Cutmaster[®] 40mm Heavy Industrial hand plasma equipment





The CUTMASTER 40 is the heavy weight of hand held cutting systems. This unit comes in a compactlight weight package, but don't let that fool you. It offers enough cutting power to cut 50mm material. The heavy duty inverter system is specifically designed for high level applications requiring superior endurance and cutting performance.

Operating from a 400V three phase supply, the unit incorporates features such as auto-pilot re-start, True Guard roll bar and the heavy duty SL100 1Torch[®] for superior performance. The unit can also be used for heavy duty gouging, piercing and beveling applications when fitted with the correct torch consumables.

These features combined with a three year limited warranty make this the ideal unit for and heavy duty fabrication, construction and mining applications.

- True Cut [™]- 40mm
- Quick Disconnect Torch for easy maintenance or machine torch conversion
- Auto-Restrike on mesh or expanded metal for maximum productivity
- True-Guard[™] roll bar for ultimate protection
- TD Surelok[®] technology for better quality cuts and parts life

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



Industry

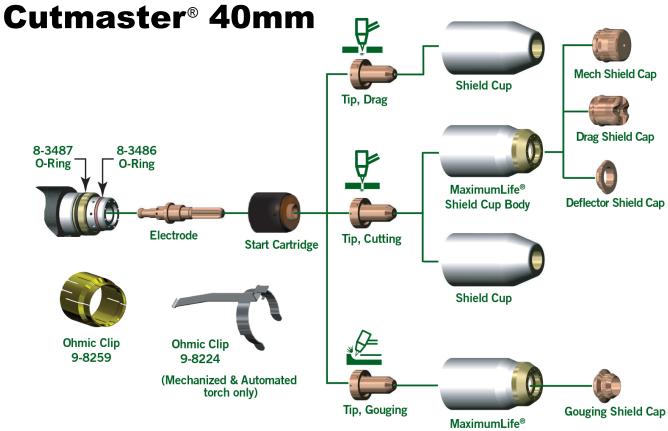
- Heavy Fabrication
- Ship Building
- Construction
- Manufacturing
- Structural Steel
- Rental Fleets
- Pipe and Pipelines
- Mining
- Demolition and Scrapping

Cutmaster[®] 40mm

Specifications	
Amperage Output	10 – 120 A, continuously adjustable
Rated Output Power	15.4 kW
Input Voltage	400 VAC
Number of Phases	3 ph
Supply Frequency	50/60 Hz
Rated Duty Cycle	40% @ 120A
Amperage Draw	32A @ 400V, 3 ph
Work Lead	6.1m
Gas Requirements	Compressed air
Gas Pressure	5.2 bar
Air Flow Requirements (cutting & gouging)	190 l/min
Genuine Cut	40 mm
Maximum Cut	50 mm
Maximum Sever	55 mm
Torches – for use with the Cutmaster 40	SL100 1Torch (supplied) SL100 1Torch Mechanised SL100SLV 1Torch Automated
Dimensions	381 x 305 x 762 mm
Weight	28.1 kg
Warranty	3 Years Power Supply / 1 Year Torch

Ordering Information - Systems		
TD Cutmaster 40 3ph w. SL100 1Torch 6.1 m 75° Head	1-1930-4	
TD Cutmaster 40 3ph w. SL100 1Torch 15.2m 75° Head	1-1931-4	
Torches		
SL100 Torch and Lead 6.1 m, 75° Head	7-5206	
SL100 Torch and Lead 15.2 m, 75° Head	7-5208	
SL100 Mechanized Torch 25' (7.6 m) 180° Head	7-5215	
SL100 Mechanized Torch 50' (15.2 m) 180° Head	7-5216	

Packages Include: Cutmaster 40 power supply, SL100 75° torch with lead, 6.1 m work lead with ground clamp, spare parts kit, operating manual



	Wear and S
	Shield Cup
	Shield Cup Ma
	Shield Cap, Di
	Shield Cap, Dr

Shield Cup Body

Gouging Shield	Сар

Wear and Spare Parts 1Torch		
O-Ring	8-3487	
O-Ring	8-3486	
O-Ring Lubricant	8-4025	
Electrode	9-8215	
Start Cartridge	9-8213	
Tip, 20A Drag	9-8205	
Tip, 30A Drag	9-8206	
Tip, 40A Drag	9-8207	
Tip, 60A Drag	9-8252	
Tip, 40A Standoff	9-8208	
Tip, 50/55A Standoff	9-8209	
Tip, 60A Standoff	9-8210	
Tip, 70A Standoff	9-8231	
Tip, 80A Standoff	9-8211	
Tip, 90/100A Standoff	9-8212	
Tip, 120A Standoff	9-8253	
Tip A, Gouging	9-8225	
Tip B, Gouging	9-8226	
Tip C, Gouging	9-8227	
Tip D, Gouging	9-8228	
Tip E, Gouging	9-8225	

Wear and Spare Parts 1Torch		
Shield Cup	9-8218	
Shield Cup Max Life	9-8237	
Shield Cap, Drag, 40A	9-8244	
Shield Cap, Drag, 50-60A	9-8235	
Shield Cap, Drag, 70-100A	9-8236	
Shield Cap, Drag, 120A	9-8258	
Shield Cap, Mechanised, 40A	9-8245	
Shield Cap, Mechanised, 50-60A	9-8238	
Shield Cap, Mechanised, 70-100A	9-8239	
Shield Cap, Mechanised, 120A	9-8256	
Shield Cap, Deflector	9-8243	
Shield Cap, Gouging	9-8241	
Ohmic Clip (mechanised torches)	9-8224	
Ohmic Clip (manual torches)	9-8259	

GOUGING PROFILES				
	Output Range	Depth	Width	Profile
Tip A	40 Amps (MAX)	Shallow	Narrow	
Tip B	50-100 Amps	Deep	Narrow	
Tip C	60-120 Amps	Moderate	Moderate	
Tip D	60-120 Amps	Shallow	Wide	
Tip E	120 Amps	Moderate	Wide	

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Options & Accessories		
Standoff Cutting Guide	9-8281	
Cutting Guide Kit (Deluxe)	7-8910	
Circle Cutting Guide Kit	7-3291	
Radius/Roller Cutting Guide Kit	7-7501	
Straight Line Cutting Guide	7-8911	
Lead Extension, 4.6 m	7-7544	
Lead Extension, 7.6 m	7-7545	
Lead Extension, 15.2 m	7-7552	
Leather Lead Covers 6.1 m	9-1260	
Multi-Purpose Cart	7-8888	
Single Stage Air Filter Kit	7-7507	
Two Stage Air Filter Kit	9-9387	

1Torch Consumables Parts Application Guide



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 A or less; now with Thermal Dynamics TRUE Cut Drag Tip Series™ technology, it is possible to cut up to 60 A. For best results, use the Shield Cup with the torch tip in direct contact with the work (up to 60 A).



Standoff Cutting

The preferred method of cutting metal thicker than 6 mm and at current levels above 60 A. 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 between 70 to 120 A 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.





