

CAUTION

This plate is not intended for machining operations. A radial force at the outer diameter of the plate will exert more force on the rotary table worm and worm gear than the 4" rotary table was designed for. This plate was designed for laser scanning ONLY.

Laser Scanning Plates

P/N 3726-LAZ (8" dia.)

P/N 3727-LAZ (10" dia.)

P/N 3728-LAZ (12" dia.)

Purpose of the Laser Scanning Plates

The laser marking industry has found the Sherline 4" CNC rotary table very useful due to its compact size, power and accuracy. With the widespread use of scanners to model existing parts, Sherline has increased the table's effective mounting area by introducing this series of plates in 8", 10" and 12" diameters. The aluminum tables have a tough black anodized finish.

Marks and Hole Pattern

Sight Rings—The table has a series of concentric, machined sight rings to help you visually center your part. This becomes more critical for heavier parts, as mounting a heavy part off center can cause excessive wear on the internal parts the rotary table or overload the stepper motor.

Mounting Holes—A series of 1/4-20 holes are provided to allow parts to be bolted to the table. Sherline also offers a special P/N 3014 step block hold-down set with 1/4-20 fasteners for use with this table.

Oiler Access Hole—The Sherline rotary table has a spring-loaded ball oiler on the surface to allow lubrication of the table as it rotates on the base. When mounting the laser scanning plate on the rotary table, the oiler access hole (See Figure 1) should be aligned with the oiler so oil can be added periodically during use.

Lubrication

As a general rule, it is always good practice to add a little oil each time the table is used for the day. If rotating heavy or off-center parts, oil should be added every few hours.

Note that the 6061-T6 aluminum plate can be drilled and tapped if additional mounting or locating pin holes are needed.

Mounting the Plate

The bottom of the plate has a raised boss that registers in the counter-bore of the 7/16" center hole of the rotary table. The four T-nuts included with the table are placed

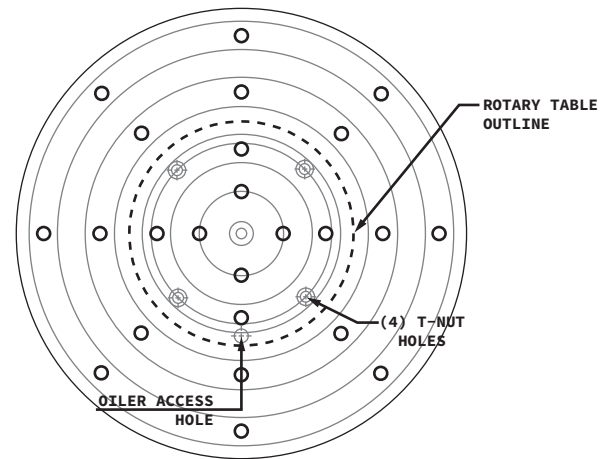


FIGURE 1—Mounting hole positions and oiler access hole location.

in the T-slots of the rotary table and their centers aligned with the outermost groove in the rotary table surface. (See Figure 1.) Rotate the plate until the oiler access hole aligns with the oiler and the four counter-bored mounting holes align with the T-nuts. Use the four 10-32 socket head screws provided to secure the plate to the table. DO NOT OVERTIGHTEN the screws.

Thank you,
Sherline Products Inc.

VIDEOS AVAILABLE

For videos that show the scanning plates in operation visit our YouTube channel at:

Sherline Rotary Laser Scanning Table https://www.youtube.com/watch?v=fbk6mu_cGFQ

White Line 3D Scanning https://www.youtube.com/watch?v=Uf0Ec_Y2ntw