Highest power-to-weight ratio in its class







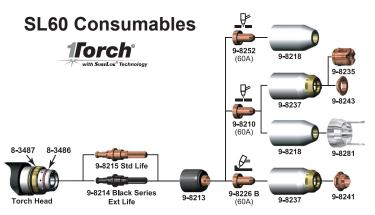
Industry

- Agricultural Equipment
- Automotive Bodies
- Construction
- Fabrication
- General Manufacturing
- HVAC
- Repair and Maintenance
- Training Schools

The Cutmaster[®] 60i with SL60QD[™] 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 60i with SL60QD 1Torch[®] also has best in class cutting arc length and the most empowering and engaging user experience no matter the application. Cutmaster MechPak is also available for easy integration into semi-automatic cutting processes.

- Built for portability and durability with the integral multi-handle design, available in either a 1 phase or 3 phase unit
- 50% Duty Cycle at 60A with automatic multi-voltage detection from 208-480V
- Industrial SL60QD 1Torch quick disconnect with ATC[®] (Advanced Torch Connector) allowing selective replacement of either the torch handle assembly or the torch leads, using the patented SureLok[®] technology
- Up to 3/4 in. (20 mm) recommended cut capacity with maximum sever of 1-1/2 in. (38 mm) and 3/4 in. (20 mm) pierce capability
- High-visibility, oversized display with gas optimizer technology and consumables end-of-life indicator, makes setup and usage simple and productive
- Cutmaster Black Series electrode included for up to 60% longer life of consumable parts
- Industry leading 4-year warranty on power supply and 1-year warranty on torch

Visit **esab.com/beast** for more information.





Specifications		
Amperage Output	10 – 60 A, continuously adjustable	
Recommended Generator Size	15 kW (full output)	
Open Circuit Voltage (OCV)	300 V	
Input Voltage	208 – 480 VAC +/- 10%, 50/60 Hz, 1ph or 3ph	
Rated Duty Cycle	50% @ 60 A 60% @ 50 A 100% @ 40 A	
Amperage Draw	43 A @ 208 V 1 ph / 26 A @ 208 V 3 ph 39 A @ 230 V 1 ph / 23 A @ 230 V 3 ph 19 A @ 480 V 1 ph / 11 A @ 480 V 3 ph	
Input Power Cable and Plug	9 ft. (2.7 m) 1 ph 8 AWG 3/C with NEMA 6-50P plug 9 ft. (2.7 m) 3 ph 12 AWG 4/C cable without plug	
Work Lead with Ground Clamp	20 ft. (6 m) #8 work cable with 50 mm connection	
Gas Requirements	Compressed air	
Operating Temperature Range	32 – 122° F (0° - 50° C)	
Operating Input Air Pressure Range	90 – 125 psi (6.2 – 8.6 bar)	
Air Flow Requirements (cutting & gouging)	300 – 500 cfh (142 – 235 l/m)	
Recommended Cut	up to 3/4 in. (20 mm)	
Maximum Sever	1-1/2 in. (38 mm)	
Pierce Rating	3/4 in. (20 mm)	
SL60QD Torch Duty Cycle	100% at 60 A @ 400 cfh air flow	
Torches – for use with the Cutmaster 60i	SL60QD 1Torch (supplied) SL60/SL100 1Torch SL100 Mechanized 1Torch SL100SLV Automated 1Torch	
Dimensions L x W x H	21.12 x 7.85 x 14.15 in. (536 x 199 x 359 mm)	
Weight	37 lbs. (16.8 kg)	

Cutting Specifications		
Plate Thickness	Recommended Cut Speed	
1/4 in. (6 mm)	80 in./min (2030 mm/min)	
1/2 in. (13 mm)	26 in./min (660 mm/min)	
5/8 in. (16 mm)	19 in./min (480 mm/min)	
3/4 in. (19 mm)	14 in./min (360 mm/min)	
1 in. (25 mm)	6 in./min (150 mm/min)	
1-1/4 in. (32 mm)	4 in./min (110 mm/min)	
1-1/2 in. (38 mm)	< 4 in./min (110 mm/min)	

Ordering Information		
Description	Part Number	
Cutmaster 60i, 1 ph with SL60QD 1Torch 20 ft. (6.1 m) 75° Head	1-5630-1X	
Cutmaster 60i, 1 ph with SL60QD 1Torch 50 ft. (15.2 m) 75° Head	1-5631-1X	
Cutmaster 60i, 1 ph Power Supply Only	3-5630-1X	
Cutmaster 60i, 3 ph with SL60QD 1Torch 20 ft. (6.1 m) 75° Head	1-5630-2X	
Cutmaster 60i, 3 ph with SL60QD 1Torch 50 ft. (15.2 m) 75° Head	1-5631-2X	
Cutmaster 60i, 3 ph Power Supply Only	3-5630-2X	
Torches		
SL60QD Torch and Lead 20 ft. (6.1 m) 75° Head	7-5620	
SL60QD Torch and Lead 50 ft. (15.2 m) 75° Head	7-5650	
SL60QD Torch Handle Assembly 75° Head (no leads)	7-5681	
SL60QD Lead 20 ft. (6.1 m)	4-5620	
SL60QD Lead 50 ft. (15.2 m)	4-5650	
SL100 Mechanized Torch 5 ft. (1.5 m) 180° Body	7-5213	
SL100 Mechanized Torch 10 ft. (3.0 m) 180° Body	7-5214	
SL100 Mechanized Torch 25 ft. (7.6 m) 180° Body	7-5215	
SL100 Mechanized Torch 50 ft. (15.2 m) 180° Body	7-5216	

Packages Include: Cutmaster 60i power supply, SL60QD 75° torch with lead, 20 ft. (6.1 m) work lead with ground clamp, spare parts kit, operating manual, and filter wrench.

Cutmaster 60i is compatible with all 1Torch® ATC torch connections.

Wear & Spare Parts 1Torch		
Description	Part Number	
Cutmaster Black Series Extended Life Electrode	9-8214	
Start Cartridge	9-8213	
Standoff Guide	9-8281	
Shield Cup	9-8218	
Shield Cup Max Life	9-8237	
Shield Cap Gouging	9-8241	
Shield Cap (Drag only)	9-8235	
Shield Cap Deflector	9-8243	
Tip – Drag (60A)	9-8252	
Tip – Standoff (60A)	9-8210	
Tip – "A" Gouging, (40 A Max), Profile: Shallow/Narrow	9-8225	
Tip – "B" Gouging, (50 – 100 A), Profile: Deep/Narrow	9-8226	
Tip – "C" Gouging, (60 – 100 A), Profile: Moderate/Moderate	9-8227	
Tip – "D" Gouging, (60 – 120 A), Profile: Shallow/Wide	9-8228	

Options & Accessories		
Description	Part Number	
Cutmaster MechPak, 25 ft. (7.6 m) Kit	7-7725	
Cutmaster MechPak, 50 ft. (15.2 m) Kit	7-7750	
Cutmaster Black Series Consumable Kit	5-0060	
Cutting Guide Kit (Deluxe)	7-8910	
Circle Cutting Guide Kit	7-3291	
Filter Wrench	9-9675	
Hand Pendant Extension 25 ft. (7.6 m)	7-7744	
Lead Extension, 15 ft. (4.6 m)	7-7544	
Lead Extension, 25 ft. (7.6 m)	7-7545	
Lead Extension, 50 ft. (15.2 m)	7-7552	
Leather Lead Covers 20 ft. (6.1 m)	9-1260	
Multi-Purpose Cart	7-8888	
Radius/Roller Cutting Guide Kit	7-7501	
Remote Pendant Control 20 ft. (6.1 m)	7-3460	
Single Stage Air Filter Kit	7-7507	
Straight Line Cutting Guide	7-8911	
Two Stage Air Filter Kit	9-9387	
Work Cable #8 with Ground Clamp and 50 mm Plug	9-9692	

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 1/4" (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 Thermal Dynamics 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 1/4" (6 mm) and at current levels above 60 Amps. Provides maximum visibility and accessibility. Shield cup for 'standoff' cutting (with the torch tip 1/8" (3 mm) to 1/4" (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 cutfing.



DRAG SHIELD CUTTING This is an operator-friendly method of cutting while maintaining a constant standoff distance. For metal thickness greater than 1/4" (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.

