



**WE'VE CREATED A  
CUTTING BEAST.**

Thermal Dynamics® **Cutmaster® 60i**

**THE THERMAL DYNAMICS CUTMASTER 60i IS ON THE LOOSE.** IT'S SERIOUSLY POWERFUL, CAN SLASH THROUGH A MULTITUDE OF METALS, AND NEVER BACKS DOWN, FROM FIRST CUT TO CLEANUP. THE CUTMASTER 60i IS ONLY FROM ESAB. AND THE QUESTION IS: ARE YOU READY TO UNLEASH THIS BEAST?



# KILLER POWER-TO-WEIGHT RATIO.

When it comes to power and weight, Cutmaster 60i has the balance down. At only 37 pounds, its compact and lightweight design makes it super portable – but we didn't sacrifice power or performance to get there. So if it's too much power for a given job, just turn it down.

## **Increased cut capacity and cut speed** –

Cutmaster 60i's recommended cut capacity is 5/8 inch with a maximum sever of 1 1/2 inches and a 5/8-inch pierce.

## **Superior duty cycle** – Cut more, faster, longer.

The machine's duty cycle of 50% at 60 A while cutting half-inch mild steel equates to a 7.6 kW power supply rating – the highest output in its class.

**Rugged roll cage** – With multiple lift points, the sturdy four-handle roll cage makes it easy to transport your Cutmaster 60i where you need to – including outdoors. The machine's IP23S protection rating proves it's hardy enough to face whatever elements come your way.

**Automatic multi-voltage detection** – The system senses what type of power you're hooked up to and adjusts accordingly so you don't waste any time manually tweaking your settings.

**Power factor correction (PFC)** – If you find yourself with a poor connection via generator or otherwise, PFC will stop the draw from spiking and keep power flowing smoothly.



# INSANE CUTTING ARC.

The Cutmaster 60i doesn't play around when it comes to cut capacity or cut speed. And it isn't afraid to prove it, slicing through mild steel, aluminum, and stainless steel and plowing a perfect groove when gouging. Much of it is thanks to one thing: the SL60QD™ 1Torch®.



**Long arc stretch** – When you're in an odd position or trying to hit a corner, Cutmaster 60i's extra-long arc will stretch to keep constant contact with the workpiece.

**Modes of operation** – The machine also has four modes of operation – twice as many as competitors – cut mode, expanded metal cutting mode, gouging mode, and latch mode, which allows you to lock in so you can focus on what's important: cutting.



**SL60QD 1Torch** – This torch has a lot going for it. First, it's compatible with the entire Cutmaster family and other outfits in the industry. Second, "QD" stands for quick disconnect, which gives you the option of replacing only what you need to replace – the torch or the lead – and that saves you money in the long run.

**Only three consumable parts** – That means fewer parts to keep on hand and quicker changes, so you can keep burning and earning.

# DIAL INTO BEAST MODE.

Prepare to feel unstoppable. From first cut to cleanup, day in and day out, you'll be able to stare down any challenge with Cutmaster 60i on your side.

**Durable LED display** – The system's large, high-visibility display allows for easy viewing of all machine settings from a distance. The intuitive, easy-to-use display instantly provides the necessary feedback for keeping your settings and cut quality optimized.

**Gas optimizer** – This unique technology precisely regulates air pressure, ensuring premium cut quality and performance. When you set amperage and select torch type, torch lead length, and mode of operation, you're visually prompted to adjust gas pressure accordingly while still having the flexibility to tweak that setting to your liking.



**Consumables end-of-life indicator** – Cutmaster 60i's end-of-life indicator monitors the remaining life of the consumable parts and alerts you when it's time to replace, maintaining optimal performance and cut quality.

**Consumables configuration guide** – Look to the top of the power source for easy-to-follow instructions on how the consumables work together. Need more info? There's a quick-start guide in the box that'll have you up and running in no time.

# THE SHOCKING DETAILS.

As if the power, cutting prowess, and usability weren't enough, there's more. The Cutmaster 60i has an industry-leading, four-year, handle-to-handle warranty. That's an extra 365 days of protection you'll get with us that you won't get anywhere else, and it's backed by Thermal Dynamics' 60 years of experience in the field.



## INCLUDED ACCESSORIES

- SL60QD 1Torch with lead
- Work lead with ground clamp
- Spare parts kit
- Operating manual and quick-start guide
- Filter wrench



To see the Cutmaster 60i in action and find out how to unleash this beast, visit [esab.com/beast](http://esab.com/beast).

## SPECIFICATIONS

Amperage Output	10–60 A, continuously adjustable
Rated Output Power	7.6 kW
Open-Circuit Voltage (OCV)	300 V
Input Voltage	208–480 VAC ± 10%
Number of Phases	1 ph or 3 ph
Supply Frequency	50/60 Hz
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
Enclosure Rating	IP23S
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°F–122°F (0°C–50°C)
Input Pressure	90–125 psi max (8.6 bar)
Air Flow Requirements (cutting and gouging)	300–500 scfh / 5–8.3 cfm (142–235 l/m)
Power Supply Gas Filtering Ability	Particulates to 5 Microns
Recommended Cut	5/8 in. (16 mm)
Maximum Sever	1 1/2 in. (38 mm)
Pierce Rating	5/8 in. (16 mm)
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)
Torches (for use with the Cutmaster 60i)	SL60QD 1Torch (supplied) SL60/SL100 1Torch SL100 Mechanized 1Torch SL100SLV Automated 1Torch

There's more where the Cutmaster 60i came from. If it's not exactly what you need, ask your distributor about the Cutmaster 42 (40 A), Cutmaster 82 (80 A), Cutmaster 102 (100 A), or Cutmaster 152 (120 A).

## SENTINEL™ A50

The best fabricators deserve the best equipment. And when it comes to helmets, this is it. [Learn more at esab.com/sentinel.](http://esab.com/sentinel)



# UNRIVALED SERVICE AND SUPPORT.

Thermal Dynamics Cutmaster 60i, like every ESAB machine, is backed by our commitment to superior customer service and support. Our skilled customer service department is prepared to quickly answer any questions, address problems, and help with maintenance and upgrading of machines.

For more information on the Cutmaster 60i, visit [esab.com/beast](http://esab.com/beast).

## 4-YEAR WARRANTY.

Thermal Dynamics' industry-leading service and support means that if you do need help, you'll be protected by the most comprehensive warranty in the business.



## 60 YEARS OF CUTTING-EDGE EXPERIENCE.

ESAB is pleased to recognize the 60th anniversary of Thermal Dynamics. Since plasma pioneers James Browning and Merle Thorpe incorporated Thermal Dynamics in 1957, TD's cutting-edge experience has been evident in every product. Whether you're looking for automated or manual plasma systems, integrated support or high quality consumables and accessories, Thermal Dynamics brings innovation and performance to every solution.



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