





RIGHT ANGLE ATTACHMENT FOR 4" ROTARY TABLE

P/N 3701

The Sherline right angle attachment has been designed to easily put the rotary table on a vertical plane and still maintain rigidity.

INSTALLATION

Remove the hold-down tab (see rotary table exploded view, part #16) from the worm housing and loosely bolt the right angle attachment base (part #14) to the housing with the rotary table base. (NOTE: The mounting holes on the side of the worm housing go all the way through. In order to keep dirt and chips from entering the worm housing, set screws have been installed in the holes. Before the rotary table can be mounted to the right angle attachment base, these set screws must be removed. Be sure to reinstall them when the rotary table is removed from the right angle attachment.) Back out the vertical adjustment screw (part #3) and start the vertical clamp screw (part #20), but do not tighten. Tighten the four right angle attachment base to worm housing screws and mount to milling table with the rotary table indicated in with the Y-axis. The vertical plane can be aligned by moving the indicator up and down with the Z-axis while reading the table. The vertical clamp and set screw can now be adjusted for "0" indicator reading. The accuracy that must be attained when indicating the rotary table in is somewhat determined by the size of the part.

In many cases it is wise to align and clamp the part to the table before bringing the rotary table to the vertical position. In this manner you have the milling machine spindle to help align the part. Aligning the milling machine to the work with the rotary table in the vertical position is usually accomplished by measuring in from a side of the part with an edge finder or "touching off" with a cutting tool. Fortunately, you would

very seldom have to align the spindle to the rotary table in both axes. If the need arises and you don't have a true (TIR) running surface to work to, try and leave yourself a "machining pad" on your part to do this. Once the rotary table has been aligned to the mill, use an end mill to machine a flat on the "machining pad" with the side of the end mill, moving the Y-axis to determine depth of cut and X-axis for length of cut. Rotate part 180° and cut to identical handwheel readings. Now measure across these flats and move the Yaxis one-half of this dimension plus one-half the cutter diameter towards the center with the cutter out of the way. Rotate 90° and "touch off" the end of the cutter on a flat that was machined to determine center. The Z-axis can be lowered one-half the diameter to put the tools on center. If these pads are left on the work, other cutting tools could be located in the same manner and the pads then could be machined off when they are no longer needed.

You will find this accessory interesting, but difficult to use without a lot of planning.

Good Machining!

Joe Martin, President and Owner Sherline Products Inc.

Note: For information purposes, the exploded view drawing that accompanies this part includes all parts for the 4" rotary table as well, although they are not included with the right angle attachment when ordered by itself.