



# THE CUTTING BEAST HAS EVOLVED.

A ferocious plasma cutter with an unmatched power-to-weight ratio.

**CUTMASTER**  
**60i**

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





# VICIOUS CUTTING AND PIERCING CAPACITY.

**Cutmaster 60i now has 16.6% more cutting and piercing capacity to get jobs done faster and cleaner. And it's more than 20 pounds lighter than the competition, giving you the portability to dominate the most demanding jobs. With a wide range of available cutting and gouging nozzles, you can harness Cutmaster 60i's power like never before.**

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

Cutmaster 60i's recommended cut capacity is 3/4 inch with a maximum sever of 1 1/2 inches and a 3/4-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** – From 200 to 480 V, 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.

**Generator reliable** – Say goodbye to issues caused by power fluctuations and spikes when connected to a generator. Cutmaster 60i's power factor correction ensures no disruptions in cutting performance.

**1ph and 3ph power** – Cutmaster 60i is available in both single-phase and three-phase configurations with the ability to run torches up to 75 ft. in length.



**16.6%**

MORE  
CAPACITY

# INSANE CUTTING ARC.

**Cutmaster 60i doesn't play around when it comes to cut capacity or cut speed. It isn't afraid to prove it, slicing through mild steel, aluminum, and stainless steel and plowing a perfect groove when gouging. And the improved SL60QD™ 1Torch® with our innovative Cutmaster Black Series extended life consumables help you achieve your best cuts.**



**Cutmaster Black Series extended life consumables** – Cutmaster Black Series electrodes are designed to operate 60% longer than standard consumables before needing to be replaced. So you get maximum productivity and excellent performance that lasts.

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



**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, meaning the leads can be separated from the torch. It's a feature fabricators asked for, giving you the option of replacing only what you need to replace. The result? More affordable maintenance and repair – and more money in your pocket.



# 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. Cutmaster 60i has an industry-leading, four-year, handle-to-handle warranty, and a full-year warranty on the torch and leads. 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
- Full set of 60 A consumables for out-of-the-box cutting, including two 60 A cutting tips, three drag tips, and a gouging tip
- Spare parts kit
- Operating manual and quick-start guide



Every Cutmaster 60i includes a full range of consumables with several amperage sizes of cutting and gouging nozzles. Whether you're drag cutting, gouging, shield cap cutting, or working on another application, Cutmaster 60i comes ready to rumble out of the box.



## MECHPAK MECHANIZED PACKAGE.

The MechPak mechanized package is now available for Cutmaster 60i, making it easy to hook up to a cutting table for semiautomatic cutting processes. MechPak comes with everything you need to get started, including an SL100 mechanized torch (25 ft. or 50 ft.), remote pendant, lead with ATC connection, and consumables.



## GET THE TOTAL FABRICATION PACKAGE.

Sentinel™ A50 is an excellently balanced, supremely equipped auto-darkening hood with a full range of shades, including the perfectly matched plasma cutting shades 6–7. And Rebel™ 205 AC/DC is the only true all-process welding machine of its kind. Combine them with Cutmaster 60i and gain the ability to cut or weld anything, anywhere. [Learn more at esab.com/sentinel](http://esab.com/sentinel) and [esab.com/rebel205](http://esab.com/rebel205).



## SPECIFICATIONS

Amperage Output	10–60 A, continuously adjustable
Open-Circuit Voltage (OCV)	300 V
Input Voltage	208–480 VAC $\pm$ 10% (1ph or 3ph)
Rated Duty Cycle	50% @ 60 A 60% @ 50 A 100% @ 40 A
Amperage Draw	43 A @ 208 V 39 A @ 230 V 19 A @ 480 V
Enclosure Rating	IP23S
Input Power Cable and Plug	9 ft. (2.7 m) 1ph 8 AWG 3/C with NEMA 6-50P plug (prewired) 9 ft. (2.7 m) 3ph 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 cfh (142–235 l/s)
Recommended Cut	Up to 3/4 in. (20 mm)
Maximum Sever	1 1/2 in. (38 mm)
Pierce Rating	3/4 in. (20 mm)
Torch Duty Cycle	100% at 60 A @ 400 cfh air flow
Recommended Generator Size	15 kW (at full output)
Torches (for use with Cutmaster 60i)	SL60QD 1Torch (supplied) SL60/SL100 1Torch SL100 Mechanized 1Torch SL100SLV Automated 1Torch

## ORDERING INFORMATION

Cutmaster 60i SL60QD 1Torch 75 deg. 20 ft. 208–480 V 1ph	1-5630-1X
Cutmaster 60i SL60QD 1Torch 75 deg. 50 ft. 208–480 V 1ph	1-5631-1X
Cutmaster 60i SL60QD 1Torch 75 deg. 20 ft. 208–480 V 3ph	1-5630-2X
Cutmaster 60i SL60QD 1Torch 75 deg. 50 ft. 208–480 V 3ph	1-5631-2X

There's more where Cutmaster 60i came from. If it's not exactly what you need, ask your distributor about Cutmaster 42 (40 A), Cutmaster 58 (60 A), Cutmaster 82 (80 A), Cutmaster 102 (100 A), or Cutmaster 152 (120 A).

## UNLEASH THE BEAST.

Seize the unmatched power and portability of Cutmaster 60i at [esab.com/beast](http://esab.com/beast).

# 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 Cutmaster 60i, visit [esab.com/beast](http://esab.com/beast).

## 4-YEAR WARRANTY.

Thermal Dynamics' 60-year history and industry-leading service and support means that if you do need help, you'll be protected by the most comprehensive warranty in the business.



## 100% SATISFACTION GUARANTEE.

If there's anything you're not completely satisfied with in your first 100 days with your new Cutmaster, ESAB will make it right, even if it means giving you your money back.

It's all part of our Iron Clad Pledge to our customers.



## MORE THAN 60 YEARS OF CUTTING-EDGE EXPERIENCE.

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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