

# Lincoln Electric® Torchmate® 5100

## Industrial 5x10 CNC Plasma Cutting Table

### Built to Withstand Industrial Settings

- Downtraft or water table available
- Designed for multiple shift operation
- Excellent repeatability & reliability
- Fully assembled unitized system

### Spend Less Money Cutting Parts

- Extended machine life expectancy
- High quality, durable consumables
- Minimal part clean-up needed

### Easy to Use

- Advanced and user friendly touch screen HMI
- Flexible training resources
- Simple machine setup

### Peace of Mind Dependability

- 1 year machine warranty
- 3 year power supply warranty
- Industry leading technical support
- 125 years in business



\*Product May Be Different Than Shown

### Plasma Cutting System Options

#### FineLine® 170HD & 300HD

- Smallest diameter 300A torch in the industry
- High definition superior cut quality & consistency
- Advanced hole & cut geometries

#### FlexCut® 200

- Quick-disconnect torch head
- Production piercing up to 1.25 inches
- Liquid cooled plasma torch

#### FlexCut 125

- Equipped with plasma marking
- Most economical power supply option
- 100% duty cycle at every amperage

### APPLICATIONS

- Maintenance Facilities
- Fabrication Shops
- Manufacturing
- Structural Steel Contractors
- Ship Building
- Mining Industry
- Construction Industry

### PRODUCT HIGHLIGHTS

- Precision cut quality
- Water and Downtraft tables hold up to 4" 5'x10' mild steel plate
- Helical gear rack with self oilers
- Accommodates DXF and DWG files
- Multi-language capability

### KEY ACCESSORIES

- Rotating Bevel Head Attachment
- Motorized Lifter Oxy Acetylene Torch (Manual Gas Control)
- Prism™ fume collection system
- Two-Stage Air Filter Assembly
- Consumable Starter Kit
- Advanced Process Controller

# Lincoln Electric® Torchmate® 5100 with Bevel

## Industrial 5x10 CNC Plasma Cutting Table

### SPECIFICATIONS

#### Input Power

- 120V / 1Ph / 60Hz
- 380-575V / 3Ph / 50-60Hz

#### Machine Size

- 60" x 120" Cutting Area
- 113.5" x 166" Footprint

#### Traverse Speed

- 1,500 ipm

#### Cut Speed

- Up To 450 ipm

#### Plate Capacity - Holds up to 4" 5'x10' Mild Steel sheet

##### FineLine 300HD

- 1.75" pierce capacity (45mm) Mild Steel
- 3" cut capacity (75mm) Mild Steel - when starting cut from edge of material

##### FineLine 170HD

- 1.25" pierce capacity (32mm) Mild Steel

##### FlexCut 200

- 1.25" pierce capacity (32mm) Mild Steel

##### FlexCut 125

- 1" pierce capacity (25mm) Mild Steel

#### Weight

- 6,600 lbs

#### Operating Temperature

- 32-104° Fahrenheit

#### Motors

- Servo Motors Fitted with Rotary Glass Encoders

#### Drive System

- Helical Gear Rack and Hardened Pinion with Lubrication System

#### Linear Guidance

- Profile Linear Rail

#### Acceleration Rate

- Inline 0.05g
- Bevel 0.03g

#### Deceleration Rate

- Inline 0.05g
- Bevel 0.03g

#### Height Control

- Ohmic Sensing
- Automatic Torch Height Control
- 6" Z-axis Travel

#### Bevel Capabilities (Optional Accessory)

- +/-45° Cut, Dependent on Material Thickness and Plasma Configuration (Available for FC125 and FC200)

#### Software

- Easy-To-Use Lincoln Electric User Interface
- Optional CAD/CAM with Irregular Part Nesting

#### Fume Extraction (Optional Accessory)

- 1,030 to 1,483 ft<sup>3</sup>/min or 61800 to 89,990 ft<sup>3</sup>/hour
- Automatic Filter Cleaning, Pressure Controlled

#### Safety

- Dual-Channel Safety System Supporting Emergency Stop Switch
- Safety System Extended To External Peripherals
- External Drive Power On Switch

#### Machine Construction

- Fabricated Steel Frame with Powder Coated Finish

#### Warranty

- \*1 Year machine warranty
- \*3 Year power supply warranty

#### CUSTOMER ASSISTANCE POLICY

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.lincolnelectric.com](http://www.lincolnelectric.com) for any updated information.

Downdraft cutting tables are equipped with an integrated downdraft fume extraction and spark arrest system to help reduce fumes and gases entering the working environment. The effectiveness of fume extraction and control systems are affected by various factors including proper use and maintenance of the equipment, and the specific cutting process and application involved. Before use, the customer should perform operator exposure monitoring for the specific application in order to determine if additional fume extraction and control solutions are required to restrict operator exposure to within regulatory limits for constituents of the fume and gases, such as OSHA PEL and ACGIH TLV limits. A hazard and risk assessment should also be completed by the customer to determine the frequency of additional operator exposure monitoring.

Please visit [www.torchmate.com/safety](http://www.torchmate.com/safety) for more information.

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