



Small positioning slides with a price to match

Sherline Products Inc. has been making precision miniature machine tools and accessories for over 25 years. Though advertising for our versatile tool line has been directed toward hobbyists, over half our tool sales go to industrial clients. We are now introducing a division that deals specifically with the problems faced by tooling designers. By specializing in the production of tools and components in a specific size range, we can purchase and manufacture in quantities that keep costs down. If the size of our components fits your needs, why pay more?

Manual or CNC, inch or metric

Sherline machine slides are offered in both manual and CNC-ready configurations. The CNC coupling features two ball bearings with an adjustable preload nut to eliminate endplay. Each slide is also available in your choice of either inch or metric leadscrews and handwheel graduations.

Sherline machine slides all feature adjustable backlash nuts, adjustable composite gibs and red anodized handwheels with laser engraved graduations. Leadscrews are precision rolled.

The major components are black anodized 6061-T6 grade aluminum, offering both light weight and rigidity. Some of the slides feature ground steel beds where appropriate.

Tables have T-slots that accept components in Sherline's huge accessory line. The components can be bolted together in any number of ways to create sophisticated movements.

All headstocks and spindles are available with your choice of spindle nose threads. The standard 3/4-16 thread with #1 Morse internal taper accepts all Sherline accessories. Spindles are also available designed to accept an ER-16 collet.

Linear motion controller

This self-contained, programmable motion controller drives an individual stepper motor on a CNC slide. It can be "daisy-chained" with other units to produce sequential operations. It can also be used in conjunction with other CNC controllers or with Sherline's P/N 8700 CNC rotary table. (See other side.)

P/N 8800
\$450.00



Single-axis machine slide

P/N 6550 (6551) Manual—\$180.00

P/N 6552 (6553) CNC—\$230.00

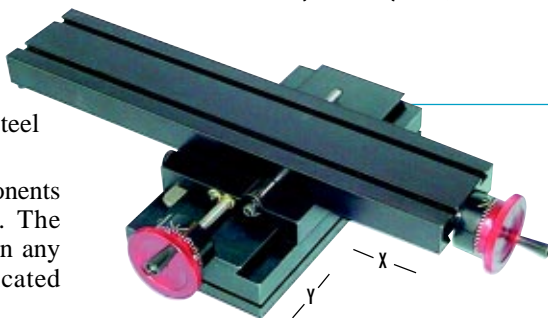
Table size*: 8.0" x 2.75" (203.2 mm x 69.9 mm)

Table height: 2.0" (50.8 mm)

Travel: 4.75" (120.7 mm)

Stepper motor: 2 amp., 100 oz-in, 23 Frame size

*Also available with 13" (330.2 mm) table, add \$45.00



Two-axis machine slide

P/N 6560 (6561) Manual—\$390.00

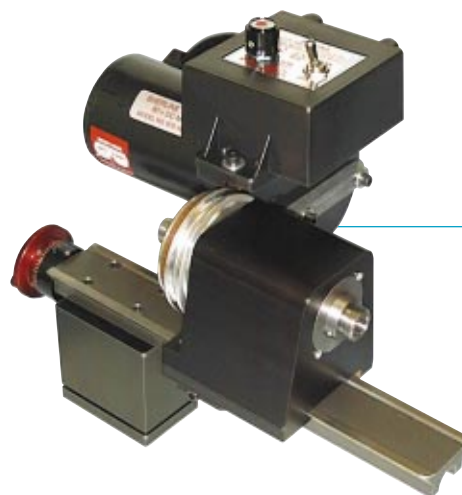
P/N 6565 (6566) CNC—\$440.00

Table: 8.0" x 2.75" (203 mm x 69.9 mm)

Table height: 4.81" (122.2 mm)

X-axis travel: 5.0" (127 mm)

Y-axis travel: 4.25" (108 mm)



TYPICAL COMPONENTS

PART NUMBER: INCH (METRIC)



Two-axis XY machine slide

P/N 6540 (6541) Manual—\$350.00

P/N 6545 (6546) CNC—\$450.00

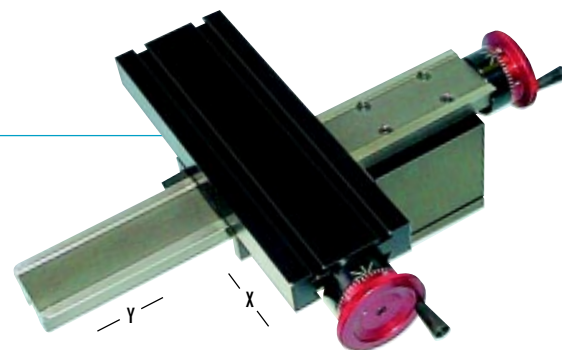
Table: 13.0" x 2.75" (330.2 mm x 69.9 mm)

Table height: 2.75" (69.9 mm)

X-axis travel: 8.19" (208 mm)

Y-axis travel: 4.13" (105 mm)

Handwheel graduations: .001" or .01 mm



Single-axis slide with dovetailed headstock, DC motor, speed control

P/N 6530 (6531) Manual, 3/4-16—\$700.00

P/N 6532 (6533) Manual, ER-16—\$710.00

P/N 6535 (6536) CNC, 3/4-16—\$750.00

P/N 6537 (6538) CNC, ER-16—\$760.00

Headstock travel: 4.75" (120.7 mm)

Handwheel graduations: .001" or .01 mm

6-direction machine slide

P/N 6570 (6571) Manual—\$550.00

P/N 6575 (6576) CNC—\$650.00

Table: 8.0" x 2.75" (203.2 mm x 69.9 mm)
 X-axis travel: 5.0" (127 mm)
 Z-axis travel: 6.0" (152.4 mm)
 Ram in/out movement: 5.0" (127 mm)
 Rotation side-to-side: 90° either way
 Pivot side-to-side: 90° either way
 Ram swing side-to-side: 90° either way
 Handwheel graduations: .001" or .01 mm

Multiple movements

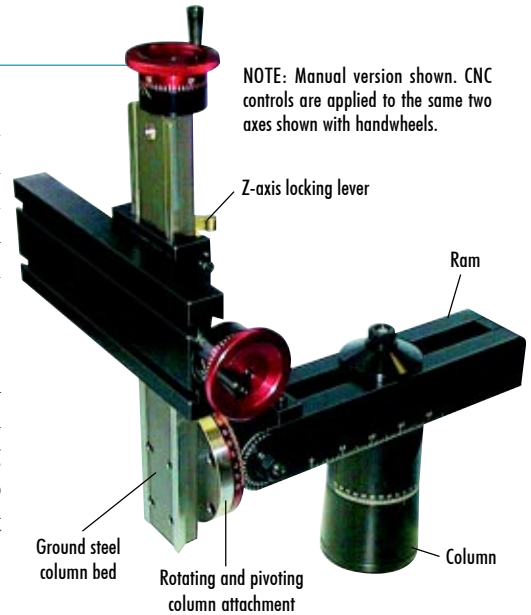
The multi-axis slide shown at the right typifies the versatility that can be achieved with Sherline Industrial components. The table can be placed in almost any conceivable position with all the movements available.

Modular design

Sherline components are designed to be modular in nature. They can be combined like a "building block set" in many ways to produce virtually any movement your production job could require.

4" CNC rotary table

This stand-alone unit makes it easy to accomplish repetitive indexing operations at a very reasonable price. Included is the 4" rotary table, computer/keypad unit, stepper motor with handwheel, power supply and hold-down clamp set. Complete instructions are included, or you can view them on our web site right now.



NOTE: Manual version shown. CNC controls are applied to the same two axes shown with handwheels.



P/N 8700—\$675.00

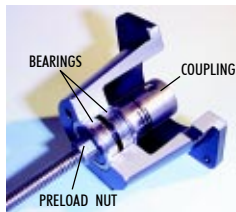
NOTE: The rotary controller can be "daisy chained" with additional units or with Sherline's P/N 8800 linear controllers to produce multiple, programmed operations.

SPINDLES



Cartridge spindles with a 3/4-16/#1 Morse or ER-16 nose are available. Pulleys for "V" belts or timing belts drive spindles utilizing lifetime-lubricated bearings with adjustable preload. Headstocks can be purchased individually or with motor and speed control attached and ready to run.

A cross-section of the CNC stepper motor mount shows the two ball bearings and adjustable preload nut on the leadscrew. Slits in the coupling help dampen the stepping motion of the motor to provide smoother leadscrew movement.



Manual slides feature the same type of preloaded, twin ball bearing design on the handwheels as is shown on the stepper motor mount above. This provides a very smooth, precise feed.

All components with handwheels are available calibrated in your choice of inch or metric increments.

MADE IN USA



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SHOP ON-LINE!

Visit the Sherline Industrial Products Division web site at: www.SherlineIPD.com

SHERLINE INDUSTRIAL ADVANTAGES

Sherline's experience in the machine tool line brings with it many advantages for you, the customer:

The experience advantage

Sherline's manufacturing volume means we can buy materials and parts in large quantities. Many are shared with our miniature machine tool line. This quantity savings is passed on to you.

Made in our own factory in the USA

We manufacture all our own parts. This means you not only get high quality, you also get fast delivery, because we are in total control of our own inventory. We ship within 24 to 48 hours of your order, worldwide, and there is no minimum order. Over the past quarter century, Sherline has built its reputation on outstanding customer service, and the Industrial Division continues that tradition.

Huge accessory line available

Our industrial components are designed to take advantage of the extensive and versatile accessories we have developed

for our machine tool line. Chucks, collets, vises, tilting angle tables, rotary tables, clamps...all will work with the T-slots and spindles on the industrial components. Again, this is an advantage only Sherline can offer. It has taken many years to develop the tooling for this line, and you reap the benefits.

The design advantage

Sherline components are designed to work together in a "modular" fashion. They can be combined in a number of ways to produce a variety of movements at very low cost. If you don't need long travels, why spend more?

We take requests

This line will be constantly growing. Let us know about your special design needs. If we can produce a component with our current equipment that meets a new need, we will add it to our line. We think you will find that specifying Sherline components makes your job as a designer much easier. We look forward to working with you.