Cutmaster® 58

Medium-duty manual plasma system

THERMAL DYNAMICS®
AN ESAB® BRAND

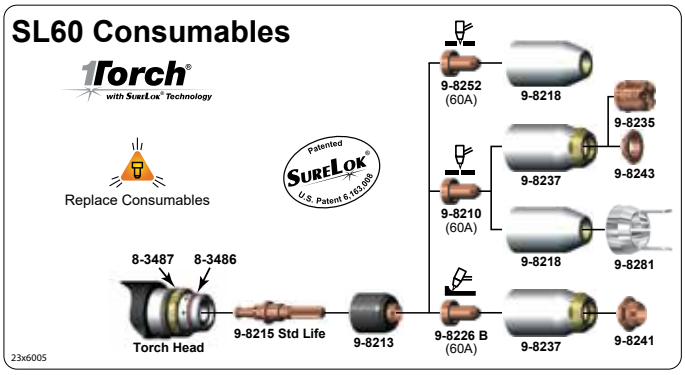
The Cutmaster 58 is the most powerful 5/8 in. (16 mm) machine on the market today. This unit cuts through mild, stainless, or aluminum up to 1 in. (25 mm) thick. The Cutmaster 58 combines power with the well-known performance and features of the industry-leading 1Torch®.

- 6.2 kW rated output, 50% Duty Cycle at 60 A, available in 600 V and 208-460 V with automatic multi-voltage detection
- Built for portability and durability with the integral multi-handle design
- 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 also available as an RPT Torch
- 5/8 in. (16 mm) recommended cut capacity with greater than 1 in. (25 mm) maximum cut and 1/2 in. (13 mm) pierce rating
- Industry leading 4-year warranty on power supply and 1-year warranty on torch

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

Industry

- Construction
- Fabrication
- Repair and Maintenance



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Specifications	
Input Voltage	208-230/460 V, 1/3 ph, 50/60 Hz 400 V, 3 ph, 50 Hz 600 V, 3 ph, 50/60 Hz (Canada)
Recommended Cut	5/8 in. (16 mm)
Maximum Cut	1 in. (25 mm)
Pierce Rating	1/2 in. (13 mm)
Amperage Output, max.	60 A
Rated Output Power	6.2 kW
Rated Duty Cycle	40% @ 60 A, 60% @ 50 A, 100% @ 30 A
Amperage Draw	45 A @ 230 V, 1 ph, 24 A @ 230 V, 3 ph, 16 A @ 460 V, 3 ph
Gas Requirements	Compressed air
Operating Temperature Range	32 – 104° F (0° - 40° C)
SL60QD Torch Duty Cycle	100% at 60 A @ 400 scfh air flow
Torch Air Pressure	75 psi (5.2 bar)
Torch Air Consumption	6.7 cfm (190 l/m)
Dimensions L x W x H	24 x 12 x 15 in. (610 x 305 x 381 mm)
Weight	43 lbs (19.5 kg)

Ordering Information	
Description	**Part Number**
Cutmaster 58, 20 ft. (6 m), SL60QD, 208-230 VAC	1-5830-1
Cutmaster 58, 20 ft. (6 m), SL60QD, 400-480 VAC	1-5830-2
Cutmaster 58, 20 ft. (6 m), SL60QD, 600 VAC	1-5830-5
Cutmaster 58, 50 ft. (15.2 m), SL60QD, 208-230 VAC	1-5831-1
Cutmaster 58, 50 ft. (15.2 m), SL60QD, 400-480 VAC	1-5831-2
Cutmaster 58, 50 ft. (15.2 m), SL60QD, 600 VAC	1-5831-5
Cutmaster 58 Power Supply, 208-230 VAC	3-5830-1
Cutmaster 58 Power Supply, 400-480 VAC	3-5830-2
Cutmaster 58 Power Supply, 600 VAC	3-5830-5
Torches	
SL60QD Torch and Lead 20 ft. (6.1 m) 75° Head	7-5604
SL60QD Torch and Lead 50 ft. (15.2 m) 75° Head	7-5605
SL60QD Torch Handle Assembly 75° Head (no leads)	7-5680
SL60QD Lead 20 ft. (6.1 m)	4-5604
SL60QD Lead 50 ft. (15.2 m)	4-5605

Packages Include: Power supply, torch, spare parts kit, input power cable, work cable and clamp.

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Wear & Spare Parts 1Torch	
Description	**Part Number**
Electrode	9-8215
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

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 cutting.

DRAG SHIELD CUTTING This is an operator-friendly method of cutting between 70 to 120 Amps 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.

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
Tip E	120A	Moderate	Wide

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Options & Accessories	
Description	**Part Number**
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

Mechanized or Fully Automated Systems

To mechanize or fully automate your Cutmaster, Select a Mechanized 180 Deg Torch, Select an automatic interface kit, and Select a pinion assembly. It's as simple as 1, 2, 3.

Step#1: Mechanized 180 deg Torch Length	
Description	**Part Number**
SL 180 Deg 25 ft (7.6 m)	7-4001
SL 180 Deg 35 ft (10.7 m)	7-4002
SL 180 Deg 50 ft (15.2 m)	7-4003
SL 180 Deg 75 ft (22.9 m)	7-4004
SL 180 Deg 100 ft (30.5 m)	7-4005

Step#2: Automation Interface Kits	
Description	**Part Number**
Automation Interface Kit for Cutmaster 52, 58, 82, 102 and 152	9-8311
Automation Interface Kit for Cutmaster 60i	9-8308

Step#3: Pinion Assembly	
Description	**Part Number**
Pinion Assembly 1.375 in. (35 mm) Diameter	7-2827

Semi-Mechanized Systems

For straight line cutting and gouging applications controlled with a simple start stop switch, ESAB's MechPak 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, 25 ft. (7.6 m) Kit	7-7725
MechPak, 50 ft. (15.2 m) Kit	7-7750

Step#2: Optional Accessories	
Description	**Part Number**
VCM 201 Cutting Machine	0252-0125
6 ft (1.8 m) Track	0212-0005
9 ft (2.7 m) Track	0212-0019
12 ft (3.7 m) Track	0212-0018
Pinion Assembly 1.375 in. (35 mm) Diameter	7-2827

ESAB

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GLOBALLY CERTIFIED MANAGEMENT SYSTEMS

XA00199821 / NA / EN / 11-17-2021 *Note: Specifications subject to change without notice. Products may vary from those pictured.*