

# Cutmaster® 70+

The total portable plasma cutting package

**THERMAL  
DYNAMICS**  
AN ESAB® BRAND



## 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 cut up to 30 mm (1 1/8 in.). Together with the SL60 1Torch, it all adds up to the total plasma cutting package.

**Pierce Capacity: 20 mm (3/4 in.)**

**Cutting Capacity: 30 mm (1 1/8 in.)**

**Maximum Severance: 38 mm (1 1/2 in.)**

*Results may vary based on material used.*

- 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
- Includes 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
- Compatible with all ATC torch connections
- Includes a complete package of general cutting and gouging consumables for most applications
- 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			
Input Voltage	120 – 240 VAC +/-15% 50/60Hz, 1 Φ		480 VAC +/- 15%, 50/60 Hz, 3 Φ
Certifications	cETLus (NA)		
Amperage Output	15 – 70 A, continuously adjustable		
Recommended Generator Size	20+ kW		
Pierce Capacity*	Up to 20 mm (3/4 in.)		
Cutting Capacity*	30 mm (1 1/8 in.) @ 153 mm/min (6 ipm)		
Maximum Severance*	38 mm (1 1/2 in.) @ 90 mm/min (1 1/2 ipm)		
Open Circuit Voltage (OCV)	319 V		
Rated Duty Cycle	120 VAC 40% @ 25 A / 120 V 100% @ 16 A / 120 V	240 VAC 40% @ 70 A / 150 V 100% @ 40 A / 150 V	50% @ 70 A / 150 V 100% @ 50 A / 150 V
Circuit Breaker	20 A (120 VAC)	90 A (240 VAC)	25 A
Amperage Draw	30 A (120 VAC)	47.5 A (240 VAC)	19.2 A
Input Power Cable and Plug	3 m (10 ft), 10 AWG, with NEMA 6-50P Plug		3 m (10 ft), 11 AWG without plug
Weight	17.5 kg (38.6 lbs)		17 kg (37.5 lbs)
Gas Requirements	Compressed air Clean, dry, oil-free per ISO 8573-1 Class 1.2.2 Compressed Nitrogen : 99.95% pure		
Operating Temperature Range	-10° to + 50° C (14° F to 122° F)		
Inlet Air Pressure Requirement	6.2 – 8.6 bar (90 – 125 psi)		
Recommended Outlet Air Pressure	5.2 bar (75 psi)		
Inlet Air Flow Requirement	142 – 235 l/min (300 – 500 cfm)		
Torch Duty Cycle	100% at 60 A @ 189 l/min (400 cfm) air flow and 5.2 bar (75 psi) pressure		
Enclosure Class	IP23S		
Dimensions L x W x H	465 x 200 x 315 mm (18.3 x 7.9 x 12.4 in.)		

\* Depending on material

Ordering Information	
Description	Part Number
TD Cutmaster 70+ Package, 1 Φ 120-240V cETLus (NA) * incl 120V adapter	1-7000-1
TD Cutmaster 70+ Package, 3 Φ 480V (without plug) cETLus (NA) *	1-7000-2

\*Cutmaster 70+ power supply, 5 m (16 ft) SL60 75° torch with lead, 3 m (10 ft) work lead with 10 mm² (4 AWG) ground clamp 9 mm (3/8 in.) OKC/dinse 10-25 connector, consumables kit, regional 1/4" air fitting

Options & Accessories	
Description	Part Number
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
SL100 Mechanised ATC 180° 7.6 m (25 ft)	7-5215
SL100 Mechanised ATC 180° 15.2 m (50 ft)	7-5216
Ground Clamp Dinse 25 mm lead (10 mm² OKC) - 3 m	0700400909
Cutting Guide Kit	7-7501
Circle Cutting Guide Kit	7-3291
Straight Line Cutting Guide	7-8911

# Cutmaster® 70+

Options & Accessories	
Description	Part Number
CNC Remote Cable 7.6 m (25 ft)	7-8911
CNC Remote Cable 15.2 m (50 ft)	9-8312
Leather Lead Cover 6.1 m (20 ft)	9-8313
Leather Lead Cover 15.2 m (50 ft)	9-1260
Multi-Purpose Cart	7-8888
Shoulder Strap	0445197880

Wear & Spare Parts 1Torch	
Description	Part Number
O-ring, 70-801, Black, BUNA N, 5/pack, SL60/SL100	8-3487
O-ring, 56-614, Red, SILICONE, 5/pack, SL60/SL100	8-3486
Lubricant O-ring, SL60/SL100	8-4025
Electrode, Standard, 5/pack, SL60/SL100	9-8215
Electrode, Black Series, 5/pack, SL60/SL100	9-8214
Start Cartridge, SL60/SL100	9-8213
Start Cartridge, Heavy Duty, SL60/SL100	9-8277
Shield Cup, Standard, for exposed tip, SL60/SL100	9-8218
Shield Cup, Max Life, for shielded tip, SL60/SL100	9-8237
Cutting/Drag Tip, 20A, 5/pack, SL60/SL100	9-8205
Cutting/Drag Tip, 30A, 5/pack, SL60/SL100	9-8206
Cutting/Drag Tip, 40A, 5/pack, SL60/SL100	9-8207
Cutting Tip, 40A, 5/pack, SL60/SL100	9-8208
Cutting Tip, 50-55A, 5/pack, SL60/SL100	9-8209
Cutting Tip, 60A, 5/pack, SL60/SL100	9-8210
Cutting/Drag Tip, 60A, 5/pack, SL60/SL100	9-8252
Cutting Tip, 70A, 5/pack, SL60/SL100	9-8231
Gouging Tip A (MAX 40 A), 5/pack, SL60/SL100	9-8225
Gouging Tip B (50-100A), 5/pack, SL60/SL100	9-8226
Gouging Tip C (60-120A), 5/pack, SL60/SL100	9-8227
Gouging Tip D (60-120A), 5/pack, SL60/SL100	9-8228
Shield Cap, Drag, 40 A, SL60/SL100	9-8244
Shield Cap, Drag, 50-60A, SL60/SL100	9-8235
Shield Cap, Drag, 70-100A, SL60/SL100	9-8236
Shield Cap, Gouging (A – D), SL60/SL100	9-8241
Shield Cap, Mechanised, 40 A, SL60/SL100	9-8245
Shield Cap, Mechanised, 50-60A, SL60/SL100	9-8238
Shield Cap, Mechanised, 70-100A, SL60/SL100	9-8239
Shield Cap Deflector, SL60/SL100	9-8243
Standoff Cutting Guide, 40 A, SL60/SL100	9-8251
Standoff Cutting Guide, 60-100A, SL60/SL100	9-8281
Ohmic Clip, for Max Life Shield Cup, SL60/SL100	9-8224
Ohmic Clip, for Standard Cup, SL60/SL100	9-8259

# 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.

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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