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.

Stinger I (SR-23): For carving stock up to 6” diameter and 36” in length
Stinger II (SR-34 & SR-44): For carving stock up to 10” diameter and 48” in length
Stinger III (SR-48): 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 Counter Balance is an air cylinder mounted to the router/spindle assembly designed to “assist” the router/spindle in returning to the “up” position thus taking some of the load off of the Z axis drive motor. 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.

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 is not available 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 – Premium**  (Stinger II only)

This package includes **Fast Tool Change, Laser Cross Hair, Counter Balance and an upgrade to the 900 oz motors for greater torque, power and speed**. This package offers you a savings of $285 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.

**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.

**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.

**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.

**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 382 CFM as well as 9.5 In Hg. The Cyclone Vacuum System creates 285 CFM as well as 9.5 In Hg. The Storm Vacuum System creates 190 CFM as well as 9.5 In Hg. The Hurricane and Cyclone systems mount to the frame of the Stinger II & Stinger III and the Storm is a standalone unit. If purchased with your machine, the vacuum system is installed and plumbed as well as having the vacuum grid routed on your table top.
Digitizing Touch Probe  (All Stingers)

With a digitizing touch probe attached to your Stinger, you can scan an object’s exact X, Y, and Z axes dimensions. A digital file is created that allows you to reproduce the object on your Stinger. In many cases, this is a reasonable alternative to designing a product from the ground up. For example, you may need to replace a chair leg that’s broken. If you can fit the broken pieces together reasonably well, the touch probe will allow you to create a replacement leg after scanning the broken one. Appropriate software may be required depending on the application.

Spindle Upgrade Options

a) 3.5 HP Milwaukee Router Model 5625-20 (Stinger I and II only)

This is a variable speed router and comes with the bracket to fit a Stinger I or II (this router is standard on the Stinger III). Both 1/4” and 1/2” collets are provided. A Counter Balance is recommended to help the heavier router traverse the Z-axis.

b) 1.0 KW (1.34 HP) HSD Collet Spindle

Utilizes the ER20 collet and includes collet sizes (one each) 1/4”, 3/8”, and 1/2”. This option comes with the required VFD for spindle speed control, controlled via a dial on the exterior of control box. This option comes standard with Spindle On/Off, controlled via G- Code. This is an HSD air cooled electro-spindle made in Italy. A Counter Balance is recommended to assist in the Z-axis spindle motion.

c) 1.7 KW (2.28 HP) HSD Collet Spindle

Utilizes the ER25 collet and includes collet sizes (one each) 1/4”, 3/8”, and 1/2”. This option comes with the required VFD for spindle speed control, controlled via a dial on the exterior of control box. This option comes standard with Spindle On/Off, controlled via G- Code. This is an HSD air cooled electro-spindle made in Italy. A Counter Balance is recommended to assist in the Z-axis spindle motion.

d) 3.0 KW (4.02 HP) HSD Collet Spindle (Stinger II and III only)

Same as previous option; just more horsepower. A Counter Balance is recommended to assist in the Z-axis spindle motion due to the size of the spindle.

Spindle Speed Control  (All Stingers)

The user gains precise control of Spindle RPM through a WinCNC hardware and software upgrade. Available only on Spindle Upgrade Options (b-d above).

Motor Upgrade  (Stinger II Only)

Upgrade to NEMA 34  900 oz motors from the standard NEMA 34 650 oz size motors. This option gives your machine more power, greater torque and greater speed.

Closed Loop Stepper Motor System Upgrade  (Stinger II and III only)

The Closed loop stepper system provides real-time position accuracy. The motor position is updated every 25 microseconds, ensuring that the motors will not lose or gain steps at anytime. Closed loop stepper systems generate higher torques, lower motor heating, lower vibration, and lower noise than open-loop stepper systems.
**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.

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

Only available on the Cobra line until recently, the X3 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 is a 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. 

*The Fast Tool Change (FTC) option is not available with the X3.*

**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. Compared to flood cooling, there is no coolant sump to maintain or used coolant to dispose of. 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.

**USB Wireless Adapter (All Stingers)**

A USB Wireless Adapter is an easy way for your computer to connect to the Internet wirelessly. If a wireless network is already in place, you simply need to plug the Wireless Adapter into an available USB port on the computer, start up the computer, and you will be connected with to the internet. Our USB 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
- 1/2" 60° 2-Flute V-Bit
- 1/4" 60° 2-Flute V-Bit
- 1/4" 60° 2-Flute V-Bit
- 1/4" 60° 2-Flute V-Bit
- 1/2" 90° 2-Flute V-Bit
- 1/4" 2-Flute Spiral Upcut
- 1/4" Ball Nose 2-Flute Upcut
- 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.

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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