# Cutmaster® 70+

# The total portable plasma cutting package



















### **Industry**

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



Simple and intuitive TFT LCD panel

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)

- Portable and durable with three handles and lightweight, industrial all-weather housing
- Bright 10.9 cm (4.3 in.) TFT LCD display with glovefriendly 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.



# 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, 4.0mm² without plug
Work Lead with Ground Clamp	3 m, 10 mm <sup>2</sup> work cable with 25 mm <sup>2</sup> connection
Gas Requirements	Compressed air
Operating Temperature Range	-10° C to + 50° C
Compressed Air Pressure Requirement	6.2 – 8.6 bar (90-125psi ) (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 I/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

<sup>\*</sup>depending on material.

Ordering Information		
Description	Part Number	
TD Cutmaster 70+ Package, 400 V 3 ph CE/UKCA *	1-7000-4	
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	

<sup>\*</sup>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.



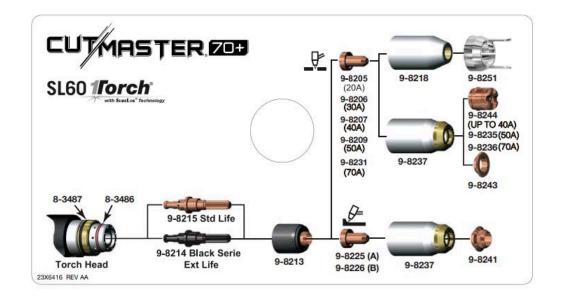
DRAG SHIELD CUTTING This is an operatorfriendly method of cutting while maintaining a constant standoff distance. For metal thickness greater than 1/4 in. (6 mm), simply drag the shield cap in contact with the work piece. Use the shield cup body with the appropriate drag shield cap matching the current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





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### **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	

