



#### 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



# 6560 manual slide shown, also available as CNC-ready

# **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 for each motor mount. 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 drawing of the mount on page 2 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
2	40080	1-5/8" Handwheel, Inch (41040 Metric) (for Stepper Motor, 6565, 6566)
1	40174	Saddle Nut, Plain, Inch (41170 Metric)
1	40175	Manual Saddle Locking Lever, Inch (41175 Metric) (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 Insert, Inch (41890 Metric)
1	40910	Saddle
1	40980	Gib, Table
1	40990	Gib, Saddle
1	44172	CNC Saddle Locking Lever, Inch (44173 Metric) (6565, 6566)
1	44210	Crosslide Table Leadscrew, Inch (44220 Metric)
1	44880	Crosslide Table
1	45030	Bed
1	65451	Base
2	67018	2" Industrial Handwheel, Inch (670181 Metric) (6560, 6561)
2	67019	Industrial Handwheel Collar (6560, 6561)
1	67030	Leadscrew, Inch (67031 Metric)
8	67100	8-32 x 3/8" Socket Head Cap Screws (6565, 6566)
2	67101	Stepper Motor Mount (6565, 6566)
2	671052	CNC Coupling (6565, 6566)
1	67106	Preload Nut (RH), Inch (67108 Metric)
1	67107	Preload Nut (LH), Inch (67109 Metric)
4	67120	3/8" Flanged Bearing

