

INDUSTRIAL CUTTING. HEAVY-DUTY PERFORMANCE.

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



Automotive and
Transportation



Education and
Training



General
Fabrication



THINK FRESH. CUT ORANGE.

THERMACUT® comes up with fresh ideas for cutting technology. Benefit from innovative, reliable, powerful and highly efficient cutting solutions.



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

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HD85_10-2022_EN | Note: Specific captions are subject to change without notice. Products may vary from those pictured. Copyright by Thermacut

THERMACUT®
THE CUTTING COMPANY®

PLASMA CUTTING SYSTEM

EX-TRAFIRE® 85HD



CUTTING MAX.
45 mm +
DUTY CYCLE
100% / 85 A
INCL.
MARKING

WWW.EX-TRAFIRE.COM



EX-TRAFIRE® 85HD PLASMA CUTTING SYSTEM.

IMPRESSIVE PERFORMANCE



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

HIGHEST FLEXIBILITY



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

SIMPLE OPERATION



- + Large 4" LCD color display
- + Clear control panel
- + Self-explanatory icons
- + TCS for quick torch replacement

OPTIMAL COST-EFFECTIVENESS



- + Low investment costs
- + 20% longer consumable lifetime
- + Low operating costs
- + 100% duty cycle for maximum productivity

NEW CUTTING TORCH FHT-EX® 105TT



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

MARKING



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

READY FOR INDUSTRY 4.0



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

AUTOMATIC SETTINGS



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

EX-TRAFIRE® 85HD

PLASMA CUTTING SYSTEM.



SPECIFICATION	
Severance [mm]	45+ ⁽¹⁾
Recommended [mm]	25 ⁽¹⁾
Piercing [mm]	25 ⁽¹⁾
Gouging removal [kg/h]	4.5+

DUTY CYCLE (40 °C / 145 V)	
100 %	85 A

OUTPUT (VDC)	
Nominal [V]	160
Extra Boost [V]	200

INPUT	
Voltage (VAC) [V/Hz]	3x400±15% ⁽²⁾ 50/60
Compressed air flow [lpm@bar]	101@5.2
Compressed air flow [lpm@psi]	101@75
Pressure (max.) [bar/psi]	10/145

MACHINE DATA	
Dimensions W×L×H [mm]	560x265x400
Weight [kg]	24

TORCH (HAND/MACHINE)	
FHT-EX® 105TT	

Designed to interface with a variety of CNC machines

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

(2) suitable for generator use