



Custom Glass Blowing/Laser Welding Lathe FAQs

What to Know before Ordering a Custom Lathe

Take a look at the *Glass Blowing/Laser Welding Lathes* section on the Sherline Industrial Products web page, [Custom Designed and Built Machines and Components](#), and you will see several pictures. You can click on each picture on the page to get a larger view and check them out.

Basic Lathe Information

1. Most of the machines in the following pictures are based on our 8" lathe (15" bed). The same basic machine can be made using our 17" lathe (24" bed).
2. If needed, we can build a lathe with a maximum bed length of 36", and we cut the base in half for support at each end of the bed (see Figure 1).

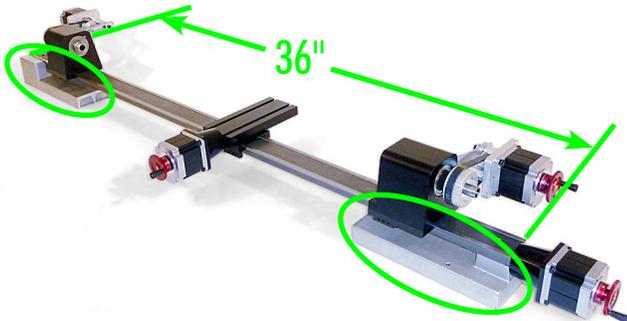


FIGURE 1—The split base is indicated by the green ovals.

Things to Consider

1. All of the reference pictures show lathes with a lathe saddle/crossslide assembly. Do you need a lathe saddle and/or crossslide for tool mounting? If so, do you want to move them manually, do you want them attached to a leadscrew with a handwheel to position them, or do you want them attached to a leadscrew with a stepper motor to position them?

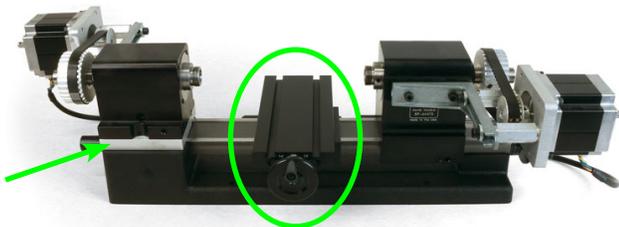


FIGURE 2—The green oval indicates a manual lathe saddle with an 8" crossslide. Notice the headstock riser plate (green arrow). The riser plate (P/N 1294) raises the headstock to match the additional thickness of the 8" crossslide.

2. Another option is to have a movable Z-axis headstock. The movable headstock can be moved by hand and locked in place, or it can be connected to a leadscrew and moved manually with a handwheel, or moved by CNC with a stepper motor.

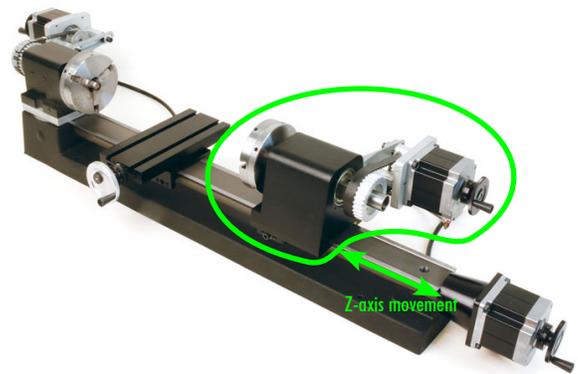


FIGURE 3—The green outline indicates the moveable headstock on the Z-axis. The headstocks on this lathe are turned by stepper motors with cog pulleys.

3. If you decide that you want anything connected to a leadscrew, we can only connect one assembly to the leadscrew, i.e. a lathe saddle or a headstock, but not both.
4. Part holding options.
 - A. You can use chucks for holding your part if you are using a mandrel. You can choose either a 2.5" diameter or 3.1" diameter chuck (see Figure 4).

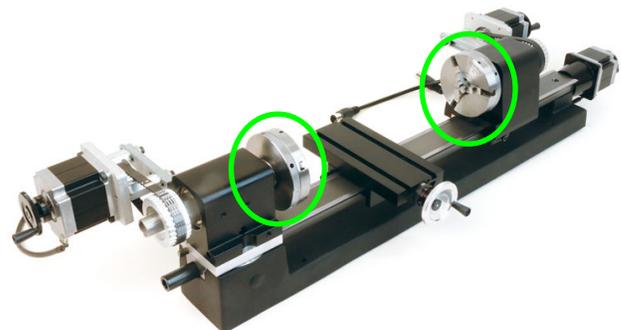


FIGURE 4—The green ovals show two 3.1" 3-jaw chucks.

- B. You can also use an ER-16 headstock with ER-16 collets to hold parts. ER-16 headstocks are

