

Cutmaster® 70+

The total portable plasma cutting package



Cutmaster 70+ 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 (4.3 in.) TFT LCD screen and upgraded features that give you even more control and flexibility to master any pierce and cut up to 19 mm. Together with the SL60 1Torch, it all adds up to the total plasma cutting package.

Recommended pierce and cut capacity: 19 mm

Maximum edge cut capacity: Up to 38 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 (4.3 in.) TFT LCD display with glove-friendly adjustment knob simplifies use and provides greater control and flexibility
- Input 400 V, 3-phase power
- 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
- Post-cut air purge to expand consumable life
- 50% duty cycle @ 70 A with cutting voltage 150 V, 100% @ 50 A with cutting voltage 150 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
- CNC functionality with pre-installed 14 pin CPC receptacle and voltage divider which allows :
 1. Start/Stop
 2. OK to Move
 3. Divided arc voltage (ratio 20:1, 30:1, 40:1, 50:1, 80:1)

Visit esab.com for more information.



Simple and intuitive TFT LCD panel

Cutmaster® 70+

| Specifications | |
|--|---|
| Amperage Output | 15 – 70 A, continuously adjustable |
| Recommended Generator Size | 20 kW (or higher) |
| Recommended Cut and Pierce Capacity | up to 19 mm |
| Maximum Edge Cut Capacity* | 38 mm |
| Input Voltage | 400 VAC +/- 10%, 50/60 Hz, 3ph |
| Rated Duty Cycle @ 40° C | 50% @ 70 A with cutting voltage 150 V |
| Recommended Circuit Breaker Size (at Maximum Cut Capacity) | 32 A |
| Amperage Draw (at Maximum Cut Capacity) | 21 A |
| Input Power Cable | 3 m, 12 AWG 4/C or 4.0mm ² without 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 (300 – 500 scfh) |
| SL60 Torch Duty Cycle | 100% @ 60 A with 165 l/min (350 scfh) air flow |
| Torches – for use with Cutmaster 70+ | SL60 1Torch (supplied) |
| Enclosure Class | IP23S |
| Certifications | CE, UKCA |
| Dimensions L x W x H | 465 x 200 x 315 mm |
| Weight | 16 kg |

*depending on material.

| Ordering Information | |
|--|-------------|
| Description | Part Number |
| ESAB Cutmaster 70+ Package, 400 V 3 ph CE/UKCA * | 0559170004 |
| 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 70+ power supply, SL60 75° torch and lead 5 m, work lead with ground clamp 3 m, consumables kit, regional 1/4" air fitting.
Cutmaster 70+ 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 |
|--|-------------|
| Electrode, SL60 | 9-8215 |
| Cutmaster Black Series Extended Life Electrode | 9-8214 |
| 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 |
| A size gouging tip | 9-8225 |
| B size gouging tip | 9-8226 |
| Cutting tip 20A | 9-8205 |
| Cutting tip 30A | 9-8206 |
| Cutting tip 40A | 9-8207 |
| Cutting tip 50A | 9-8209 |
| Cutting tip 70A | 9-8231 |
| Cutting shield cap (40A) | 9-8244 |
| Cutting shield cap (50A) | 9-8235 |
| Cutting shield cap (70A) | 9-8236 |
| 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.



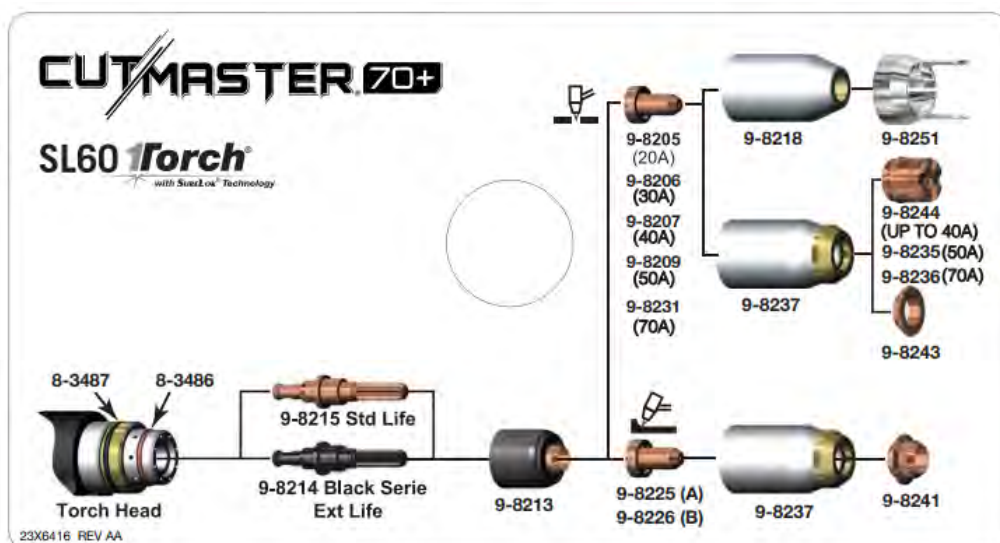
DRAG SHIELD CUTTING This is an operator-friendly method of cutting while maintaining a constant standoff distance. For metal thickness greater than 1/4 in. (6 mm), simply drag the shield cap in contact with the work piece. Use the shield cup body with the appropriate drag shield cap matching the current 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 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® 70+

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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