



A GLOBAL PROVIDER OF ENHANCED THERMAL CUTTING SOLUTIONS

EX-TRA[®]FIRE

PLASMA CUTTING SYSTEMS CATALOG



FROM THE WORKSHOP TO THE SHIPYARD.

“A successful product begins with a simple idea”.

The idea was to create a plasma cutting power supply with precisely set criteria. It had to be powerful, versatile, easy to operate, durable and portable.

WE CREATED IT.
IT’S CALLED
THE **EX-TRAFIRE®**

EX-TRAFIRE® PLASMA SYSTEMS

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EX-TRAFIRE[®] HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.

EX-TRAFIRE® 85HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.

SOLUTIONS / INDUSTRIES



Training and
education



General
fabrication



Craft, hobby
and non-industrial



Structural



EX-TRAFIRE® 85HD



IMPRESSIVE PERFORMANCE

- ✦ For handheld and mechanized use
- ✦ Industry leading cut capacity
- ✦ 100% Duty cycle
- ✦ Use in applications ranging from the workshop to the shipyard

READY FOR INDUSTRY 4.0

- ✦ CAN Bus interface (optional)
- ✦ RS 485 interface (optional)
- ✦ Easy monitoring
- ✦ Expandable for future applications

AUTOMATIC SETTINGS

- ✦ Cutting gas media, electricity and pilot current
- ✦ Pressure regulation keeps cuts precise and arc stable
- ✦ Fewer operating errors, better cutting quality

OPTIMAL COST-EFFECTIVENESS

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

EX-TRAFIRE® 85HD

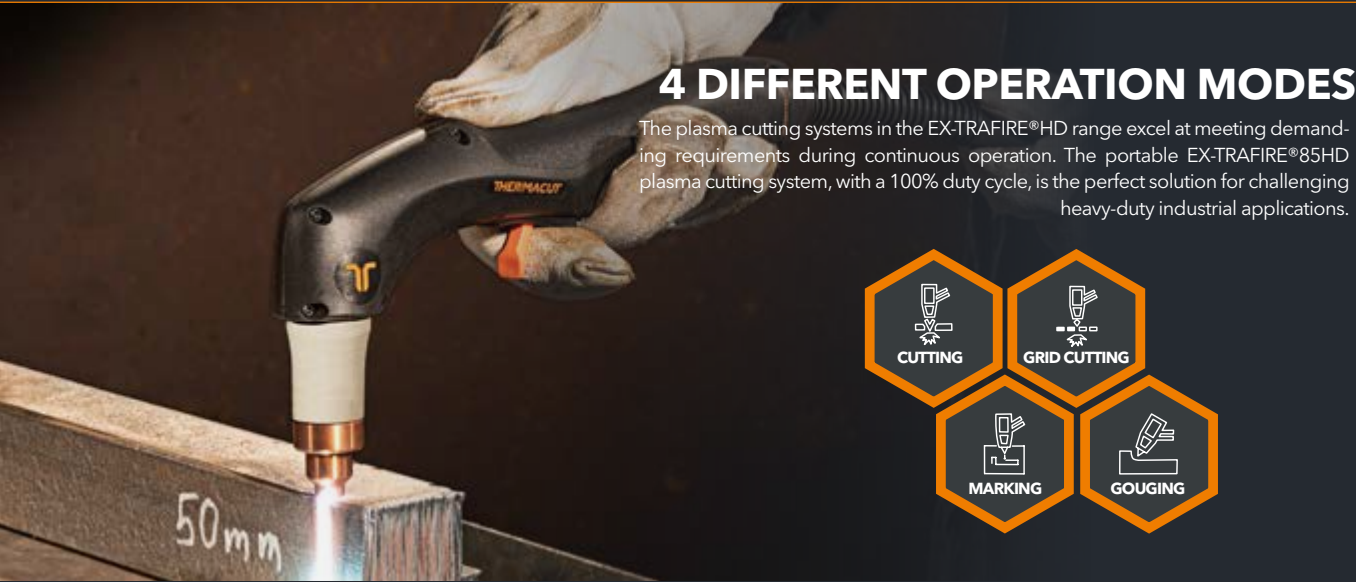
SPECIFICATIONS

Cutting current ****[A]	20-85 A
Modes	Cutting / Gouging / Grid / Marking
Duty cycle @ 104 °F	
U1 - 1x 230 VAC	60% - 65A, 100% - 50A
U1 - 3 x 208 VAC	40% - 85A, 100% - 54A
U1 - 3 x 460 - 575 VAC	80% - 85A, 100% - 76A
Rated output voltage [V] DC	140
Severance cutting capacity [inch]	2"
Piercing cutting capacity [inch]	1"
Recommended cutting capacity [inch]	1 ¼"
Plasma gas	Air / Nitrogen / Argon**
Air flow [cfh/psi]	380 / 72
CNC interface / CAN BUS interface	optional / optional
Preadjusted voltage divider ratio***	50:1
Input voltage [V] AC	1 x 230 / 3 x 208 / 460 / 575 ± 15%
Frequency [Hz]	50/60
Dimensions W×L×H [inch]	24.25" x 11.75" x 20.25"
Weight [lbs]	70
Certification depending on region	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

*values for low alloy steel, e.g. MS S235JR
**used for optional fine marking
***part of optional CNC interface
**** I2 reduced to 65A at single pahse inputvoltage

4 DIFFERENT OPERATION MODES

The plasma cutting systems in the EX-TRAFIRE®HD range excel at meeting demanding requirements during continuous operation. The portable EX-TRAFIRE®85HD plasma cutting system, with a 100% duty cycle, is the perfect solution for challenging heavy-duty industrial applications.



EX-TRAFIRE® 85HD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®85HD/CSA/200-600V Hand System/FHT-EX®105TTH Torch 16.4ft/H Starter Kit	16.4 ft	EX-4-010-061
EX-TRAFIRE®85HD/CSA/200-600V Hand System/FHT-EX®105TTH Torch 26.2ft/H Starter Kit	26.2 ft	EX-4-010-062
EX-TRAFIRE®85HD/CSA/200-600V Hand System/FHT-EX®105TTH Torch 49.2ft/H Starter Kit	49.2 ft	EX-4-010-063

MECHANIZED PLASMA CUTTING SYSTEMS

EX-TRAFIRE®85HD/CSA/200-600V 3-PH Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 16.4ft/M Starter Kit	16.4 ft	EX-4-011-041
EX-TRAFIRE®85HD/CSA/200-600V 3-PH Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 26.2ft/M Starter Kit	26.2 ft	EX-4-011-042
EX-TRAFIRE®85HD/CSA/200-600V 3-PH Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 49.2ft/M Starter Kit	49.2 ft	EX-4-011-043
EX-TRAFIRE®85HD/CSA/200-600V 3-PH Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 16.4ft/M Starter Kit	16.4 ft	EX-4-013-013
EX-TRAFIRE®85HD/CSA/200-600V 3-PH Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 26.2ft/M Starter Kit	26.2 ft	EX-4-013-014
EX-TRAFIRE®85HD/CSA/200-600V 3-PH Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 49.2ft/M Starter Kit	49.2 ft	EX-4-013-015

PLASMA CUTTING UNITS

EX-TRAFIRE® 85HD/CSA/200-600V 3-PH power supply unit/FULLY EQUIPPED	EX-4-001-009
EX-TRAFIRE® 85HD/CSA/200-600V 3-PH power supply unit/STD EQUIPPED	EX-4-003-005

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

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 .8 oz	1	EX-0-805-001
Filter-EX Compressed Air Filter	1	EX-0-804-001
Filter-EX Air Filter Cartridge	8	EX-0-804-002

EX-TRAFIRE® 85HD



FRONT VIEW



BACK VIEW



SIDE VIEW

EX-TRA FIRE® 105HD

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.



SOLUTIONS / INDUSTRIES



Automotive and
transportation



Steel mills and
steel service centers



Structural



Shipyards and
Offshore



Heavy fabrication

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 and RS 422 interfaces (optional)
- ✦ Easy monitoring
- ✦ Expandable and updatable

HIGHEST FLEXIBILITY

- ✦ Plate thicknesses up to 2 ¼ inches 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

EX-TRAFIRE® 105HD

SPECIFICATIONS

Cutting current ****[A]	20-105 A
Modes	Cutting / Gouging / Grid / Marking
Duty cycle @ 104 °F	
U1 - 1x 230 VAC	70% - 85A, 100% - 71 A
U1 - 3 x 208 VAC	60% - 105 A, 100% - 81 A
U1 - 3 x 240 VAC	70% - 105 A, 100% - 87 A
U1 - 3x 380 - 600 VAC	80% - 105 A, 100% - 94 A
Rated output voltage [V] DC	160
Severance cutting capacity [inch]	2 ¼"
Piercing cutting capacity [inch]	1"
Recommended cutting capacity [inch]	1 ½"
Plasma gas	Air / Nitrogen / Argon**
Air flow [lpm/bar]	400 / 72
CNC interface / CAN BUS interface	optional
Preadjusted voltage divider ratio***	50:1
Input voltage [V] AC	1 x 230 / 3 x 208 / 460 / 575 ± 15%
Frequency [Hz]	50/60
Dimensions W×L×H [inch]	24" x 20" x 11.75"
Weight [lbs]	78
Certification depending on region	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

*values for low alloy steel, e. g. MS S235JR
**used for optional fine marking
***part of optional CNC interface
**** I2 reduced to 85A at single pahse inputvoltage

4 DIFFERENT OPERATION MODES

The plasma cutting systems in the EX-TRAFIRE®HD range excel at meeting demanding requirements during continuous operation. The portable EX-TRAFIRE®105HD plasma cutting system, with a 100% duty cycle, is the perfect solution for challenging heavy-duty industrial applications.



EX-TRAFIRE®105HD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Hand System/FHT-EX®105TTH Torch 16.4 ft/H Starter Kit	16.4 ft	EX-5-010-051
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Hand System/FHT-EX®105TTH Torch 26.2 ft/H Starter Kit	26.2 ft	EX-5-010-052
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Hand System/FHT-EX®105TTH Torch 49.2 ft/H Starter Kit	49.2 ft	EX-5-010-053
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 16.4 ft/M Starter Kit	16.4 ft	EX-5-011-035
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 26.2 ft/M Starter Kit	26.2 ft	EX-5-011-036
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/FULLY EQUIPPED/FHT-EX®105TTM STD-NR Torch 49.2 ft/M Starter Kit	49.2 ft	EX-5-011-037
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 16.4 ft/M Starter Kit	16.4 ft	EX-5-013-013
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch26.2 ft/M Starter Kit	26.2 ft	EX-5-013-014
EX-TRAFIRE®105HD/CSA/200-600V 3-PH Machine System/STD EQUIPPED/FHT-EX®105TTM STD-NR Torch 49.2 ft/M Starter Kit	49.2 ft	EX-5-013-015
PLASMA CUTTING UNITS		
EX-TRAFIRE® 105HD/CSA/200-600V 3-PH power supply unit/FULLY EQUIPPED	EX-5-001-005	
EX-TRAFIRE® 105HD/CSA/200-600V 3-PH power supply unit/STD EQUIPPED	EX-5-003-005	

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

ACCESSORIES

Description	Pcs	Part No.
CNC Interface 14-pin Plug Kit	1	EX-0-803-001
CNC Interface connection lead 9.8 ft	1	EX-0-803-003
CNC Interface connection lead 19.6 ft	1	EX-0-803-004
CAN bus connection cable 32.8 ft	1	EX-0-803-006
CAN bus connection cable 16.4 ft	1	EX-0-803-007
RS422 bus connection cable 32.8 ft	1	EX-0-803-008
RS422 bus connection cable 16.4 ft	1	EX-0-803-009
Universal connection cable 32.8 ft	1	EX-0-803-010
Universal connection cable 16.4 ft	1	EX-0-803-011
Silicone Grease .8 oz	1	EX-0-805-001
Work lead with clamp 300 A/13.1 ft/6 AWG/EU-plug 2-2/0 AWG	1	EX-5-543-037
Work lead with clamp 300 A/26.2 ft//6 AWG/EU-plug 2-2/0 AWG (ON REQUEST)	1	EX-5-543-001
Work lead with clamp 300 A/49.2 ft/6 AWG/EU-plug 2-2/0 AWG (ON REQUEST)	1	EX-5-543-002
Work lead with clamp 300 A/75.4 ft/6 AWG/EU-plug 2-2/0 AWG (ON REQUEST)	1	EX-5-543-003

EX-TRAFIRE®105HD



FRONT VIEW



BACK VIEW



SIDE VIEW

FHT-EX®105TT



The high-performing FHT-EX®105TT H/M hand and machine torches meet tough demands during continuous operation. Designed for optimal use with EX-TRAFIRE®85HD and 105HD power supplies for cutting, gouging, grid-cutting and marking. Cut plate thickness of up to 2 ¼ inches quicker and more precisely.

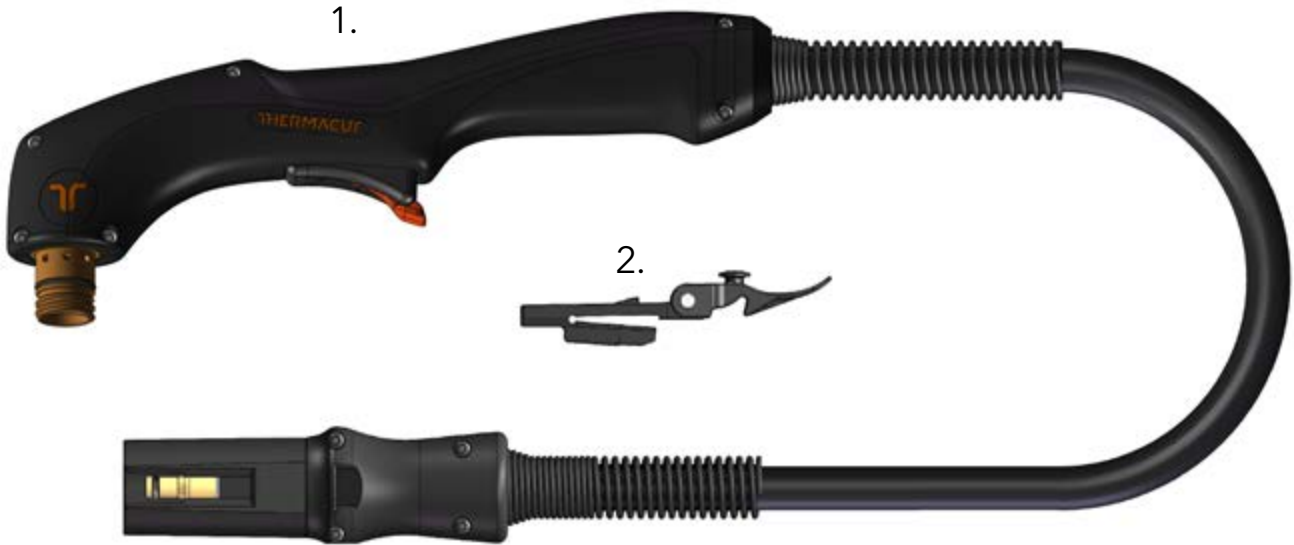
The Thermacut® Torch Connection System (TCS), changing the torch is a quick and easy process. Resulting from decades of experience in the field of plasma cutting, the power supplies features an extremely robust and durable design supported by consumables that can be replaced quick and easily.

BENEFITS

- High-performance torches for mechanized applications and handheld use
- Ergonomic handheld torches that increase time cutting safely 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 105A for continuous use
- Ideal for plate thicknesses of up to 2 inches with high power reserves
- Consumables with an extended lifetime
- Quick and tool-free replacement of consumables
- Piercing capability up to 1 inch
- Perfectly designed for use with EX-TRAFIRE®85HD and 105HD power supplies

FHT-EX®105TTH

HAND TORCH ASSEMBLY



Item	Part No.	Description	Pcs
1.	EX-5-133-002	DEMO FHT-EX®105TTH Hand Torch Assembly/TCS13	1
	EX-5-139-001	FHT-EX®105TTH Hand Torch Assembly-w/o consumables w/5m (16.5') Lead/TCS13	1
	EX-5-139-002	FHT-EX®105TTH Hand Torch Assembly w/o consumables w/8m (26') Lead/TCS13	1
	EX-5-139-003	FHT-EX®105TTH Hand Torch Assembly w/o consumables w/15m (50') Lead/TCS13	1
	EX-5-139-004	FHT-EX®105TTH Hand Torch Assembly w/o consumables w/23m (75') Lead/TCS13	1
2.	EX-0-321-003	Latch with Key Assembly	1

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

FHT-EX®105TTH

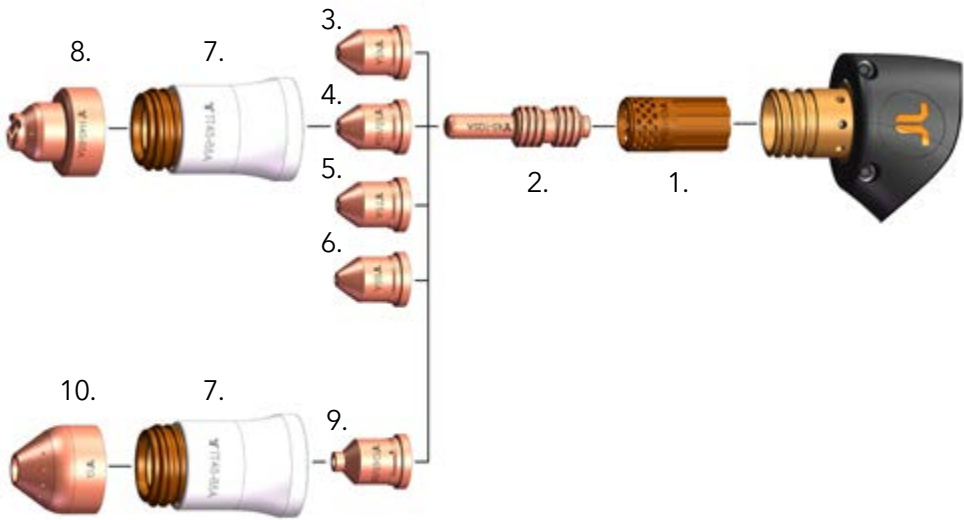
HAND TORCH COMPONENTS



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	8.	EX-0-325-005	Male Crimp Pin for TCS Plug	1
1.	EX-5-374-011	FHT-EX®105TTH Hand Torch Lead Replacement 8m (26')/TCS13	1	9.	EX-0-323-001	TCS13 Plug Body	1
1.	EX-5-374-012	FHT-EX®105TTH Hand Torch Lead Replacement 15m (50')/TCS13	1	10.	EX-5-302-001	Hand Torch Body Repl. Kit (incl. Torch body & Cap sensor)	2
1.	EX-5-374-013	FHT-EX®105TTH Hand Torch Lead Replacement 23m (75')/TCS13	1	11.	EX-5-431-050	O-Ring (fitted on the torch body) - 2 pcs	1
2.	EX-5-318-001	TCS Plug Spring Strain Relief	1	12.	EX-5-314-001	Hand Torch Handle Replacement Kit	1
3.	EX-0-325-015	TCS Clam Shell Screw Kit (incl. 4 screws)	1	13.	EX-5-305-002	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-5-308-001	Hand Torch Handle with Screws	1
6.	EX-0-325-010	Retaining Ring (Outer circlip ring)	1	16.	EX-5-372-010	Cathode mounting kit	1
7.	EX-0-325-009	O-Ring (fitted in the TCS plug)	1	17.	EX-0-321-003	Latch w/Key Assembly	
				18.	EX-5-313-030	Safety Trigger Micro-Switch	

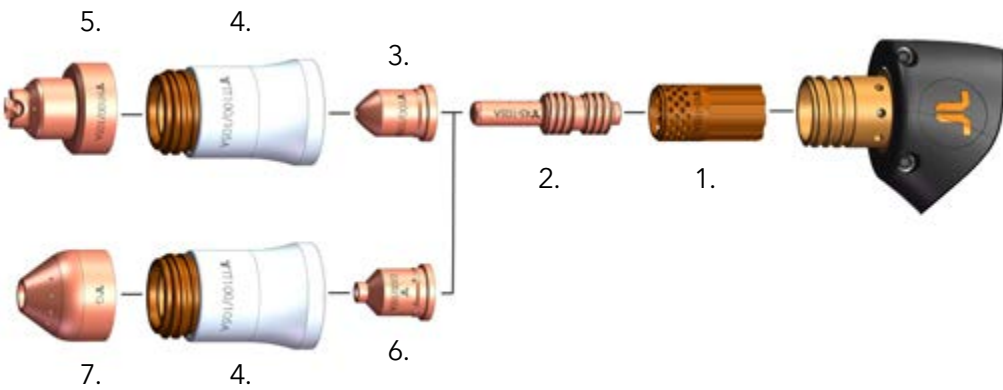
CONSUMABLES

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	1
2.	EX-5-401-051	Electrode 45-105 A (pkg.5pcs)	1	7.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
3.	EX-5-410-051	Nozzle 45 A	1	8.	EX-5-422-031	Hand Shield 45-85 A	1
4.	EX-5-410-053	Nozzle 55/65 A	1	9.	EX-5-440-051	Gouging Nozzle 45-85 A	1
5.	EX-5-410-030	Nozzle 75 A	1	10.	EX-5-440-050	Gouging Shield	1

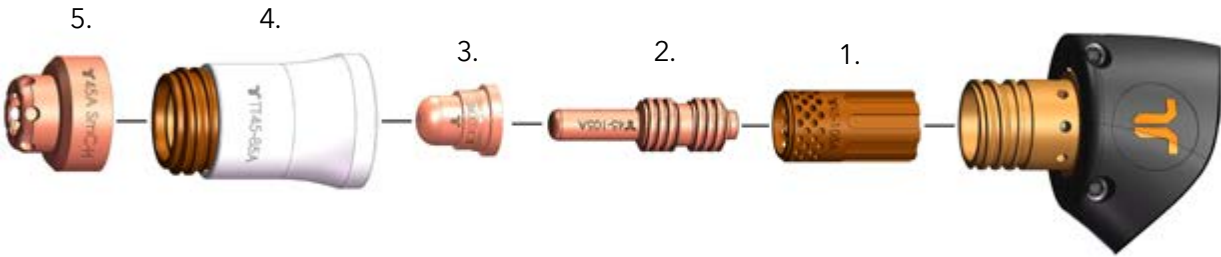
HAND TORCH CONSUMABLES - 100-105 A



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 (pkg.5pcs)	1	6.	EX-5-440-052	Gouging Nozzle 100/105 A	1
3.	EX-5-410-056	Nozzle 100/105 A	1	7.	EX-5-440-050	Gouging Shield	1
4.	EX-5-415-051	Nozzle Retaining Cap 100/105 A	1				

CONSUMABLES

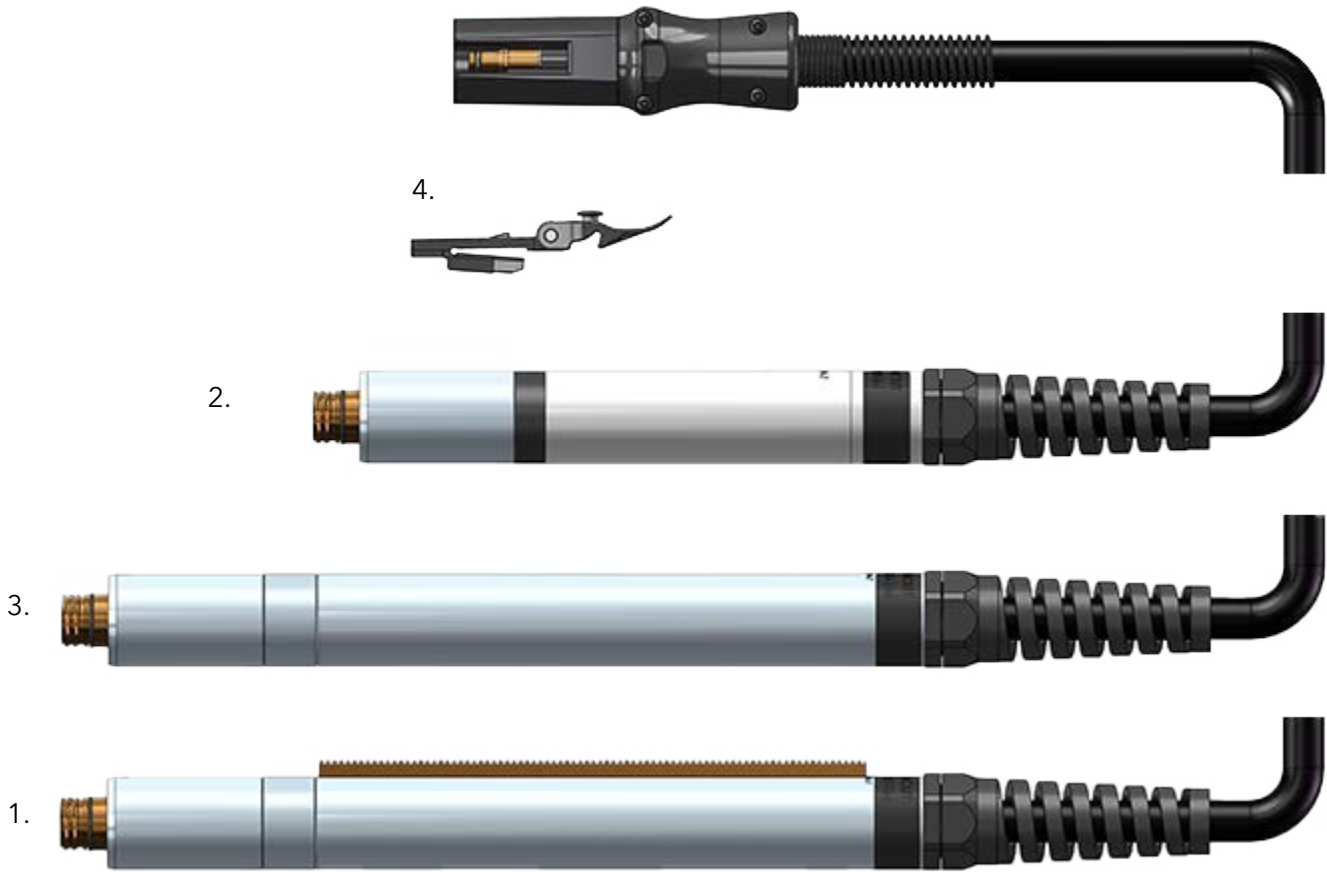
HAND TORCH CONSUMABLES - SMOOTHLINE



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 (pkg. 5pcs)	1
3.	EX-5-410-050	Nozzle Smoothline	1
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

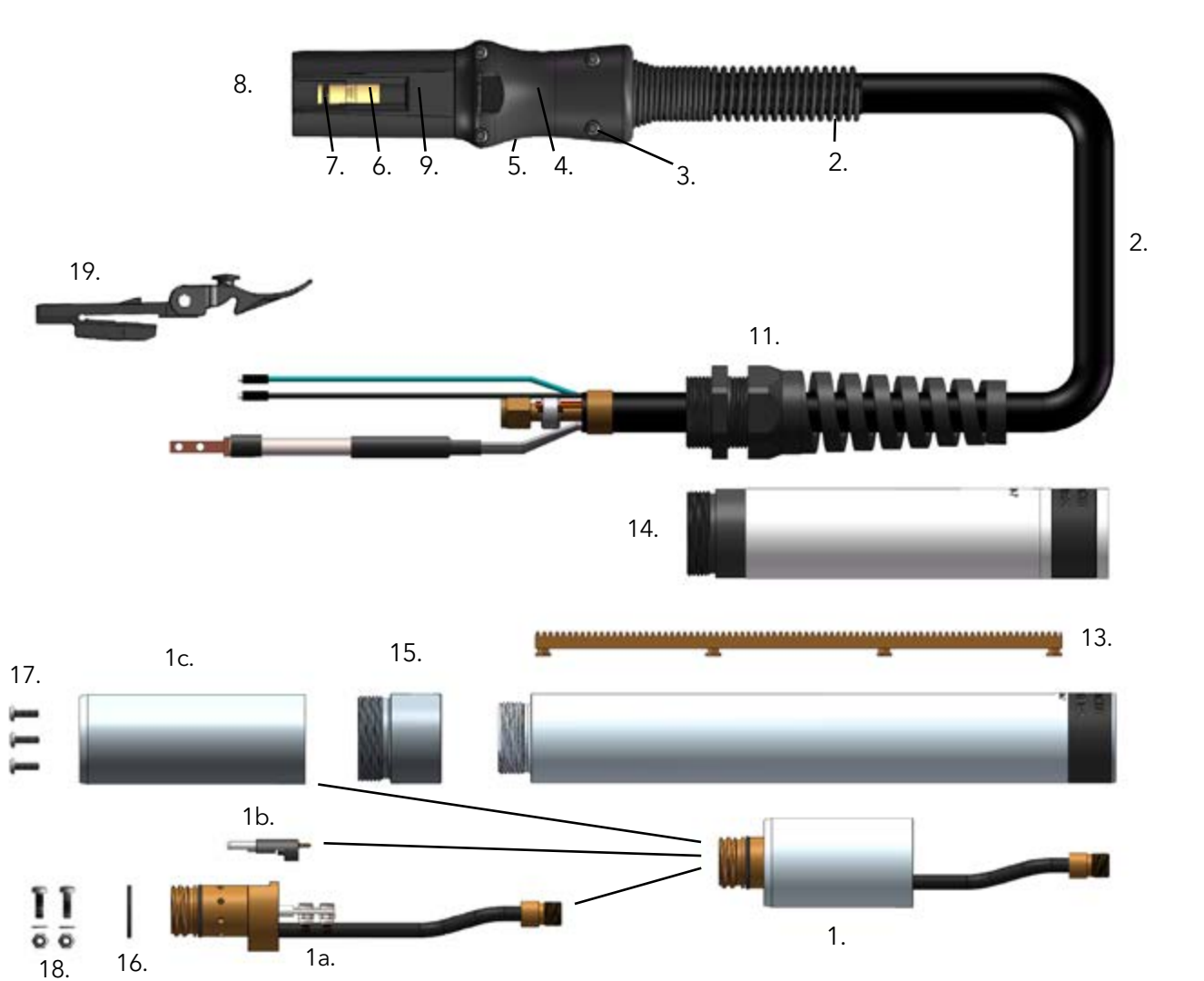


Item	Part No.	Description	Pcs
1.	EX-5-233-020	DEMO FHT-EX®105TTM (STD) Machine Torch w/Rack Assembly/TCS13	1
NS	EX-5-242-021	DEMO FHT-EX®105TTSM Short Machine Torch Assembly/ TCS13	1
2.	EX-5-242-021	FHT-EX®105TTSM Short Machine Torch Assembly-w/o consumables w/5m (16.5') Lead/ TCS13	1
2.	EX-5-244-021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

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

FHT-EX®105TTM

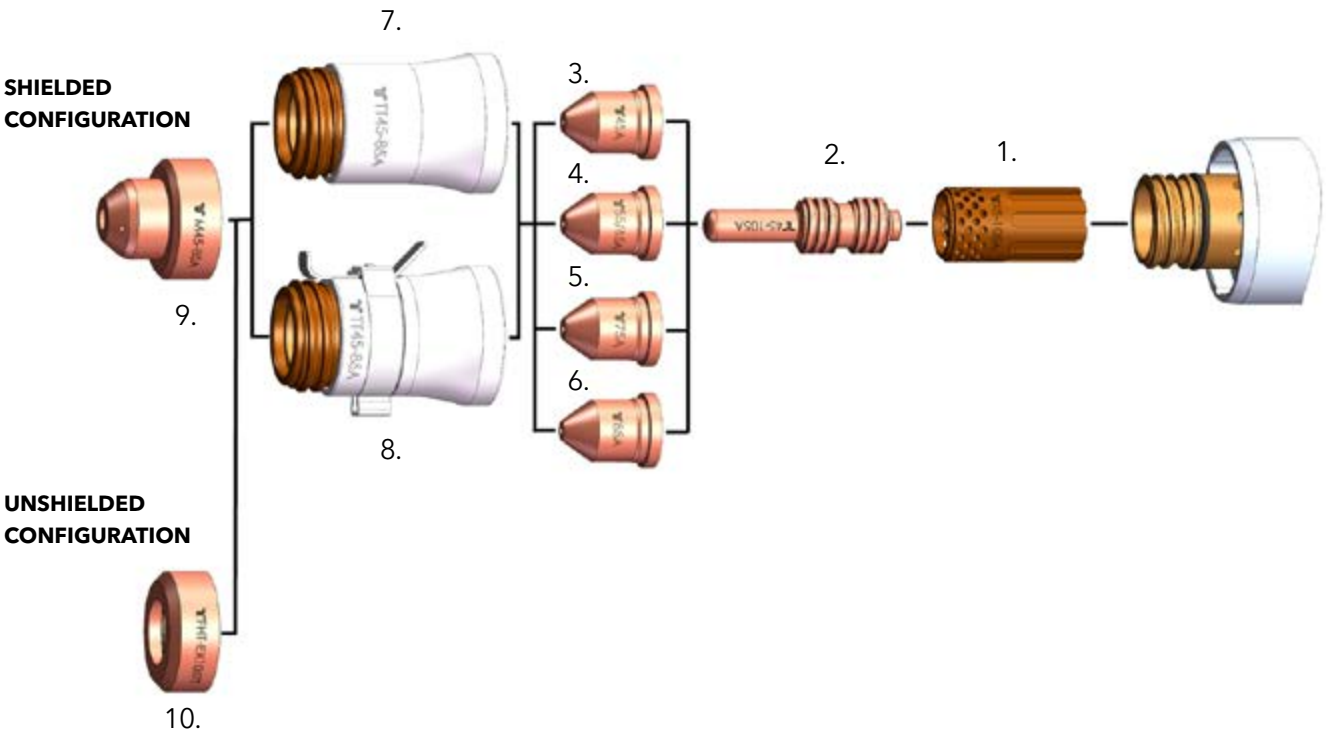
MACHINE TORCH COMPONENTS



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				

CONSUMABLES

STANDARD MACHINE TORCH CONSUMABLES - 45-85 A

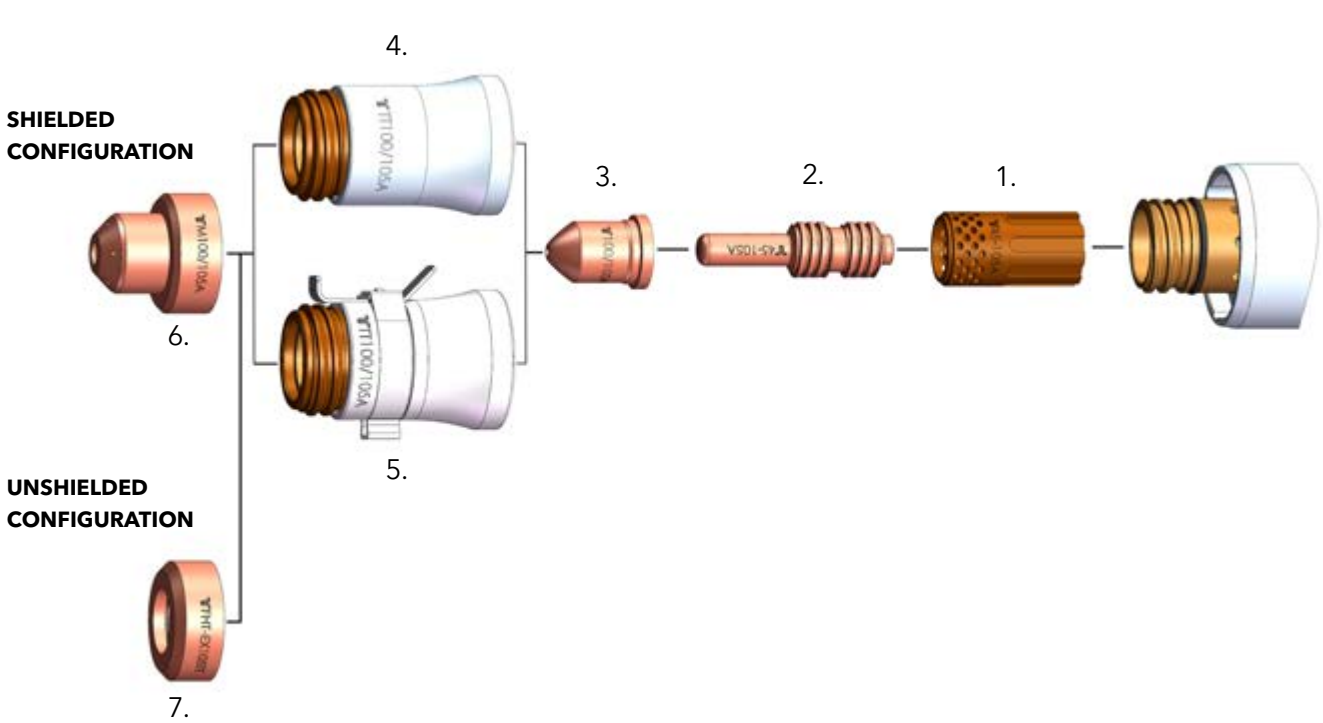


Item	Part No.	Description	Pcs	Item	Part No.	Description	Pcs
1.	EX-5-404-051	Swirl Ring 45-105 A	1	6.	EX-5-410-055	Nozzle 85 A	1
2.	EX-5-401-051	Electrode 45-105 A (pkg.5pcs)	1	7.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1
3.	EX-5-410-051	Nozzle 45 A	1	8.	EX-5-415-052	Nozzle Retaining Cap 45-85 A w/IHS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

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

CONSUMABLES

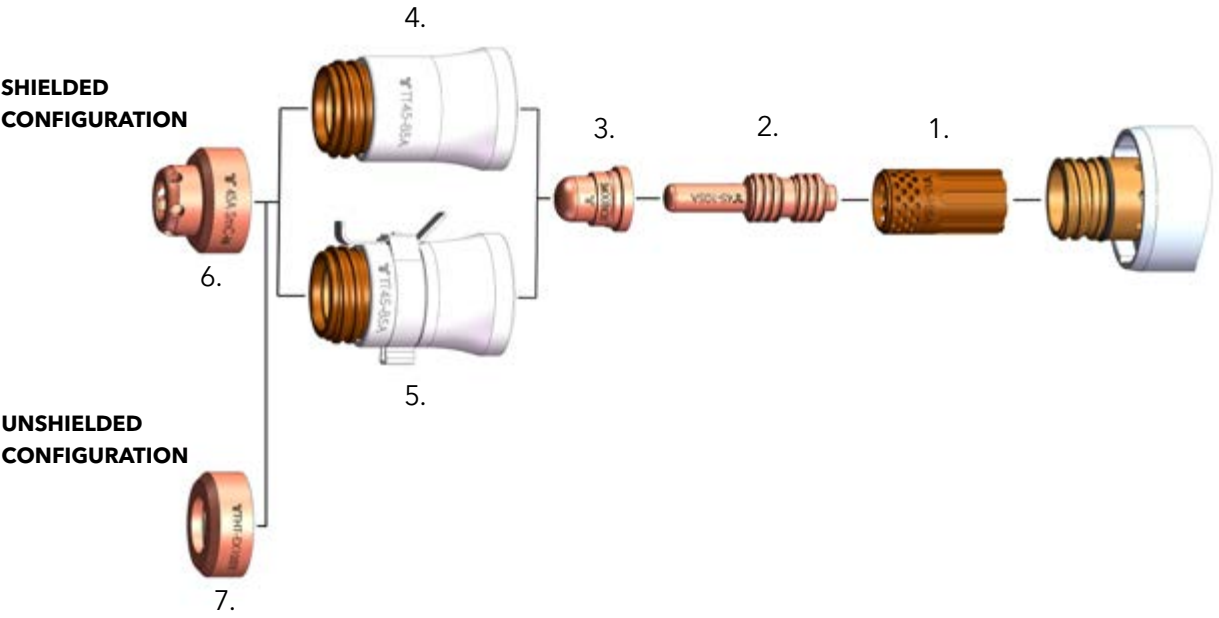
MACHINE TORCH CONSUMABLES - 100-105 A



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 (pkg. 5pcs)	1
3.	EX-5-410-056	Nozzle 100/105 A	1
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

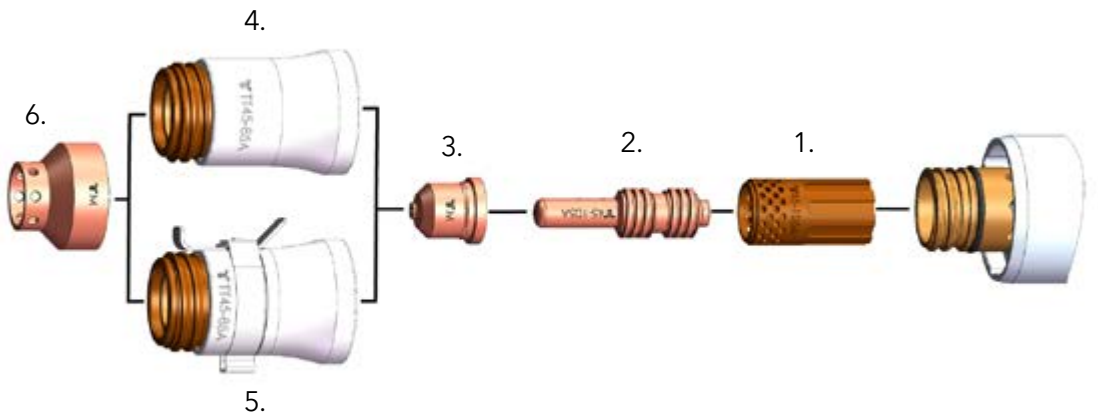
CONSUMABLES

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 (pkg.5pcs)	1	6.	EX-5-422-050	Machine Shield 40/45 A Smoothline	1
3.	EX-5-410-050	Nozzle Smoothline	1	7.	EX-5-423-001	Deflector	1
4.	EX-5-415-050	Nozzle Retaining Cap 45-85 A	1				

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 (pkg.5pcs)	1	5.	EX-5-415-052	Nozzle Retaining Cap 45-85A w/IHS Tab	1
3.	EX-5-445-001	Marking Nozzle	1	6.	EX-5-445-002	Marking Shield	1

EX-TRA-FIRE® I25HD

INDUSTRIAL CUTTING.
HEAVY-DUTY PERFORMANCE.

SOLUTIONS / INDUSTRIES



Automotive and
transportation



Steel mills and
steel service centers



Structural



Shipyards and
Offshore



Heavy fabrication



EX-TRAFIRE® 125HD



IMPRESSIVE PERFORMANCE



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

READY FOR INDUSTRY 4.0



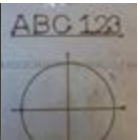
- + Industry leading connectivity
- + CAN, RS 485 and RS 422 interfaces (optional)
- + Easy monitoring
- + Expandable and updatable

HIGHEST FLEXIBILITY



- + Plate thicknesses up to 2 1/4 inches 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®EX125TT



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

EX-TRAFIRE® 125HD

SPECIFICATIONS

Cutting current [A]**	20 - 125 A
Modes	Cutting / Gouging / Grid / Marking
Duty cycle @ 40 °C	100 %
Rated output voltage [V] DC	180
Severance cutting capacity [inch]	2 1/4"
Piercing cutting capacity [inch]	1"
Recommended cutting capacity [inch]	1 3/4"
Plasma gas	Air / Nitrogen / Argon**
Air flow [cfh/psi]	550 / 72
CNC interface / CAN BUS interface	optional
Preadjusted voltage divider ratio***	50:1
Input voltage [V] AC	3 x 480 or 3 x 575 ± 15%
Frequency [Hz]	50 / 60
Dimensions W×L×H [inch]	12.5" x 24.75" x 21.50"
Weight [lbs]	105
Certification depending on region	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

*values for low alloy steel, e. g. MS S235JR
**10A with optional Finmarking upgrade
*** when equipped with optional CNC interface



4 DIFFERENT OPERATION MODES

The plasma cutting systems in the EX-TRAFIRE®HD range excel at meeting demanding requirements during continuous operation. The powerful EX-TRAFIRE®125HD plasma cutting system, with a 100% duty cycle, is the perfect solution for challenging heavy-duty industrial applications.



EX-TRAFIRE® 125HD

ORDERING INFORMATION

Description	Length	Part No.
MANUAL PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®125HD/CSA/3x440-480V Hand System/FHT-EX®125TTH Torch 26.2 ft/H Starter Kit	26.2 ft	EX-6-010-007
EX-TRAFIRE®125HD/CSA/3x380V Hand System/FHT-EX®125TTH Torch 26.2 ft/H Starter Kit	26.2 ft	EX-6-010-009
EX-TRAFIRE®125HD/CSA/3x380V Hand System/FHT-EX®125TTH Torch 49.2 ft /H Starter Kit	49.2 ft	EX-6-010-010
EX-TRAFIRE®125HD/CSA/3x575/600V Hand System/FHT-EX®125TTH Torch 26.2 ft/H Starter Kit	26.2 ft	EX-6-010-011
EX-TRAFIRE®125HD/CSA/3x575/600V Hand System/FHT-EX®125TTH Torch 49.2 ft /H Starter Kit	49.2 ft	EX-6-010-012
EX-TRAFIRE®125HD/CSA/3x440-480V Hand System/FHT-EX®125TTH Torch 49.2 ft /H Starter Kit	49.2 ft	EX-6-010-008
MECHANIZED PLASMA CUTTING SYSTEMS		
EX-TRAFIRE®125HD/CSA/3x440-480V Machine System/FULLY EQUIPPED/FHT-EX®125TTM Torch 26.2 ft/H Starter Kit	26.2 ft	EX-6-011-007
EX-TRAFIRE®125HD/CSA/3x440-480V Machine System/FULLY EQUIPPED/FHT-EX®125TTM Torch 49.2 ft/H Starter Kit	49.2 ft	EX-6-011-008
EX-TRAFIRE®125HD/CSA/3x440-480V Machine System/STD EQUIPPED/FHT-EX®125TTM Torch 26.2 ft/H Starter Kit	26.2 ft	EX-6-013-001
EX-TRAFIRE®125HD/CSA/3x440-480V Machine System/STD EQUIPPED/FHT-EX®125TTM Torch 49.2 ft/H Starter Kit	49.2 ft	EX-6-013-002
EX-TRAFIRE®125HD/CSA/3x575/600V Machine System/FULLY EQUIPPED/FHT-EX®125TTM Torch 26.2 ft/H Starter Kit	26.2 ft	EX-6-011-011
EX-TRAFIRE®125HD/CSA/3x575/600V Machine System/FULLY EQUIPPED/FHT-EX®125TTM Torch 49.2 ft/H Starter Kit	49.2 ft	EX-6-011-012
EX-TRAFIRE®125HD/CSA/3x575/600V Machine System/STD EQUIPPED/FHT-EX®125TTM Torch 26.2 ft/H Starter Kit	26.2 ft	EX-6-013-003
EX-TRAFIRE®125HD/CSA/3x575/600V Machine System/STD EQUIPPED/FHT-EX®125TTM Torch 49.2 ft/H Starter Kit	49.2 ft	EX-6-013-004
EX-TRAFIRE®125HD/CSA/3x380V Machine System/STD EQUIPPED/FHT-EX®125TTM Torch 26.2 ft/H Starter Kit	26.2 ft	EX-6-011-009
EX-TRAFIRE®125HD/CSA/3x380V Machine System/STD EQUIPPED/FHT-EX®125TTM Torch 49.2 ft/H Starter Kit	49.2 ft	EX-6-011-010
PLASMA CUTTING UNITS		
EX-TRAFIRE® 125HD/CSA/200-600V (MV) power supply unit/FULLY EQUIPPED	EX-6-001-005	
EX-TRAFIRE® 125HD/CSA/3x440-480V power supply unit/STD EQUIPPED	EX-6-003-005	
EX-TRAFIRE® 125HD/CSA/3x440-480V power supply unit/FULLY EQUIPPED	EX-6-001-001	
EX-TRAFIRE® 125HD/CSA/3x380V power supply unit/STD EQUIPPED	EX-6-003-004	
EX-TRAFIRE® 125HD/CSA/3x575-600V power supply unit/STD EQUIPPED	EX-6-003-006	
EX-TRAFIRE® 125HD/CSA/3x575-600V power supply unit/FULLY EQUIPPED	EX-6-001-003	

ACCESSORIES

Description	Pcs	Part No.
CNC Interface 14-pin Plug Kit	1	EX-0-803-001
CNC Interface connection lead 9.8 ft	1	EX-0-803-003
CNC Interface connection lead 19.6 ft	1	EX-0-803-004
CAN bus connection cable 32.8 ft	1	EX-0-803-006
CAN bus connection cable 16.4 ft	1	EX-0-803-007
RS422 bus connection cable 32.8 ft	1	EX-0-803-008
RS422 bus connection cable 16.4 ft	1	EX-0-803-009
Universal connection cable 32.8 ft	1	EX-0-803-010
Universal connection cable 16.4 ft	1	EX-0-803-011
Silicone Grease .8 oz	1	EX-0-805-001
Work lead with clamp 300 A/13.1 ft/6 AWG/EU-plug 2-2/0 AWG	1	EX-5-543-037
Work lead with clamp 300 A/26.2 ft/6 AWG/EU-plug 2-2/0 AWG (ON REQUEST)	1	EX-5-543-001
Work lead with clamp 300 A/49.2 ft/6 AWG/EU-plug 2-2/0 AWG (ON REQUEST)	1	EX-5-543-002
Work lead with clamp 300 A/75.4 ft/6 AWG/EU-plug 2-2/0 AWG (ON REQUEST)	1	EX-5-543-003

EX-TRAFIRE® 125HD



FRONT VIEW



BACK VIEW



SIDE VIEW

A background image showing a Thermacut Extrafire 450 plasma cutting torch and its power source. The torch is positioned vertically, and the power source is to its right. The background is dark and slightly blurred.

THINK FRESH. CUT ORANGE.

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PHONE: +1(800)932-8312
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#EXTRAFIRE

