

# CNC PLASMA CUTTING

## TORCHMATE 4400/4800



### Advanced Technology | Simple Operation

The TORCHMATE® 4400 | 4800 CNC plasma cutting systems by Lincoln Electric® are designed for the growing fabrication shop. Its design, components, and construction were all single-source engineered to deliver exceptional repeatability and performance. Rapid delivery and setup time gets your machine up and running quickly with limited assembly required. Our best in class warranty, industry leading support and lowest operation costs, ensure you spend more time making money.

The Torchmate 4400 and the Torchmate 4800 include all necessary components to operate the system, including: an integrated touchscreen HMI, industrial grade user console with adjustable mounting arm, and proprietary motion control system. Our standard 125 amp power supply delivers 65% faster cut speeds and savings of up to 45% in consumable costs. The 4400 and 4800 produce cycle times that are 2.5 times faster than our previous system.

**Processes**  
CNC plasma cutting

**Applications**  
Small metal fabrication shops, sheet metal contractors, hobbyists & artists, custom vehicle fabricators, prototyping, education, motor racing industry

**Product Number**  
4400: LECS-125-4400-CE  
4800: LECS-125-4800-CE

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**LINCOLN**  
**ELECTRIC**  
THE WELDING EXPERTS®

# The Cutting Industry

## Cutting Solutions to Meet the Most Demanding Requirements – Yours.

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.

# Spend Less | Get More

## Cut High Quality Parts Faster

With up to 65% faster cut speeds, improved cut quality, and exceptional repeatability, this machine reaches a new standard in the industry. Each component has been designed and engineered by Lincoln Electric to work seamlessly together.

## Spend Less Money Cutting Parts

Save money with dramatically lower consumable costs. Reduce post process operations with less dross and better edge quality. Keep your investment running longer with lower mechanical maintenance and longer machine life expectancy.

## Ready To Run

Get started cutting quickly with our available next day shipping and rapid setup time. Machines come completely assembled with all needed components, including the consumable starter kit and slat supports. Get started cutting in about 30 minutes.

## Peace Of Mind Dependability

For over 120 years Lincoln Electric has specialised in creating industrial manufacturing solutions to help our customers build their businesses. Backed by our best-in-class warranty and industry-leading technical support, our customers know that we'll always be there.

## Easy to use

An intuitive touch screen HMI with an integrated 27-part shape library will get you cutting immediately. There's also an optional clip art gallery with over 6000 files for fast and easy art projects. Flexible training resources are provided so that your team can learn at their own pace.



## Peace Of Mind Dependability | Best In Class Warranty

Protect your investment with Lincoln Electric. The Torchmate 4400 and Torchmate 4800 CNC plasma cutting systems are backed by a best in class warranty to keep your small business running. Our systems have been rigorously tested to the highest industry standards.\* Our two year complete warranty is the only single source warranty in its class, with all components warranted by Lincoln Electric. There's no third party vendor to deal with. One phone call provides peace of mind and keeps you up and running.

\*Machine testing includes IP 23 | ISO | Laser Interferometer | EMC | MTBF. Warranty applies to the CNC machine and power supply. Software is subject to a limited warranty, see Torchmate.com/4400-4800-TC for full details, terms and conditions.



SYSTEMS SPECIFICATIONS	DETAILS
<b>TABLE DIMENSIONS</b>	
4400	1,880 x 1,702 x 1,601mm (74"x67"x63")
4800	1,880 x 2,896 x 1,601mm (74"x114x63")
<b>MACHINE WEIGHT</b>	
4400	381 kg (840 lbs)
4800	568 kg (1252 lbs)
<b>TOOL CAPACITY</b>	
4400 - 4800	2
<b>WATER CAPACITY</b>	
4400	230 Litres (60 Gallons)
4800	405 Litres (107 Gallons)
<b>MATERIAL CAPACITY</b>	
4400 - 4800	25mm Steel
<b>POWER   AIR REQUIREMENTS</b>	
4400-4800 HMI   Motion Control	240V / 10A Dedicated Circuit
4400-4800 Air	87-109 psi (6-75 bar) 380 SCFH 180 SLPM
FlexCut 125 Plasma	415V / 3 / 50HZ
Machine Ground	Dedicated Earth Ground Supplied By Other
<b>PRECISION GEAR RACK AND PINION DRIVE SYSTEM</b>	
Stepper Motors	{ 3 } 2.796 N.m
Belt reduction	{ 3 } 3:1
Linear Guidance	20mm Profile Linear Rail
Gear Engagement	Spring Loaded
Gantry Carriage	Milled 9.525mm (3/8") Aluminum
Traverse Speed	12,700mm/min (500ipm)
Machine Repeatability	0.0381 mm (0.0015")
Gantry Clearance	125mm (5")
Frame Construction	3/16" Mild Steel
<b>CUT CAPACITY   SPEED (MILD STEEL)</b>	
Maximum Pierce Capacity	25mm
6.35mm (1/4")	3,935mm/min (155ipm)
12.7mm (1/2")	1,855mm/min (73ipm)
19mm (3/4")	1,320mm/min (52ipm)
25.4mm (1")	815mm/min (32ipm)

#### SYSTEM INCLUDES:

- Complete 4x4 or 4x8 dual tool cutting area CNC plasma
- 125 amp plasma cutter - Cuts up to 25mm Steel
- Next Generation Digital Height Control
- Magnetic Torch Breakaway
- Visual Machine Designer Software and Shape Library
- CAD Software
- DXF Importer [use with any CAD]
- Integrated Water Table
- Touch Screen HMI
- Slat Supports
- Consumable Starter Kit
- Technical Phone Support
- 2 year complete, single source warranty
- Consumable Program

#### CUSTOMER ASSISTANCE POLICY

Lincoln Electric® business 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 advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric® is not in a position to warrant or guarantee such advice and to the extent permitted by law assumes no liability, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given. The provision of information or advice does not create, expand or alter this warranty.

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 this type of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing.

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SYSTEMS AND ACCESSORIES	PRODUCT NUMBER
<b>MACHINE TORCH</b>	
Torchmate 4400 CNC Plasma Cutting Table (4x4 cutting area)	LECS-125-4400-CE
Torchmate 4800 CNC Plasma Cutting Table (4x8 cutting area)	LECS-125-4800-CE
<b>CONSUMABLES-MACHINE CUTTING</b>	
Electrode (45-125A), LC125m (5-pack)	BK14300-1
Shield cap (45-65A), LC125m (2-pack)	BK14300-3
Shield cap(85A-105A-125A), LC125m (2-pk)	BK14300-4
Nozzle (45A), LC125m (5-pack)	BK14300-7
Nozzle (65A), LC125m (5-pack)	BK14300-8
Nozzle (85A), LC125m (5-pack)	BK14300-9
Nozzle (105A), LC125m (5-pack)	BK14300-10
Nozzle (125A), LC125m (5-pack)	BK14300-11
Swirl ring (45A-125A), LC125m (2-pack)	BK14300-13
Retaining cap (45A-125A), LC125m (1-pk)	BK14300-14
Retaining cap(45A-125A) CTP, LC125m (1pk)	BK14300-15
<b>CNC PLASMA MACHINE CUTTING ACCESSORIES AND OPTIONS</b>	
Pneumatic Plate Marking Tool	TMS-203-1000-21
Expanded Clip Art Gallery (Over 6000 Ready-To-Cut Files)	TMS106-0031-04
Educational Curriculum	K4433-1
EDU CAD Upgrade	TMS-106-0011-01
Plasma Clean Water Conditioner 20 Litres	TMPC-20



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