

Cutmaster® 30+

The total portable plasma cutting package



Cutmaster 30+ is the perfect combination of power and portability for hand-held plasma cutting machine. Plus means more, so we've added a user-friendly 4.3 in. TFT LCD screen and upgraded features that give you even more control and flexibility to master any cut up to 10 mm (3/8 in.). Together with the SL60 1Torch, it all adds up to the total plasma cutting package.

Recommended pierce and cut capacity: 10 mm (3/8 in.)

Maximum edge cut capacity: 16 mm (5/8 in.)

Industry

- Industrial and General Fabrication
- Light Fabrication
- Industrial Production & Manufacturing
- Automotive Bodies
- Hobbyist
- Agricultural Equipment
- HVAC
- Repair and Maintenance
- Pipeline
- Training Schools

- Portable and durable with three handles and lightweight, industrial all-weather housing
- Bright 4.3 in. TFT LCD display with glove-friendly adjustment knob simplifies use and provides greater control and flexibility
- Dual input 120-240 V, 1 ph power with automatic voltage detection that sets max output amperage
- Comes with industrial SL60 1Torch featuring 2T/4T function, safety trigger lock, and double-tap trigger to conserve bottled air
- Switch between normal and grate cutting modes
- Automatic air pressure detection and post-cut air purge to expand consumable life
- 40% duty cycle @ 30 A (120V)
100% @ 20 A (120V)
- Cutmaster Black Series consumables included for up to 60% longer life
- Industry leading 3-year warranty on power supply and 1-year warranty on torch and leads

Visit esab.com for more information.



Simple and intuitive TFT LCD panel

Cutmaster® 30+

Specifications	
Amperage Output	10 – 30 A, continuously adjustable
Recommended Generator Size	6.5 kW
Recommended Cut and Pierce Capacity	up to 10 mm (3/8 in.)
Maximum Edge Cut Capacity	16 mm (5/8 in.)
Open Circuit Voltage (OCV)	290 V
Input Voltage	120 – 240 VAC +/- 10%, 50/60 Hz, 1ph
Rated Duty Cycle	40% @ 30 A, 100% @ 20 A
Amperage Draw (at Maximum Cut Capacity)	19 A @ 230 V, 31 A @ 120 V (limited output)
Input Power Cable and Plug	3 m (10 ft) 1 ph 12 AWG 3/C with NEMA 6-50P plug
Work Lead with Ground Clamp	4 m (13 ft) 10mm ² work cable with 25 mm Dinse connection
Gas Requirements	Compressed air
Operating Temperature Range	-10° to + 50° C (14 – 122° F)
Compressed Air Pressure Requirement	90 – 125 psi (6.2 – 8.6 bar) (0.62 – 0.86 Mpa)
Compressed Air Flow Requirement	80 – 150 l/min (170 – 350 cfh)
SL60 Torch Duty Cycle	100% at 30 A @ 150 l/min (350 cfh) air flow
Torches – for use with Cutmaster 30+	SL60 1Torch (supplied)
Enclosure Class	IP23S
Certifications	CSA
Dimensions L x W x H	465 x 200 x 315 mm (18.3 x 7.9 x 12.4 in.)
Weight (Including Torch)	11 kg (24.25 lbs)

Ordering Information	
Description	Part Number
TD Cutmaster 30+ Package, 120 – 240 V 1 ph (NEMA 6-50 plug, 115 V adapters) CSA *	1-3000-1
Torches	
SL60 1Torch and Lead 6.1 m (20 ft) 75° Head	7-5204
SL60 1Torch and Lead 15.2 m (50 ft) 75° Head	7-5205

*Cutmaster 30+ power supply, SL60 75° torch with lead, 3 m (10 ft) work lead with ground clamp, consumables kit, regional input power plugs per above, 1/4 in. NPT air fitting. Cutmaster 30+ is compatible with all 1Torch ATC torch connections.

Options & Accessories	
Description	Part Number
Cutting Guide Kit	7-7501
Circle Cutting Guide Kit	7-3291
Straight Line Cutting Guide	7-8911
Yellow Leather Lead Cover, 7.6 m (25 ft)	0700009088
Black Leather Lead Cover, 7.6 m (25 ft)	0700009089
Multi-Purpose Cart	7-8888
Single Stage Air Filter Kit	7-7507
Two Stage Air Filter Kit	9-9387
Shoulder Strap	0445197880

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Wear & Spare Parts 1Torch	
Description	Part Number
Cutmaster Black Series Extended Life Electrode	9-8214
Electrode, SL60	9-8215
Start Cartridge, SL60	9-8213
Shield Cup, SL60	9-8218
Shield Cup, SL60, Max Life	9-8237
Shield Cap, Gouging, Max Life (A – D)	9-8241
Shield Cap Deflector, Max Life (All)	9-8243
Cut Shield, Max Life (20 – 40 A)	9-8244
Tip – Drag (20 A)	9-8205
Tip – Drag (30 A)	9-8206
Tip – “A” Gouging, (40 A Max), Profile: Shallow/Narrow	9-8225
Torch “O” Ring 1	8-3487
Torch “O” Ring 2	8-3486
Stand Off Cutting Guide	9-8251

1TORCH Consumables Parts Application Guide

For SL60 and SL100 manual cutting and gouging operations.



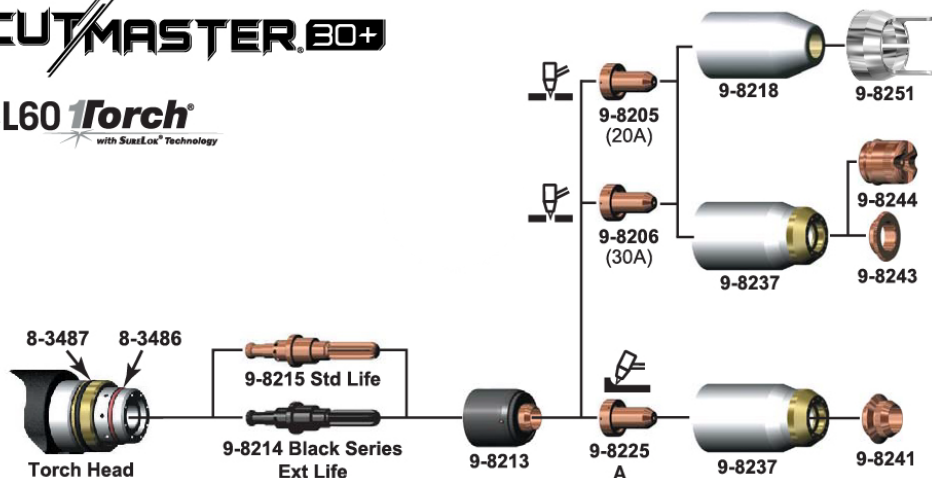
DRAG SHIELD CUTTING This is an operator-friendly method of cutting while maintaining a constant standoff distance. For metal thickness greater than 6 mm (1/4 in), simply drag the shield cap in contact with the work piece. Use the shield cup body with the appropriate drag shield cap matching the current level being used. This method is not recommended for cutting light-gauge sheet metal.



STANDOFF CUTTING The preferred method of cutting metal. Provides maximum visibility and accessibility. Shield cup for standoff cutting (with the torch tip 3 to 6 mm (1/8 to 1/4 in) from the work piece). Use the shield cup body together with the deflector for extended parts life and improved resistance to reflect heat. This combination provides cutting results similar to the single piece shield cup, as well as easy changeover to gouging or drag shield cutting.



GOUGING A simple method of metal removal by angling the torch to a lead angle of 35°–45° and using a gouging tip. While maintaining a constant standoff distance, this allows for only a partial penetration into the work, thus removing metal from the surface. The amount of current, travel speed, standoff distance, lead angle, and tip size will determine the amount of material removed and the profile of the gouge. You can use the shield cup body with either the gouging shield cap or the shield deflector. Also, you can use the single piece shield cap.



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Semi-Mechanized Systems

For straight line cutting and gouging applications controlled with a simple start stop switch, ESAB's MechPak provides everything you need to allow precision setup and control for many semi-automated applications. The MechPak is compatible with all Cutmaster plasmas that contain the convenient ATC torch style quick connection.

Step #1: MechPaks	
Description	Part Number
MechPak, 7.6 m (25 ft) Kit	7-7725
MechPak, 15.2 m (50 ft) Kit	7-7750

Step #2: Optional Accessories	
Description	Part Number
VCM 201HS Cutting Machine	0200-0225
1.8 m (6 ft) Track	0212-0005
2.7 m (9 ft) Track	0212-0019
3.7 m (12 ft) Track	0212-0018
Pinion Assembly 35 mm (1.375 in) Torch Barrel Diameter	7-2827



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