



Cutmaster[®] 40

Highest power-to-weight ratio in its class

The Cutmaster[®] 40 with SL60[™] 1Torch[®] is the perfect combination of end-user insight, advanced technology, and intelligent design.



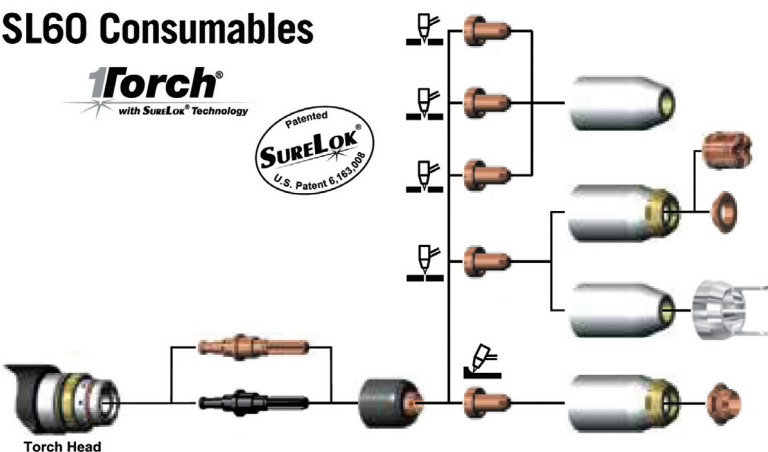
Packed with power and offering the highest power-to-weight ratio in its class, the Cutmaster 40 with SL60 1Torch also has best in class cutting arc length and the most empowering and engaging user experience no matter the application.



- Built for portability and durability with the integral multi-handle design
- 35% Duty Cycle depending on application. Automatic voltage input detection from 200-240V.
- Industrial SL60 1Torch with ATC[®] (Advanced Torch Connector)
- Up to 12 mm recommended pierce and cut capacity with up to 16 mm maximum sever
- Cutmaster Black Series electrode included for up to 60% longer life of consumable parts
- Industry leading 3 year warranty on power supply and 1 year warranty on torch

SL60 Consumables

1torch[®]
with SureLok[®] Technology



Industry

- Automotive Bodies
- Industrial and General Fabrication
- General Manufacturing
- HVAC
- Repair and Maintenance
- Training Schools

Specifications

Amperage Output	15 - 40 A, continuously adjustable
Recommended Generator Size	8.0 kW
Open Circuit Voltage (OCV)	280 V
Input Voltage	200-240 VAC +/-10%, 50/60Hz, 1ph
Rated Duty Cycle	35% @ 40 A 60% @ 30 A 100% @ 20 A
Amperage Draw *	I_{1eff} : 15.5 A @230V * 26A @ 230V
Input Power Cable	2.7 m length, 2.5mm ² input cable. 16A plug
Work Lead with Ground Clamp	4 m work cable with 50 mm connection
Gas Requirements	Compressed air
Operating Temperature Range	0° – 50° C
Operating Input Air Pressure Range	6.2 – 8.6 bar
Min Air Flow Requirements (cutting & gouging)	142-235 l/min
Recommended Cut	up to 12 mm
Maximum Sever	up to 16 mm
Pierce Rating	12 mm
SL60 Torch Duty Cycle	100% at 40 A @ 189 l/min air flow
Torches - for use with the Cutmaster 40	SL60 1Torch (supplied) SL60QD 1Torch
Dimensions L x W x H	460 x 200 x 320 mm
Weight	10 kg

* at Maximum Cut Capacity

Cutting Specifications

Plate Thickness	Recommended Cut Speed
1 mm	7670 mm/min
2 mm	6985 mm/min
4 mm	2667 mm/min
5 mm	1778 mm/min
6 mm	762 mm/min
9 mm	508 mm/min
13 mm	254 mm/min

Star International

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Ordering Information

Description	Star product no
ESAB Cutmaster 40, 1 ph with SL60 1Torch 16 ft (5 m) 90° Head	00600097
Torches	
SL60 1Torch and Lead 6.1 m 75° Head	00600098
SL60 1Torch and Lead 15.2 m 75° Head	00600099
SL60QD 1Torch and Lead 6.1 m 75° Head	00600100
SL60QD 1Torch and Lead 15.2 m 75° Head	00600101
SL60QD 1Torch Handle Assembly 75° Head (no leads)	00600102
SL60QD Lead 6.1 m	00600103
SL60QD Lead 15.2 m	00600104

Cutmaster 40 power supply, SL60 90° torch with lead, work lead with ground clamp, spare parts kit, 1/4" NPT air fitting with quick connect, and operating manual.

Cutmaster 40 is compatible with all 1Torch ATC torch connections.

Wear & Spare Parts 1Torch

Description	Star product no
Cutmaster Black Series Extended Life Electrode	00600105
Electrode	00600106
Start Cartridge	00600107
Stand off cutting guide	00600108
Shield Cup	00600109
Shield Cup Max Life	00600110
Shield Cap Gouging	00600111
Shield Cap (Drag only)	00600112
Deflector	00600113
Tip – Drag (20 A)	00600114
Tip – Drag (30 A)	00600115
Tip – Drag (40 A)	00600116
Tip – Standoff (40 A)	00600117
Tip – “A” Gouging, (40 A Max), Profile: Shallow/Narrow	00600118
Tip – “B” Gouging, (50 – 100 A), Profile: Deep/Narrow	00600119
Tip – “C” Gouging, (60 – 100 A), Profile: Moderate/Moderate	00600120
Tip – “D” Gouging, (60 – 120 A), Profile: Shallow/Wide	00600121

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Options & Accessories

Description	Star product no
Cutting Guide Kit (Deluxe)	00600137
Circle Cutting Guide Kit	00600138
Lead Extension, 4.6 m	00600141
Lead Extension, 7.6 m	0600142
Lead Extension, 15.2 m	00600143
Leather Lead Covers 6.1 m	00600144
Multi-Purpose Cart	00600145
Radius/Roller Cutting Guide Kit	00600146
Single Stage Air Filter Kit	00600148
Straight Line Cutting Guide	00600149
Two Stage Air Filter Kit	00600150

1Torch consumables parts application guide

For SL60® / SL100® Manual Cutting and Gouging Operations.



DRAG TIP CUTTING The preferred method of cutting light gauge metal up to 6 mm thickness. Produces the best cut quality narrowest kerf width, fastest cutting speeds, and with little to no distortion. Traditional drag cutting was limited to 40 Amps or less; now with ESAB TRUE Cut Drag Tip Series™ technology, it is possible to cut up to 60 Amps. For best results, use the Shield Cup with the torch tip in direct contact with the work (up to 60 Amps).



STANDOFF CUTTING The preferred method of cutting metal thicker than 6 mm and at current levels above 60 Amps. Provides maximum visibility and accessibility. Shield cup for 'standoff' cutting (with the torch tip 3 mm to 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.







DRAG SHIELD CUTTING This is an operator-friendly method of cutting while maintaining a constant standoff distance. For metal thickness greater than 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.



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 cup.

Gouging profiles

	Output range	Depth	Width
 Tip A	40A (MAX)	Shallow	Narrow
 Tip B	50-100A	Deep	Narrow
 Tip C	60-120A	Moderate	Moderate
 Tip D	60-120A	Shallow	Wide

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