

SHERLINE CNC Components List

Sherline/MASSO CNC Controllers	
<p>CNC MASSO CONTROLLER FEATURES: The MASSO CNC controllers include WiFi communication, USB 4 GB flash drive, spindle speed control with g-code, single-point threading, accurate RPM readout, homing ability for each axis, and regular software upgrades. The optical encoders listed below in the next section are required to use the MASSO CNC controller. The MASSO CNC controller allows you to write your CNC programs on your computer (Windows, Mac, Linux, etc.) and then transfer your program to the controller via a USB flash drive. No more having to use a dedicated operating system like Linux to control your machine.</p>	
P/N	Description
8780	MASSO Controller w/4-axis driver box (P/N 8760)
8781	MASSO Controller Same as above, but without the 4-axis driver box
<p>NOTE: You must provide the following: a monitor, a wireless keyboard and mouse set with a USB dongle. The USB dongle plugs into the USB AUX port on the controller and needs to work with both input devices.</p>	
Optical Encoders	
<p>An optical encoder is required to use the MASSO CNC controller. The optical encoder was designed by MASSO to work with Sherline machines in conjunction with the MASSO controller. Optical encoder assemblies include the optical encoder kit, cables, and all mounting hardware. When ordering your optical encoder online, you must select your machine model, leadscrew type, and headstock options to receive pricing.</p>	
8767 (LLS)	Optical Encoder for lathe with standard leadscrews & standard headstock
8767 (LL3C)	Optical Encoder for lathe with standard leadscrews & 3C headstock
8767 (MLS)	Optical Encoder for mill with standard leadscrews & standard headstock
8767 (ML3C)	Optical Encoder for mill with standard leadscrews & 3C headstock
8767 (LBS)	Optical Encoder for lathe with ball screws & standard headstock
8767 (LB3C)	Optical Encoder for lathe with ball screws & 3C headstock
8769 (MBS)	Optical Encoder for mill with ball screws & standard headstock
8769 (MB3C)	Optical Encoder for mill with ball screws & 3C headstock
<p>NOTE: If you already have an optical encoder for your mill, you can add another optical encoder for your lathe, or vice versa without having to purchase another controller.</p>	
Limit Switch Assemblies	
<p>Limit switches are not required to use the MASSO CNC controller. Limit switch assemblies include the limit switches, cables, and all mounting hardware. When ordering your limit switch assemblies online, you must select your machine model, leadscrew type, and number of axis options to receive pricing. You may connect them to any controller that is configured to work with our limit switches.</p>	
8785	XYZ Ball Screw Mill Limit Switch Assembly Set
8793	XYZ & A Ball Screw Mill Limit Switch Assembly Set
8795	XZ Ball Screw Lathe Limit Switch Assembly Set
8772	XYZ 5400 Leadscrew Mill Limit Switch Assembly Set
8799	XYZ 2000/5800 Leadscrew Mill Limit Switch Assembly Set
8794	XYZ & A 5400 Leadscrew Mill Limit Switch Assembly Set
8779	XYZ & A 2000/5800 Leadscrew Mill Limit Switch Assembly Set
8778	XZ Leadscrew Lathe Limit Switch Assembly Set
8790	XZ Chucker Lathe Limit Switch Assembly Set
8740	Rotary Table Limit Switch Assembly
CNC Accessories	
3701	Right angle attachment for holding rotary table in vertical position.
3702	Right angle adjustable tailstock for supporting end of long parts held in rotary table mounted in 3701 above.
3750	Tilting angle table holds rotary table in vertical position or any angle from 0-90°.
67126	Hi-Torque Stepper Motor —191oz-in, 2 amp, NEMA 23 frame dual shaft (5-pin plug wired for use with Sherline CNC systems).
67127	Stepper Motor —109.71oz-in, 2 amp, NEMA 23 frame dual shaft (5-pin plug wired for use with Sherline CNC systems).
67130	Stepper Motor without plug —109.71oz-in, 2 amp, NEMA 23 frame dual shaft.
8730	4" Rotary table with stepper motor and plug ready to operate as 4th axis on Sherline CNC systems.
8760	4-axis powered driver box with four stepper motor connection cables, power supply and parallel cable for connection to your computer parallel port. CNC software included.
87655	Driver Box Case —This case allows you to remove the CNC driver board from your Sherline Linux CNC computer and install it in a dedicated enclosure.
8763	Parallel Port Signal Booster —Amplifies signal from computer's parallel port to the stepper motor driver box.

SHERLINE CNC Upgrade Kits List

Upgrade from Manual Machines to CNC-Ready	
Manual to CNC-Ready upgrade kits include a Z-axis CNC leadscrew, motor-mount kits with stepper motor mounts, CNC couplings, preload nuts, and preload bearings.	
P/N Inch (Metric)	Description
6720 (6725)	4000/4500-series lathes CNC upgrade —Includes mount kit with two stepper motor mounts.
6730 (6735)	4400-series lathes CNC upgrade —Includes mount kit with two stepper motor mounts.
6700 (6710)	5000/5400-series mills CNC upgrade —Includes mount kit with three stepper motor mounts.
6705 (6715)	2000-series mill CNC upgrade —Includes mount kit with three stepper motor mounts.
6758 (6759)	5800-series mill CNC upgrade —Includes mount kit with three stepper motor mounts.
NOTE: You must provide the following—NEMA 23 frame dual shaft stepper motors, a controller or computer, monitor, keyboard, and mouse.	
Upgrade from Manual Machines to Full CNC (w/o Computer Controller)	
Manual to Full CNC upgrade kits include a Z-axis CNC leadscrew, motor-mount kits with stepper motor mounts, 67127 standard stepper motors, 8760 4-axis driver box, cables, and CNC software.	
P/N Inch (Metric)	Description
6701 (6711)	5000/5400-series mills CNC upgrade —Includes 6700/6710 mount kit with three stepper motor mounts, three stepper motors, 4-axis driver box, cables, and CNC software.
6706 (6716)	2000-series mill CNC upgrade —Includes 6705/6715 mount kit with three stepper motor mounts, three stepper motors, 4-axis driver box, cables, and CNC software.
8758 (8759)	5800-series mill CNC upgrade —Includes 6758/6759 mount kit with three stepper motor mounts, three stepper motors, 4-axis driver box, cables, and CNC software.
6721 (6726)	4000/4500-series lathes CNC upgrade —Includes P/N 6720/6725 mount kit with two stepper motor mounts, two stepper motors, 4-axis driver box, cables, and CNC software.
6731 (6736)	4400-series lathes CNC upgrade —Includes P/N 6730/6735 mount kit with two stepper motor mounts, two stepper motors, 4-axis driver box, cables, and CNC software.
NOTE: You must provide the following—A controller or computer, monitor, keyboard, and mouse.	
Upgrade from CNC-Ready Machines to Full CNC (w/o Computer Controller)	
CNC-Ready to Full CNC upgrade kits include stepper motors, 8760 4-axis driver box, cables, and CNC software.	
P/N	Description
8765	Any CNC-Ready Sherline lathe CNC upgrade —Two 67127 standard stepper motors, 4-axis driver box, cables, and CNC software.
8766	Any CNC-Ready Sherline lathe CNC upgrade —Two 67126 hi-torque stepper motors, 4-axis driver box, cables, and CNC software.
8770	Any CNC-Ready Sherline mill CNC upgrade —Three 67127 standard stepper motors, 4-axis driver box, cables, and CNC software.
8771	Any CNC-Ready Sherline mill CNC upgrade —Three 67126 hi-torque stepper motors, 4-axis driver box, cables, and CNC software.
8775	Any CNC-Ready Sherline shop package CNC upgrade —Five 67127 standard stepper motors, 4-axis driver box, cables, and CNC software.
8776	Any CNC-Ready Sherline shop package CNC upgrade —Five 67126 hi-torque stepper motors, 4-axis driver box, cables, and CNC software.
NOTE: You must provide the following—A controller or computer, monitor, keyboard, and mouse.	
Mill CNC Ball Screw Retrofit Kits	
P/N	Description
6800	Mill Z-Axis Ball Screw Retrofit Kit includes a ball leadscrew, stepper-motor coupling, vertical milling column saddle for ball screw, and column saddle Z-axis ball nut mount
6810	Mill X/Y-Axes Ball Screw Retrofit Kit includes ball leadscrews, stepper-motor coupling, and the ball screw mill saddle (with nickel/Teflon plate)
6830	Mill Ball Screw X/Y/Z-Axes Retrofit Kit includes ball leadscrews, stepper-motor couplings, and the ball screw mill saddle (with nickel/Teflon plate) for the X/Y-axes, and a ball leadscrew, stepper-motor coupling, vertical milling column saddle for ball screws, and column saddle Z-axis ball nut mount
Ordering your new Ball Screw Retrofit Kits. You will need to supply the following information for your current machine so we can ensure you receive the correct length of the ball screw for each axis: Machine Model: _____ Mill Table Length: _____ Mill Base Length: _____ Mill Column Bed Length: _____	
Does your vertical milling column base have a 1/2" through-hole for the Y-axis Brass Cover Tube?	