



6560 manual slide shown, also available CNC-ready



**PRODUCT DESCRIPTION**

- 6560—2-axis manual machine slide, inch
- 6561—2-axis manual machine slide, metric
- 6565—2-axis CNC-ready machine slide, inch
- 6566—2-axis CNC-ready machine slide, metric

## Two-Axis Machine Slide

P/N 6560 (6561) Manual, 6565 (6566) CNC-Ready

### Mounting the Base to Your Fixture

The base is mounted to your fixture by means of two 1/4-20 holes in the bottom of the base. As an alternative, a groove is provided around the base that can be used with Sherline's angle clamps. Drill and tap 10-32 holes in your fixture in the appropriate locations and use 10-32 socket head cap screws to hold the angle clamps. Angle clamps are P/N 35580 and can be ordered from Sherline.

### Manual and CNC Versions

The manual version (P/N 6560) utilizes a handwheel that is graduated in .001" increments. There are 50 divisions on the handwheel, so one turn of the handwheel advances the table .050". The metric handwheel is graduated in .01 mm increments. There are 100 marked divisions, so one turn of the handwheel advances the table 1 mm.

The CNC version is ready to accept a 23 frame size stepper motor. Four mounting screws are provided. Also included is a handwheel (P/N 40080 or 41040) that can be mounted to the rear shaft of a dual-shaft stepper motor. This handwheel is graduated in .001" (or .01 mm) increments, with one revolution resulting in .050" (or 1 mm) of movement. The front shaft of the stepper motor is secured to the coupling by means of a set screw. The set screw is tightened by aligning it with the hole in the stepper motor mount and inserting a hex key to tighten it against the motor shaft.

### Putting a Flat on the Stepper Motor Shaft

Stepper motors ordered from Sherline come with a flat on each shaft where the coupling set screw is to be tightened. If you use a stepper motor from another source it is important that you machine or file a flat in the appropriate location before installation. If the set screw is not tightened against a flat, it can upset the surface of the shaft, making it impossible to remove from the coupling. The attached drawing of the mount shows the location for the flat on the motor shaft. The center of the flat will occur .515" (13.1 mm) from the mounting surface of the stepper motor.

Thank you,  
Sherline Products Inc.

### Parts List

NO. REQ.	PART NO.	DESCRIPTION
1	40080	Handwheel For Use On Stepper Motor, Inch (6565)
1	40174	Saddle Nut, Plain, Inch (6565)
1	40174	Saddle Nut W/ Spring-Loaded Ball (6560, 6561)
1	40175	Saddle Locking Lever (6560, 6561)
1	40330	10-32 x 5/8" Socket Head Cap Screw
2	40520	10-32 x 3/16" Set Screw
2	40600	10-32 x 1/4" Flat Point Set Screw
1	40670	10-32 x 1/2" Socket Head Cap Screw
4	40740	10-32 x 7/8" Socket Head Cap Screws
2	40820	Gib Lock
1	40890	Slide Screw, Inch (Metric, 41890)
1	40910	Saddle
1	40980	Gib, Table
1	40990	Gib, Saddle
1	41040	Handwheel For Use On Stepper Motor, Metric (6566)
1	41170	Saddle Nut, Plain, Metric (6566)
1	44210	Crossslide Table Leadscrew, Inch (Metric, 44220)
1	44880	Crossslide Table
1	45030	Bed
1	65451	Base
1	67018	2" Industrial Handwheel, Inch (6560)
1	670181	2" Industrial Handwheel, Metric (6561)
2	67019	Industrial Handwheel Collar (6560, 6561)
1	67030	Leadscrew, Inch (Metric, 67031)
8	67100	8-32 x 3/8" Socket Head Cap Screws (6565, 6566)
2	67101	Stepper Motor Mount (6565, 6566)
2	67105	Coupling (6565, 6566)
1	67106	Preload Nut (RH), Inch (Metric, 67108)
1	67107	Preload Nut (LH), Inch (Metric, 67109)
4	67120	3/8" Flanged Bearing