

# CAMaster Options for the Stinger Line of CNC Machines

## Recoil Indexing Lathe (All Stingers)

The Indexing Lathe is mounted on the side of the machine so it does not interfere with the table top when it is not in use. It comes with a head stock, tail stock, rails, and motor/drive system. The tail stock is a removable, live center point. For the Stinger I and Stinger II, the head stock comes with a ¾" x 16 TPI threaded shaft so that an optional face plate or jaw chuck can be mounted. For the Stinger III, the head stock comes with a 1" x 8 TPI threaded shaft. The Stinger's spindle/router moves bi-directionally along the length of the material and does the carving. *Indexing* means that the work material can be rotated 360 degrees.

<b>Stinger I (SR-23):</b>	For carving stock up to 6" diameter and 36" in length
<b>Stinger I (SR-24):</b>	For carving stock up to 6" diameter and 48" in length
<b>Stinger II (SR-34 &amp; SR-44):</b>	For carving stock up to 10" diameter and 48" in length
<b>Stinger III (SR-48):</b>	For carving stock up to 12" diameter and 96" in length

## Recoil Indexing Lathe Ready (All Stingers)

The option allows you to add a Recoil Indexing Lathe in the future. Machine comes with a 4th axis controller, and drive installed and enabled in the software. The Motor wires to recoil are also installed making it ready for future "plug in" of a recoil head. The Gantry is also extended to accommodate the recoil indexing lathe.

## Counter Balance (All Stingers)

The role of a Z-Axis Counterbalance is to equalize the forces in both up and down directions on the Z-Axis. This helps increase the performance of your machine's Z-Axis and also increases the longevity of your Z-Axis motor which sees all of the up and down movement while cutting. It requires compressed air to operate and uses a standard 1/4" NPT air fitting. It comes with an air regulator preset to the correct resistance. *This option comes standard with the X3 Option.*

## Fast Tool Change (FTC) (All Stingers)

If your work requires frequent tool changes, the FTC option is a safety feature as well as a fast way to make tool changes within a program. It comes with a "micro touch plate" mounted to the side of the table that measures the length of the new cutting tool and gives that information to the operating software making tool changes a "touch and go" operation. *This option comes standard with the X3 Option.*

## Laser Cross Hair (All Stingers)

The laser pointer is a great way to quickly set the starting position of the spindle's both the X and Y axis, similar to the way the laser cut line works on miter saws. The high strength red diode places a "cross hair" on the material allowing a user to set an X-Y zero where the cutting tool will start machining. Since the dust boot covers the cutting tool the laser light is the perfect solution for placing the work piece right where it needs to be on the table.

## Stinger Performance Packages: A great deal! (Not Available with the X3 Option)

### **Performance Package – Basic (All Stingers)**

This package includes the **Fast Tool Change and Laser Cross Hair** options offering you a savings of \$145 over what it would cost to buy these options individually.

### ***Performance Package – Plus (All Stingers)***

This package includes ***Fast Tool Change, Laser Cross Hair and a Counter Balance***. This package offers you a savings of \$190 over what it would cost to buy these options individually.

### ***Performance Package – Pro (All Stingers)***

This package includes ***Fast Tool Change, Laser Cross Hair, Counter Balance and a 2" Gantry Lift***. This package offers you a savings of \$385 over what it would cost to buy these options individually on the Stinger II and Stinger III and a savings of \$285 on the Stinger I.

### **Phenolic Table Top (All Stingers)**

The Phenolic Table Top option upgrades you from the standard MDF Top. A Phenolic Top is utilized just as the MDF, but with these added advantages:

- a) Phenolic is a non-porous substrate that is a great option if you plan to cut nonferrous metals with your CNC Router as it will not absorb moisture from the lubricant used while cutting. An MDF Top will absorb the moisture and swell up, distorting the accuracy of the machine.
- b) With the Phenolic being non-porous, it is great for vacuum tables. On standard tables the MDF can bleed air, losing valuable vacuum or CFM.

### **T-Slot Clamping Table and Extra Clamps (All Stingers)**

Several aluminum T-Slot tracks are recessed into the supplied tabletop. Four clamps are included and may be slotted into the appropriate tracks to accommodate work pieces of different sizes. Extras clamps are available in sets of 2.

### **Vacuum Table Top (All Stingers)**

A vacuum table top, routed into the standard MDF or Phenolic Top will hold your work pieces in place by the air pressure exerted by a vacuum pump. A vacuum pump eliminates the need for clamping your work piece to the table top and can be a time-saver if your work requires a constant parade of work piece changes throughout the day. CAMaster will rout out a vacuum plenum with the appropriate number of standard zones for each Stinger model and will install all plumbing, connections and valves for the operation of the zoned table. CAMaster can provide you with a vacuum pump; prices vary depending on pump size.

### **Vacuum Table Top with T-Slots Tracks (Stinger II and Stinger III Only)**

A vacuum table top combined with aluminum T-Slot tracks. This gives you the ability to use either use a vacuum system or clamping to hold down your work pieces. Four clamps are included and may be slotted into the appropriate tracks to accommodate work pieces of different sizes.

### **The Hurricane, Cyclone and Storm Vacuum Systems**

The Hurricane, Cyclone and Storm Vacuum Systems operate on Single Phase 220-230V Power. This is ideal for small shops as it saves them from expensive phase converters or power drops. The Hurricane Vacuum System creates 400 CFM as well as 9.5 In Hg. The Cyclone Vacuum System creates 300 CFM as well as 9.5 In Hg. The Storm Vacuum System creates 190 CFM as well as 9.5 In Hg. **If purchased with your machine, an MDF Vacuum Table Top comes with the machine. T-Slot Clamping Table and/or Phenolic Table Top options above can be added.**

## **Spindle Upgrade Options**

### **a) 1 HP HSD Collect Spindle\***

This is an HSD air cooled electro-spindle made in Italy. It utilizes the ER20 collet and includes collet sizes (one each) 1/4", 3/8", and 1/2". This option comes with Spindle Speed Control which gives user precise control of Spindle RPM through WinCNC. This option also comes standard with Spindle On/Off, controlled via G- Code.

**\* This spindle runs on 110 V.**

### **b) 1.0 KW (1.34 HP) HSD Collet Spindle**

This is an HSD air cooled electro-spindle made in Italy. It utilizes the ER20 collet and includes collet sizes (one each) 1/4", 3/8", and 1/2". This option comes with Spindle Speed Control which gives user precise control of Spindle RPM through WinCNC. This option also comes standard with Spindle On/Off, controlled via G- Code.

### **c) 1.7 KW (2.28 HP) HSD Collet Spindle**

This is an HSD air cooled electro-spindle made in Italy. It utilizes the ER25 collet and includes collet sizes (one each) 1/4", 3/8", and 1/2". This option comes with Spindle Speed Control which gives user precise control of Spindle RPM through WinCNC. This option also comes standard with Spindle On/Off, controlled via G- Code.

### **d) 3.0 KW (4.02 HP) HSD Collet Spindle**

This is an HSD air cooled electro-spindle made in Italy. Utilizes the ER25 collet and includes collet sizes (one each) 1/4", 3/8", and 1/2". This spindle comes standard with Spindle Speed Control for precise control of Spindle RPM through a WinCNC. This option also comes standard with Spindle On/Off, controlled via G- Code.

### **e) 3.9 KW (5.22 HP) HSD Collet Spindle**

This is an HSD air cooled electro-spindle made in Italy. It utilizes the ER32 collet and includes collet sizes (one each) 1/4", 3/8", and 1/2". This option comes with Spindle Speed Control which gives the user precise control of Spindle RPM through WinCNC. This option also comes standard with Spindle On/Off, controlled via G- Code.

## **7W Laser Engraver (All Stingers)**

A high powered laser that is fully integrated to the CNC machine. The laser is capable of both vector engraving often referred to as "scoring" and raster engraving. The laser will engrave multiple types of materials including wood, plastics, foam, paper, cardboard, rubber, leather, ceramic, anodized aluminum, PVC, vinyl, acrylics and more. The laser will raster both color and greyscale images.

## **Gantry Lift (All Stingers)**

This option will give you 2 more inches of work room under the Gantry. With this option, the Stinger I work room is 7" instead of 5" and the Stinger II & III is 8" instead of 6". This option DOES NOT increase the Z travel of the machine. The Z axis travel on the Stinger I is 7.5" with 5" below the gantry and on the Stinger II and Stinger III, it is 7.75" with 6" below the gantry. *This option comes standard with the X3 Option*

### **CAMaster X3 Option (Stinger II and III only)**

The X3 option allows you to add two 2.25 HP Milwaukee routers alongside the installed cutting head. Each side router is pneumatically raised/lowered and turned on/off via G-Code commands, making project completion faster because you don't need to spend as much time changing the tools you need for various phases of your project. Also included with the X3 is the Fast Tool Change (FTC), Counter Balance kit and 2" Gantry Lift. You can upgrade the center router to any of the Spindle Options above [Click here to Read More on the X3.](#)

### **Oscillating Tangential Knife (Stinger II and III only)**

An Oscillating tangential knife is designed to provide high accuracy cutting of a wide range of soft and semi rigid materials including but not limited to Graphic Foam boards, Closed Cell Foam, Plastic-covered Foam, Corrugated Cardboard and Plastic, Gasket Materials, Rubber, Cork, Carpet, Felt and other Single-ply Cloth or Fabric, Vinyl and more. Electrical Blade oscillation and tangential control ensures that the cutting blade delivers accurate cuts even on thicker materials without excessive over cut. The Oscillating knife is available with a wide range of blade lengths to suit a wide variety of materials. Comes standard with an air permeable cutting mat that is placed on the tabletop of your CNC machine when using the knife. Air permeability allows the mat to be used while using a vacuum system.

### **Non-Oscillating Tangential Knife (Stinger II and III only)**

A Non-oscillating tangential knife is designed where the blade is rotated by an actuator in each direction of cutting. It comes with a gliding shoe that is used to hold down the material when cutting and can be adjusted depending on the holding force required. Comes standard with an air permeable cutting mat that is placed on the tabletop of your CNC machine when using the knife. Air permeability allows the mat to be used while using a vacuum system.

### **Mister System (All Stingers)**

The Mister System provides a cost-effective solution for cutting nonferrous metals. When used in non-ferrous cutting applications, the Mister System dispenses small amounts of Micro-Drop synthetic or vegetable-based lubricant to cool and lubricate the cutting tool. A phenolic top is recommended as it will not absorb moisture from the lubricant used while cutting.

### **Stinger I Stand**

The stand is custom built from welded heavy gauge 1 1/2" square steel tubing and powder coated black. The stand comes with the following features: The top shelf is adjustable to accommodate user needs, frame bolts into tapped holes at the top of the stand and the Machine frame stock levelers are attached to tapped holes at the bottom of the stand. Also included with the stand are four casters. Some assembly is required. Instructions are included.

### **Wireless Internet Adapter (All Stingers)**

The Wireless Internet Adapter gives you the ability to utilize our Online Remote Technician and Online Diagnostics services. Just plug the Wireless Adapter into the computer, connect the computer to your Wi-Fi network and you are good to go. Our Wireless Adapter is tested to ensure that it is compatible with the computer that comes with your machine.

### **Maintenance Kit (All Stingers)**

The Maintenance Kit contains almost everything you need to tune-up your machine in one convenient package. The Kit includes a Grease Gun, Needle Adaptor, Two Tubes of Grease and Maintenance Instructions.

## **Remote Handheld Keypad (All Stingers)**

The Remote Handheld Keypad is a great way to operate your CNC Control PC without having to use a cumbersome keyboard. The keypad connects to your PC via a 15' USB cable. The keypad is made to withstand dusty conditions and high temperatures. The keypad comes with 20 pre-programmed buttons. No driver or additional software is needed making it a true plug and play system.

## **10 Piece Stinger Bit Set (All Stingers)**

A range of 10 bits to get you started carving in several substrates: wood, acrylic, and non-ferrous metals. These bits are manufactured by Southeast Tools and made in the USA.

***1/4" 60° 3-Flute V-Bit***

***1/4" 2-Flute Spiral Upcut***

***1/2" 90° 2-Flute V-Bit***

***1/2" 60° 2-Flute V-Bit***

***1/4" Ball Nose 2-Flute Upcut***

***1/8" Ball Nose 2-Flute Upcut***

***1/4" 60° 2-Flute V-Bit***

***1/4" O-Flute***

***1/4" 2-Flute Spiral Downcut***

***1 1/2" Stair Tread & Bottom Cleaning Bit (Spoilboard Surfacing Bit)***

## **Training Options**

CAMaster personnel can assist you with training in the use of software and/or machine operation, depending on your needs. Training can be done either at Customer's location, at CAMaster's facility or Online

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**Thank you for your interest in the Stinger line of CNC Routers. At CAMaster, we are focused and driven to bring the best value and service to the CNC market. If you have any questions, please contact a sales associate who will be more than glad to help you with your new CNC Router purchase.**

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