

# Cutmaster® 30+

The total portable plasma cutting package

**THERMAL  
DYNAMICS**  
AN ESAB BRAND



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 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.

**Pierce Capacity : 10 mm**

**Cutting Capacity: 12 mm**

**Maximum Severance : 16 mm**

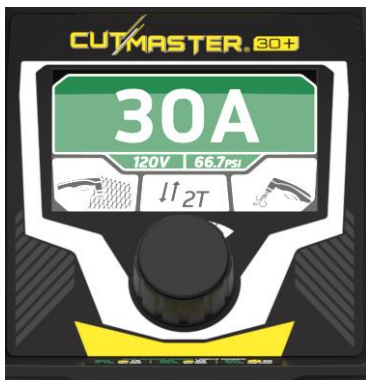
*Results may vary based on material used.*

## 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
- Automatic voltage detection that sets max output amperage
- 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
- Compatible with all ATC torch connections
- Includes a complete package of general cutting and gouging consumables for most applications
- Post-cut air purge to expand consumable life
- Industry leading 3-year warranty on power supply and 1-year warranty on torch and leads

Visit [esab.com](http://esab.com) for more information.



Simple and intuitive TFT LCD panel

# Cutmaster® 30+

| Specifications                  |   |
|---------------------------------|---|
| Input Voltage                   | 230 VAC +/- 15%, 50/60 Hz, 1 $\Phi$   |
| Certifications                  | CE, UKCA  |
| Amperage Output                 | 10 – 30 A, continuously adjustable  |
| Recommended Generator Size      | 6.5+ kW   |
| Pierce Capacity*                | Up to 10 mm   |
| Cutting Capacity*               | 12 mm @ 255 mm/min  |
| Maximum Severance*              | 16 mm @ 150 mm/min  |
| Open Circuit Voltage (OCV)      | 290 V   |
| Rated Duty Cycle                | 40% @ 30 A / 120 V<br>100% @ 20 A / 120 V   |
| Circuit Breaker                 | 30 A  |
| Amperage Draw                   | 19 A  |
| Input Power Cable and Plug      | 3 m, 2.5mm <sup>2</sup> with Shuko plug   |
| Weight                          | 11.5 kg   |
| Gas Requirements                | Compressed air Clean, dry, oil-free per ISO 8573-1 Class 1.2.2<br>Compressed Nitrogen : 99.95% pure |
| Operating Temperature Range     | -10° to + 50° C   |
| Inlet Air Pressure Requirement  | 6.2 – 8.6 bar (90 – 125 psi)  |
| Recommended Outlet Air Pressure | 4.6 bar (66.7 psi)  |
| Inlet Air Flow Requirement      | 142 – 235 l/min (300 – 500 cfh)   |
| Torch Duty Cycle                | 100% at 60 A @ 189 l/min (400 cfh) air flow and 5.2 bar (75 psi) pressure                           |
| Enclosure Class                 | IP23S   |
| Dimensions L x W x H            | 465 x 200 x 315 mm  |

\* Depending on material

| Ordering Information   |             |
|--|-------------|
| Description  | Part Number |
| TD Cutmaster 30+ Package, 1 ph $\Phi$ 230 V (Shuko plug) CE/UKCA * | 1-3000-4    |

\*Cutmaster 30+ power supply, 5 m SL60 75° torch with lead, 3 m work lead with 10 mm<sup>2</sup> ground clamp 9 mm 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 mm <sup>2</sup> OKC) - 3 m | 0700400909  |
| Cutting Guide Kit  | 7-7501      |
| Circle Cutting Guide Kit                                     | 7-3291      |
| Straight Line Cutting Guide                                  | 7-8911      |
| 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  |

# Cutmaster® 30+

## 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      |
| Gouging Tip A (MAX 40 A), 5/pack, SL60/SL100       | 9-8225      |
| Shield Cap, Drag, 40 A, SL60/SL100                 | 9-8244      |
| Shield Cap, Gouging (A – D), SL60/SL100            | 9-8241      |
| Shield Cap, Mechanised, 40 A, SL60/SL100           | 9-8245      |
| Shield Cap Deflector, SL60/SL100                   | 9-8243      |
| Standoff Cutting Guide, 40 A, SL60/SL100           | 9-8251      |
| Ohmic Clip, for Max-Life Shield Cup, SL60/SL100    | 9-8224      |
| Ohmic Clip, for Standard Cup, SL60/SL100           | 9-8259      |

## 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.



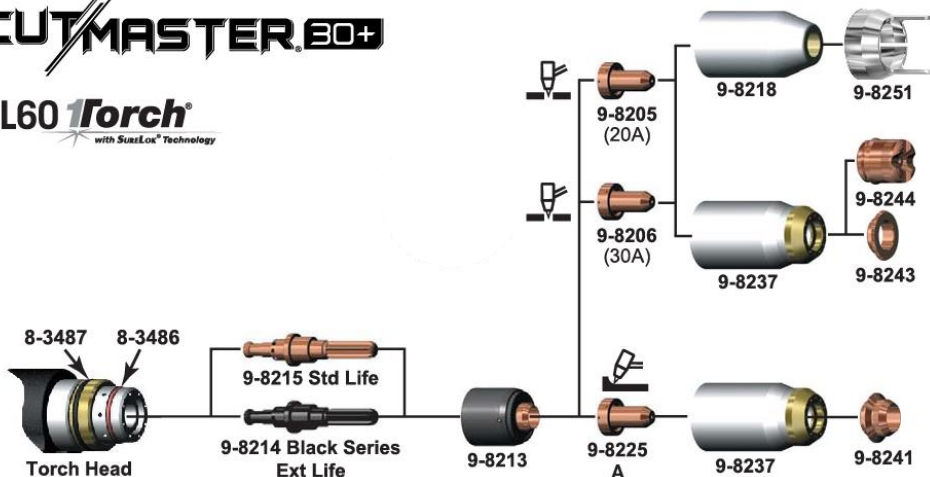
**STANDOFF CUTTING** The preferred method of cutting metal. Provides maximum visibility and accessibility. Shield cup for standoff cutting (with the torch tip 3 to 6 mm (1/8 to 1/4 in) from the work piece). Use the shield cup body together with the deflector for extended parts life and improved resistance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

**CUTMASTER 30+**

**SL60 1Torch®**  
with SuzuLoc™ Technology



# Cutmaster® 30+

## 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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