



Ready ... Steady! ... **Go!**  
Cutting with plasma in less than 1 hour

# TORCHMATE 4400 / 4800

The compact plasma cutting system

**LINCOLN**<sup>®</sup>  
**ELECTRIC**

**Cutting  
Solutions**



## The LINCOLN ELECTRIC company

Founded in 1895 by John C. Lincoln, The Lincoln Electric Company is the world leader in the design, development and manufacture of arc welding products, robotic arc welding systems, plasma and oxyfuel cutting equipment and has a leading global position in the brazing and soldering alloys market. Headquartered in Cleveland, Ohio, Lincoln Electric has a global network of manufacturing, distribution, sales and technical support covering more than 160 countries.

### INNOVATION

With a long history of innovation in arc welding and cutting equipment, Lincoln Electric has been providing state-of-the-art products and comprehensive process solutions to our customers for more than a century. In the past decade, we have combined the resources and expertise of several leading companies – Torchmate®, Vernon Tool®, Burny Kaliburn®, Burlington Automation® and others – to create a single cutting entity to address every possible customer need. What’s more, we’ve developed a worldwide network of R&D centers to oversee the most comprehensive research and product development program in the global welding and cutting industries.

### CUSTOMER COMMITMENT AND SUPPORT

Lincoln Electric owes its position as an industry leader to an enduring combination of high quality products, technical expertise and unwavering customer support. Whether you’re welding, cutting, integrating an automated system into your existing operation or taking your existing automated system to a new level, we’ll help you find a way to do it better and more cost efficiently. If there’s a way to improve your product and your bottom line, we’ll show you how it can be done.

We are driven by customer satisfaction and known as the supplier of choice in the many industries we serve. We continuously strive to exceed customer expectations and are not simply known as a provider of equipment and consumables, but as a provider of complete welding and cutting solutions.



## The Cutting industry

Our solutions to meet your demanding requirements

LINCOLN ELECTRIC is no stranger to the fabrication industry. It’s the arena in which we’ve maintained a leadership position for more than a century. In our company’s history, we’ve learned that welding is always synonymous with cutting. It’s a fact of life in virtually every related industry: aerospace, automotive, machinery, mining, farming, construction, structural steel, oil, gas and more. No matter the application, no matter the material, no matter the shape, we have the tools and solutions that will enable you to make the cut.

### OUR MANY DIMENSIONS, YOUR SINGLE SOURCE

At every step in our evolution we’ve focused on building a portfolio of expertise that encompasses every cutting application within the fabrication and industrial manufacturing universe: plasma cutting and motion control, plate cutting, tube and pipe cutting, structural steel cutting and more. There are no miscellaneous brands or products; every segment of Lincoln Electric’s overall business is directly aimed at providing solutions to the challenges you face every day. After all, cutting is about much more than just material separation; it’s about material handling, robotics and automation, regulatory compliance, part quality and a host of other concerns. We’re the one source and the one partner you’ll ever need to address it all.

### MEETING EVERY CHALLENGE

What started with welding several decades ago has evolved into a range of applications and solutions that apply to virtually every segment of the manufacturing process, including cutting. That’s why Lincoln Electric invests in the largest application engineering, automation and R&D support centers in the industry. Highly trained and experienced technologists, engineers and applications personnel are available to not only troubleshoot customer problems in the field – anywhere in the world – but also develop new process or consumable solutions based on whatever customer challenges we encounter. In the end, this industry-leading technical support team has one focus: providing you with the best cutting solutions for your specific needs.

# TORCHMATE™ Compact Plasma Cutting System

Advanced Technology | Simple Operation



## A COMPLETE SYSTEM- PRODUCTION READY IN LESS THAN HOUR\*

The TORCHMATE® 4400 | 4800 CNC plasma cutting systems by LINCOLN ELECTRIC® are designed for expanding fabrication shops. The system components, the design and the mechanical construction are all made by LINCOLN ELECTRIC and are delivered with a two-year warranty. You will get a perfectly attuned plasma cutting system offering excellent performance and competent service with fast reaction times. Rapid delivery and setup time gets your machine up and running quickly with limited assembly required.

\*Once the TORCHMATE has been installed, you and your operator are ready to plasma-cut your first job in no more than one hour.

The TORCHMATE 4400 has a maximum cutting area of 1,250 x 1,250 mm, the TORCHMATE 4800 of 1,250 x 2,500 mm. Mild steel of up to 25 mm can be cut with air plasma at an advance of up to 800 mm/minute, meeting high quality standards. This is ensured by the air plasma source FLEXCUT 125A. The FLEXCUT offers – as compared to the predecessor system – a 65 % higher cutting speed and 45 % savings on consumables.

An integrated HMI touch-screen, a control console with adjustable industrial-grade mounting arm, the supplied CAD/CAM software and a dynamic motion control system all ensure a highly efficient and supplier-independent performance.

## Applications

- small metal fabrication shops
- sheet metal contractors
- custom vehicle fabricators
- prototyping
- education
- hobbyists and artists

# Cutting Edge Performance

Cut High Quality Parts Faster

*„I don't want to deal with four vendors to solve a single business problem!“*

*„With my previous CNC cutting machines, I had to integrate components from different suppliers into an operational system. Given the interaction of the components problems are sure to follow. Each time a problem occurred, the manufacturers tried to put the blame on each other. The machines were out of operation and it cost me a lot of time and money to solve the situation. I cannot afford to let my biggest investment stand idle.*

*My experience with the TORCHMATE system by LINCOLN ELECTRIC Cutting Systems is much better. Everything is provided from a single source and is perfectly attuned. You have a single contact point. The complete system was installed and operational in a minimum of time. I was already able to use the TORCHMATE on the very first day“.*



TORCHMATE 4400 | max. cutting range 1.250 x 1.250 mm



TORCHMATE 4800 | max. cutting range 1.250 x 2.500 mm



# Plug & Play system components of TORCHMATE 4400/4800

One manufacturer - LINCOLN ELECTRIC Cutting Solutions



# Power with 125 ampere

FLEXCUT™ 125

For cutting steel parts in a production setting customers want a plasma cutting solution that will give them the cleanest and fastest cuts possible.

With 125 amps at 100% duty cycle, the FLEXCUT™ adds power to the speed and precision equation.

Built on an inverter platform the FLEXCUT 125 is a constant-current plasma cutting power source that delivers superior cut quality with minimal dross - which minimizes the need for secondary finishing operations.

The FLEXCUT 125 initiates the plasma arc with a simple yet reliable touch-start mechanism that eliminates many of the failure problems associated with high-frequency start systems.

The control system includes Parts-in-Place™, an internal control service that ensures that all consumables required for operating the system are in place before starting the cutting or gouging process.

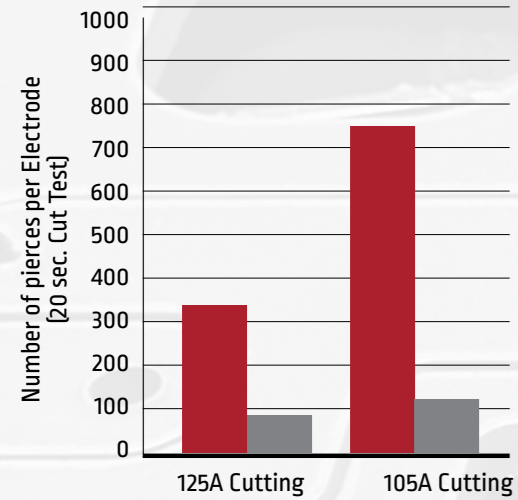
Add to that our consumable design\* providing a significantly longer consumable life than competitors and the FLEXCUT 125 has the potential to significantly reduce your operating costs.



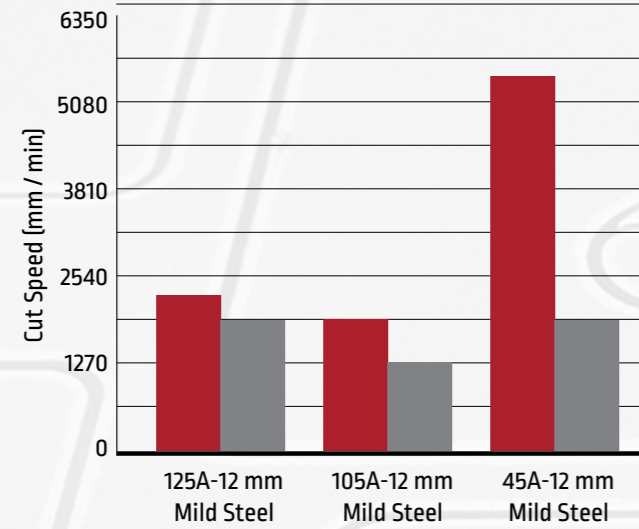
# Convincing performance

FLEXCUT™ 125

ELECTRODE LIFE COMPARISON\*



CUT SPEED COMPARISON\*

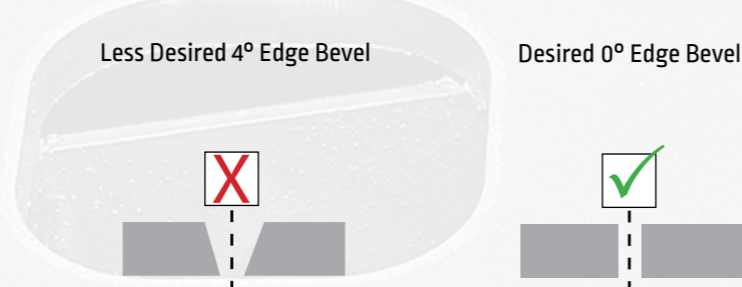
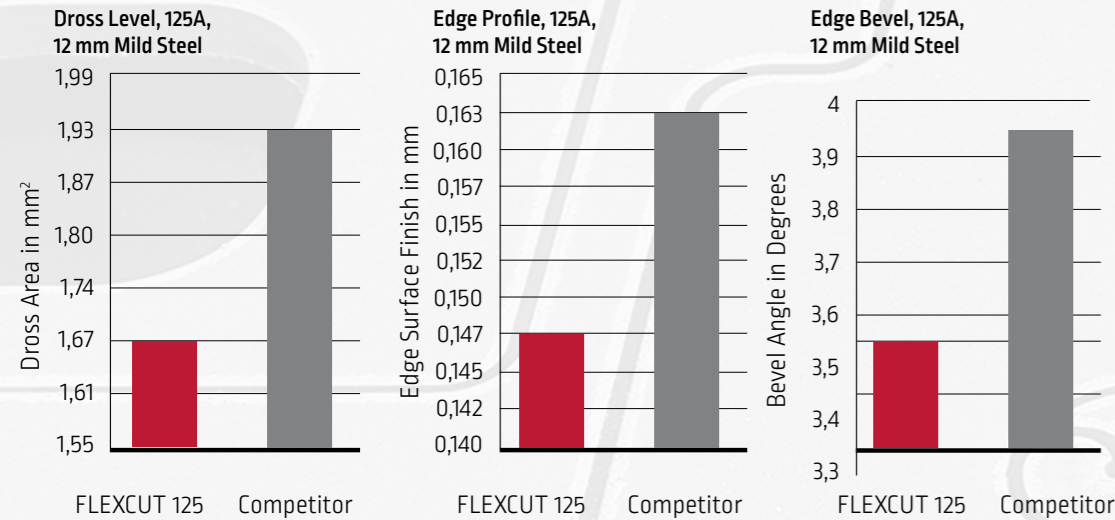


## With FLEXCUT 125 you will achieve:

- higher cutting speed
- less edge bevelling
- higher cut quality and performance
- higher life circle of consumables



CUT QUALITY COMPARISONS\*



■ LINCOLN ELECTRIC FLEXCUT 125  
■ Competitor

\*Claims based upon tests conducted by LINCOLN ELECTRIC in 2016 using an LC125M Torch

# We offer MORE from the very start!

TORCHMATE 4400/4800



## Your added-value package!



## This is what we offer you from the start

- A complete cutting system with high-grade SINGLE-SOURCE components
- A maximum cutting range of 1,250 x 1,250 mm for TM 4400
- A maximum cutting range of 1,250 x 2,500 mm for TM 4800
- A FLEXCUT 125A air plasma power source for cutting and marking
- An ACCUMOVE control with Windows 10 incl. CAD/CAM SOFTWARE and 20 inch touch-screen
- A water-filled cutting table
- A mobile system requiring little floorspace (movable with a forklift!)
- Simple setup and installation and minimal learning curve for operators
- A system ready to go into operation within one hour after delivery and installation
- A two-year manufacturer's warranty on all components supplied by LINCOLN ELECTRIC Cutting Solutions

## and...

- Get started cutting quickly high-quality metals like mild steel (up to 25 mm), stainless steel and aluminum

<b>TECHNICAL DATA: TORCHMATE 4400/4800 CNC PLASMA SYSTEMS</b>	
<b>TABLE DIMENSIONS</b>	
4400	188 cm x 171 cm x 161 cm
4800	188 cm x 290 cm x 161 cm
<b>MACHINE WEIGHT</b>	
4400	382 kg
4800	566 kg
<b>TOOL CAPACITY</b>	
4400 - 4800	2
<b>WATER CAPACITY</b>	
4400	230 Liter
4800	405 Liter
<b>MATERIAL CAPACITY</b>	
4400 - 4800	25 mm Mild Steel
<b>POWER   AIR REQUIREMENTS</b>	
4400-4800 HMI   Motion Control	230V / 16A 115V / 15A Dedicated Circuit
4400-4800 Air	6-7.5 bar 380 SCFH 180 SLPM
4400-4800 Single Phase	200-208V bzw. 230V / 1 / 50 / 60
4400-4800 Three Phase	200-208V / 230V / 380V / 460V / 575V / 3 / 50 / 60
Machine Ground	Dedicated Earth Ground Supplied By Other
<b>PRECISION GEAR RACK AND PINION DRIVE SYSTEM</b>	
Stepper Motors	{ 3 } 2,8 Nm
Belt reduction	{ 3 } 3:1
Linear Guidance	20mm Pro le Linear Rail
Gear Engagement	Spring Loaded
Gantry Carriage	Milled 3/8" Aluminum
Traverse Speed	12700 mm/m / 500 ipm
Machine Repeatability	0,00381 cm
Gantry Clearance	12,7 cm
Frame Construction	0,48 cm Mild Steel
<b>CUT CAPACITY   SPEED (MILD STEEL)</b>	
Maximum Pierce Capacity	25 mm
6 mm	5300 mm/min
12 mm	2200 mm/min
25 mm	800 mm/min

<b>SYSTEMS &amp; ACESSORIES: TORCHMATE 4400/4800 CNC PLASMA CUTTING SYSTEM</b>	Product Number
<b>MACHINE TORCH</b>	
TORCHMATE 4400 CNC Plasma-Cutting Table [ 4x4 cutting area]	BK-LECS-125CE-4400
TORCHMATE 4800 CNC Plasma-Cutting Table [ 4x8 cutting area]	BK-LECS-125CE-4800
LC125M Machine-Plasma- Torch 7,5 m	K4300-4
LC125M Machine-Plasma- Torch 15 m	K4300-5
LC125M Machine-Plasma- Torch 22,5 m	K4300-6
<b>CONSUMABLES-MACHINE CUTTING</b>	
Electrode (45-125A), LC125M (5 pcs-PACK)	BK14300-1
Shield Cap (45-65A), LC125M (2 pcs-PACK)	BK14300-3
Shield Cap (85A-105A-125A), LC125M (2 pcs-PACK)	BK14300-4
Nozzle (45A), LC125M (5 pcs-PACK)	BK14300-7
Nozzle (65A), LC125M (5 pcs-PACK)	BK14300-8
Nozzle (85A), LC125M (5 pcs-PACK)	BK14300-9
Nozzle (105A), LC125M (5 pcs-PACK)	BK14300-10
Nozzle (125A), LC125M (5 pcs-PACK)	BK14300-11
Swirl Ring (45A-125A), LC125M (2er-PACK)	BK14300-13
Retaining Cap (45A-125A), LC125M (1 pcs-PACK)	BK14300-14
Retaining Cap (45A-125A) CTR,LC125M (1 pcs PACK)	BK14300-15
<b>CNC PLASMA MACHINE CUTTING ACESSORIES AND OPTIONS</b>	
Pneumatic Plate Marking Tool	TMS203-1000-21
Expanded Clip Art Gallery (Over 6000 Ready-To-Cut Files)	TMS106-0031-04
Onsite Training	Call



**Cutting  
Solutions**

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#### CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectriccutting.eu](http://www.lincolnelectriccutting.eu) for any updated information.