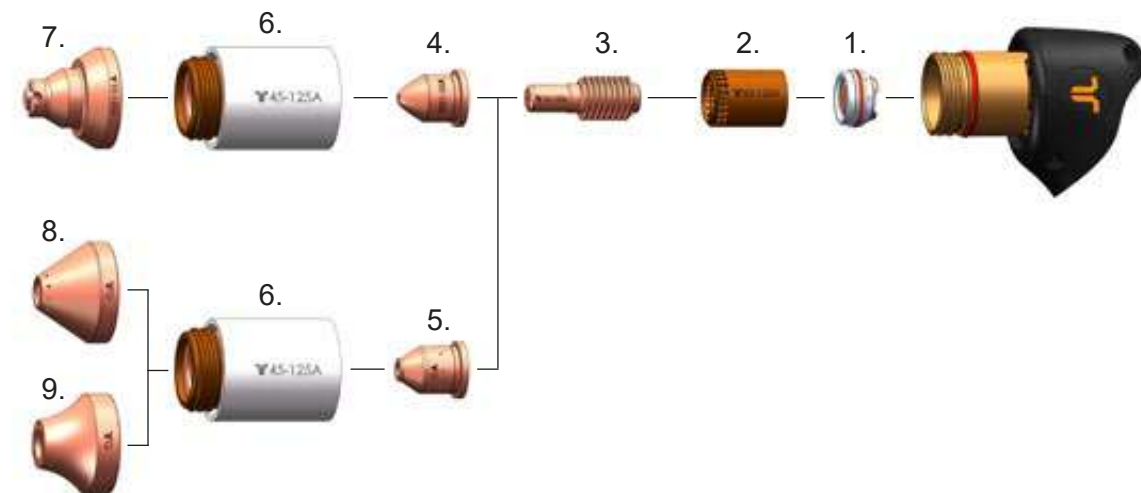
CONSUMABLES

HAND TORCH CONSUMABLES - 45-65 A



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

HAND TORCH CONSUMABLES - 85-125 A



Item	Part No.	Description	Pcs	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	8.	EX-6-440-023	Gouging Shield, Standard	1
4.	EX-6-409-021	Nozzle 85-125A	1	9.	EX-6-440-024	Gouging Shield, High Removal	1
5.	EX-6-440-020	Gouging Nozzle	1				

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

FHT-EX® 125TTM

MACHINE TORCH ASSEMBLY



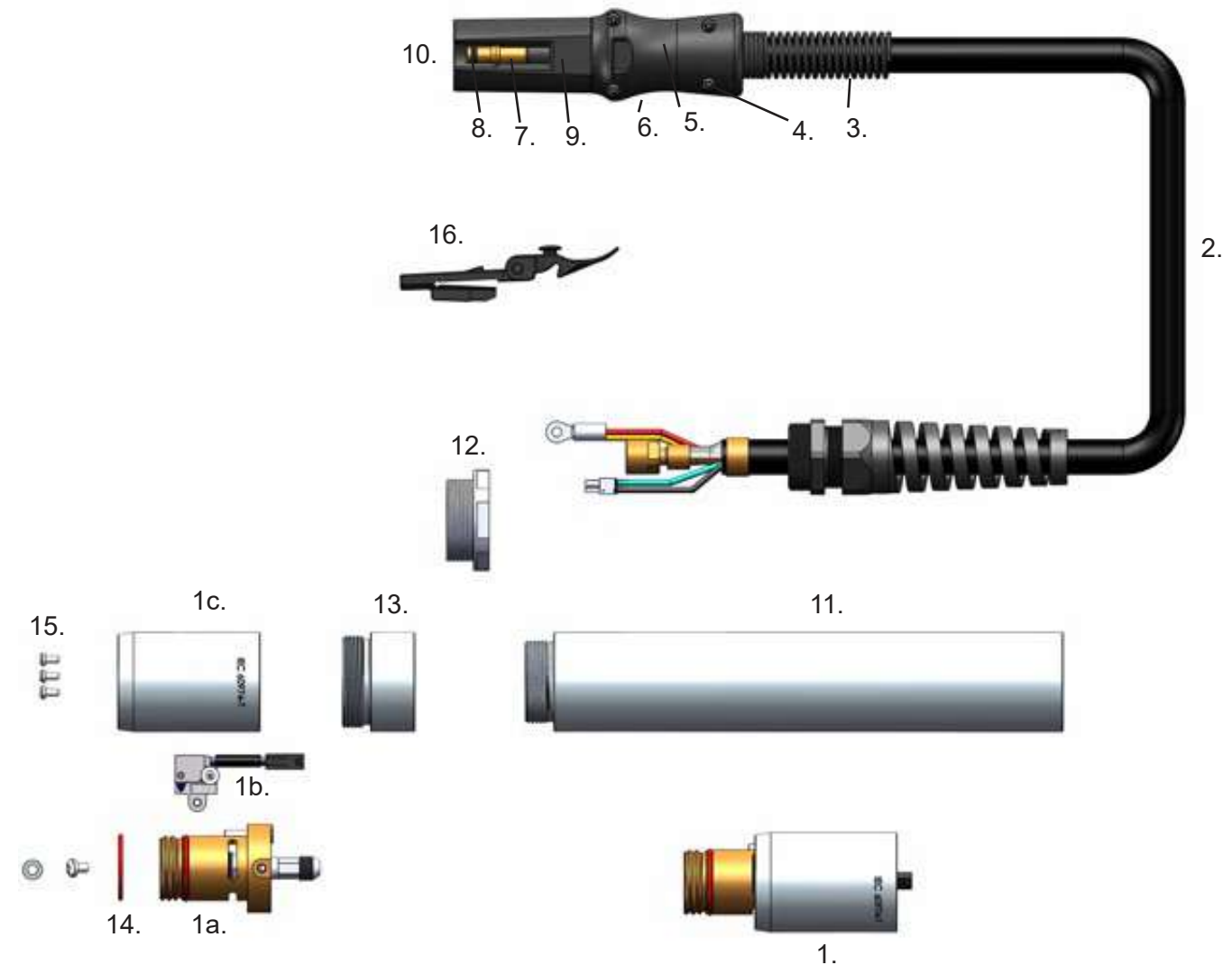
Item	Part No.	Description	Pcs
NS	EX-6-233-001	DEMO FHT-EX®125TTM Machine Torch Assembly/TCS13	1
NS	EX-6-234-001	DEMO FHT-EX®125TTSM Short Machine Torch Assembly/TCS13	1
1.	EX-6-272-001	FHT-EX®125TTSM Short Machine Torch Assembly-w/o consumables w/5m (16.5') Lead/TCS13	1
1.	EX-6-272-002	FHT-EX®125TTSM 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	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: 18/07/2023. See Revision history for details.
For product availability, please check with your local THERMACUT® dealer.

FHT-EX® 125TTM

MACHINE TORCH COMPONENTS



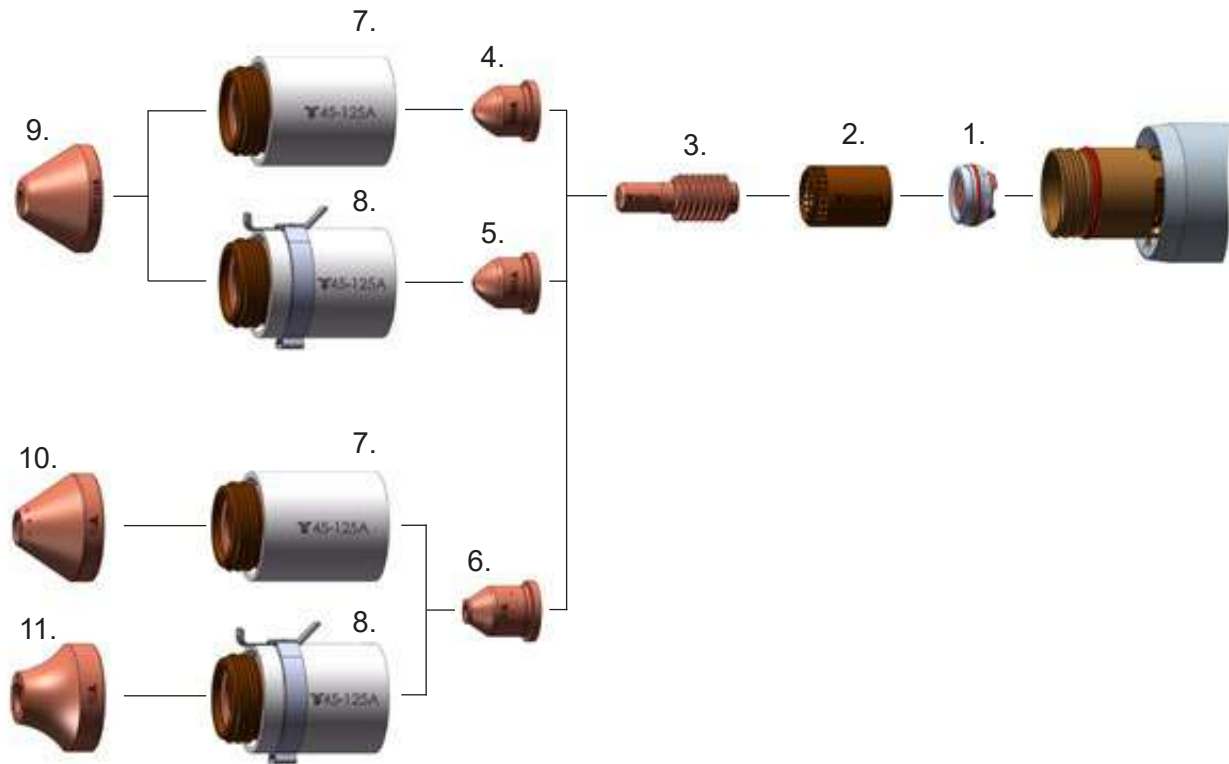
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-6-303-001	FHT-EX125TTM/TTSM Machine Torch Body Replacement Kit	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-6-303-002	FHT-EX®125TTM/TTSM Machine Torch Body Assembly	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1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

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

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

CONSUMABLES

MACHINE TORCH CONSUMABLES - 45-65 A

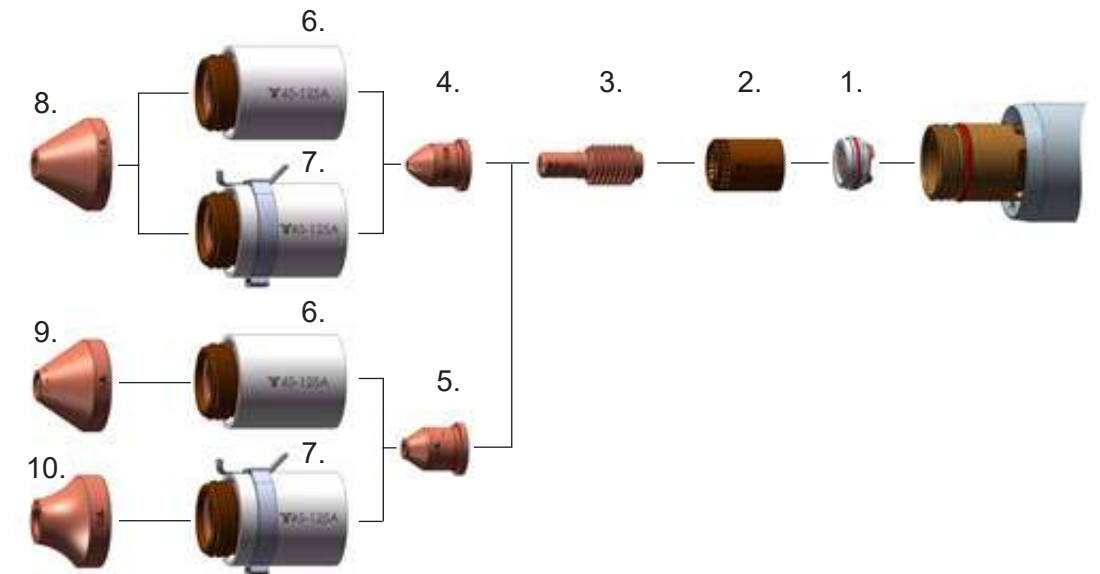


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-6-446-001	Swirl Ring Holder	1	7.	EX-6-415-021	Retaining Cap 45-125A	1
2.	EX-6-404-021	Swirl Ring 45-125A	1	8.	EX-6-415-022	Retaining Cap 45-125A, IHS Tab	1
3.	EX-6-401-021	Electrode 45-125A (5pcs package)	1	9.	EX-6-421-022	Shield 45-65A,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

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

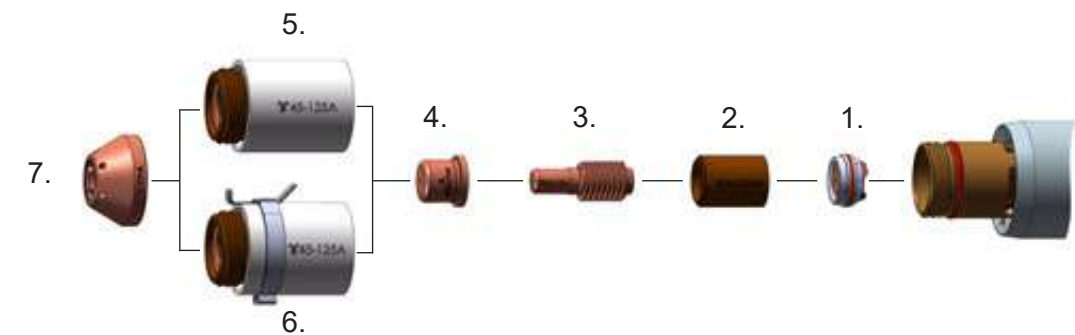
CONSUMABLES

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	8.	EX-6-421-021	Shield 85-125 A, Machine	1
4.	EX-6-409-021	Nozzle 85-125 A	1	9.	EX-6-440-023	Gouging Shield, Standard	1
5.	EX-6-440-020	Gouging Nozzle	1	10.	EX-6-440-024	Gouging Shield, High Removal	1

MACHINE TORCH CONSUMABLES - SMOOTHLINE



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	7.	EX-6-414-022	SmoothLine Shield	1
4.	EX-6-414-021	SmoothLine Nozzle	1				

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

EX-TRAFIRE[®] SD



EX-TRAFIRE[®]

EX-TRAFIRE® SD LINE OVERVIEW

Features / System	EX-TRAFIRE® 30H	EX-TRAFIRE® 45SD	EX-TRAFIRE® 55SD	EX-TRAFIRE® 75SD	EX-TRAFIRE® 100SD	
Cutting current [I2]	10 - 30 A	20-45 A (20-25 A)	20-45 A	30 - 55 A	30 - 75 A	30 - 100 A
Input voltage [I2]	CE 220-240 VAC ± 15 %	1x230 VAC ± 15 % (1x120 VAC)	3x400 VAC ± 15 %	CE 3x400 VAC ± 15 %	CE 3 x 400 VAC ± 15 %	3 x 400 VAC ± 15 %
Duty cycle	35 % @ 30 A-92 V 60 % @ 25 A-90 V 100 % @ 21 A-88,4 V	50 % @ 45 A, 100 % @ 32 A (230 VAC) 40 % @ 25 A, 100 % @ 16 A (120 VAC)	80 % @ 45 A, 100 % @ 40 A	50 % @ 55 A-170 V 60 % @ 50 A-170 V 100 % @ 41 A-170 V	100% @ 75A-170 V	50 % @ 100 A-170 V 60 % @ 91 A-170 V 10 0% @ 80 A-170 V
I1max	22 A	36,7 A	16,2 A	14,9 A	21,6 A	29,6 A
I1eff	13 A	23,2 A	14,4 A	10,5 A	21,6 A	20,7 A
Weight [kg]	10,5	12,7		11,8	24	24
Width [mm]	165	177		177	265	265
Depth [mm]	480	467		467	560	560
Height [mm]	290	228		229	400	400
Industry (IOT) 4.0	Not applicable					
Handheld Application	Yes	Yes		Yes	Yes	Yes
Mechanised Application	Not applicable	Optional, Yes		Optional, Yes	Optional, Yes	Optional, Yes
Gouging	Not recommended	Possible		No	Yes	Yes
Grid Cutting	Yes	Yes		Yes	Yes	Yes
Torch	FHT-EX®30H	FHT-EX®45TT		FHT-EX®105RTX		
Information's	48 l/min @ 4,5 bar dynamic	90 l/min @ 4,5 bar dynamic		105 A / 100 A approx. 135 l/min, 85 A / 75 A approx. 110 l/min, 65 A / 55 A approx. 98 l/min, 45 A approx. 87 l/min		
Recommended Cut	(*) 8 mm	(*) 12 mm	(*) 12 mm	(*) 20 mm	(*) 25 mm	(*) 35 mm
Maximum	(*) 10 mm	(*) 25 mm	(*) 25 mm	(*) 30 mm	(*) 35 mm	(*) 50 mm
Piercing	(*) 8 mm	(*) 10 mm	(*) 10 mm	(*) 20 mm	(*) 20 mm	(*) 20 mm
Recommended Cut	(**) 4 mm	(**) 12 mm	(**) 12 mm	(**) 15 mm	(**) 18 mm	(**) 20 mm
Maximum	(**) 8 mm	(**) 20 mm	(**) 20 mm	(**) 25 mm	(**) 25 mm	(**) 38 mm
Piercing	(**) 4 mm	(**) 10 mm	(**) 10 mm	(**) 16 mm	(**) 20 mm	(**) 20 mm
Recommended Cut	(***) 6 mm	(***) 12 mm	(***) 12 mm	(***) 15 mm	(***) 18 mm	(***) 20 mm
Maximum	(***) 10 mm	(***) 20 mm	(***) 20 mm	(***) 25 mm	(***) 25 mm	(***) 35 mm
Piercing	(***) 6 mm	(***) 10 mm	(***) 10 mm	(***) 16 mm	(***) 20 mm	(***) 20 mm
Gas type	Compressed Air					
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/m³, class 2 ref.: ISO 8573,					
	Air max. dew point: +3° C, class 4 ref. to ISO 8573					
Nitrogen	Purity ≥ 99,99%					
Gas quality	Clean, moisture-free, without oil					
	(*) Recommendation up to based on low alloyed steel handheld cutting starting from the edge (up to)					
	(**) Recommendation up to based SST handheld cutting starting from the edge (up to)					
	(***) Recommendation up to based on Aluminium handheld cutting starting from the edge (up to)					

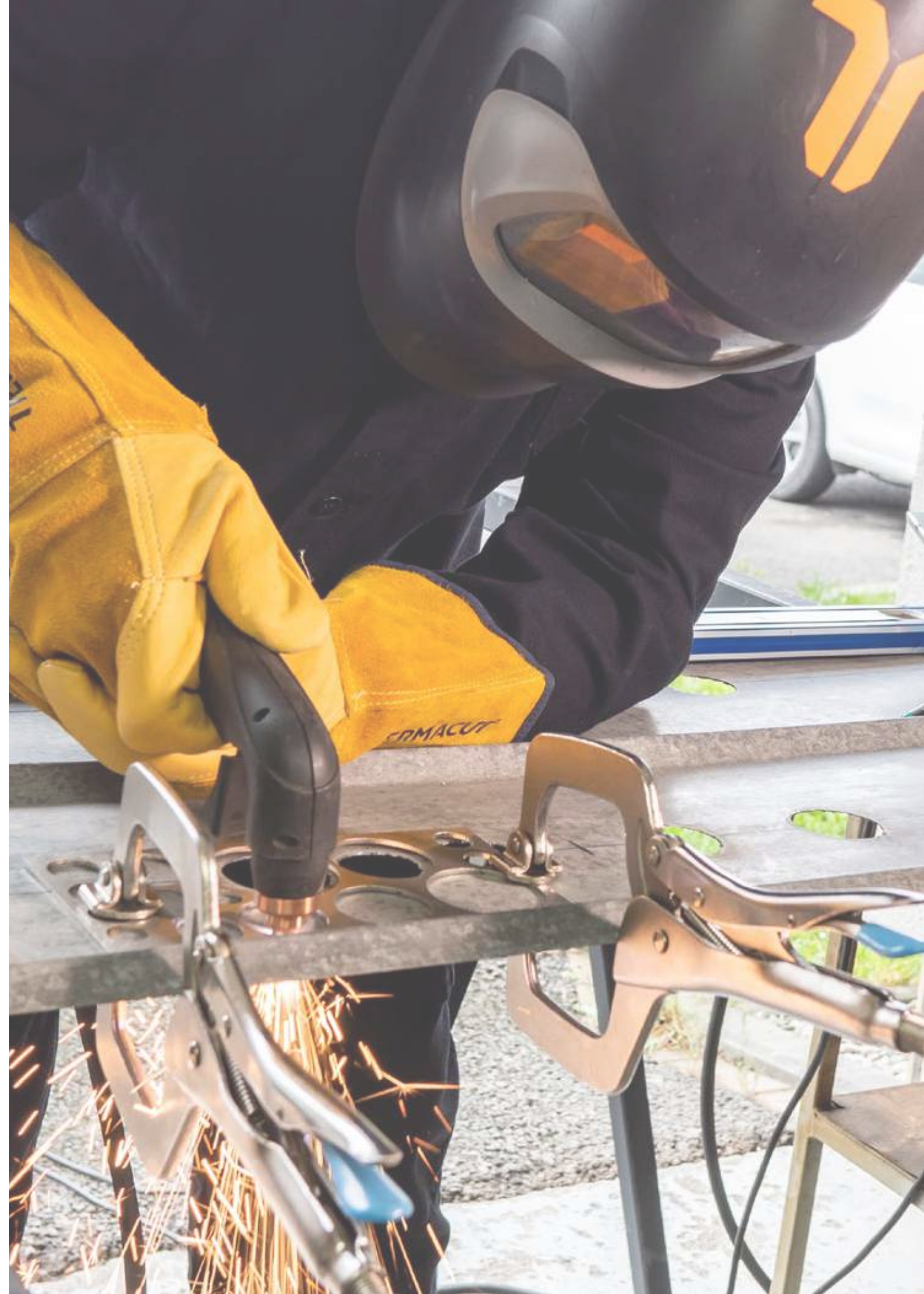
Last update of this page: 18/07/2023. See Revision history for details.

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

EX-TRAFIRE[®] 30H

PORTABLE AND POWERFUL PLASMA CUTTING SYSTEM

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



EX-TRAFIRE® 30H



SIMPLE OPERATION



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

EX-TRA PERFORMANCE



- + Cutting
- + Precise cuts
- + Easy operation

HIGHEST APPLICATION FLEXIBILITY



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

BEST COST-EFFECTIVENESS



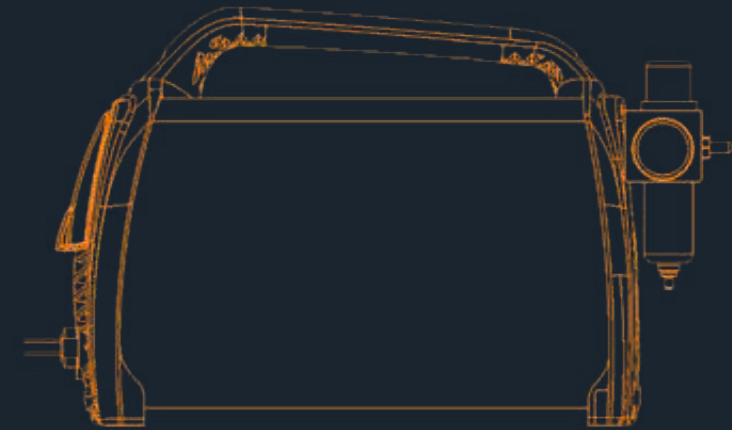
- + Very low investment
- + Lower running costs

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

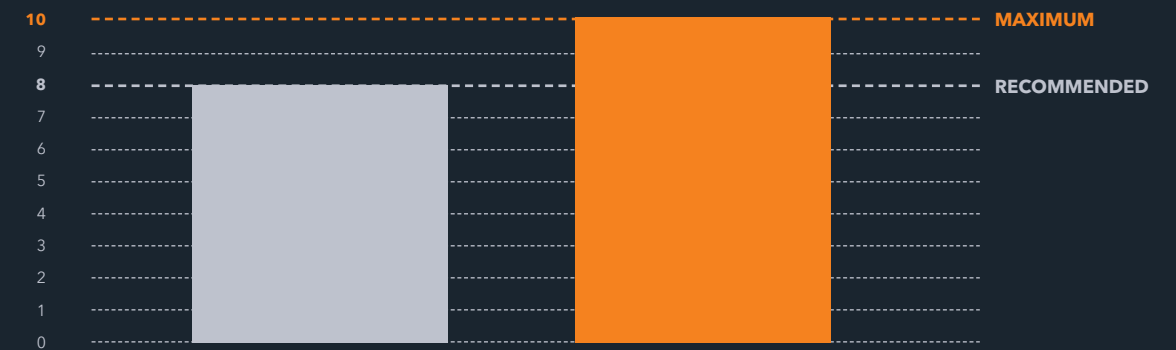
EX-TRAFIRE® 30H

SPECIFICATIONS

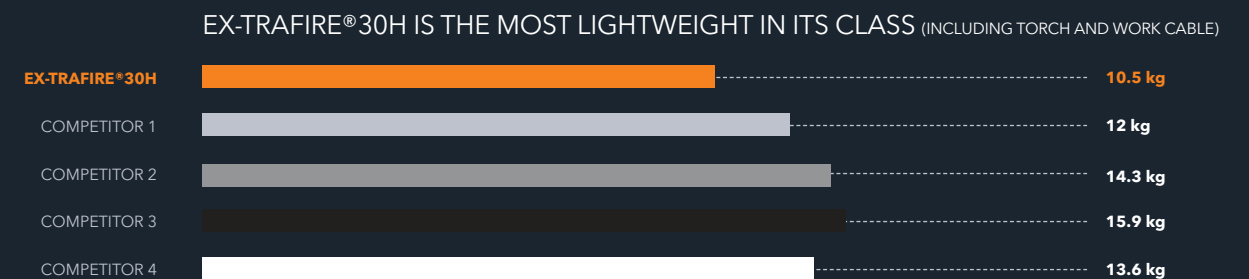
- OUTPUT CURRENT [A] 10-30
- INPUT VOLTAGE [VAC] 220-240 V ± 15 %
- PLASMA GAS COMPRESSED AIR
- CERTIFICATION CE, C-TICK, CCC
- MODES CUTTING
- FREQUENCY [Hz] 50/60
- MAXIMUM INPUT POWER [kVA] 4.9
- OUTPUT VOLTAGE [VDC] 92
- DUTY CYCLE @ 40 °C 35 % @ 30 A, 100 % @ 21 A
- DIMENSION (L x H x W) [mm] 480x290x165
- WEIGHT [kg] 10.5
- RECOMMENDED CUTTING CAPACITY [mm] 8
- SEVERANCE CUTTING CAPACITY [mm] 10
- PIERCING CAPACITY [mm] 8
- AIR FLOW @ [lpm/bar] 48 @ 4.5
- MAXIMUM INPUT PRESSURE [bar/psi] 10/145
- PROTECTION LEVEL IP23S
- INSULATION CLASS H/F
- CNC INTERFACE NO
- INDUSTRY 4.0 NO
- TYPE OF HAND TORCH FHT-EX®30H



MILD STEEL CUTTING CAPACITY IN MILLIMETRES



COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES



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

EX-TRAFIRE® 30H

ORDERING INFORMATION

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

AVAILABLE BULK PACKS

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

ACCESSORIES

Description	STD Package QTY	Part No.
DN 7.2 ES Quick Connect Plug with male thread G 1/4"	1	EX-0-802-001
DN 7.2 ES Quick Connect Coupling with male thread G 1/4"	1	EX-0-802-002
Grease 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	T-12453
Circle cutting guide kit for FHT-EX®30/40H	1	EX-2-801-001

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

EX-TRAFIRE® 30H



FRONT VIEW

BACK VIEW



SIDE VIEW

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

FHT-EX® 30H



**LIGHTWEIGHT
POWERFUL**



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

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

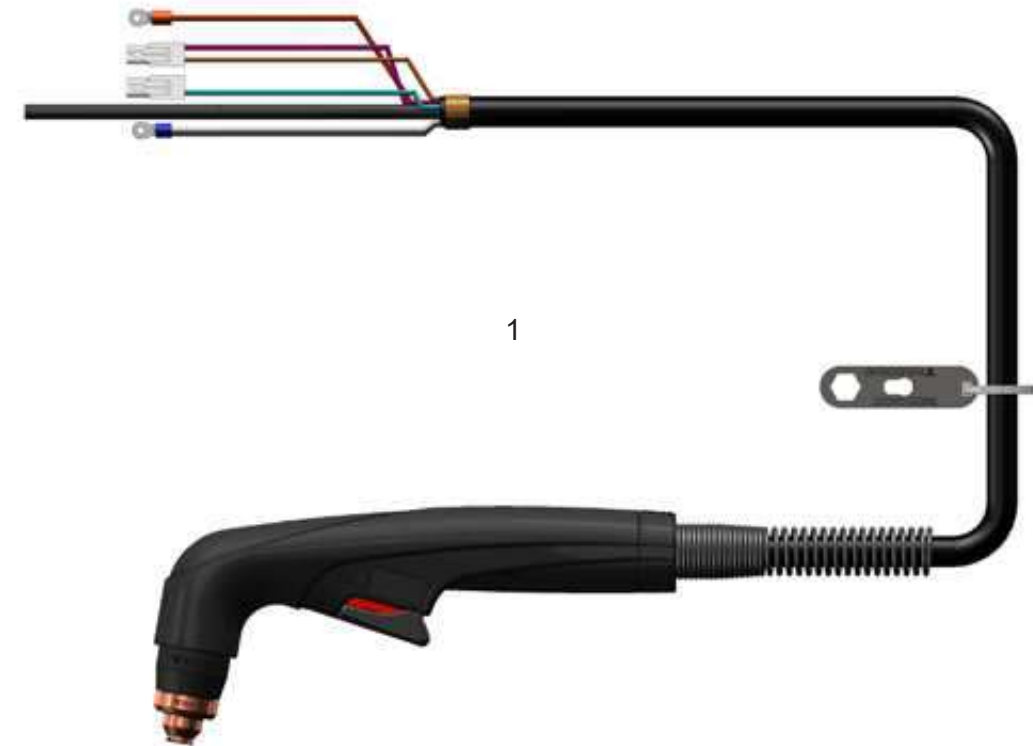
BENEFITS

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

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

FHT-EX® 30H

HAND TORCH ASSEMBLY

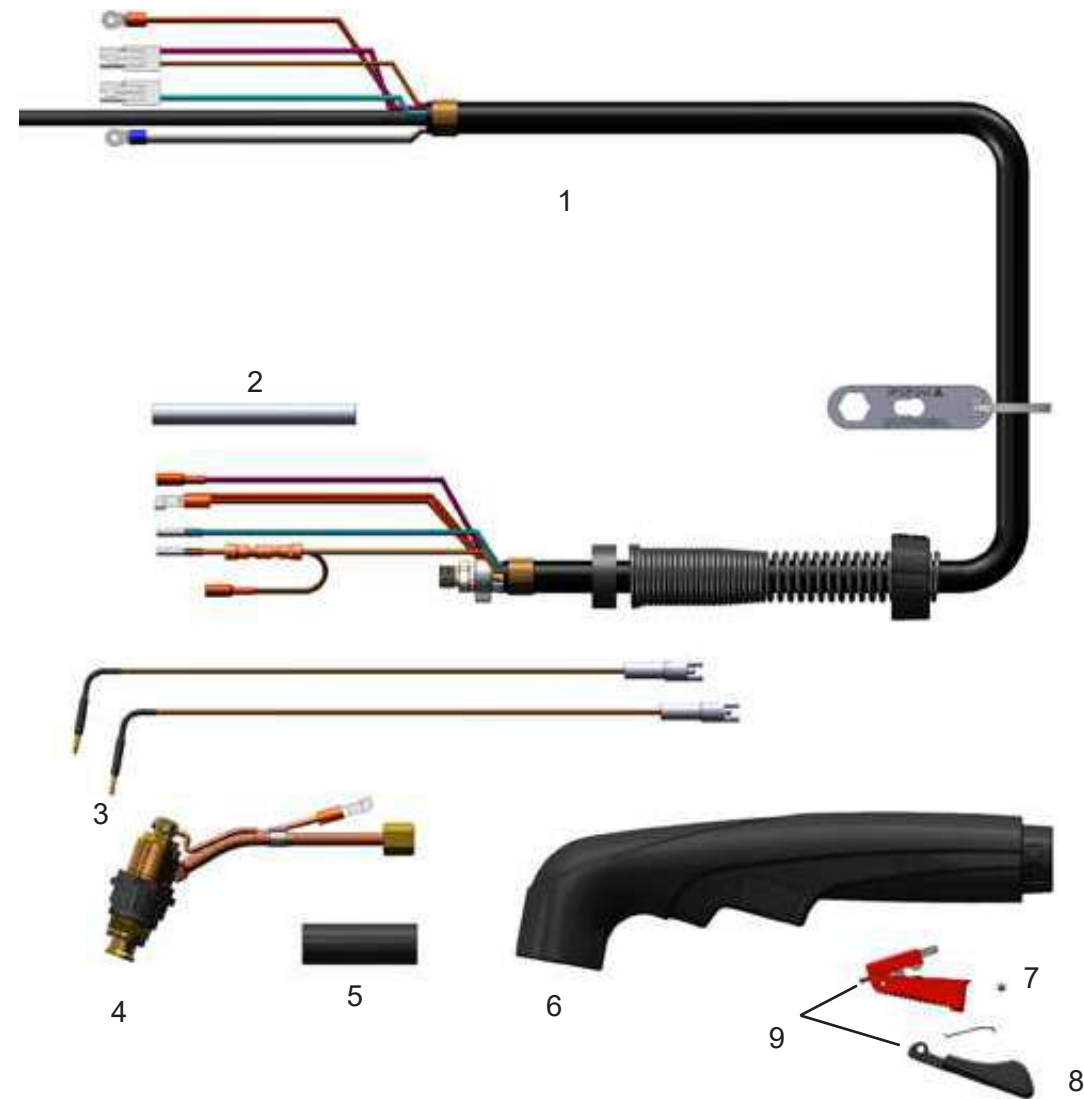


Item	Part No.	Description	Pcs.
1.	EX-1-134-001	FHT-EX®30H Hand Torch Assembly with 4m Lead/FC	1

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

FHT-EX® 30H

HAND TORCH COMPONENTS

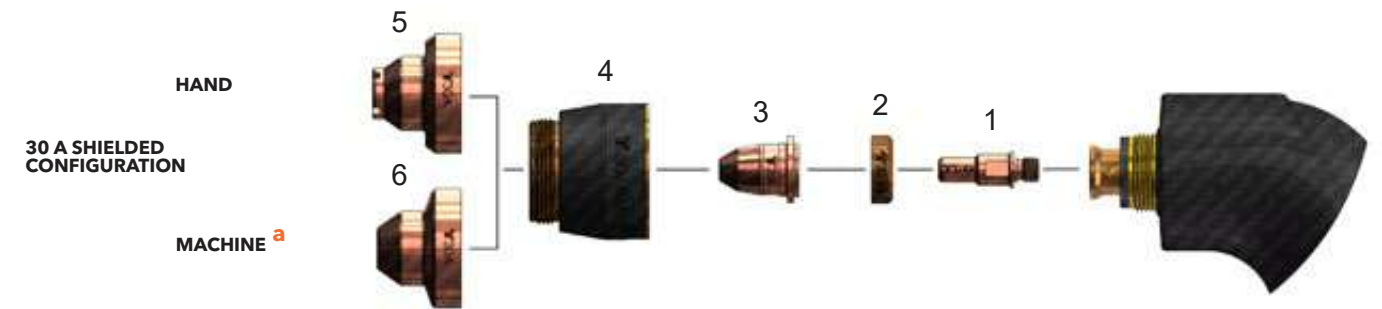


Item	Part No.	Description	Pcs.	Item	Part No.	Description	Pcs.
1.	EX-1-373-001	Hand Torch Lead Replacement Kit 4m Lead/FC	1	6.	EX-2-314-015	Hand Torch Handle Replacement Kit	1
2.	EX-0-319-021	Insulating Teflon Tube	1	7.	EX-5-309-013	Trigger	1
3.	EX-2-304-020	Hand Torch PIP Pins Replacement Kit (with Wires)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

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

CONSUMABLES

HAND TORCH CONSUMABLES



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

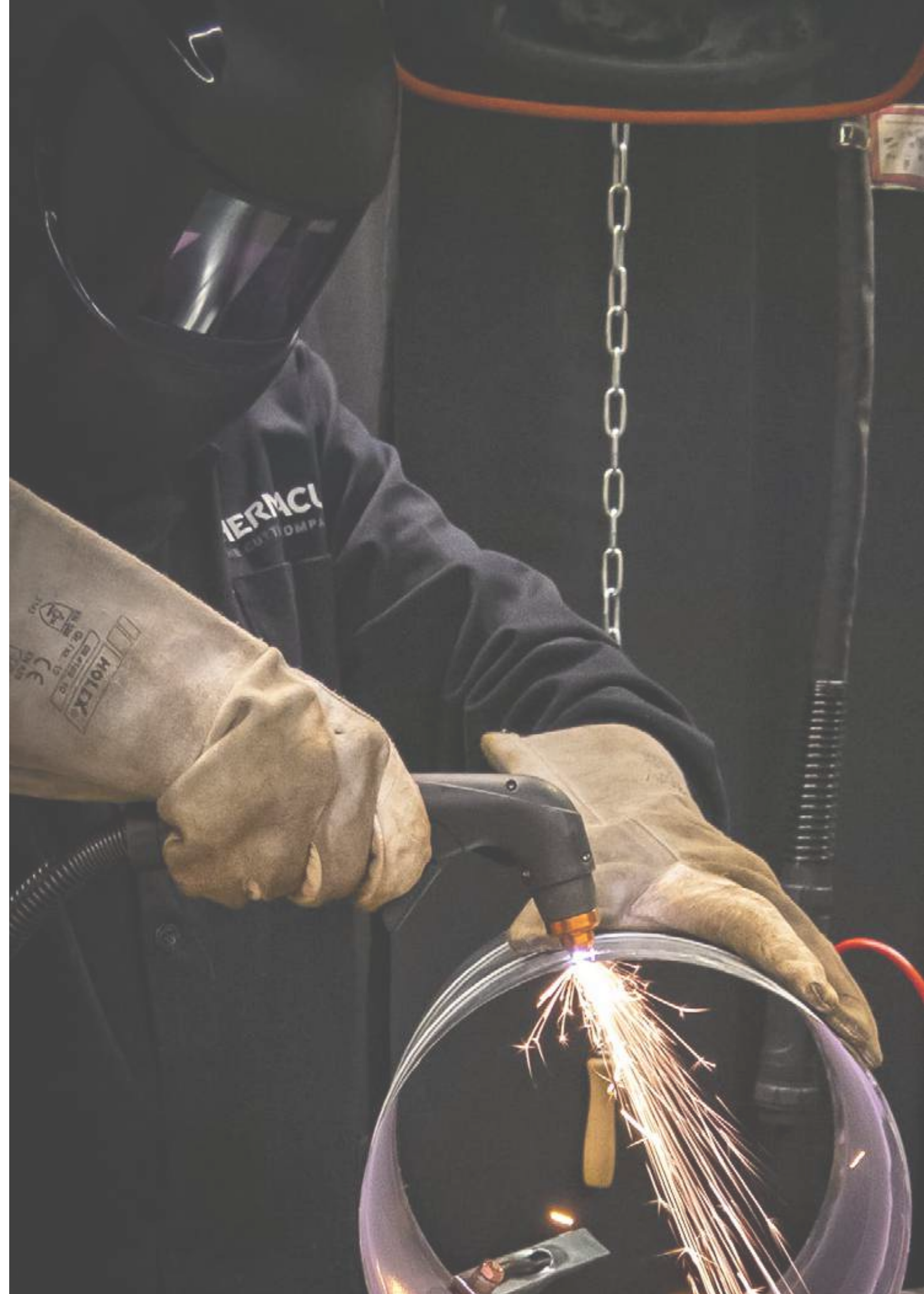
NS NOT SHOWN IN THE PICTURE
a FOR USE WITH CIRCLE CUTTING GUIDE OR FOR BEVEL CUTTING

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

EX-TRAFIRE[®]40SD

LIGHTWEIGHT AND POWERFUL PLASMA CUTTING SYSTEM.

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



EX-TRAFIRE® 40SD

Sale discontinued



SIMPLE OPERATION



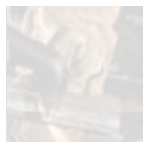
- + Plug & cut
- + Engineered for hobbyist

EX-TRA PERFORMANCE



- + Precise cuts
- + Easy operation

HIGHEST APPLICATION FLEXIBILITY



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

BEST COST-EFFECTIVENESS



- + Very low investment
- + Lower running costs

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

EX-TRAFIRE® 40SD

ORDERING INFORMATION

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

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

AVAILABLE BULK PACKS

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

ACCESSORIES

Description	Pcs	Part No.
DN 7.2 ES Quick Connect Plug with female thread G 1/4"	1	EX-0-802-000
DN 7.2 ES Quick Connect Plug with male thread G 1/4"	1	EX-0-802-001
DN 7.2 ES Quick Connect Coupling with male thread G 1/4"	1	EX-0-802-002
Grease 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	T-12453
Circle cutting guide kit for FHT-EX®30/40H	1	EX-2-801-001

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

FHT-EX® 40H



**VERSATILE AND
CAPABLE TORCH**



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

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

BENEFITS

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

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

FHT-EX® 40H

HAND TORCH ASSEMBLY



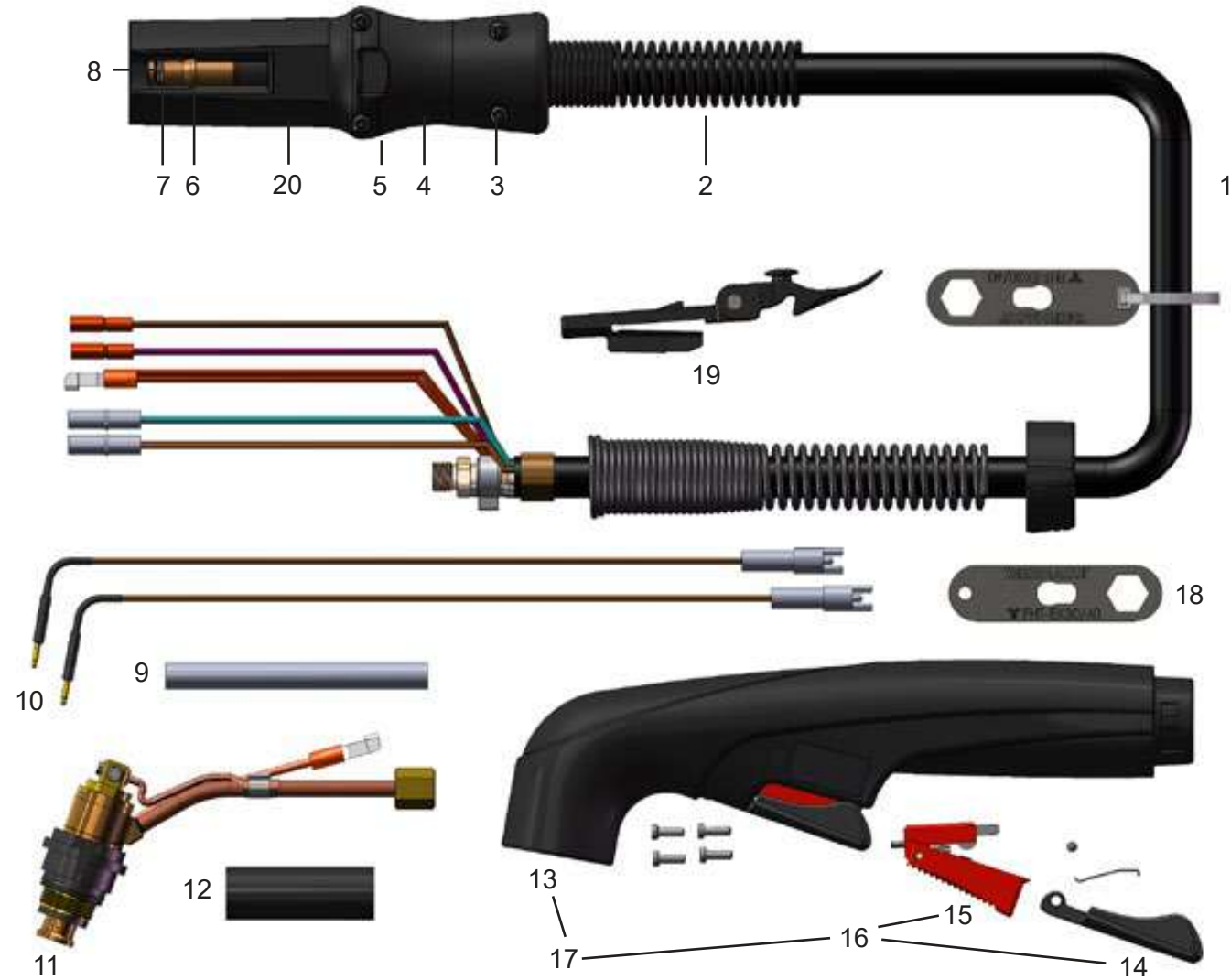
Item	Part No.	Description	Pcs
1.	EX-2-133-000	DEMO FHT-EX®40H Hand Torch Assembly/TCS13	1
	EX-2-130-001	FHT-EX®40H Hand Torch Assembly w/o consumables/4m Lead/TCS13	1
	EX-2-101-003	FHT-EX®40H Hand Torch Assembly w/o consumables/5m Lead/TCS13	1
	EX-2-131-005	FHT-EX®40H Hand Torch Assembly w/o consumables/7.5m Lead/TCS13	1
	EX-2-106-007	FHT-EX®40H Hand Torch Assembly w/o consumables/15m Lead/TCS13	1
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: 09/06/2021. See Revision history for details.

FHT-EX® 40H

HAND TORCH COMPONENTS



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
OD 1.	EX-2-328-001	Hand Torch Lead Replacement Kit 4m Lead/TCS13	1	10.	EX-2-304-020	Hand Torch PIP Pins Replacement Kit (with Wires)	1
OD	EX-2-331-002	Hand Torch Lead Replacement Kit 5m Lead/TCS13	1	11.	EX-2-302-009	Hand Torch Body FHT-EX®40H	1
OD	EX-2-329-003	Hand Torch Lead Replacement Kit 7.5m Lead/TCS13	1	12.	EX-0-319-011	Shrink Tube	1
OD	EX-2-336-004	Hand Torch Lead Replacement Kit 15m Lead/TCS13	1	13.	EX-2-308-012	Hand Torch Handle Kit	1
2.	EX-5-318-001	TCS Plug Spring Strain Relief	1	14.	EX-5-310-014	Trigger Guard	1
3.	EX-0-325-015	TCS Clam Shell Screw	1	15.	EX-5-309-013	Trigger	1
4.	EX-0-325-002	TCS Clam Shell Upper	1	16.	EX-5-313-018	Safety Trigger Replacement Kit	1
5.	EX-0-325-001	TCS Clam Shell Lower	1	17.	EX-2-314-015	Hand Torch Handle Replacement Kit	1
6.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	18.	EX-2-427-010	Electrode Wrench FHT-EX®30/40	1
7.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	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: 24/01/2022. See Revision history for details.

FHT-EX® 40M

MACHINE TORCH ASSEMBLY



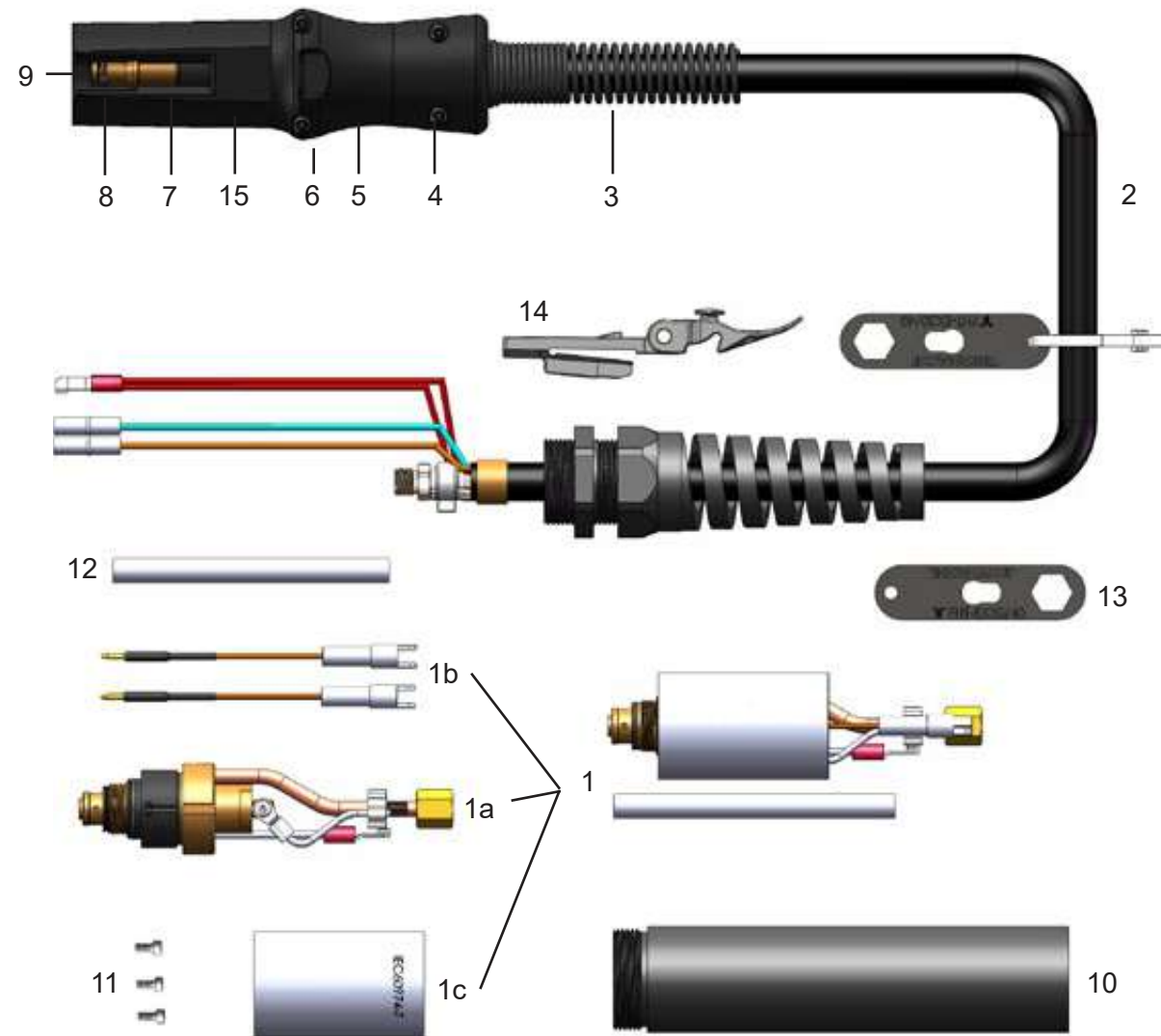
Item	Part No.	Description	Pcs
1.	EX-2-233-000	DEMO FHT-EX®40M Machine Torch Assembly/TCS13	1
	EX-2-235-001	FHT-EX®40M Machine Torch Assembly w/o consumables/4m Lead/TCS13	1
	EX-2-202-003	FHT-EX®40M Machine Torch Assembly w/o consumables/5m Lead/TCS13	1
	EX-2-236-005	FHT-EX®40M Machine Torch Assembly w/o consumables/7.5m Lead/TCS13	1
	EX-2-207-007	FHT-EX®40M Machine Torch Assembly w/o consumables/15m Lead/TCS13	1
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: 09/06/2021. See Revision history for details.

FHT-EX® 40M

MACHINE TORCH COMPONENTS



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs	
1.	EX-2-301-010	Machine Torch Body Assembly FHT-EX®40M	1	6.	EX-0-325-001	TCS Clam Shell Lower	1	
1a.	EX-2-301-011	Machine Torch Body FHT-EX®40M	1	7.	EX-0-325-010	Retaining Ring (Outer Circlip Ring)	1	
1b.	EX-2-304-021	Machine Torch PIP Pins Replacement Kit (with Wires)	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	
1c.	EX-2-306-022	Torch Mounting Sleeve (incl. screws)	1	9.	EX-0-325-005	Male Crimp Pin for TCS Plug	1	
OD	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	

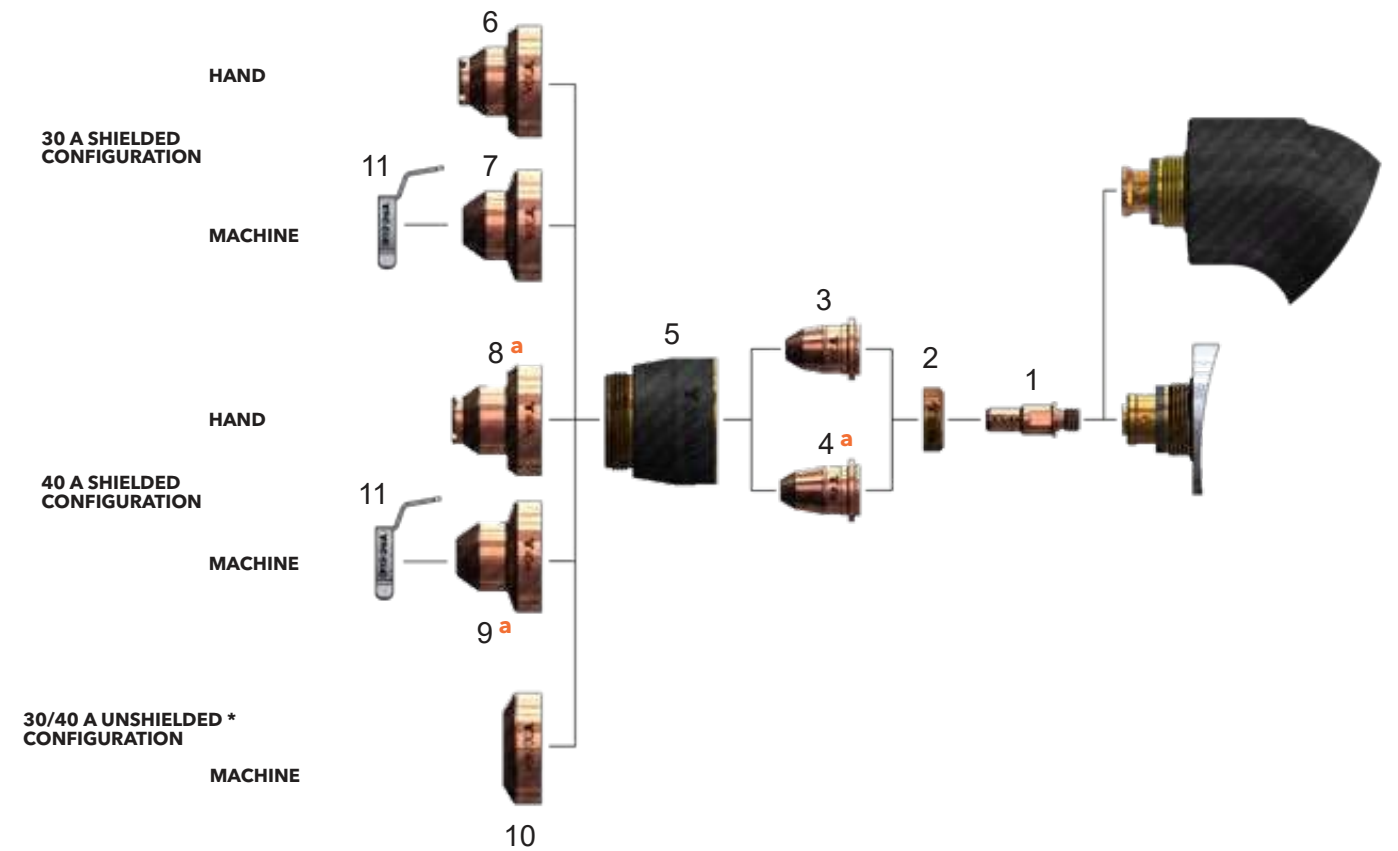
OD ON DEMAND - WE DO NOT KEEP THESE PARTS IN STOCK, COST IS SET ACCORDING TO THE ORDERED QUANTITY, DELIVERY TIME MAY DIFFER FROM STANDARD PRODUCT

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

CONSUMABLES

HAND / MACHINE TORCH CONSUMABLES



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

NS NOT SHOWN IN THE PICTURE

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

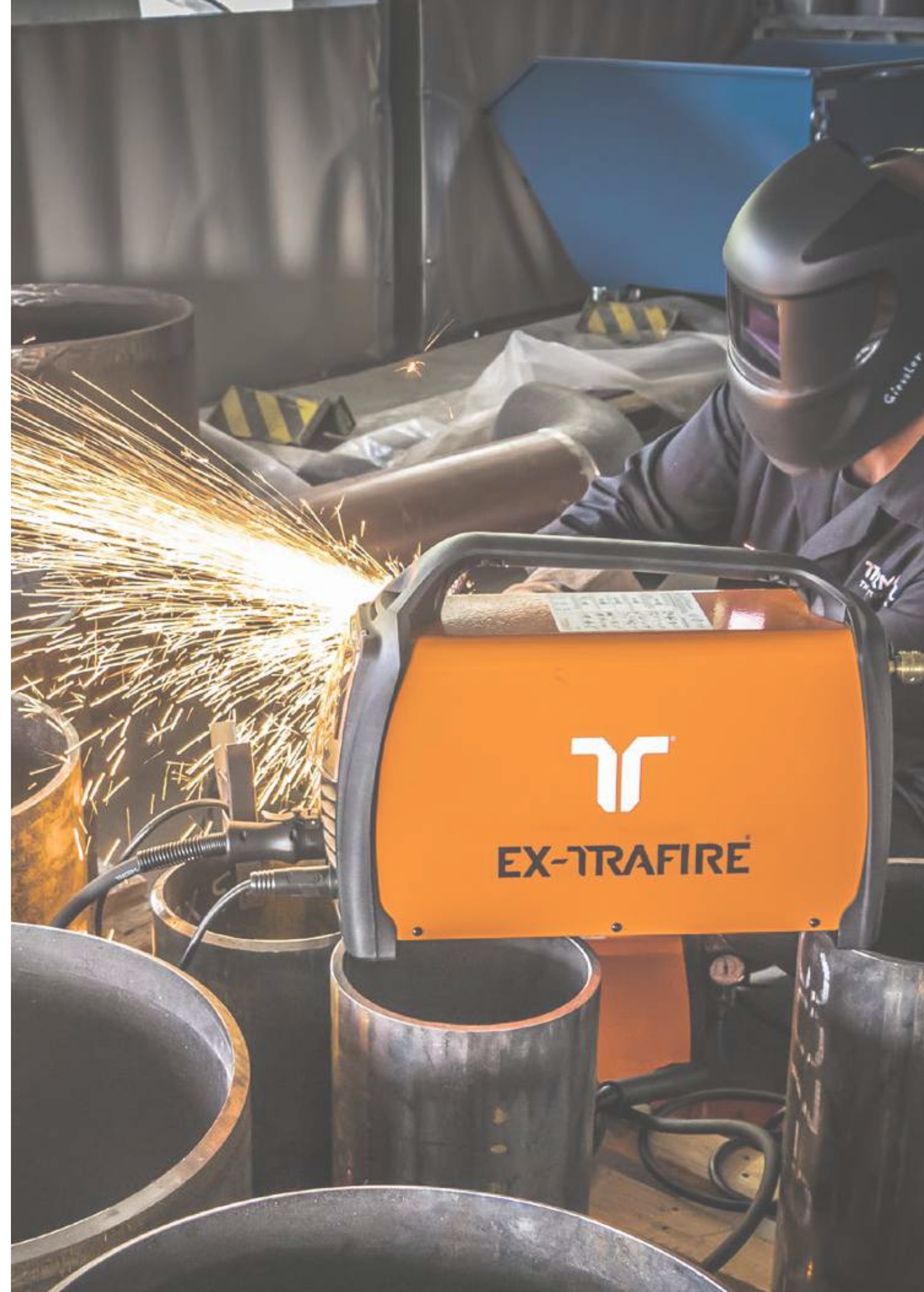
a ONLY FOR EX-TRAFIRE®40SD

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

EX-TRAFIRE[®] 45SD

PROFESSIONAL AND VERSATILE PLASMA CUTTING SYSTEM.

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



EX-TRAFIRE® 45SD



SIMPLE OPERATION



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

EX-TRA PERFORMANCE



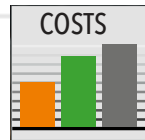
- + Cutting, gouging, grid mode
- + Exact cuts
- + Industry leading blue LCD display

HIGHEST APPLICATION FLEXIBILITY



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

BEST COST-EFFECTIVENESS



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

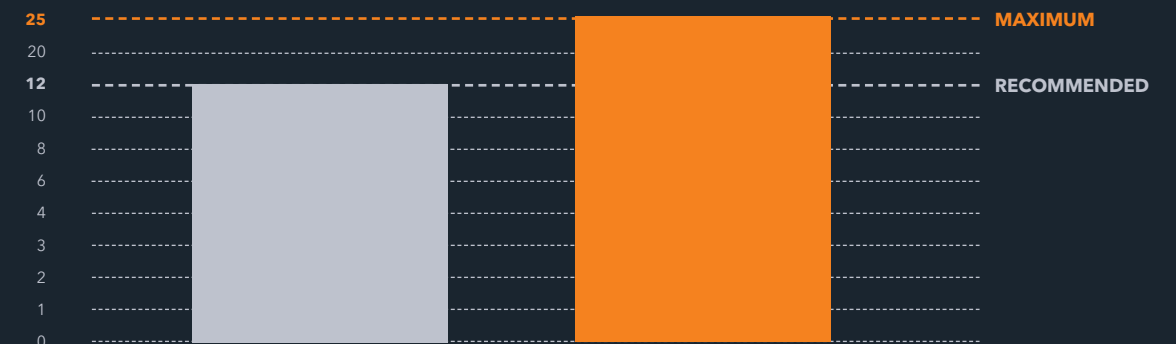
Last update of this page: 09/06/2021. See Revision history for details.

EX-TRAFIRE® 45SD

SPECIFICATIONS

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

MILD STEEL CUTTING CAPACITY IN MILLIMETRES



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

EX-TRAFIRE® 45SD

ORDERING INFORMATION

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

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

AVAILABLE BULK PACKS

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

ACCESSORIES

Description	Pcs	Part No.
DN 7.2 ES Quick Connect Plug with female thread G 1/4"	1	EX-0-802-000
DN 7.2 ES Quick Connect Plug with male thread G 1/4"	1	EX-0-802-001
DN 7.2 ES Quick Connect Coupling with male thread G 1/4"	1	EX-0-802-002
Grease 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	EX-0-804-002

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

EX-TRAFIRE® 45SD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

FHT-EX® 45TT



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

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

FHT-EX® 45TTH

HAND TORCH ASSEMBLY



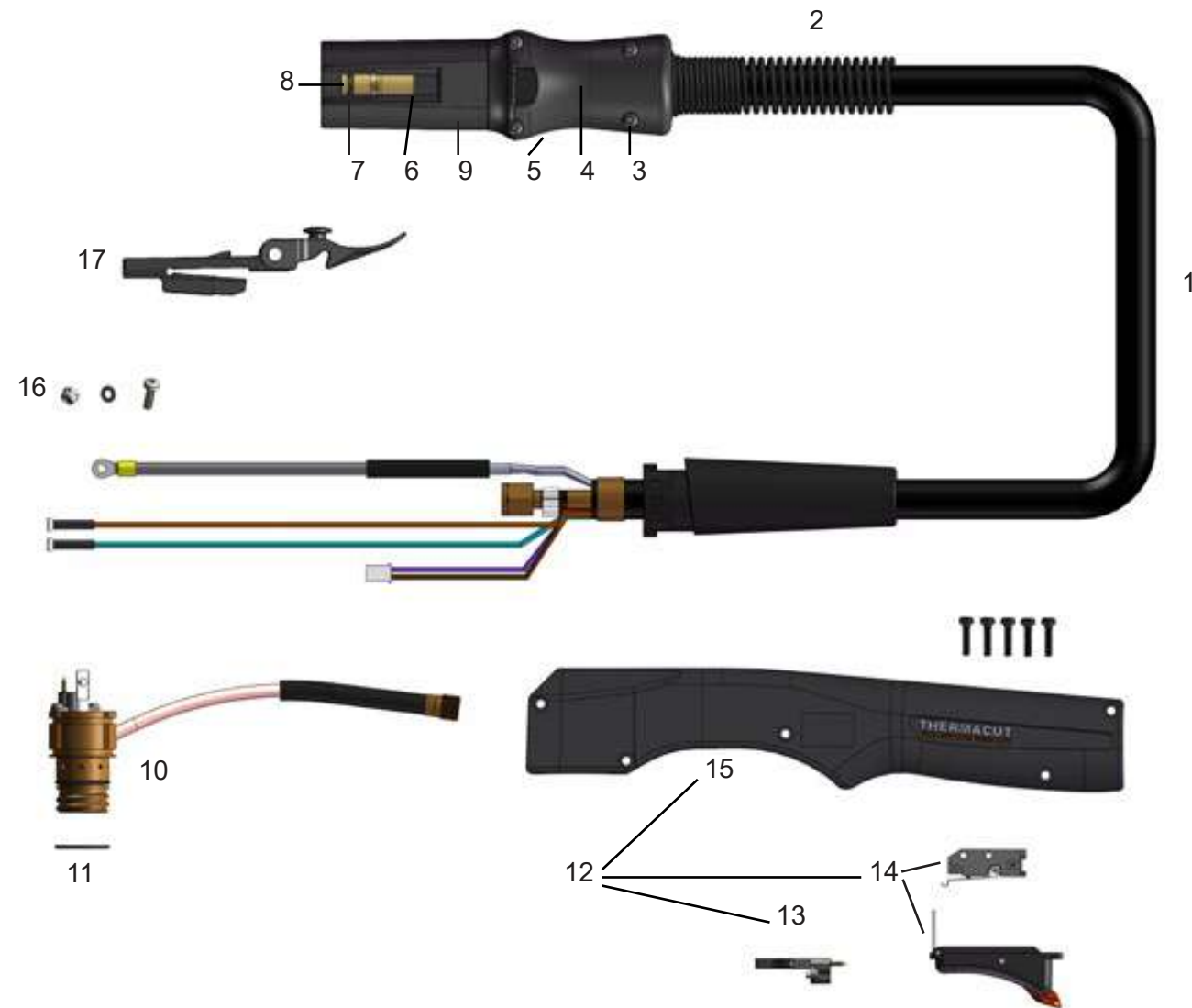
Item	Part No.	Description	Pcs
1.	EX-2-133-001	FHT-EX45®TTH DEMO Hand Torch Assembly w/consumables/TCS13	1
	EX-2-101-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-103-001	FHT-EX45®TTH Hand Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-106-001	FHT-EX45®TTH Hand Torch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

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

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

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

FHT-EX®45TTM

MACHINE TORCH ASSEMBLY



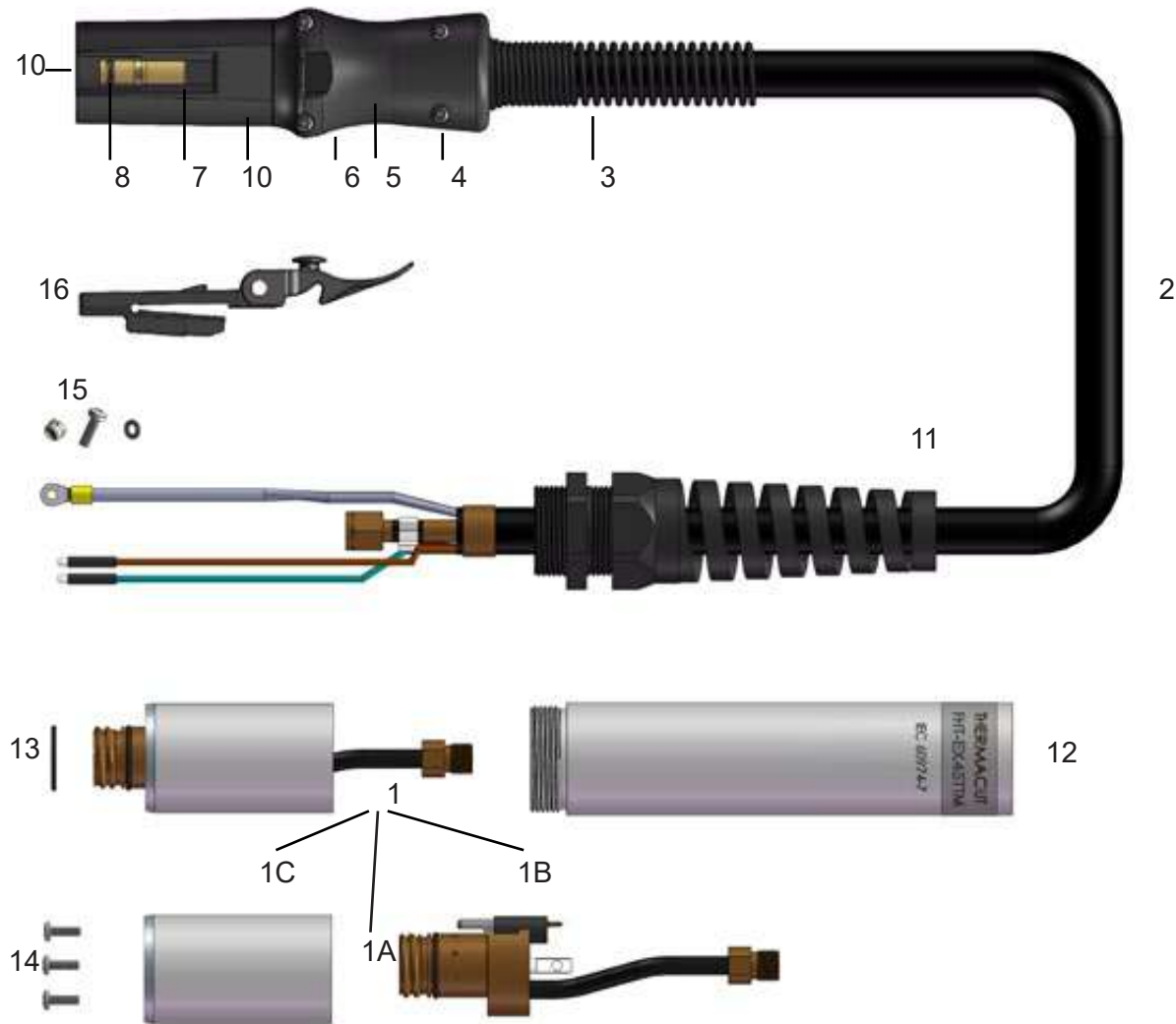
Item	Part No.	Description	Pcs
1.	EX-2-233-001	FHT-EX®45TTM DEMO Machine Torch Assembly w/consumables/TCS13	1
	EX-2-202-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/5m Lead/TCS13	1
	EX-2-204-001	FHT-EX®45TTM Machine Torch Assembly w/o consumables w/8m Lead/TCS13	1
	EX-2-207-001	FHT-EX®45TTM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

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

FHT-EX® 45TTM

MACHINE TORCH COMPONENTS



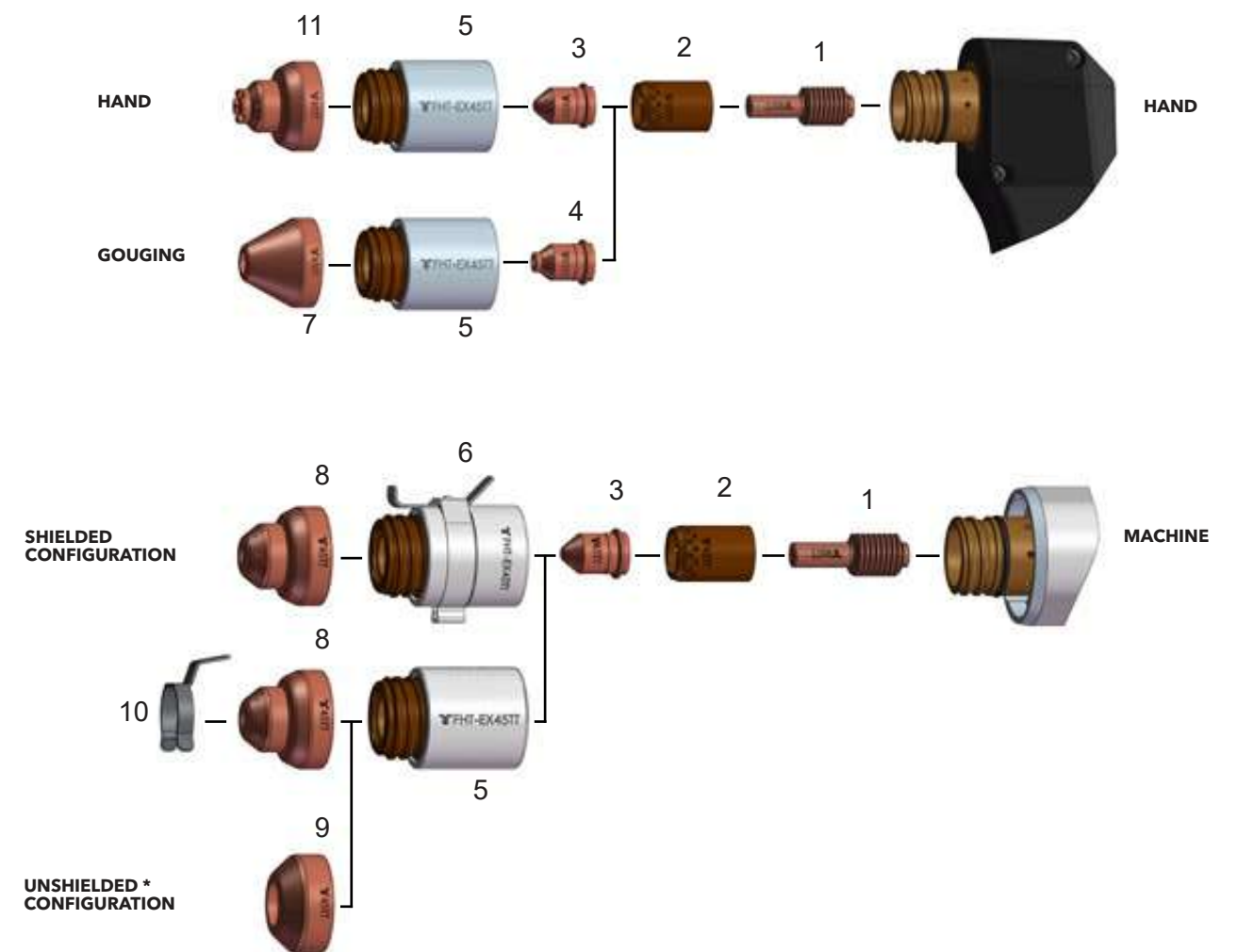
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-2-301-001	Machine Torch Body Assembly FHT-EX®45TTM	1	7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1
1a.	EX-2-301-002	Machine Torch Body FHT-EX®45TTM	1	8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1
1b.	EX-5-304-001	Cap Sensor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

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

CONSUMABLES

HAND / MACHINE TORCH CONSUMABLES



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

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

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

EX-TRAFIRE[®] 55SD

**BEST IN CLASS
PLASMA CUTTING SYSTEM.**



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

EX-TRAFIRE® 55SD



CUTTING
55 A
CURRENT

MATERIAL
30+ mm
THICKNESS

WEIGHT
11,8
KILOGRAMS

SIMPLE OPERATION



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

HIGHEST APPLICATION FLEXIBILITY



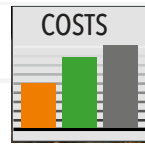
- + Plate thicknesses up to 30 mm +
- + Lightweight, exceptionally portable
- + TCS quick change flexible torch packages
- + Suitable for generator use

EX-TRA PERFORMANCE



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

BEST COST-EFFECTIVENESS



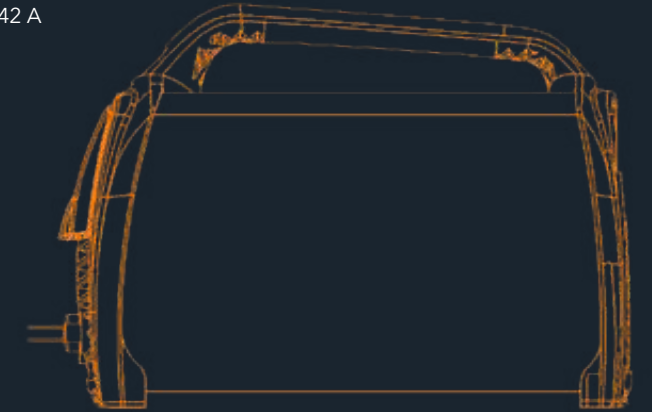
- + Low investment for high performance
- + Enhanced consumable lifetime
- + Reduced costs of ownership

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

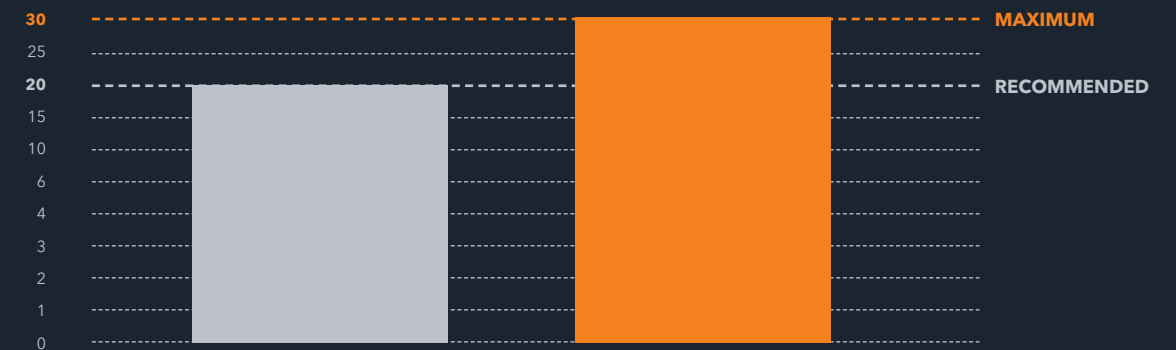
EX-TRAFIRE® 55SD

SPECIFICATIONS

- OUTPUT CURRENT [A] 30-55
- INPUT VOLTAGE [VAC] CE 3 x 400 VAC ± 15 %
- PLASMA GAS COMPRESSED AIR
- CERTIFICATION CE, C-TICK, CCC
- MODES CUTTING / GRID CUTTING
- FREQUENCY [Hz] 50/60
- MAXIMUM INPUT POWER [kVA] 13.7 kVA @ 3 x 400 VAC
- OUTPUT VOLTAGE [VDC] 170 V @ 3 x 400 VAC
- DUTY CYCLE @ 40 °C 50 % @ 55 A, 100 % @ 41 A / 60 % @ 55 A, 100 % @ 42 A
- DIMENSION (L x H x W) mm 469 x 228 x 177
- WEIGHT [kg] 11.8
- RECOMMENDED CUTTING CAPACITY [mm] 20
- SEVERANCE CUTTING CAPACITY [mm] 30
- PIERCING CAPACITY [mm] 20
- AIR FLOW @ [lpm/bar] 100 @ 5,2
- MAXIMUM INPUT PRESSURE [bar/psi] 7/101
- PROTECTION LEVEL IP23S
- INSULATION CLASS H/F
- CNC INTERFACE OPTIONAL
- INDUSTRY 4.0 NO
- TYPE OF TORCH FHT-EX®105RTX H/M



MILD STEEL CUTTING CAPACITY IN MILLIMETRES



COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES

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



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

EX-TRAFIRE® 55SD

ORDERING INFORMATION

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

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

AVAILABLE BULK PACKS

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

AVAILABLE CONSUMABLE KITS

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

ACCESSORIES

Description	Pcs	Part No.
DN 7.2 ES Quick Connect Plug with female thread G 1/4"	1	EX-0-802-000
DN 7.2 ES Quick Connect Plug with male thread G 1/4"	1	EX-0-802-001
DN 7.2 ES Quick Connect Coupling with male thread G 1/4"	1	EX-0-802-002
Grease 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	T-12453

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

EX-TRAFIRE® 55SD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

EX-TRAFIRE[®] 75SD

ENGINEERED FOR ENDURANCE PLASMA CUTTING SYSTEM.



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

EX-TRAFIRE® 75SD



SIMPLE OPERATION



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

HIGHEST APPLICATION FLEXIBILITY



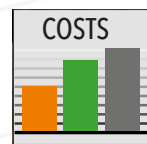
- + Plate thicknesses up to 35 mm +
- + Powerful and lightweight
- + TCS quick change flexible torch packages
- + Suitable for generator use

EX-TRA PERFORMANCE



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

BEST COST-EFFECTIVENESS



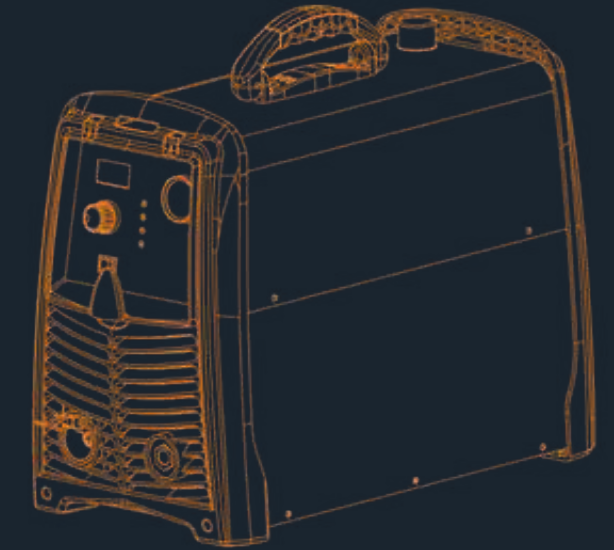
- + Reduced capital outlay
- + Enhanced consumable lifetime
- + Reduced costs of ownership

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

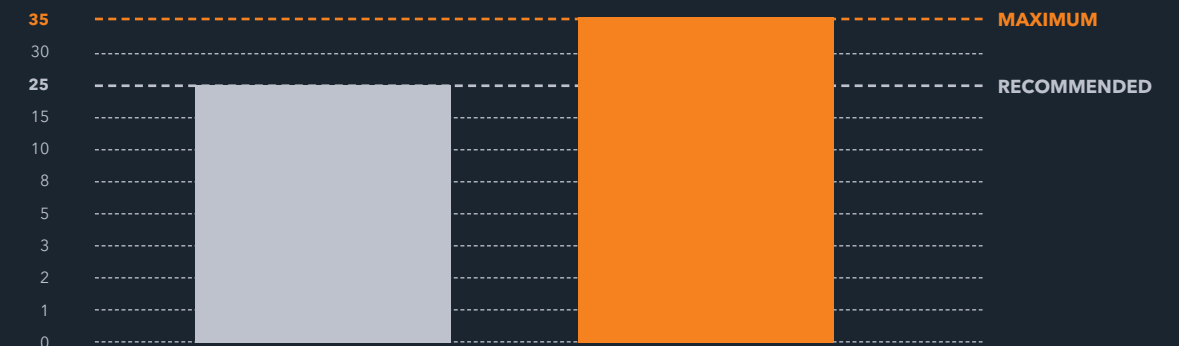
EX-TRAFIRE® 75SD

SPECIFICATIONS

- OUTPUT CURRENT [A] 30-75
- INPUT VOLTAGE [VAC] 3×400 VAC ± 15 %
- PLASMA GAS COMPRESSED AIR
- CERTIFICATION CE, C-TICK, CCC
- MODES CUTTING / GOUGING / GRID CUTTING
- FREQUENCY [Hz] 50/60
- MAXIMUM INPUT POWER [kVA] 17.6 kVA @ 3X400 VAC
- OUTPUT VOLTAGE [VDC] 170 V (EXTRA-BOOST 220 V)
- DUTY CYCLE @ 40 °C 100% @ 75 A
- DIMENSION (L × H × W) mm 560x400x265
- WEIGHT [kg] 24
- RECOMMENDED CUTTING CAPACITY [mm] 25
- SEVERANCE CUTTING CAPACITY [mm] 35
- PIERCING CAPACITY [mm] 20
- AIR FLOW @ [lpm/bar] 110 @ 5.2
- MAXIMUM INPUT PRESSURE [bar/psi] 10/145
- PROTECTION LEVEL IP23S
- INSULATION CLASS H/F
- CNC INTERFACE OPTIONAL
- INDUSTRY 4.0 NO
- TYPE OF TORCH FHT-EX®105RTX H/M

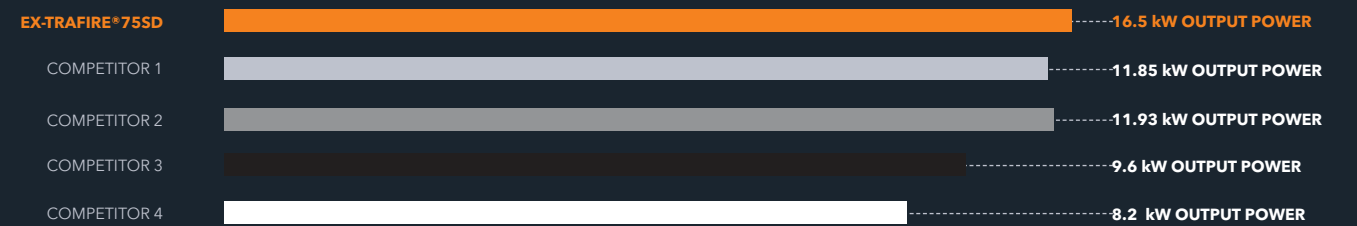


MILD STEEL CUTTING CAPACITY IN MILLIMETRES



COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES

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



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

EX-TRAFIRE® 75SD

ORDERING INFORMATION

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

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

AVAILABLE BULK PACKS

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

AVAILABLE CONSUMABLE KITS

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

ACCESSORIES

Description	Pcs	Part No.
DN 7.2 ES Quick Connect Plug with female thread G 1/4"	1	EX-0-802-000
DN 7.2 ES Quick Connect Plug with male thread G 1/4"	1	EX-0-802-001
DN 7.2 ES Quick Connect Coupling with male thread G 1/4"	1	EX-0-802-002
Grease 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	T-12453

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

EX-TRAFIRE® 75SD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

EX-TRAFIRE[®] 100SD

**BUILT FOR POWER
PLASMA CUTTING SYSTEM.**



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

EX-TRAFIRE® 100SD



CUTTING 100 A CURRENT

MATERIAL 50+ mm THICKNESS

DUTY CYCLE 100% @80 A

SIMPLE OPERATION



- + Intuitive control
- + Exceptionally robust
- + Engineered for demanding professionals

EX-TRA PERFORMANCE



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

HIGHEST APPLICATION FLEXIBILITY



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

BEST COST-EFFECTIVENESS



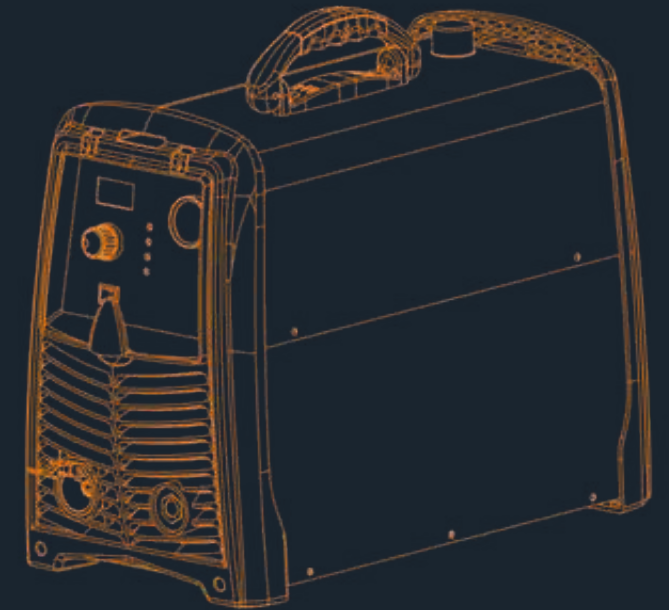
- + Reduced capital outlay
- + Longer consumable lifetime
- + Considerably reduced costs of ownership

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

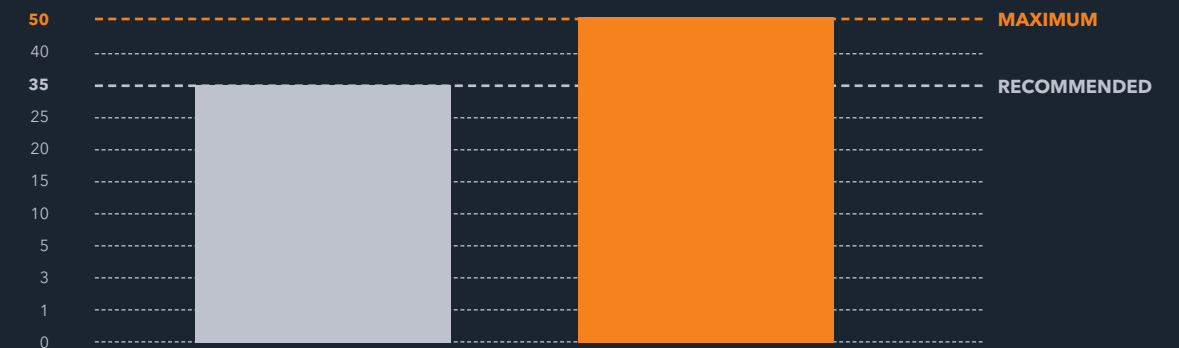
EX-TRAFIRE® 100SD

SPECIFICATIONS

- OUTPUT CURRENT [A]** 30-100
- INPUT VOLTAGE [VAC]** 3x400 VAC ± 15 %
- PLASMA GAS** COMPRESSED AIR
- CERTIFICATION** CE, C-TICK, CCC
- MODES** CUTTING / GOUGING / GRID CUTTING
- FREQUENCY [Hz]** 50/60
- MAXIMUM INPUT POWER [kVA]** 24.6
- OUTPUT VOLTAGE [VDC]** 170 (EXTRA-BOOST 220 V)
- DUTY CYCLE @ 40 °C** 50 % @ 100 A, 100 % @ 80 A
- DIMENSION (L x H x W) [mm]** 560x400x265
- WEIGHT [kg]** 24
- RECOMMENDED CUTTING CAPACITY [mm]** 35
- SEVERANCE CUTTING CAPACITY [mm]** 50
- PIERCING CAPACITY [mm]** 20
- AIR FLOW @ [lpm/bar]** 135 @ 5.2
- MAXIMUM INPUT PRESSURE [bar/psi]** 10/145
- PROTECTION LEVEL** IP23S
- INSULATION CLASS** H/F
- CNC INTERFACE** OPTIONAL
- INDUSTRY 4.0** NO
- TYPE OF TORCH** FHT-EX®105RTX H/M



MILD STEEL CUTTING CAPACITY IN MILLIMETRES



COMPARISON WITH COMPETITIVE PLASMA CUTTING MACHINES

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



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

EX-TRAFIRE® 100SD

ORDERING INFORMATION

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

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

AVAILABLE BULK PACKS

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

AVAILABLE CONSUMABLE KITS

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

ACCESSORIES

Description	Pcs	Part No.
DN 7.2 ES Quick Connect Plug with female thread G 1/4"	1	EX-0-802-000
DN 7.2 ES Quick Connect Plug with male thread G 1/4"	1	EX-0-802-001
DN 7.2 ES Quick Connect Coupling with male thread G 1/4"	1	EX-0-802-002
Grease 25 ml	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	T-12452
Filter-EX Air Filter Cartridge	8	T-12453

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

EX-TRAFIRE® 100SD



FRONT VIEW



BACK VIEW



SIDE VIEW

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

FHT-EX® 105 RTX

HAND / MACHINE TORCHES AND CONSUMABLES

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



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



FHT-EX® 105RTXH



**EXTREMELY FLEXIBLE
AND POWERFUL**



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

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

BENEFITS

- Extremely high-performance torches for handheld use
- Ergonomic handheld torches for safe and reliable holding and guiding in all positions
- Compact and particularly flexible for handheld applications, even in the case of tight radii
- 100 % duty cycle at 100/105 A, ideal for continuous industrial use
- Ideal for plate thicknesses of up to 50 mm and more with high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing max. 20 mm
- Perfectly designed for use with EX-TRAFIRE®55SD, 75SD and 100SD power supplies

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

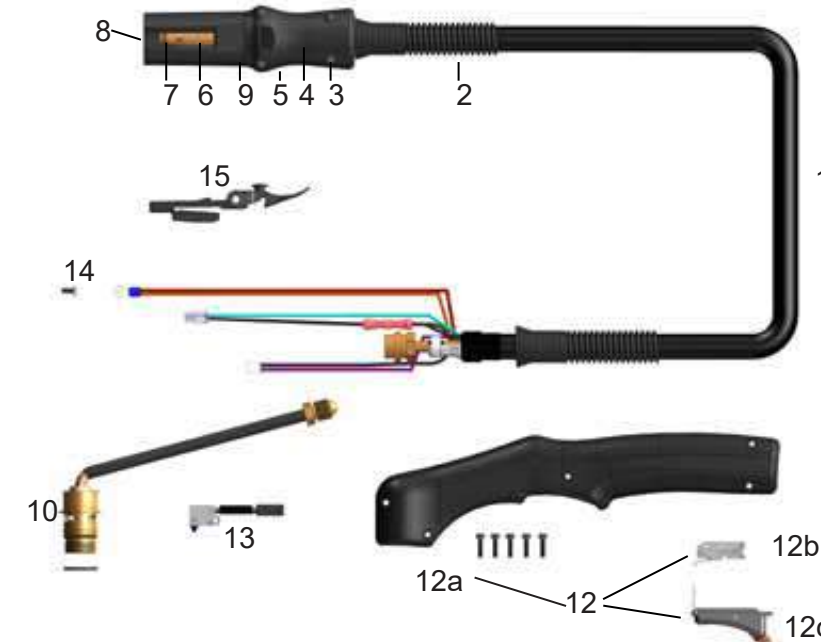
FHT-EX® 105RTXH

HAND TORCH ASSEMBLY AND TORCH COMPONENTS



Item	Part No.	Description	Pcs
1.	EX-5-140-002	FHT-EX®105RTXH Hand Torch w/o consumables w/8m Lead/TCS13	1
	EX-5-140-003	FHT-EX®105RTXH Hand Torch w/o consumables w/15m Lead/TCS13	1
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.



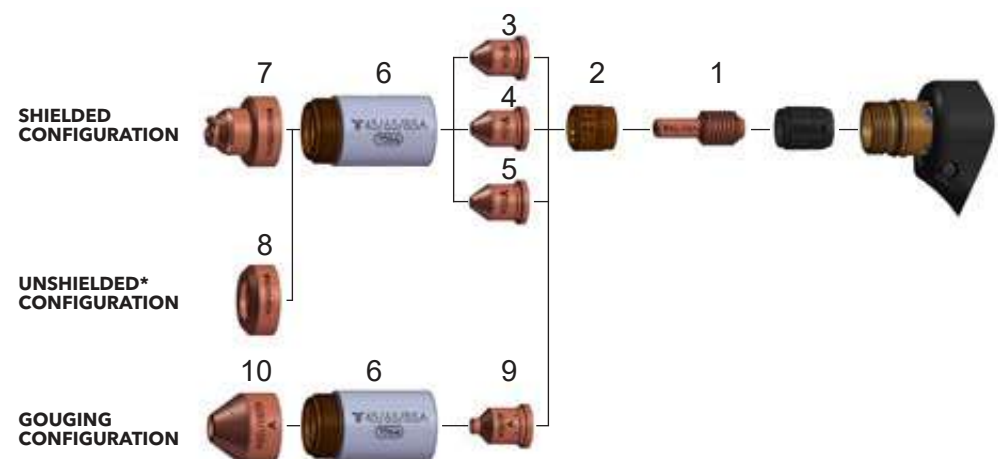
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-374-005	FHT-EX®105RTXH Hand Torch Lead Replacement 8m (26')/TCS13	1	10.	EX-5-302-030	Hand Torch Body Replacement Kit	1
1.	EX-5-374-006	FHT-EX®105RTXH Hand Torch Lead Replacement 15m (50')/TCS13	1	11.	EX-5-431-050	Torch Body O-Ring	2
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: 09/06/2021. See Revision history for details.

CONSUMABLES

HAND TORCH STANDARD CONSUMABLES - 45-85 A

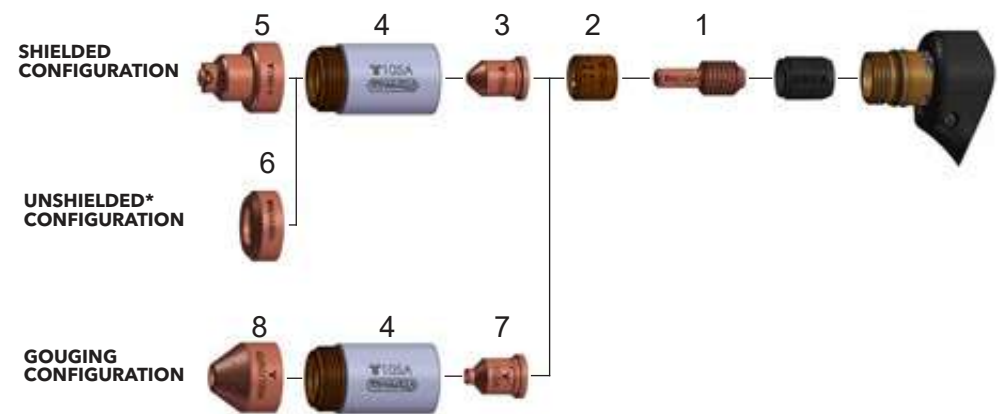


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5pcs package) **	1x5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-419-030	Shield 45-85 A, Hand	1
3.	EX-5-410-036	Nozzle 45 A (5 pcs package) **	1x5	8.	EX-5-423-031	Deflector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

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

** THIS PART IS AVAILABLE IN 5 PCS SET ONLY

HAND TORCH STANDARD CONSUMABLES - 105 A



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

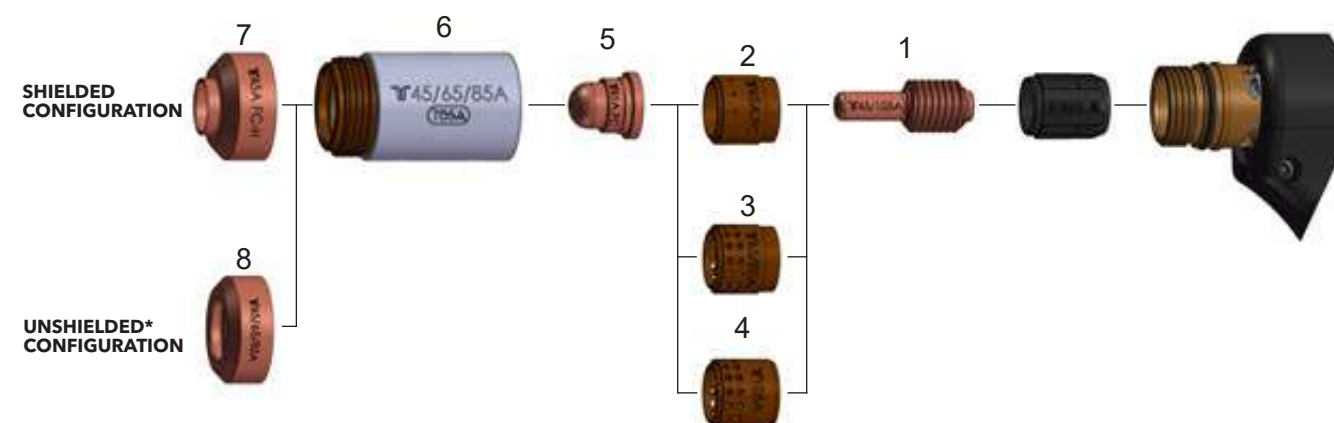
* IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.

** THIS PART IS AVAILABLE IN 5 PCS SET ONLY

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

CONSUMABLES

HAND TORCH CONSUMABLES - SMOOTHLINE



Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1x5	5.	EX-5-410-035	Nozzle 45 A / Smoothline (5 pcs package) **	1x5
2.	EX-5-404-030	Swirl Ring 45-105 A / Smoothline	1	6.	EX-5-415-030	Retaining Cap 45-85 A	1
3.	EX-5-404-031	Swirl Ring 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 SET ONLY

Last update of this page: 15/12/2021. 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 100/105 A, ideal for continuous industrial use
- Ideal for plate thicknesses of up to 50 mm and more with high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing max. 20 mm
- Perfectly designed for use with EX-TRAFIRE®55SD, 75SD and 100SD power supplies

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

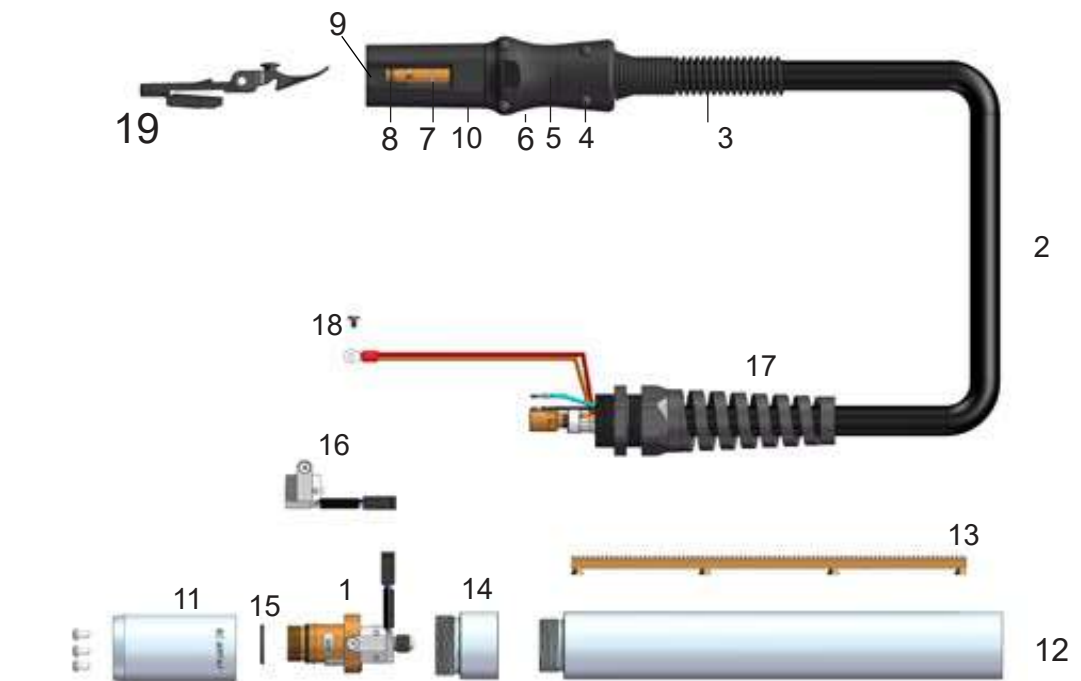
FHT-EX® 105RTXM

MACHINE TORCH ASSEMBLY AND TORCH COMPONENTS



Item	Part No.	Description
1.	EX-5-240-001	FHT-EX®105RTXM Machine Torch w/o Rack Assy-w/o consumables w/8m Lead/ TCS13
	EX-5-240-005	FHT-EX®105RTXM Machine Torch w/o Rack Assy-w/o consumables w/15m Lead/ TCS13
2.	EX-5-240-007	FHT-EX®105RTXSM Short (ROBO) Machine Torch Assy-w/o consumables w/8m Lead/TCS13
	EX-5-240-008	FHT-EX®105RTXSM Short (ROBO) Machine Torch Assy-w/o consumables w/15m Lead/TCS13
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.



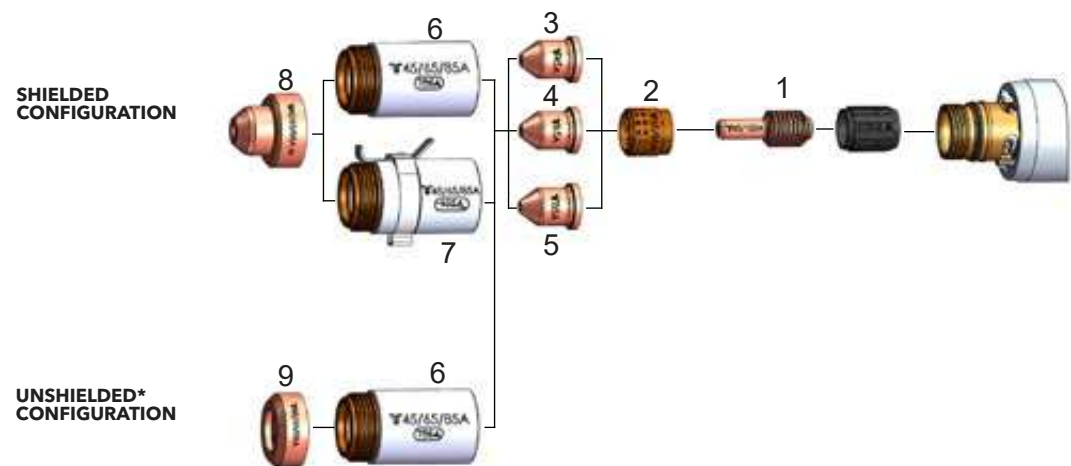
Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-303-030	Machine Torch Body Replacement Kit	1	10.	EX-0-323-001	TCS13 Plug Body	1
2.	EX-5-375-001	FHT-EX®105RTXM Machine Torch Lead Replacement 8m (26')/TCS13	1	11.	EX-5-306-030	Torch Mounting Sleeve (incl. 3 screws)	1
				12.	EX-5-306-032	Standard Mounting Tube w/o Rack	1
2.	EX-5-375-002	FHT-EX®105RTXM Machine Torch Lead Replacement 15m (50')/TCS13	1	13.	EX-5-306-033	Gear Rack	1
3.	EX-5-318-001	TCS Plug Spring Strain Relief	1	14.	EX-5-306-031	Standard Mounting Tube Reduction Nut	1
4.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	15.	EX-5-431-050	Torch Body O-Ring	1
5.	EX-0-325-002	TCS Clam Shell Upper	1	16.	EX-5-304-030	Cap Sensor Replacement Kit with Screws /Machine Torch	1
6.	EX-0-325-001	TCS Clam Shell Lower	1	17.	EX-5-317-021	Machine Torch Strain Relief	1
7.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	18.	EX-5-372-030	Pilot Cable Screw	1
8.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	19.	EX-0-321-003	Latch w/Key Assembly	1
				a 19.	EX-0-321-003	Clé pour le changement d'électrodes	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: 21/4/2022. See Revision history for details.

CONSUMABLES

MACHINE TORCH STANDARD CONSUMABLES - 45-85 A

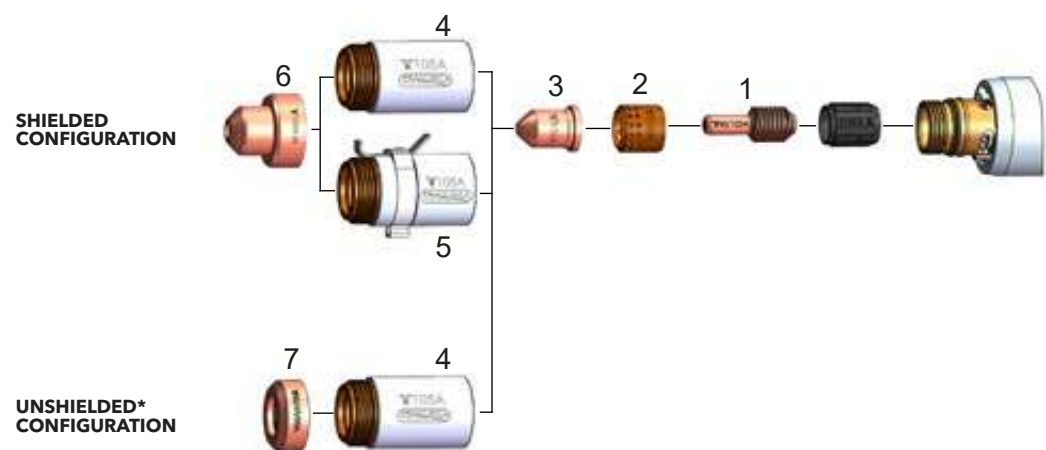


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-402-030	Electrode 45-105 A (5 pcs package) **	1x5	6.	EX-5-415-030	Retaining Cap 45-85 A	1
2.	EX-5-404-031	Swirl Ring 10-85 A	1	7.	EX-5-415-031	Retaining Cap 45-85 A, IHS Tab	1
3.	EX-5-410-036	Nozzle 45 A	5	8.	EX-5-421-031	Shield 45-85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

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

** THIS PART IS AVAILABLE IN 5 PCS SET ONLY

MACHINE TORCH STANDARD CONSUMABLES - 100/105 A



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

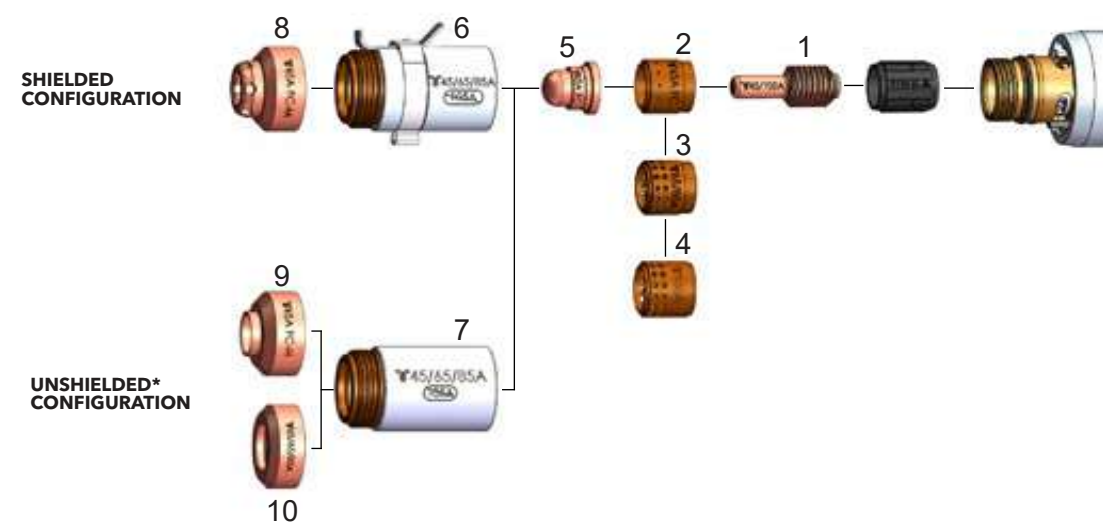
* IN COUNTRIES FOLLOWING CE STANDARDS, UNSHIELDED CONSUMABLE CONFIGURATION MAY ONLY BE USED IN MECHANIZED TORCH APPLICATIONS.

** THIS PART IS AVAILABLE IN 5 PCS SET ONLY

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

CONSUMABLES

MACHINE TORCH CONSUMABLES - SMOOTHLINE



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

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

** THIS PART IS AVAILABLE IN 5 PCS SET ONLY

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

ACCESSORIES



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

REVISION HISTORY

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

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

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

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

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

Section EX-TRAFIRE®75SD - Revision on PAGE 65 - 31/01/2022 - line INPUT VOLTAGE - Removed value 3x220 VAC ± 15 % ; line MAXIMUM INPUT POWER - Removed value 14,71 kVA @ 3x220 VAC ; Revision on PAGE 66 - 31/01/2022 - Removed parts EX-4-010-043, EX-4-010-044, EX-4-011-032, EX-4-011-033, EX-4-001-005

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

THINK FRESH. CUT ORANGE.

Společnost THERMACUT® opět přichází se svěžími nápady do světa dělení kovových materiálů. inovace, spolehlivost, síla a vysoká efektivita. To vše splňují nové produkty označené touto značkou.

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

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follow
#EXTRAFIRE





A GLOBAL PROVIDER OF ENHANCED THERMAL CUTTING SOLUTIONS

EX-TRACK[®]

PORTABLE CUTTING SYSTEMS, TABLES AND FILTRATION UNIT CATALOG



THERMACUT[®] - THE CUTTING COMPANY[®]

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A PART OF THERMACUT® PORTFOLIO

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THERMACUT® is one of the world's leading specialists for reliable, high-performance and cost-effective plasma, oxy-fuel and laser cutting solutions.

One of its main areas of expertise is optimizing original consumables, torches and cable leads to make them more durable, reliable and cost-effective. The company boasts a unique product portfolio in terms of both its width and depth. It also focuses on innovative and particularly high-performance plasma cutting systems with an outstanding price-performance ratio, which set new standards in the market. In its development and production activities, THERMACUT® makes the most of more than 30 years of experience as a reliable partner for high-quality consumables and powerful system solutions.

WWW.THERMACUT.COM
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EX-TRACK[®] CNC

PORTABLE CUTTING SYSTEM

CUTTING UP TO 35 MM WITH PLASMA CUTTER

CUTTING UP TO 100 MM WITH OXY-FUEL TORCH

The EX-TRACK[®]CNC portable cutting system is easy to move and thanks to simple installation, can be set-up wherever you need to cut. Dual guidance along the rail ensures the stability of the CNC unit for accurate cutting in both plasma and oxyfuel applications. A simple change to the cutting mode gives the EX-TRACK[®]CNC flexibility cutting different thicknesses of materials. It is possible to have both types of torches installed on the device at the same time (only one can be used at the time). To change the cutting mode, simply swap the plasma torch to an oxy-fuel torch, set a few parameters in the CNC and start cutting. The quality of the workpieces in plasma cutting is enhanced by the automatic height control of the torch, which is crucial for the quality and perpendicularity of the edges.

The unit features an integrated torch protection function against collision, integrated nesting function (multiplication of the same shape to be cut directly in the CNC), setting of different speeds for cutting holes and external shapes, internal library with fifty editable shapes, 4 GB internal memory for your cutting programs and integrated database of cutting parameters - all reasons to purchase an EX-TRACK[®]CNC portable system.

SPECIFICATIONS

- INPUT VOLTAGE (VAC)** 230 V or 120 V, 50/60 HZ, 180 W, 0.5 A
- MAX. POSITION SPEED** up to 3 000 mm/min (118 ipm)
- VERTICAL STROKE** 100 mm (4 inch) with motorized lifter
- OXY-FUEL CUTTING RANGE** up to 100 mm (4 inch)
- PLASMA CUTTING RANGE** up to 35 mm (1 3/8 inch)
- CNC INTERFACE** yes
- TORCH HEIGHT CONTROL** arc voltage height control
- CUTTING AREA** 3 050 × 1 525 mm (10 × 5 ft) / 2000 × 1 000 mm (3.28 × 6.56 ft)
- TORCH INCLUDED** yes / oxy-fuel
- NESTING SOFTWARE** yes / included
- PACKAGING** 2 boxes
- TOTAL WEIGHT** 165/140 kg



COMPACT
PORTABLE
ECONOMICAL

ORDERING INFO FOR EX-TRACK[®] CNC WITH STANDARD OXY-FUEL TORCH

Description	Configuration	Part No.
EX-TRACK [®] CNC 1 525 × 3 050/230 VAC/CE/PA-ready/OXY	with oxy-fuel torch	EX-0-707-002
EX-TRACK [®] CNC 1 000 × 2 000/230 VAC/CE/PA-ready/OXY	with oxy-fuel torch	EX-0-707-003

EX-TRACK® OXY-FUEL UPGRADE KIT

- Integrated manometers achieve enhanced precision in gas pressure settings
- High performance cutting
- Special o-rings prevent mixing of gas
- Quick-change system
- Changeable injector
- Separate parts (torch + valves + manometers)
- Possibility to cut with propane or acetylene
- Consumables line : MESSER® GRICUT® 9230-PMYF (propan) and VADURA® 9215A (acetylene)
(for ordering info please check our OXY-FUEL catalog)

For more info check the operator manual.



CONTENT OF THE KIT

- EX-TRAFIAME® PRO torch
- 5pcs cutting nozzle 25-40 mm
- 1 pc heating nozzle 3-100 mm
- Operator manual



EX-TRACK® DISPLAY PROTECTION COVER

Say goodbye to the burnt and dusty display of the CNC unit. The spray of molten material with a temperature of up to 2 500 °C can destroy the display and keyboard of your CNC unit during burning. A damaged display is then difficult to read, and settings on a burnt keyboard can be an operator's nightmare. Our transparent cover made of 3 mm plexiglass can protect the keyboard and display and thus save a lot of money when replacing it.

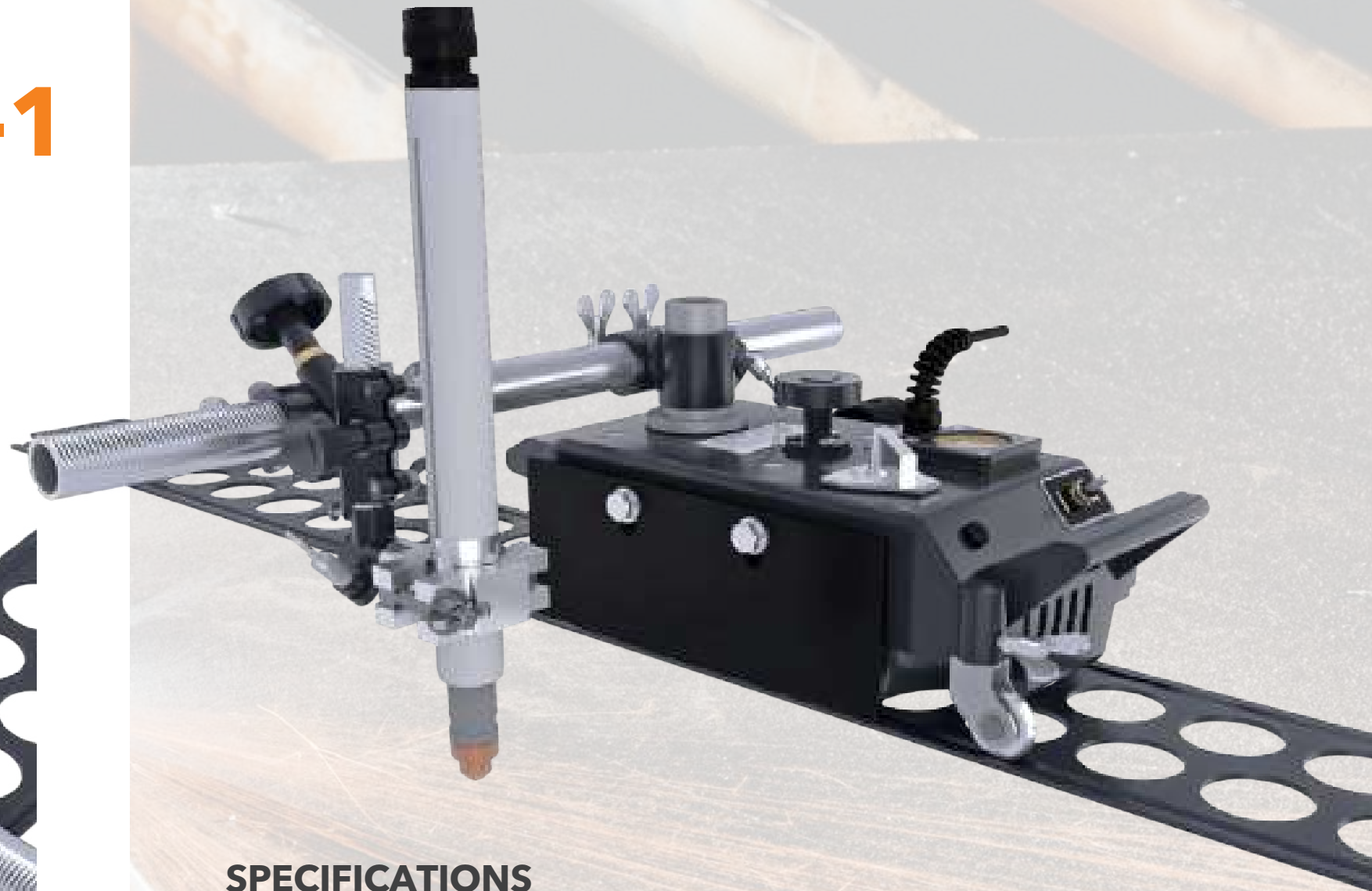
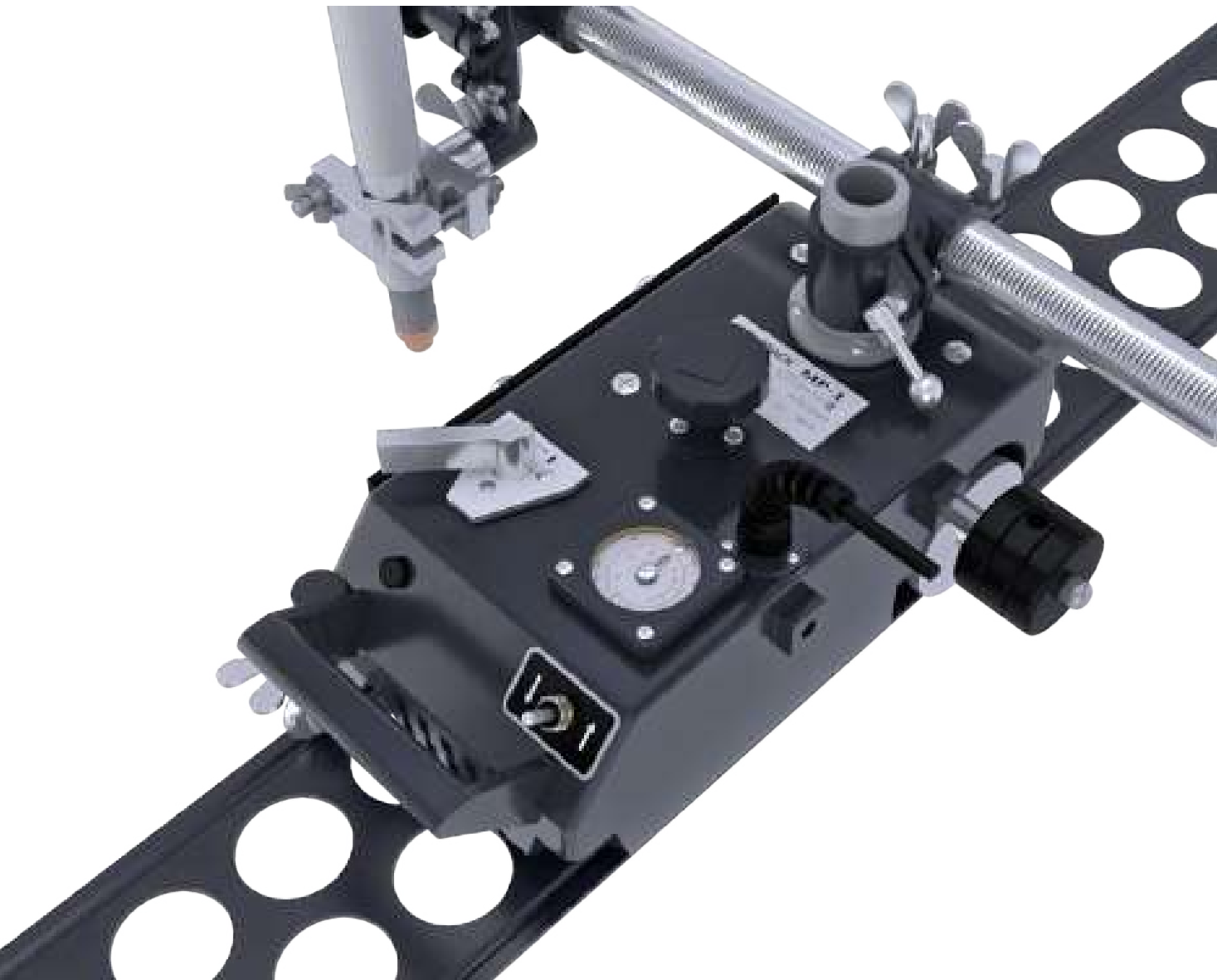


ORDERING INFO

Description	Part No.
EX-TRACK® oxy fuel upgrade kit	EX-0-717-001
Display protection cover polycarbonate 3 mm	EX-0-717-002

EX-TRACK[®] MP-1

EX-TRACK[®] MP-1 is a portable plasma cutting tractor designed for cutting strips, performing bevels, or cutting circles with the flexibility to set a stable cutting speed and movement direction. These customizable settings help provide excellent cut quality. The machine includes two straight rails, each measuring 1.8 m in length. For longer cuts, additional rails can be ordered separately. The circle rail allows cutting circles of various diameters. Paired with our EX-TRAFIRE[®] plasma power supplies, you'll have a plug-and-play cutting solution for efficient and precise operations.



SPECIFICATIONS

- INPUT VOLTAGE** 230 V AC / 50 Hz
- DIMENSIONS** 440 × 205 × 125 mm
- WEIGHT** 9 kg
- CUTTING SPEED** 80-2 400 mm /min
- POSSIBLE CUTTING THICKNESS** 5-40 mm of Mild steel
- BEVELING** up to 45° (max 30 mm thickness of M.S.)
- MAX. TORCH DIAMETER** 35 mm
- POWER CORD** 10 m
- SCOPE OF DELIVERY** EX-TRACK[®]MP-1 , 2 × straight rail 1,8 m, power cord, operator manual

ORDERING INFO

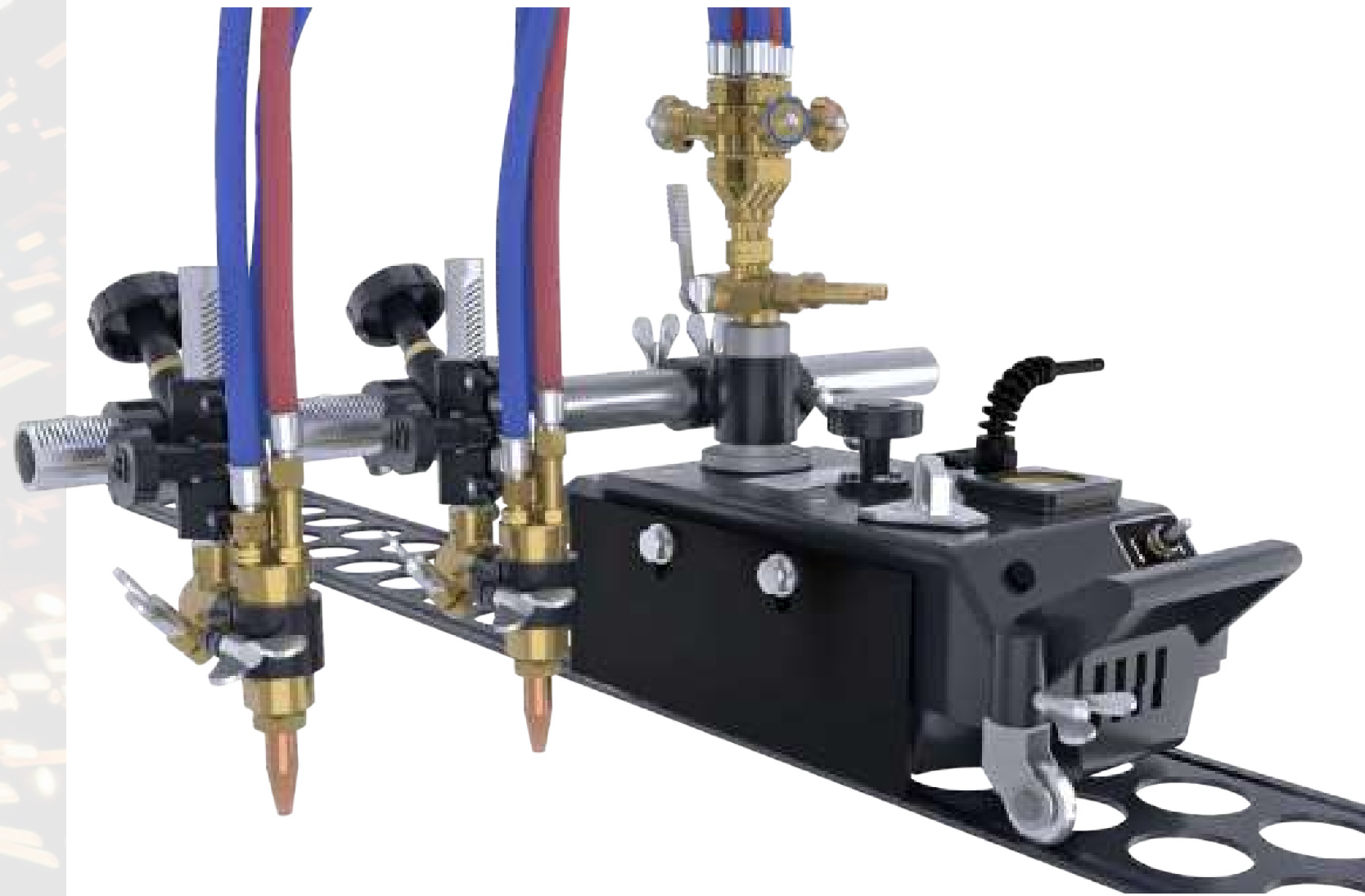
Description	Part No.
EX-TRACK [®] MP1/240 VAC/CE/straight cutter plasma	EX-0-704-004
EX-TRACK [®] tractors straight rail 1,8 m	EX-0-704-101
EX-TRACK [®] tractors circular rail	EX-0-704-102
EX-TRAFIRE [®] remote controller	EX-0-803-005

EX-TRACK® MA-1 & MA-2

EX-TRACK®MA-1 and **MA-2** are portable oxy-fuel cutting tractors for cutting strips, doing a bevel or cutting a circles with a possibility to set stable cutting speed and direction of the movement. Thanks to these settings you are able to achieve great cut quality.

EX-TRACK®MA-1 contains one oxy-fuel torch.
EX-TRACK®MA-2 contains two oxy-fuel torches.

With the machine you will get a two pieces of straight rail with length 1,8 m. For a longer cuts you can order more rails as separate items. With our circle rail you are able to cut circles with different diameters. Included oxy-fuel torches are determined for the cutting with propane.



SPECIFICATIONS

INPUT VOLTAGE 230V AC / 50 Hz

DIMENSIONS 440 x 205 x 125 mm

WEIGHT 10 kg

CUTTING SPEED 80-800 mm /min

POSSIBLE CUTTING THICKNESS 5-90 mm of Mild steel

BEVELING up to 45°

POWER CORD 10 m

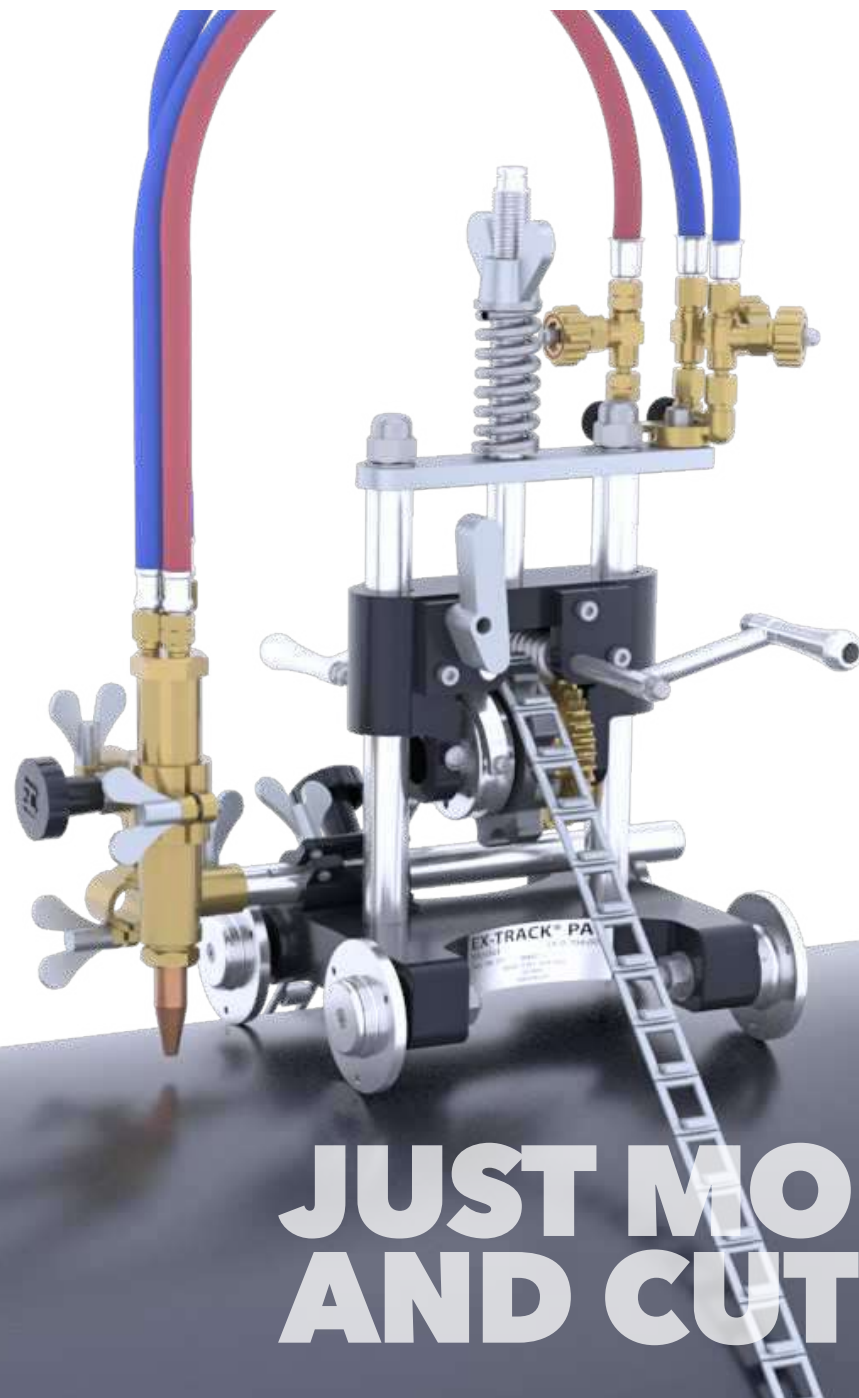
SCOPE OF DELIVERY EX-TRACK®MA-1 (or MA-2) , 2 x straight rail 1,8 m, power cord 10 m, operator manual, oxy-fuel starting kit* with nozzles type #1, #2, #3, basic tool kit

*In case of order EX-TRACK®MA-2 the oxy-fuel starting kit will be doubled

ORDERING INFO

Description	Part No.	Description	Part No.
EX-TRACK®MA-1/240 V AC/CE/1-OXY/straight cutter	EX-0-704-002	Cutting nozzle propane 0 (5-10 mm)	EX-0-708-018
EX-TRACK®MA-2/240 V AC/CE/2-OXY/straight cutter	EX-0-704-003	Cutting nozzle propane 1 (10-20 mm)	EX-0-708-019
EX-TRACK® tractors straight rail 1,8 m	EX-0-704-101	Cutting nozzle propane 2 (20-35 mm)	EX-0-708-020
EX-TRAFIRE® circular rail	EX-0-704-102	Cutting nozzle propane 3 (35-60 mm)	EX-0-708-021
Cutting nozzle propane 00 (1-5 mm)	EX-0-708-017	Cutting nozzle propane 4 (60-90 mm)	EX-0-708-022

EX-TRACK® PA-1



JUST MOUNT IT AND CUT PIPES.

EX-TRACK®PA-1 is a portable cutting system designed for cutting mild steel tubes using an oxy-fuel torch. With this device you can cut pipes up to 600 mm diameter (with included chain) and with wall thicknesses up to 90 mm and manually control the whole cutting process - no electricity needed. PA-1 is a handy cutting tool for use on construction sites, and in workshops, where it is necessary to cut tubes, make a bevel, etc. Guard your device against damage with the addition of a flashback arrestor. Two larger wheels provided in the package enhance versatility and enable the cutting of tubes with diameters smaller than 108 mm - simply switch the wheels for seamless adaptation. The clutch leveler facilitates swift movement to your desired cutting spot, streamlining the process. Experience a significant speed boost in tube cutting with the EX-TRACK®PA-1 compared to using a standard grinder, resulting in a notably smoother cut surface. The entire device is designed for easy assembly and user-friendly operation. Additionally, benefit from the included oxy-fuel consumables starter kit and basic assembly tools.

SPECIFICATIONS

- WHOLE PACKAGE WEIGHT** 12 kg
- DEVICE DIMENSIONS** 325 × 325 × 425 mm
- TYPE OF APPLICATION** oxy-fuel cutting
- TYPE OF OPERATION** manual
- EFFECTIVE PIPE CUTTING DIAMETER *** 108-600 mm
- CHAIN LINKS** 80 links
- MATERIAL THICKNESS** 5-90 mm
- GROOVE SHAPE** I-shape, V-bevel
- RANGE OF VERTICAL TORCH MOVEMENT** 50 mm
- RANGE OF LATERAL TORCH MOVEMENT** 100 mm
- PERMISSIBLE FUEL GAS** propane
- MAX. GAS INLET PRESSURE** propane - up to 3 bar / 43.5 PSI
oxygen - up to 10 bar / 145 PSI

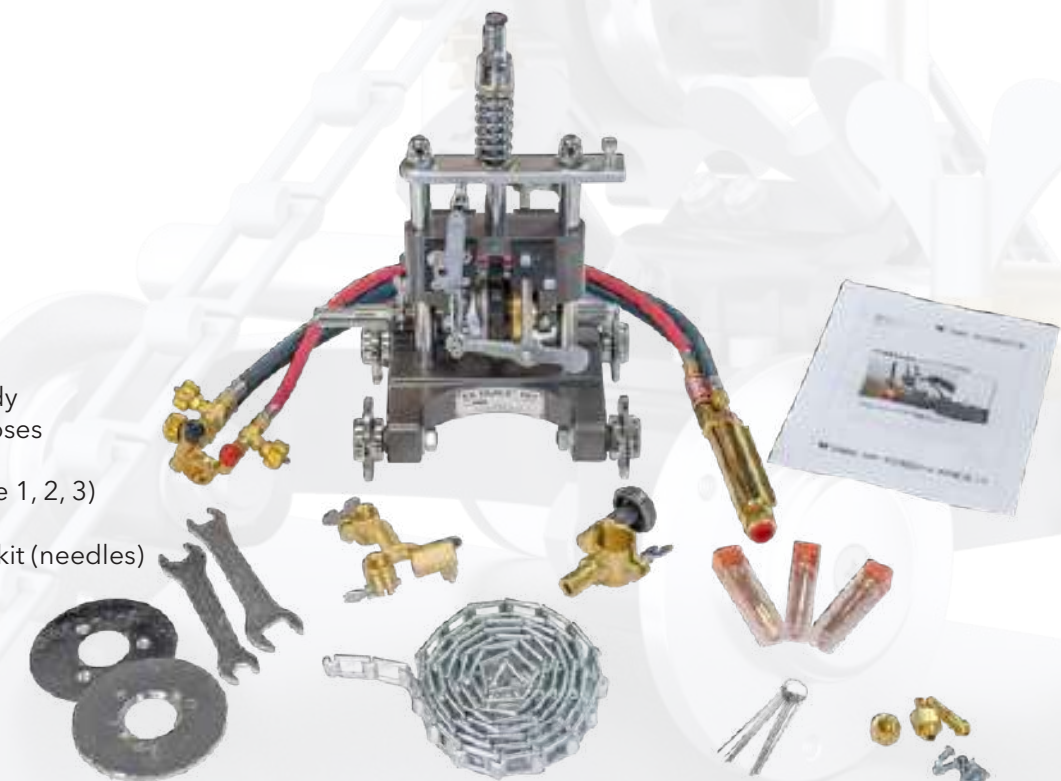
* After the installation of two larger wheels it is possible to cut pipes with a diameter of 80-108 mm.

ORDERING INFO

Description	Part No.
EX-TRACK® PA-1/CE/1-OXY/pipe cutter	EX-0-704-005
Cutting nozzle propane 00 (1-5 mm)	EX-0-708-017
Cutting nozzle propane 0 (5-10 mm)	EX-0-708-018
Cutting nozzle propane 1 (10-20 mm)	EX-0-708-019
Cutting nozzle propane 2 (20-35 mm)	EX-0-708-020
Cutting nozzle propane 3 (35-60 mm)	EX-0-708-021
Cutting nozzle propane 4 (60-90 mm)	EX-0-708-022

CONTENT OF THE KIT

- EX-TRACK®PA-1 device body
- Gas distributor including hoses and torch assembly
- Tip for propane (3 pcs - type 1, 2, 3)
- Open wrenches (2 pcs)
- Consumables cleaning toolkit (needles)
- Gas fittings
- Horizontal torch holder
- Vertical torch holder
- Chain (80 links)
- Operator manual
- Larger wheels (2 pcs)



WATER TABLE FOR CUTTING



**SUITABLE FOR
EX-TRACK® CNC
2 000 × 1 000
CUTTING SYSTEM**

STABLE, DURABLE AND STURDY TABLE
WITH WATER PAN FOR CUTTING WITH ALMOST NO FUMES!

Draining valve

The Water Cutting table suitable for EX-TRACK®CNC cutting system is equipped with drain valve, size 5/4".

Sturdy, stable construction

Eight legs with adjustable height give sturdy, stable construction for excellent work with EX-TRACK®CNC cutting system.

Replaceable grid

Easy cleaning of water pan after the cutting due to replaceable slats, which you can remove one by one.



SPECIFICATIONS

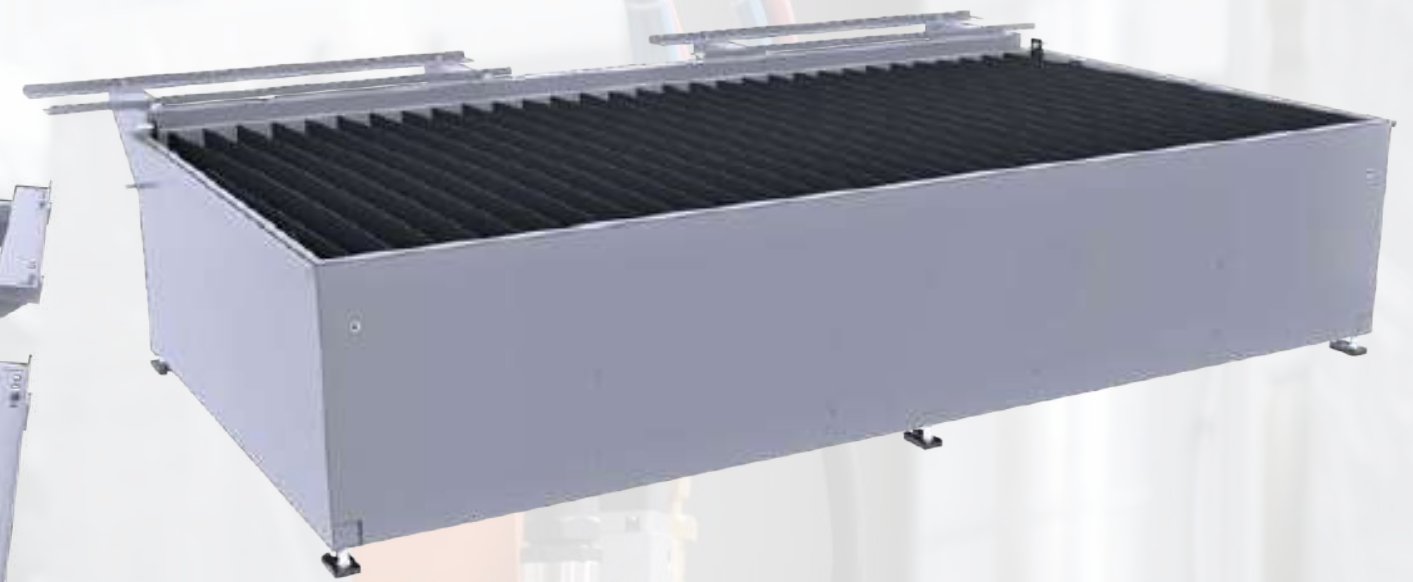
- TABLE WEIGHT (WITHOUT WATER AND CNC UNIT)** 280 kg
- WEIGHT OF THE GRID (27 INDIVIDUAL SEGMENTS)** 40,5 kg
- MAX. LOAD CAPACITY FOR CUT MATERIAL** 550 kg
- TOTAL TABLE WEIGHT INCL. MATERIAL AND WATER** 1 049 kg
- DIMENSIONS (L × W × H)** 2070 × 1 630 × 860 mm
- USABLE WORK SURFACE FOR MACHINE CUTTING** 2 000 × 1 000 mm

ORDERING INFO

Description	Part No.
EX-TRACK® water table 1 000 × 2 000	EX-0-716-002
Slats set for water table 1 000 × 2 000 *	EX-0-713-030
EX-TRACK®CNC-1 500 W 1 000 × 2 000/230 VAC/CE/PA-ready/OXY	EX-0-707-003

* Spare part

HERR® WATER TABLE



SOLUTION FOR PORTABLE CUTTING SYSTEMS

The water-cutting table from the CT-PORW series is a stationary solution for plasma cutting and flame cutting metal. Cut particles and slag generated during the cutting processes are collected and bound in the water. This reduces emissions.

HERR® water table is a great variant for the customer, who wants to use EX-TRACK®CNC, but has less space in the workshop or wants to invest less money for the fully working system.

Robust construction, stainless steel water tray, adjustable feet for proper leveling of the table, big draining valve for fast draining of the polluted water, replaceable slats - all those features you can find on HERR® water table. The whole grid with slats is easy to lift thanks to crane eyes. Ensuring proper grounding for all metal table components is standard practice. Utilizing water during plasma cutting effectively captures and contains nearly all toxic fumes, ensuring a safe working environment for the operator when using this type of water table.

SPECIFICATIONS

DIMENSIONS (L × W × H) 3 245 × 2 180 × 650-750 mm

MAXIMUM CUTTING AREA 3 000 × 1 500 mm

TOTAL TABLE WEIGHT 830 kg

WATER TANK CAPACITY 1 000 l

RECOMMENDED MAX. WATER FILL LEVEL 20 mm below the lower edge of the workpiece (max. 800 l)

MAX. SHEET THICKNESS 40 mm

MAX. LOAD 400 kg/m², 1 500 kg with even weight distribution across the entire area

ORDERING INFO

Description	Part No.
HERR® water table 1 600 × 3 200	EX-0-714-011

HERR® DOWNDRAFT TABLE



SOLUTION FOR PORTABLE CUTTING SYSTEMS

Beside the cutting machine, the cutting tool and the steel used for manufacturing, the cutting table is an important investment. The structure of the cutting table must be well designed and durable for achieving quality cutting by efficiently and effectively removing the dust and contaminated air from the cutting process. In order to offer the best plan to help the customer to solve their dust problem, the customized service of HERR® PorVent table combination is also available. HERR® combines cutting table and the exhaust system perfectly together to achieve the ultimate goal - the protection of work force and increase in productivity.

HERR® also offers a complete system which consists of cutting table, filter system, fan and pipes. Besides those merits, HERR® cutting table is also easy to install and maintain, and energy efficient. HERR® only uses quality components to manufacture the PorVent down draft cutting table. The tables fulfill all requirements of a functional cutting table. Due to the modular design, the PorVent tables are easy to transport, install and can even be expanded to adjust the increasing workload. The PorVent down draft table uses long lasting components like copper pipes and two way air cylinders. The specially designed exhaust channels and flaps are crafted to minimize the reliance on compressed air and fan power. This, in turn, lowers your operational costs and enhances productivity.



SPECIFICATIONS

- DIMENSIONS (L x W x H)** 3 200 x 2 120 x 650 - 670 mm
- MAXIMUM CUTTING AREA** 3 000 x 1 500 mm
- EXTRACTION SECTIONS** 4 x 750 mm
- TOTAL TABLE WEIGHT** approx. 870 kg
- THICKNESS OF THE CUTTING RIDGES** 3 mm
- OPENING OF THE EXTRACTION FLAPS** pneumatic
- COMPRESSED AIR REQUIRED** 5-6 bar @ 140 lpm, clean, oil-free
- MAX. LOAD** 400 kg/m², 1 500 kg with even weight distribution across the entire area

ORDERING INFO

Description	Part No.
HERR® downdraft table 1 600 x 3 200 for EX-TRACK®CNC	EX-0-714-004

ACCESSORIES

Description	Part No.
Grid for cutting small parts	EX-0-713-028



EXHAUSTING UNIT



The 880 series filter system is extremely compact and light. It is the first choice for exhaust of smoke and dust generated by plasma or oxy-fuel cutting. The two filter cartridges are hosted in the upper segment of the filter system. This allows easy access for maintenance and cleaning of the dust bin. The 880200-40 model uses two 20 m² filter cartridges made of ePTFE laminated fabric. This guarantees a highly efficient filtration of the contaminated air. The soft, quiet (<75 dB) and efficient cleaning via the HiRoto[®] rotary nozzles saves air (energy) and stresses the filter cartridge less than conventional cleaning procedures via air pulse. HISTec[®] ePTFE filter cartridges do not only clean the air more thoroughly than regular filter cartridges, they also last longer. With an extraction capacity of 3 000 m³/h, the unit is strong enough to extract the cutting surface of 3 000 x 1 500 mm in combination with the HERR[®] downdraft table.



SPECIFICATIONS OF THE 880200-40 UNIT

AIR VOLUME max. 3 000 m³/h

WEIGHT 495 kg

OPERATING VOLTAGE 380-400 VAC

RATED CURRENT (A) 5,9-7,1

MOTOR OUTPUT 2 × 1,5 kW

FREQUENCY 50 Hz

MOTOR 3 phase

CONTROL VOLTAGE 24 VAC

DUTY CYCLE 100 %

COMPRESSED AIR 5-6 bar @ 140 lpm

ORDERING INFO

Description	Part No.
Central extraction system; 3 000 m ³ /h; 1,5 kW; 3 x 400 V; 50 Hz; 40 m ² filter surface; 1 200 x 800 x 2 445; 495 kg	EX-0-710-001
Piping kit for connecting exhausting unit with the downdraft table	EX-0-714-002
Replacement filter cartridge ePTFE, 20 m ²	EX-0-711-001

WORKING TABLES

HERR® working tables provide a solution to the dust extraction, which is especially suited to the needs of portable cutting machines and other types of metalworking. Dust and exhaust gases are drawn through the table into a central pipe system at the end of it the filter system is located. The table helps here also in the separation of sparks and embers. Coarse dust, pieces of slag and workpiece residues fall into a simple to be emptied container.

Through the use of the work table the hazards by sparks, slag and metal splinters can be better controlled and minimized. The work support of the table can easily be removed and replaced, if it is worn out.

HERR® work table with integrated suction is available in different dimensions, it adapts thus flexible to your needs. The air outlet Ø 160 mm can be connected on the left or right side.



ORDERING INFO

Description	Part No.
HERR® hand plasma cutting table (L x W x H) 800 x 600 x 800; air volume demand 2 000 m³/h	EX-0-716-030
HERR® hand plasma cutting table (L x W x H) 1 200 x 600 x 800; air volume demand 2 200 m³/h	EX-0-716-031
HERR® hand plasma cutting table (L x W x H) 1 200 x 800 x 800; air volume demand 2 500 m³/h	EX-0-716-032



GRINDING TABLE

The HERR® grinding table helps to catch the sparks, metal splashes and dust occurring during grinding and polishing. The harmful dusts are thereby fed into a pipe system which is connected to central filtering system. Pipe connection is Ø 250 mm.

HERR® grinding table has a modular design. By adding modules to the work surface it can arbitrarily be extended. The winged doors on either side and the top cover can be opened to allow access for large workpieces. The grinding table was designed for a wide range of applications in the welding workshop or in training institutions. Thanks to working height 810 mm and table depth 750 mm is work on the grinding table really comfortable.

ORDERING INFO

Description	Part No.
HERR® grinding table (L x W x H) 1 010 x 1 000 x 1 700; air volume demand 2 000 m³/h	EX-0-716-040
HERR® grinding table (L x W x H) 1 510 x 1 000 x 1 700; air volume demand 3 000 m³/h	EX-0-716-041



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CUT ORANGE.**

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EX-TRAFLAME®

TORCH SUITABLE FOR OXY-FUEL CUTTING

THERMACUT® developed its own oxy-fuel cutting torch EX-TRAFLAME® in two versions which works with all kinds of fuel gases and brings you these benefits:

- **SPECIAL O-RINGS TO AVOID THE MIXING OF GASES**
- **QUICK-CHANGE SYSTEM WITH STAINLESS STEEL NUT**
- **CHANGEABLE INJECTOR**
- **SEPARATE PARTS (TORCH + VALVES)**
- **HIGH PERFORMANCE CUTTING**

EX-TRAFLAME®

Uses standard replacement parts suitable for model HARRIS® consumables.

A-2100-A for acetylene

A-2100-PM for propane and natural gas

Torches A-2100-A and A-2100-PM are available with input fittings which are removable.

EX-TRAFLAME® PRO

Uses replacement parts suitable for model VADURA® and GRICUT® consumables with our unique design.

Greater cutting speed and lower preheating time.

A-1100-A for acetylene

A-1100-PM for propane and natural gas



Item Description

Item	Description
1	Reductions (9/16 -18 UNF / 9/16 -18 UNF / 9/16 -18 UNF LH) - only for A2100-A/PM
2	Gases input (G 1/4" / G 3/8" / G 3/8"LH)
3	Fixing nut
4	Changeable injector (A - Acetylene, PM - Propane and natural gas)
5	Torch body
6	Torch head
7	Cutting tip
8	Heating nozzle
9	Consumables holder

With each EX-TR AFLAME® torch, THERMACUT® supply a separate convenient "Cut chart" which shows the mm. thickness, gas pressures, and consumptions for gases for that torch.

EX-TR AFLAME® A-2100-A

CUT CHART FOR REPLACEMENT PARTS SUITABLE FOR MODEL HARRIS® 6290-VAX

Work-piece thickness [mm]	Cutting nozzle [Ref. Nr.]	Cutting speed [mm/min.]	Cutting oxygen pressure [bar]	Minimum preheating oxygen pressure [bar]	Fuel gas pressure [bar]	Cutting oxygen consumption [m³/h]	Preheating oxygen consumption [m³/h]	Fuel gas consumption [m³/h]	Cutting kerf width [mm]
0-8	6290-VAX1 OEM	650	2.5-4	1.6	0.1-0.15	0.85-1.25	0.37	0.34	1.6
8-15	6290-VAX2	600	5	1.6	0.15	2.4	0.425	0.4	1.9
15-35	6290-VAX3	550	7	1.6	0.15	4	0.48	0.425	1.9
35-75	6290-VAX4	450	7	1.6	0.15	5	0.54	0.48	2.1
75-150	6290-VAX5	300	5	1.6	0.15	9	0.62	0.57	2.3
150-200	6290-VAX6	150	6.5	1.6	0.15	13.5	0.55	0.76	3.3



DESCRIPTION: Two-piece high speed cutting tip for cutting up to 200 mm.

GASES: Oxygen - acetylene.

SUITABLE FOR: EX-TR AFLAME®

EX-TR AFLAME® A-2100-PM

CUT CHART FOR REPLACEMENT PARTS SUITABLE FOR MODEL HARRIS® 6290-VVC

Work-piece thickness [mm]	Cutting nozzle [Ref. Nr.]	Cutting speed [mm/min.]	Cutting oxygen pressure [bar]	Minimum preheating oxygen pressure [bar]	Fuel gas pressure [bar]	Cutting oxygen consumption [m³/h]	Preheating oxygen consumption [m³/h]	Fuel gas consumption [m³/h]	Cutting kerf width [mm]
1-4	6290-VVC5/0 OEM	750-550	4	1.6	0.03-0.2	0.65	0.8	0.23	1.3
4-6	6290-VVC4/0 OEM	700-520	2.5	1.6	0.03-0.2	1.13	0.8	0.23	1.5
6-9	6290-VVC3/0	650-480	5	1.6	0.03-0.2	2.26	1	0.3	1.8
9-12.5	6290-VVC2/0	630-450	5	1.6	0.03-0.2	2.574	1	0.3	1.8
12.5-20	6290-VVC0	600-400	6	1.6	0.03-0.2	3.53	1	0.3	2.0
20-35	6290-VVC0 1/2	550-360	7	1.6	0.03-0.2	4	1	0.3	2.0
35-60	6290-VVC1	480-220	7	1.6	0.03-0.2	5.56	1	0.3	2.3
60-75	6290-VVC1 1/2	310-200	6.5	1.6	0.03-0.2	7.07	1	0.3	2.8
75-125	6290-VVC2	280-180	7	1.6	0.03-0.2	9	1.13	0.33	3.0
125-150	6290-VVC2 1/2	200-160	6.5	1.6	0.03-0.2	11.17	1.13	0.33	3.3
150-175	6290-VVC3	180-150	7	1.6	0.03-0.2	12	1.13	0.33	3.5
175-200	6290-VVC4	180-150	6.5	1.6	0.03-0.2	14.85	1.13	0.33	4.0
200-225	6290-VVC5	150-130	6	1.6	0.03-0.2	16.41	1.3	0.38	5.0
225-250	6290-VVC5 1/2	130-110	6	1.6	0.03-0.2	16.98	1.3	0.38	6.4



DESCRIPTION: Two-piece high speed cutting tip for cutting up to 250 mm.

GASES: Oxygen - propane, natural gas.

SUITABLE FOR: EX-TR AFLAME®

EX-TR AFLAME® PRO A-1100-A

CUT CHART FOR REPLACEMENT PARTS SUITABLE FOR MODEL MESSER® VADURA® 9215A

Work-piece thickness [mm]	Cutting nozzle [Ref. Nr.]	Heating nozzle [Ref. Nr.]	Cutting speed [mm/min.]	Torch height [mm]	Cutting oxygen pressure [bar]	Preheating oxygen pressure [bar]	Fuel gas pressure [bar]	Cutting oxygen consumption [m³/h]	Preheating oxygen consumption [m³/h]	Fuel gas consumption [m³/h]	Cutting kerf width [mm]
10	716.16563	716.16550	740	5-7	6,5	2,5	0,5	3,25	0,47	0,36	2,1
15	716.16563	716.16550	630	5-7	6,5	2,5	0,5	3,22	0,47	0,36	2,1
20	716.16563	716.16550	570	5-7	7	2,5	0,5	3,50	0,47	0,36	2,1
25	716.16563	716.16550	520	5-7	7,5	2,5	0,5	3,7	0,47	0,36	2,1
25	716.16564	716.16550	520	5-7	6,5	2,5	0,5	4,60	0,47	0,36	2,5
30	716.16564	716.16550	500	5-7	7,5	2,5	0,5	5,20	0,47	0,36	2,7
35	716.16564	716.16550	460	5-7	7,5	2,5	0,5	5,20	0,47	0,36	2,7
40	716.16564	716.16550	440	5-7	8	2,5	0,5	5,20	0,47	0,36	2,7
40	716.16565	716.16550	440	5-7	6,5	2,5	0,5	5,60	0,47	0,36	2,8
50	716.16565	716.16550	390	5-7	7	2,5	0,5	6	0,47	0,36	3
60	716.16565	716.16550	360	5-7	8,5	2,5	0,5	7,10	0,47	0,36	3
60	716.16566	716.16550	360	5-7	6,5	2,5	0,5	9,10	0,47	0,36	3
80	716.16566	716.16550	300	5-7	7,5	2,5	0,5	10,40	0,47	0,36	3
100	716.16566	716.16550	270	5-7	8	2,5	0,5	11	0,47	0,36	3
100	716.16567	716.16560	270	7-10	6,5	3,5	0,5	12,10	0,62	0,48	3,6
130	716.16567	716.16560	230	7-10	7	3,5	0,5	12,90	0,62	0,48	3,6
150	716.16567	716.16560	210	7-10	7	3,5	0,5	12,90	0,62	0,48	3,6
150	716.16568	716.16560	210	20	6,5	6,5	0,5	19,40	1,06	0,82	5
200	716.16568	716.16560	180	20	7	7	0,5	20,80	1,10	0,85	5
230	716.16568	716.16560	140	20	7,5	7,5	0,5	22,00	1,14	0,88	5
230	716.16569	716.16560	150	25	6,5	6,5	0,5	28,50	1,08	0,83	6
250	716.16569	716.16560	130	25	7	7	0,5	30,00	1,10	0,85	6
300	716.16569	716.16560	110	25	7,5	7,5	0,5	32,50	1,14	0,88	6



DESCRIPTION: High-speed "quick change" two-piece nozzles for machine cutting up to 300 mm.
GASES: Acetylene.
SUITABLE FOR: EX-TR AFLAME® PRO

EX-TR AFLAME® PRO A-1100-PM

CUT CHART FOR REPLACEMENT PARTS SUITABLE FOR MODEL MESSER® GRICUT® 9230-PMYF

Work-piece thickness [mm]	Cutting nozzle [Ref. Nr.]	Heating nozzle [Ref. Nr.]	Cutting speed [mm/min.]	Torch height [mm]	Cutting oxygen pressure [bar]	Preheating oxygen pressure [bar]	Fuel gas pressure [bar]	Cutting oxygen consumption [m³/h]	Preheating oxygen consumption [m³/h]	Fuel gas consumption [m³/h]	Cutting kerf width [mm]
3	716.16551	716.16550	780	2-4	1.0	1.5	0.2	0.6	1.1	0.28	0.9
4	716.16551	716.16550	740	2-4	1.5	1.5	0.2	0.8	1.1	0.28	0.9
5	716.16551	716.16550	720	2-4	2.0	1.5	0.2	1.0	1.1	0.28	1.0
6	716.16551	716.16550	700	2-4	2.5	2.0	0.2	1.2	1.3	0.33	1.1
8	716.16551	716.16550	650	4-5	3.5	2.0	0.2	1.6	1.3	0.33	1.3
10	716.16551	716.16550	600	4-5	5.0	2.0	0.2	2.2	1.3	0.33	1.5
7	716.16552	716.16550	670	4-5	5.0	2.5	0.2	1.8	1.5	0.38	1.6
8	716.16552	716.16550	650	4-5	5.5	2.5	0.2	1.9	1.5	0.38	1.7
10	716.16552	716.16550	630	5-8	6.0	2.5	0.2	2.0	1.5	0.38	1.8
12	716.16552	716.16550	590	5-8	6.5	2.5	0.2	2.2	1.5	0.38	1.9
15	716.16552	716.16550	560	5-8	7.0	2.5	0.2	2.3	1.5	0.38	2.0
15	716.16553	716.16550	560	5-8	6.0	2.5	0.2	2.5	1.5	0.38	2.1
20	716.16553	716.16550	510	5-10	6.5	2.5	0.2	2.8	1.5	0.38	2.2
25	716.16553	716.16550	460	5-10	7.0	2.5	0.2	3.1	1.5	0.38	2.3
25	716.16554	716.16550	460	5-10	6.0	2.5	0.2	3.8	1.5	0.38	2.4
30	716.16554	716.16550	440	5-10	7.0	2.5	0.2	4.3	1.5	0.38	2.5
35	716.16554	716.16550	420	5-10	7.5	2.5	0.2	4.5	1.5	0.38	2.6
40	716.16554	716.16550	400	5-10	7.5	2.5	0.2	4.6	1.5	0.38	2.7
40	716.16555	716.16550	400	5-10	5.5	2.5	0.2	4.2	1.5	0.38	2.8
50	716.16555	716.16550	360	5-10	6.5	2.5	0.2	4.9	1.5	0.38	2.9
60	716.16555	716.16550	340	5-10	7.5	2.5	0.2	5.6	1.5	0.38	2.9
60	716.16556	716.16550	340	6-10	6.0	2.5	0.2	7.6	1.5	0.38	3.4
80	716.16556	716.16550	300	6-10	7.5	2.5	0.2	9.4	1.5	0.38	3.5
100	716.16556	716.16550	270	6-10	8.5	2.5	0.2	10.6	1.5	0.38	3.5



DESCRIPTION: Two-piece standard cutting tip for cutting up to 100 mm.
GASES: Oxygen - propane, natural gas, mixed gases.
SUITABLE FOR: EX-TR AFLAME® PRO

EX-TRAFLEAME® PRO

CUT CHART FOR REPLACEMENT PARTS SUITABLE FOR MODEL THERMACUT® THP CUTTING TIP

Work-piece thickness [mm]	Cutting nozzle [Ref. Nr.]	Heating nozzle [Ref. Nr.]	Cutting speed [mm/min.]	Torch height [mm]	Cutting oxygen pressure [bar]	Preheating oxygen pressure [bar]	Minimal fuel gas pressure [bar]	Cutting oxygen consumption [m³/h]	Preheating oxygen consumption [m³/h]	Fuel gas consumption [m³/h]	Cutting kerf width [mm]
10	1-1100-PM	716.16550	650	5	9	2	0,2	3,5	1,2	0,33	1,6
15	1-1100-PM	716.16550	580	5	10	2	0,2	4	1,2	0,33	1,6
20	1-1100-PM	716.16550	500	7	11	2	0,2	4,2	1,2	0,33	1,6
25	1-1100-PM	716.16550	500	7	9	2	0,2	4,3	1,2	0,33	2,2
25	2-1100-PM	716.16550	500	7	9,5	2	0,2	4,3	1,2	0,33	2,2
30	2-1100-PM	716.16550	490	7	10	2	0,2	4,5	1,2	0,33	2,2
40	2-1100-PM	716.16550	460	7	10	2	0,2	4,7	1,2	0,33	2,2
50	2-1100-PM	716.16550	390	7	11	2	0,2	5,2	1,2	0,33	2,2
50	3-1100-PM	716.16550	390	7	10	2	0,2	7,4	1,2	0,33	2,4
60	3-1100-PM	716.16550	350	7	10	2	0,2	7,4	1,2	0,33	2,4
75	3-1100-PM	716.16550	320	10	11	2	0,2	8,1	1,2	0,33	2,4
75	4-1100-PM	716.16550	320	10	10	2	0,2	9,3	1,2	0,33	2,7
90	4-1100-PM	716.16550	280	10	10	2	0,2	9,3	1,2	0,33	2,7
100	4-1100-PM	716.16550	270	10	11	2	0,2	10,2	1,2	0,33	2,7



DESCRIPTION: Two-piece standard cutting tip for cutting up to 100 mm.

GASES: Oxygen - propane, natural gas, mixed gases.

SUITABLE FOR: EX-TRAFLEAME® PRO

THERMACUT® SHUT-OFF VALVES

- SUITABLE FOR OXYGEN GAS



Item	Part No.	Ref. No.	Description	Packing
1.	A-1517	3YR-3R-A01	Connection: G3/8" (cutting oxygen)	1pc
	* A-1519*	3YR-1R-A01	Connection: G1/4" (heating oxygen)	1pc

- SUITABLE FOR FUEL GAS



Item	Part No.	Ref. No.	Description	Packing
1.	A-1518	3YR-3L-A01	Connection: G3/8" LH	1pc

THERMACUT® FLASHBACK ARRESTORS

- SUITABLE FOR OXYGEN GAS



Item	Part No.	Ref. No.	Description	Packing
1.	A-1512	F611-1R	Connection: G1/4" (heating oxygen)	1pc
	* A-1514*	F611-3R	Connection: G3/8" (cutting oxygen)	1pc
	A-1515	F611-9R	Connection: UNF9/16" (cutting and heating oxygen - US market)	1pc

- SUITABLE FOR FUEL GAS



Item	Part No.	Ref. No.	Description	Packing
1.	A-1513	F611-3L	Connection: BSP3/8" LH	1pc
	A-1516	F611-9L	Connection: UNF9/16" - 18 LH (US market)	1pc

* SUITABLE FOR EX-TRAFLEAME® AND EX-TRAFLEAME® PRO TORCH

THERMACUT® HOSE NIPPLES

- SUITABLE FOR OXYGEN GAS



Item	Part No.	Ref. No.	Description	Packing
1.	A-1520	185SN902	Connection: G3/8" (cutting oxygen)	1pc
	* A-1522*	185SN904	Connection: G1/4" (heating oxygen)	1pc

- SUITABLE FOR FUEL GAS



Item	Part No.	Ref. No.	Description	Packing
1.	A-1521	185SN903	Connection: G3/8" LH	1pc

THERMACUT® GAUGES

- SUITABLE FOR OXYGEN GAS



Item	Part No.	Ref. No.	Description	Packing
1.	A-1573	3TG-3R-CZ01	T-connection: G3/8" (Cutting oxygen)	1
	A-1572	3TG-1R-CZ01	T-connection: G1/4" (Heating oxygen)	1

* SUITABLE FOR EX-TRAFLEAME® AND EX-TRAFLEAME® PRO TORCH

Description: Oxyfuel injector cutting torch in two versions which works with all kinds of fuel gases and cuts materials up to 300 mm. The torch meets Norm ISO 5172.



Item	Part No.	Ref. No.	Description	Packing
1.	A-1520	185SN902	Fitting - Connection: G3/8" (cutting oxygen)	1
2.	A-1521	185SN903	Fitting - Connection: G3/8" LH	1
3.	A-1522	185SN904	Fitting - Connection: G1/4" (heating oxygen)	1
4.	A-1512	F611-1R	Flashback Arrestor - Connection: G1/4" (heating oxygen)	1
5.	A-1513	F611-3L	Flashback Arrestor - Connection: BSP3/8" LH	1
6.	A-1514	F611-3R	Flashback Arrestor - Connection: G3/8" (cutting oxygen)	1
7.	A-1517	3YR-3R-A01	Shut-off Valve - Connection: G3/8" (cutting oxygen)	1
8.	A-1518	3YR-3L-A01	Shut-off Valve - Connection: G3/8" LH	1
9.	A-1519	3YR-1R-A01	Shut-off Valve - Connection: G1/4" (heating oxygen)	1
10.	A-1450 / A-1451	A-2100-A / A-2100-PM	Torch - ACETYLENE / Torch - PROPANE / NAT. GAS / MIXED GASES	1
11.	A-1165	6290-VVC1	Cutting Nozzle - PROPANE / NAT. GAS / MIXED GASES	1
12.	A-1304	6290-VAX1	Cutting Nozzle - ACETYLENE	1
13.	PT-13295		EMPTY Case	1
14.	N-22562		Filling of the Box - down side	1
15.	N-22563		Filling of the Box - upper side	1
16.	A-1566	A-2222-PM	Full Case of EX-TRAFLEAME® SET	1

EX-TRAFLEAME® THERMACUT® CONSUMABLE CASE SUITABLE FOR EX-TRAFLEAME® PRO

Description: Oxyfuel injector cutting torch in two versions which works with all kinds of fuel gases and cuts materials up to 300 mm. PRO version reaches greater cutting speed and faster preheating.

The torch meets Norm ISO 5172.



Item	Part No.	Ref. No.	Description	Packing
1.	A-1520	185SN902	Fitting - Connection: G3/8" (cutting oxygen)	1
2.	A-1521	185SN903	Fitting - Connection: G3/8" LH	1
3.	A-1522	185SN904	Fitting - Connection: G1/4" (heating oxygen)	1
4.	A-1512	F611-1R	Flashback Arrestor - Connection: G1/4" (heating oxygen)	1
5.	A-1513	F611-3L	Flashback Arrestor - Connection: BSP3/8" LH	1
6.	A-1514	F611-3R	Flashback Arrestor - Connection: G3/8" (cutting oxygen)	1
7.	A-1517	3YR-3R-A01	Shut-off Valve - Connection: G3/8" (cutting oxygen)	1
8.	A-1518	3YR-3L-A01	Shut-off Valve - Connection: G3/8" LH	1
9.	A-1519	3YR-1R-A01	Shut-off Valve - Connection: G1/4" (heating oxygen)	1
10.	A-1448 / A-1449	A-1100-A / A-1100-PM	Torch - ACETYLENE / Torch - PROPANE / NAT. GAS / MIXED GASES	1
11.	A-1458	716.16553	Cutting Nozzle - PROPANE / NAT. GAS / MIXED GASES	1
12.	A-1370	716.16563	Cutting Nozzle - ACETYLENE	1
13.	A-1361	716.16550	Heating Nozzle	1
14.	PT-13295		EMPTY case	1
15.	N-22561		Filling of the Box - down side	1
16.	N-22563		Filling of the Box - upper side	1
17.	A-1565	A-1111-PM	Full Case of EX-TRAFLEAME® PRO SET	1

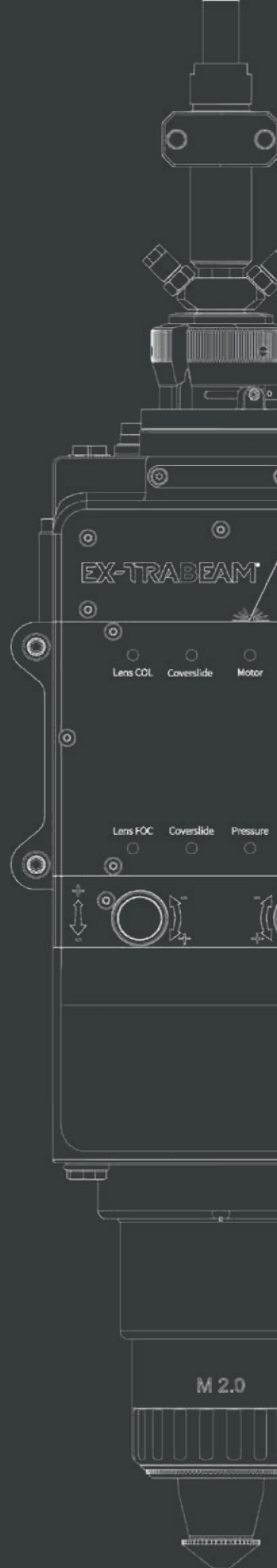
A GLOBAL PROVIDER OF ENHANCED THERMAL CUTTING SOLUTIONS

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EX-TRABEAM®

SMART CUTTING. BEST RESULTS.





SMART CUTTING. BEST RESULTS.

THE CUTTING COMPANY®

THERMACUT® is one of the world's leading specialists for reliable, powerful and cost-effective plasma, oxy-fuel and laser cutting solutions.

One of its main areas of expertise is optimizing original consumables, torches and tube packages to make them more durable, reliable and cost-effective. The company boasts a unique product portfolio in terms of both its width and depth.

In its development and production activities, THERMACUT® makes the most of more than 30 years of experience as a reliable partner for high-quality consumables and powerful system solutions.

Its intelligently networked EX-TRABEAM® laser cutting systems with an innovative service concept are a prime example of such solutions.



EX-TRABEAM® LASER CUTTING HEAD

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BENEFIT OF THE SERIES

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OVERVIEW OF MODELS

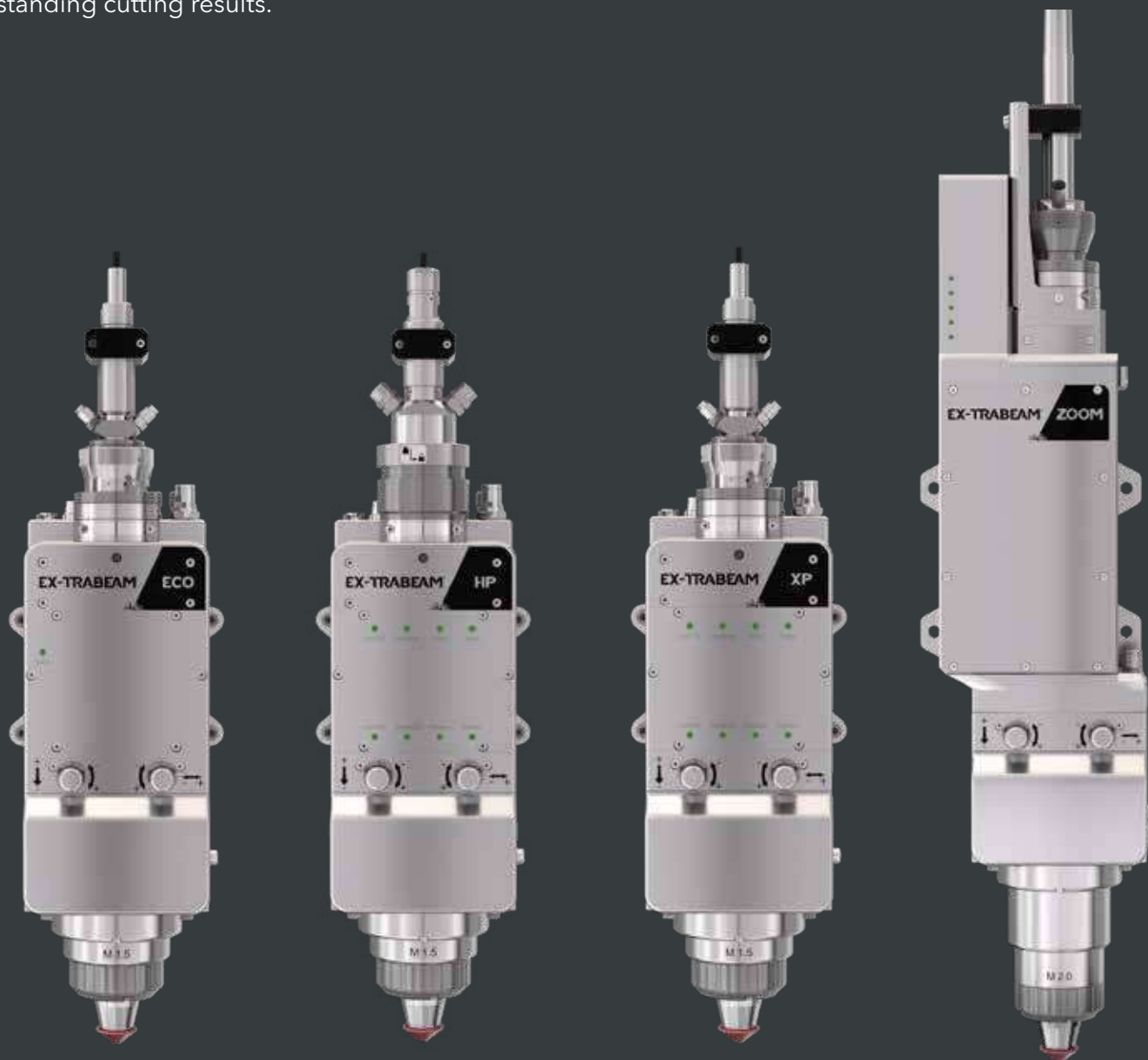
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SMART CUTTING. BEST RESULTS.

THE NEW EX-TRABEAM® SERIES.

This range of laser cutting heads has been completely redeveloped. One of the changes implemented was to embed the entire device electronics into the cutting head. This provides both technical and economic advantages and makes the heads the ideal components for cutting systems that meet the requirements of smart factories and Industry 4.0.

The cutting heads in the EX-TRABEAM® series are available as four different models. They offer integrators new scope for creativity in terms of technology and design and impress users with their outstanding cutting results.



THE INTELLIGENT FIBER LASER CUTTING HEADS IN THE NEW EX-TRABEAM® SERIES.

**Offers reliable, future-proof and cost-effective cutting technology
for Industrial applications up to 30 kW.**

The products boast an innovative device concept in which the entire device intelligence is embedded into the cutting head. The laser cutting heads offer maximum operational reliability and work with the laser sources of all established manufacturers.

The cutting heads in the EX-TRABEAM® series are available as four different models. They offer integrators new scope for creativity in terms of technology and design and impress users with their outstanding cutting results.

AN INTELLIGENT CUTTING HEAD STRUCTURE

The intelligent fiber laser cutting heads in the new EX-TRABEAM® series offer reliable, future-proof and cost-effective cutting technology for industrial applications up to 30 kW.

ADVANTAGES FOR INTEGRATORS

- ▶ More space on the head
- ▶ Easier system integration
- ▶ Flexible communication
- ▶ Reduced service times/costs
- ▶ Better cutting results
- ▶ Updatable technology



ETHERCAT INTERFACE

A high-performance real-time communication interface for:

- ▶ Control
- ▶ Systems communication
- ▶ Monitoring
- ▶ Data logging



CONTROL SYSTEM

An embedded microprocessor for controlling all functions and monitoring sensors:

- ▶ Cutting process monitoring incl. height sensing
- ▶ Monitoring the optical system



POWERFUL AND HIGHLY FLEXIBLE

With their excellent cutting performance and outstanding cutting quality, the cutting heads in the EX-TRABEAM® series meets all of the typical demands of manufacturing companies. What's more, they also offer a multitude of other clear competitive advantages.

STRONG CUTTING PERFORMANCE

The innovative design of the EX-TRABEAM® cutting heads is tailored to achieve maximum performance and optimum cutting results.

- ▶ The optimized gas flow management automatically compensates for fluctuations in the gas supply.
- ▶ The optical system is perfectly designed to complement the high laser power.
- ▶ Motorized collimation for automated focus position adjustment up to 175 mm.
- ▶ The specially developed cooling system reliably protects all critical components.

MAXIMUM FLEXIBILITY

With its four different models, the EX-TRABEAM® series ticks all the boxes when it comes to providing needs-based laser cutting technology for a wide range of areas of application from one single source.

- ▶ Three models with motorized focus control are available with laser powers of 1 to 30 kW.
- ▶ The flexible Zoom model has a variable focus ranging from 1.0 to 6.0 M.
- ▶ Ideal for the precise cutting of thin and thick sheet metal and other materials.
- ▶ Available for all laser sources in the market, ring mode laser, HLC-16 connector, laser power up to 30 kW.
- ▶ Piercing sensors integrated as standard for additional applications.



INTERFACES AND SYSTEM INTEGRATION

The EX-TRABEAM® series is extremely future-proof thanks to its embedded control system with an EtherCAT interface. The intelligent components ensure easy system integration, comprehensive monitoring options and Industry 4.0-ready data handling.

EASY SYSTEM INTEGRATION

- ◀ A processor for the control of all functions embedded into the cutting head
- ◀ No additional cables or control boxes required
- ◀ Fewer components, fewer sources of disturbance and easier handling.
- ◀ Platform construction with many common parts and universal control.

CONTROL AND DATA EXCHANGE VIA ETHERCAT

Real-time cutting head monitoring • Prevents crashes and plant shutdowns • Quick reaction times in case of disturbances • Significantly higher operational reliability

CUTTING PROCESS MONITORING

- ◀ Height sensing with a reaction time of 1 msec
- ◀ Process gas pressure
- ◀ Process gas humidity
- ◀ Nozzle touch
- ◀ Nozzle loss
- ◀ Process gas pressure
- ◀ Process gas humidity
- ◀ Body touch
- ◀ Piercing process

OPTICAL MONITORING

- ◀ Laser light cable exit
- ◀ Protective glass before the collimation system
- ◀ Collimation lens system
- ◀ Focusing lens system
- ◀ Protective glass for the process
- ◀ Optical cavity



SERVICEABILITY AND COST-EFFECTIVENESS

The structural design of the EX-TRABEAM® cutting heads facilitates a completely new service concept. This saves time and money and offers clear advantages for integrators and their customers.



QUICKER AND MORE AFFORDABLE REPLACEMENT OF OPTICAL ELEMENTS

- ◀ Defect optical elements can be replaced directly on the machine without removing the cutting head
- ◀ The laser head does not need to be sent in
- ◀ No optical recalibration required
- ◀ Reduced stock of replacement heads possible
- ◀ No unnecessary waiting times for customers

SIMPLE REPAIR OF THE NOZZLE MODULE

- ◀ Nozzle module with a 3-part modular structure
- ◀ Cost-saving replacement in the case of crashes or defects

PRACTICAL REMOTE MAINTENANCE

- ◀ Remote maintenance thanks to the EtherCAT interface
- ◀ Quick expert assistance in case of disturbances and shutdowns
- ◀ Supports predictive maintenance functions
- ◀ Reduced service and maintenance costs

A VERY SECURE INVESTMENT

- ◀ Moderate procurement costs and low service and maintenance costs ensure a rapid return on investment

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EX-TRABEAM® ECO

THE COST-EFFECTIVE STARTER MODEL



SMART CUTTING. BEST RESULTS.

EX-TRABEAM® ECO

EX-TRABEAM® ECO laser cutting heads are particularly cost-effective entry-level solutions. They are ideal for all plant manufacturers that want to reap the benefits of the innovative cutting head concept without requiring particularly high cutting power.

THE MAIN ADVANTAGES OF EX-TRABEAM® ECO:

- Laser power of up to 8 kW
- Motorized focus control
- Temperature-stable capacitive height sensor
- Embedded control system with an EtherCAT interface
- Monitoring of temperature and contamination of the main process window
- Compatible with ring-shaped laser beams and other laser beam shapes requiring high NA



OPTICAL SYSTEM

MAGNIFICATION FOCUSING 1.5 / 2.0
MAGNIFICATION COLLIMATION 1.0
MAX. LASER POWER 8 kW
WAVELENGTH 1000-1100 NM
AXIAL FOCUS ADJUSTMENT RANGE TO CUTTING NOZZLE
 +20 / -10 MM @ M = 1.5 +40 / -18 MM @ M = 2.0
LATERAL FOCUS ADJUSTMENT RANGE TO CUTTING NOZZLE
 +/- 1

ELECTRICAL SYSTEM

DC POWER SUPPLY 24 V
MAX. CURRENT 2 A
COMMUNICATION EtherCAT
DISTANCE SENSOR MEASUREMENT RANGE 0-20 MM
DISTANCE SENSOR MEASUREMENT FREQUENCY 1.0 KHZ
DIGITAL DISTANCE SENSOR EtherCAT
ANALOG DISTANCE SENSOR 0-10 V

MECHANICAL SYSTEM

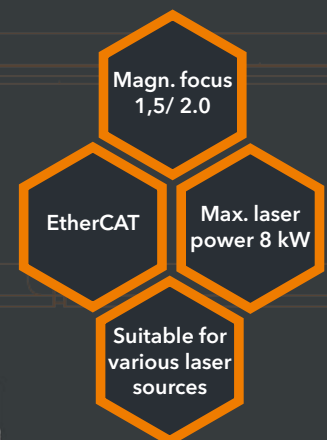
SIZE APPROX. 400 X 120 X 120 MM
WEIGHT APPROX. 7.0 KG
LASER LIGHT CABLE STANDARD QBH, LLK-D

COOLING SYSTEM

COOLANT QUALITY DI / DEMINERALIZED WATER
COOLANT TEMPERATURE 20-40 °C (NON-CONDENSING)
COOLANT FLOW RATE 1.0-2.0 L/MIN
MAX. COOLANT PRESSURE 0.5 MPA
COOLANT CONNECTOR OD/ID 6/4 MM

PNEUMATIC SYSTEM

MAX. CUTTING GAS PRESSURE 2.0 MPA
CUTTING GAS CONNECTOR OD/ID 10 MM
MAX. CUTTING NOZZLE COOLING PRESSURE 0.3 MPA
CUTTING NOZZLE COOLING CONNECTOR OD/ID 4/3 MM



EX-TRABEAM® HP

THE SMART HOTSHOT



SMART CUTTING. BEST RESULTS.

EX-TRABEAM® HP

EX-TRABEAM® HP cutting heads not only offer the same advantages as the EX-TRABEAM® ECO cutting heads but also monitor all optical components and cutting process signals, thus achieving maximum cutting precision and reliability as a fail-safe solution.

THE MAIN ADVANTAGES OF EX-TRABEAM® HP:

- Piercing sensor
- Monitoring of all optical components and cutting process signals
- Ready for smart factories and Industry 4.0 applications
- Laser power of up to 8 kW
- Motorized focus control
- Temperature-stable capacitive height sensor
- Embedded control system with an EtherCAT interface
- Compatible with ring-shaped laser beams and other laser beam shapes requiring high NA



OPTICAL SYSTEM

MAGNIFICATION FOCUSING 1.5 / 2.0

MAGNIFICATION COLLIMATION 1.0

MAX. LASER POWER 8 kW

WAVELENGTH 1000-1100 NM

AXIAL FOCUS ADJUSTMENT RANGE TO CUTTING NOZZLE

+20 / -10 MM @ M = 1.5 +40 / -18 MM @ M = 2.0

LATERAL FOCUS ADJUSTMENT RANGE TO CUTTING NOZZLE +/- 1

Magn. focus
1,5/ 2,0

EtherCAT

Max. laser
power 8 kW

Suitable for
various laser
sources

ELECTRICAL SYSTEM

DC POWER SUPPLY 24 V

MAX. CURRENT 2 A

COMMUNICATION EtherCAT

DISTANCE SENSOR MEASUREMENT RANGE 0-20 MM

DISTANCE SENSOR MEASUREMENT FREQUENCY 1.0 KHZ

DIGITAL DISTANCE SENSOR EtherCAT

ANALOG DISTANCE SENSOR 0 -10 V

MECHANICAL SYSTEM

SIZE APPROX. 400 X 120 X 120 MM

WEIGHT APPROX. 7.0 KG

LASER LIGHT CABLE STANDARD QBH, LLK-D

COOLING SYSTEM

COOLANT QUALITY DI / DEMINERALIZED WATER

COOLANT TEMPERATURE 20-40 °C (NON-CONDENSING)

COOLANT FLOW RATE 1.0-2.0 L/MIN

MAX. COOLANT PRESSURE 0.5 MPA

COOLANT CONNECTOR OD/ID 6/4 MM

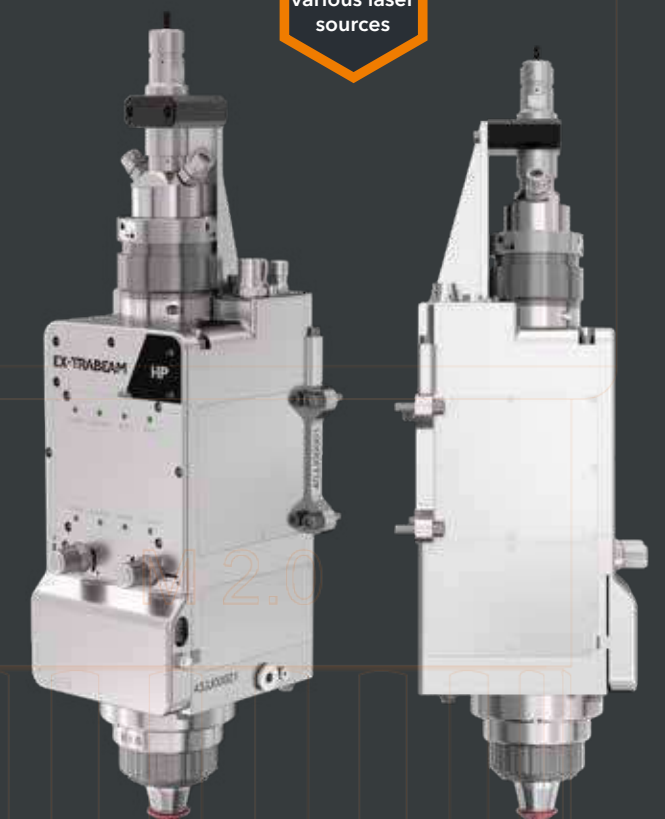
PNEUMATIC SYSTEM

MAX. CUTTING GAS PRESSURE 2.0 MPA

CUTTING GAS CONNECTOR OD/ID 10 MM

MAX. CUTTING NOZZLE COOLING PRESSURE 0.3 MPA

CUTTING NOZZLE COOLING CONNECTOR OD/ID 4/3 MM



EX-TRABEAM® XP

THE ROBUST POWERHOUSE



SMART CUTTING. BEST RESULTS.

EX-TRABEAM® XP

As the next step up from the EX-TRABEAM® HP cutting heads in terms of technology, the EX-TRABEAM® XP cutting heads offer a significant increase in power up to 30 kW. The cooling system and all relevant components are tailored to manage this extra power.

THE MAIN ADVANTAGES OF EX-TRABEAM® XP:

- Laser power of up to 30 kW, special cooling system for all critical components
- Available with an HLC-16 cable receiver for high-power laser sources
- Piercing sensor
- Monitoring of all optical components and cutting process signals
- Ready for smart factories and Industry 4.0 applications
- Motorized focus control
- Temperature-stable capacitive height sensor
- Embedded control system with an EtherCAT interface
- Compatible with ring-shaped laser beams and other laser beam shapes requiring high NA



OPTICAL SYSTEM

MAGNIFICATION FOCUSING 1.5 / 2.0 / 2.6 / 3.0 / 4.0

MAGNIFICATION COLLIMATION 1.0 / 1.3

MAX. LASER POWER 30 kW

WAVELENGTH 1000-1100 NM

AXIAL FOCUS ADJUSTMENT RANGE TO CUTTING NOZZLE

+20 / -10 MM @ M = 1.5 +40 / -18 MM @ M = 2.0

+60 / -25 MM @ M = 2.6 +80 / -50 MM @ M = 3.0 +125 / -50 MM @ M = 4.0

LATERAL FOCUS ADJUSTMENT RANGE TO CUTTING NOZZLE +/- 1

ELECTRICAL SYSTEM

DC POWER SUPPLY 24 V

MAX. CURRENT 2 A

COMMUNICATION EtherCAT

DISTANCE SENSOR MEASUREMENT RANGE 0-20 MM

DISTANCE SENSOR MEASUREMENT FREQUENCY 1.0 KHZ

DIGITAL DISTANCE SENSOR EtherCAT

ANALOG DISTANCE SENSOR 0 -10 V

MECHANICAL SYSTEM

SIZE APPROX. 400 X 120 X 120 MM

WEIGHT APPROX. 7.0 KG

LASER LIGHT CABLE STANDARD QBH, LLK-D, LLK-X, HLC-16

COOLING SYSTEM

COOLANT QUALITY DI / DEMINERALIZED WATER

COOLANT TEMPERATURE 20-40 °C (NON-CONDENSING)

COOLANT FLOW RATE 1.0-2.0 L/MIN

MAX. COOLANT PRESSURE 0.5 MPA

COOLANT CONNECTOR OD/ID 6/4 MM

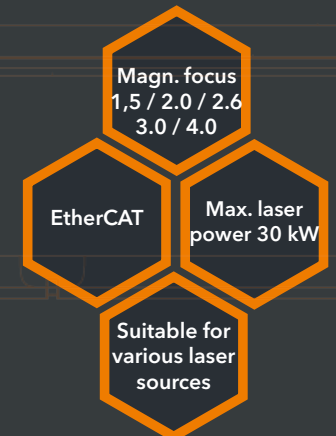
PNEUMATIC SYSTEM

MAX. CUTTING GAS PRESSURE 2.0 MPA

CUTTING GAS CONNECTOR OD/ID 10 MM

MAX. CUTTING NOZZLE COOLING PRESSURE 0.3 MPA

CUTTING NOZZLE COOLING CONNECTOR OD/ID 4/3 MM



EX-TRABEAM® ZOOM

THE FLEXIBLE ALL-ROUNDER



SMART CUTTING. BEST RESULTS.

EX-TRABEAM® ZOOM

With EX-TRABEAM® ZOOM laser cutting heads, both the focus position and focus diameter can be freely adjusted. Combined with a laser power of up to 30 kW, this makes them the ideal cutting heads for changing demands and high flexibility without having to forget any extra power.

THE MAIN ADVANTAGES OF EX-TRABEAM® ZOOM:

- Zoom collimation system, free choice of magnification and focus position
- Laser power of up to 30 kW, special cooling system for all critical components
- Temperature-stable capacitive height sensor
- Piercing sensor
- Embedded control system with an EtherCAT interface
- Available with an HLC-16 cable receiver for high-power laser sources
- Monitoring of all optical components and cutting process signals
- Ready for smart factories and Industry 4.0 applications
- Compatible with ring-shaped laser beams and other laser beam shapes requiring high NA



OPTICAL SYSTEM

MAGNIFICATION FOCUSING 1.0 / 6.0
MAGNIFICATION COLLIMATION 0.7-2.0
MAX. LASER POWER 30 kW
WAVELENGTH 1000-1100 NM
AXIAL FOCUS ADJUSTMENT RANGE TO CUTTING NOZZLE
 +20 / -10 MM @ M = 1.5 +40 / -18 MM @ M = 2.0
LATERAL FOCUS ADJUSTMENT RANGE TO CUTTING NOZZLE +/- 1



ELECTRICAL SYSTEM

DC POWER SUPPLY 24 V
MAX. CURRENT 4 A
COMMUNICATION EtherCAT
DISTANCE SENSOR MEASUREMENT RANGE 0-20 MM
DISTANCE SENSOR MEASUREMENT FREQUENCY 1.0 KHZ
DIGITAL DISTANCE SENSOR EtherCAT
ANALOG DISTANCE SENSOR 0 -10 V

MECHANICAL SYSTEM

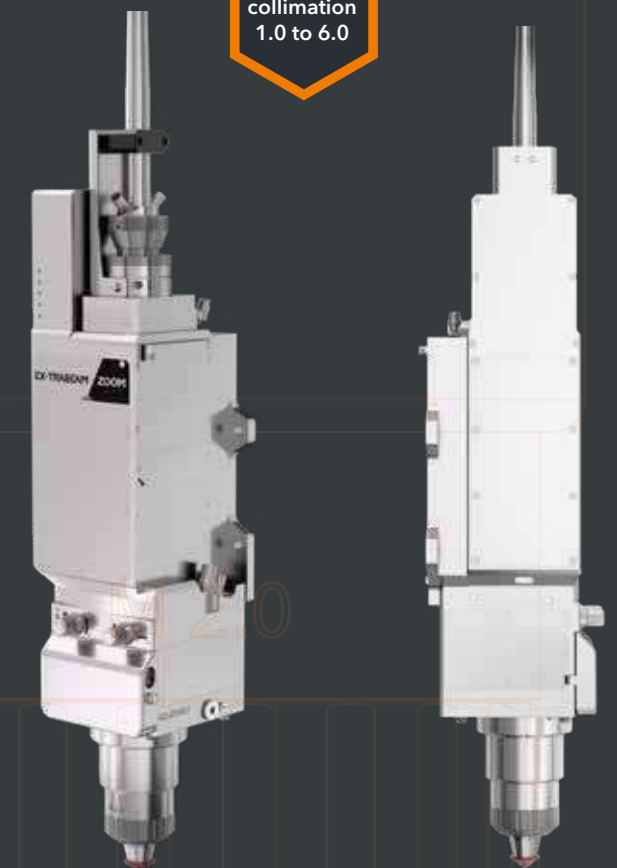
SIZE APPROX. 620 X 161 X 157 MM
WEIGHT APPROX. 11.0 KG
LASER LIGHT CABLE STANDARD QBH, LLK-D, HLC-16

COOLING SYSTEM

COOLANT QUALITY DI / DEMINERALIZED WATER
COOLANT TEMPERATURE 20-40 °C (NON-CONDENSING)
COOLANT FLOW RATE 1.0-2.0 L/MIN
MAX. COOLANT PRESSURE 0.5 MPA
COOLANT CONNECTOR OD/ID 6/4 MM

PNEUMATIC SYSTEM

MAX. CUTTING GAS PRESSURE 2.0 MPA
CUTTING GAS CONNECTOR OD/ID 10 MM
MAX. CUTTING NOZZLE COOLING PRESSURE 0.3 MPA
CUTTING NOZZLE COOLING CONNECTOR OD/ID 4/3 MM



THINK FRESH. CUT ORANGE.



THERMACUT® BRINGS FRESH IDEAS TO THE WORLD OF LASER CUTTING TECHNOLOGY. MAKE THE MOST OF THESE IDEAS AND REAP THE BENEFITS OF INNOVATIVE, RELIABLE, POWERFUL AND EXTREMELY EFFICIENT CUTTING SOLUTIONS

Discover our wide range of cutting solutions at www.ex-trabeam.com

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