

Cutmaster® 40+

The total portable plasma cutting package



Cutmaster 40+ is the perfect combination of power and portability for hand-held plasma cutting machines. Plus means more, so we've added a user-friendly 10.9 cm TFT LCD screen and upgraded features that give you even more control and flexibility to master any cut up to 12 mm. Together with the SL60 1Torch, it all adds up to the total plasma cutting package.

Recommended pierce and cut capacity: 12 mm

Maximum edge cut capacity: 25 mm

(depending on material)

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 10.9 cm 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 @ 40 A with cutting voltage 135 V, 100% @ 20 A with cutting voltage 120 V
- 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



Simple and intuitive TFT LCD panel

Visit **esab.com** for more information.

Cutmaster® 40+

Specifications	
Amperage Output	10 – 40 A, continuously adjustable
Recommended Generator Size	8 kW (or higher)
Recommended Cut and Pierce Capacity	up to 12 mm
Maximum Edge Cut Capacity*	25 mm
Input Voltage	120/240 VAC +/- 10%, 50/60 Hz, 1 ph
Rated Duty Cycle @ 40° C	40% @ 40 A with cutting voltage 135 V 100% @ 20 A with cutting voltage 120 V
Amperage Draw (at Maximum Cut Capacity)	27 A @ 230 V, 31 A @ 120 V (limited output)
Input Power Cable and Plug	3 m, 2.5 mm ² with Schuko plug
Work Lead with Ground Clamp	3 m, 10 mm ² work cable with 25 mm ² connection
Gas Requirements	Compressed air
Operating Temperature Range	-10° C to + 50° C
Compressed Air Pressure Requirement	6.2 – 8.6 bar (90 – 125 psi) (0.62 – 0.86 Mpa)
Compressed Air Flow Requirement	142 – 235 l/min (350 – 500 scfh)
SL60 Torch Duty Cycle	100% @ 60 A with 165 l/min (350 scfh) air flow
Torches – for use with Cutmaster 40+	SL60 1Torch (supplied)
Enclosure Class	IP23S
Certifications	CE, UKCA
Dimensions L x W x H	465 x 200 x 315 mm
Weight	11.5 kg

**depending on material.*

Ordering Information	
Description	Part Number
ESAB Cutmaster 40+ Package, 230 V 1 ph (Shuko plug) CE/UKCA *	0559141004
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 40+ power supply, SL60 75° torch and lead 5 m, work lead with ground clamp 3 m, consumables kit, regional input power plugs per above, regional 1/4" air fitting. Cutmaster 40+ is compatible with all Torch 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 Torch

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 – Drag (40 A)	9-8207
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 1/4 in. (6 mm), simply drag the shield cap in contact with the work piece. Use the shield cap matching the current level being used. This method is not recommended for cutting light-gauge sheet metal.



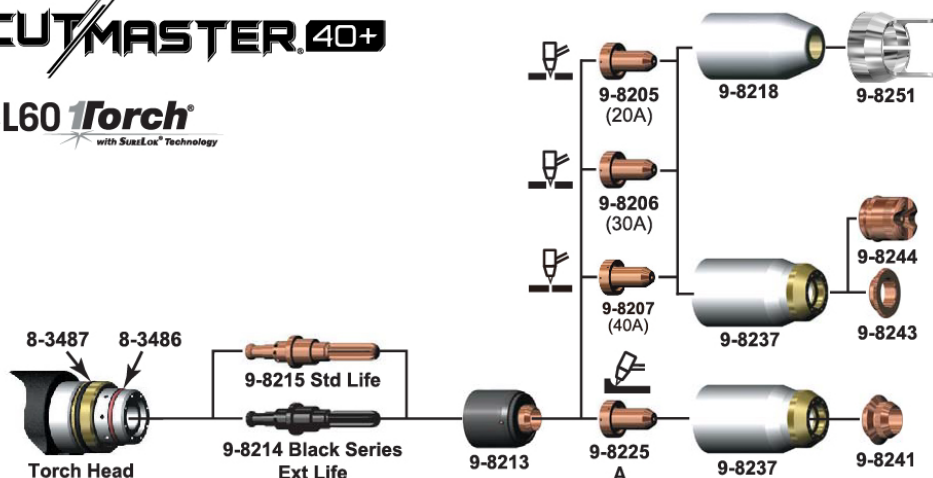
STANDOFF CUTTING The preferred method of cutting metal. Provides maximum visibility and accessibility. Shield cup for standoff cutting (with the torch tip 1/8 in. (3 mm) to 1/4 in. (6 mm) from the work piece). Use the shield cup body together with the deflector for extended parts life and improved resistance 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.

CUTMASTER 40+

SL60 1Torch®
with SureLoc® Technology



Cutmaster® 40+

Semi-Mechanized Systems

For straight line cutting and gouging applications controlled with a simple start stop switch, MechPak from ESAB 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.

Ordering Information	
Description	Part Number
MechPak, 7.6 m (25 ft) Kit	7-7725
MechPak, 15.2 m (50 ft) Kit	7-7750



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