



## SCORPION LDR INSERTION

PRECISE • FAST • NON-STOP PRODUCTION



The Scorpion LDR is a 5th Generation CNC fastener insertion machine designed for profitability, speed, and ease of use for the woodworker. It can reduce your assembly time by 70%.

### QUICK LINKS



See the Scorpion LDR in action on Youtube

**GET A QUOTE**

**SEE FINANCING OPTIONS**

**BUILD YOUR OWN**

### SCORPION LDR AT A GLANCE

**STARTS AT \$79,800**

DIRECT FACTORY PRICING

#### Inclusions:

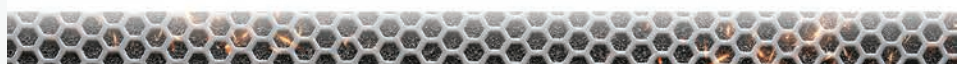
- Lifetime Technical Support
- CNC Factory Lean Manufacturing University

#### Features:

- Patented dual high-speed drilling
- On-board air-cooled spindle with auto sensing & positioning
- 2 robotic insertion guns & upgradable to 5 guns
- Drill Library including 5mm, 8mm and 8.2mm
- 96" material working space
- High capacity adjustable material hold down
- Auto jam self cleaning
- Works with standard & dowels with no tool changing
- With 5G virtual remote access
- Flat pack production ready
- CNC remote control

#### Production Software Installed:

- 99 parametric presets
- Built-in visual G-code editor— no coding needed!
- Multi-edge mode ready with graphical interface
- Barcode ready with integrated reader included





ABOUT US

CNC Factory, Inc., located in Southern California, USA, began over 20 years ago as a one-man business with a clear goal and dedication to helping companies embrace CNC automation.

This vision is core to our legacy as we design and manufacture high-quality, precision CNC routers and machining centers, to meet the urgent business needs of our customers. At CNC Factory, we understand since inception, that providing the fastest, most accurate and dependable CNC Machines and supporting products is only the beginning of meeting our customers’ needs - we never leave them all by themselves. Together with our German, Italian and worldwide support partners, world-class machining capability is truly just the beginning.

With us at the back of (sometimes beside) our customers, their businesses have grown and we’ve meet their needs from quality and efficiency to the bottom line. We think beyond machine building. We also grant access to factory direct support and training before and after installation for our customers.

THE MOST IMPRESSIVE SERVICE AND  
SUPPORT WARRANTY IN THE USA



**Lifetime Support**  
included with every  
Scorpion Machine



**Advance Exchange Program** on major  
components



**18-Month Warranty** for greater  
peace of mind



**On-Site Support**  
options available



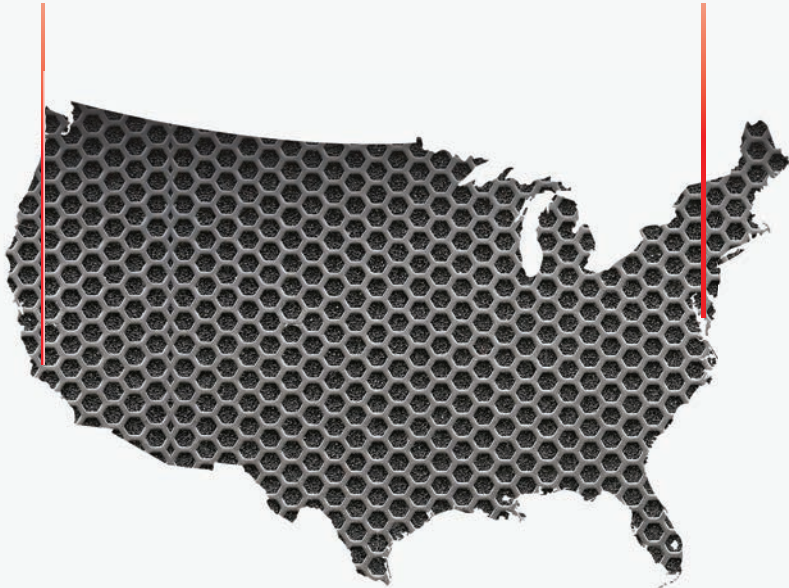
**Virtual Support** to help guide  
your staff at the  
machine level



**On-Site Installation** and  
training options available

WEST COAST  
**California**

EAST COAST  
**New Jersey**



[www.CNCfactory.com](http://www.CNCfactory.com)



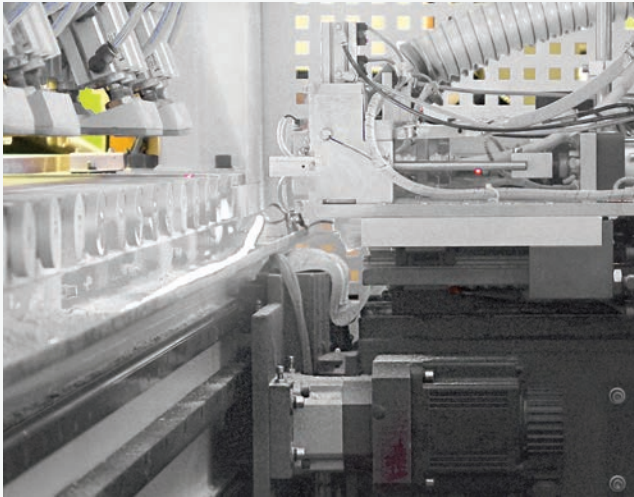
**714-581-5999**



[sales@cncfactory.com](mailto:sales@cncfactory.com)



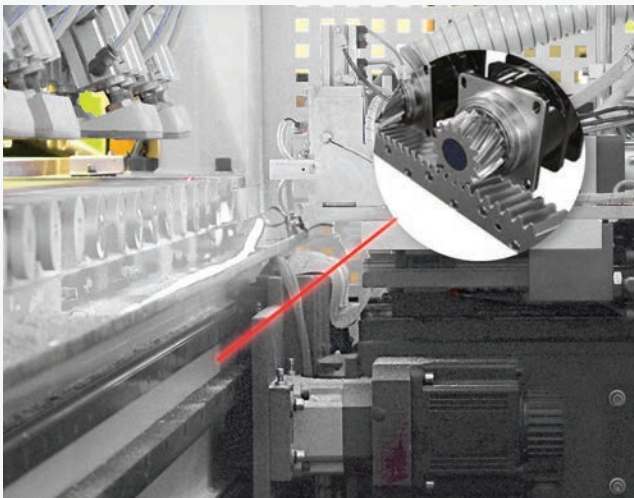
## FEATURES



### **5 ROBOTIC DRILLS DUAL DRILL PROCESSING**

The Scorpion got its name from how fast it drills using a patent-pending 5-drill bank library. Automatically drilling up to 2 holes at a time, it reduces processing by more than 50%.

With on-screen material selection, the Scorpion dials in the perfect production requirements in seconds by automatically choosing the correct drill(s) from its library of on-board 5mm, 8mm, and MDF 8.2mm drills, without having to manually change bits when switching.



### **5TH GENERATION HELICAL RACK & PINION**

It has 5th generation helical rack and pinion gear movement on the X and Y axes. It offers the highest resolution control especially at high speeds with faster and smoother travel positioning times with precision linear guide rails on all axes.



### **LARGE PRODUCTION RUNS AUTOMATIC TROUBLESHOOTING**

We do all the thinking for you. There is no tool changing needed when you switch fasteners. In the rare case of clips jamming, the Scorpion self-cleans, reloads, and resumes operation on the same position. You won't even know there was a jam until you look in the recycling bin.



### **ROBOTIC LEAN MANUFACTURING**

The Scorpion has 4 operational-independent workstations, patent-pending laser technology, and a graphical touchscreen interface that reduces employee fatigue by 50%. It can be manned by a single, unskilled operator and allows flat packing.

The Scorpion also has remote manager access and pictorial instruction screens for ease of use.



# FEATURES

## MULTI MODE CAPABILITY

Boosting production and flexibility, the Scorpion offers 3 different operation modes where others only can offer one.

- Parametric Mode
- G-Code Mode
- Multi-Edge Mode

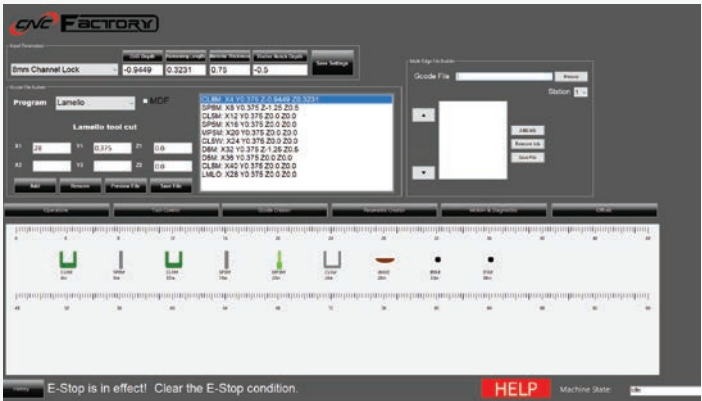
The Scorpion LDR makes integration easy and possible with your current software, CNC machines, and production output. It is easy to learn and use with its game-changing operator instructions and pictures, customizable on-the-fly programing with visual graphics, and virtual communication.



## PARAMETRIC MODE

It readily mirrors your current CNC software parametric for ease of production. Operators simply load the material and press GO then the Scorpion automatically laser measures and performs drilling and insertion based on your current CNC software settings.

It can have multiple parametric slots -the most in any CNC insertion machine- for customized canned cycles. Easily make general purpose boring routines even without CAD/CAM software.



## G-CODE MODE

Create your own drilling and insertion methods with the intuitive & visual G-Code editor. Perfect for custom and on-the-fly directions for insertion methods in a matter of minutes.

Barcode scanning of your existing cut parts is automatic in G-Code mode and boasts of the fastest processing times of any insertion machine on the market.



## MULTI-EDGE MODE

The Scorpion LDR comes equipped with Multi-edge operations for high output and continuous operation across all 4 workstations.

Each station can be individually programmed with unique and independent operations so it can skip the standard measuring or barcode-reading steps since it already knows its cycle, resulting in faster production.

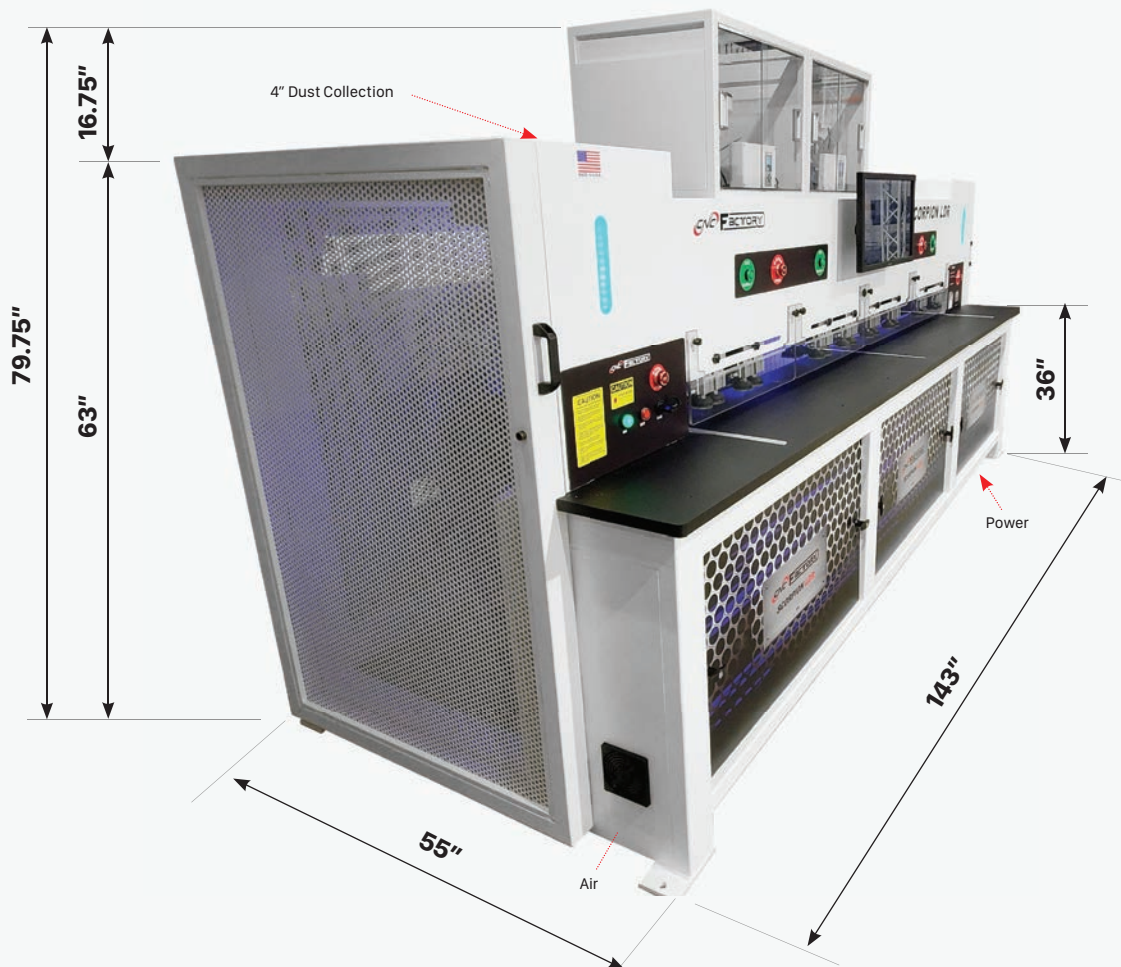
This is also reflected in easy-to-understand text and pictorial instructions on the screen so there's no confusion for the operator. That's the power of 5th generation CNC.



TECHNICAL SPECS

Robotic Drilling	Dual 8mm, Dual 8.2mm, Single 5mm
Available Configurations	LockDowel H-Clip, Channel Lock, Mini, wooden dowel FastenLink, Lammello and Ovvo
On-Board Spindle	3HP air-cooled spindle with 0.375 Cutter
Material Hold-Down	<ul style="list-style-type: none"><li>• Auto-sensing material length for automatic hold-down up to 96"</li><li>• 6 hold down clamps per station</li></ul>
Workstations	4 workstations with embedded and auto alignment rails
Robotic Insertion Guns	Equipped with 2 feeders and guns. Upgradable to 5.
Lubrication	On-board pressurized lubrication system
CNC Control	6-axis robotic 5th generation CNC controller
Front End	21" touch screen, keyboard, camera and bar code reader
Communication	Virtual, with on-board WiFi and ethernet connection
Power	208-240 Volts, 3-phase, 30amp  *Single-phase option available
Air	1/2" inlet, 120psi, 8 bar, 10 cfm
Dust Collection	4" port , 1500 cfm
Weight	5800 lbs

FOOTPRINT





## TERMS AND INSTALLATION

### Terms of Payment

Terms of payment offered, or any terms agreed upon, are subject to credit approval if needed. This offer is subject to CNC Factory General Terms and Conditions of Sale. This order is subject to prior purchase of the equipment. Price quoted is for the machine as described above and is subject to change with notice or if the specifications for the machine are changed at the request of the buyer.

### Shipment

Shipment is subject to delay should changes be made to meet the requirements of the purchaser from CNC Factory's design specification stated herein.

### Installation, Training, Support and Conditions

Installation, when purchased, will be performed by a CNC Factory-trained service technician or Certified Dealer Technician. Installation is to be understood as the assembly of the machine to the "ready to run" state. It does not include floor, masonry work, machine leveling, the running of electrical, pneumatic or dust extraction services to the site. Training will be on the machine operations only. Software training, if any, can be done before or after installation by CNC Factory University training services. Training will be conducted on site by the service technician after installation has been completed.

CNC Factory is committed to maximizing your production time. Your machine may contain built-in safety/operational messages. You can contact CNC Factory Support Department at 714-581-5999 if you receive a machine message.

### Warranty and Lifetime Support

CNC Factory is proud to give you a lifetime of machine support and warrants the machinery will be free of defects in workmanship and materials for a period of 18 months beginning on the date of delivery. This warranty does not include parts consumed during normal operation (wearable) or maintenance required in the ordinary course of operation.