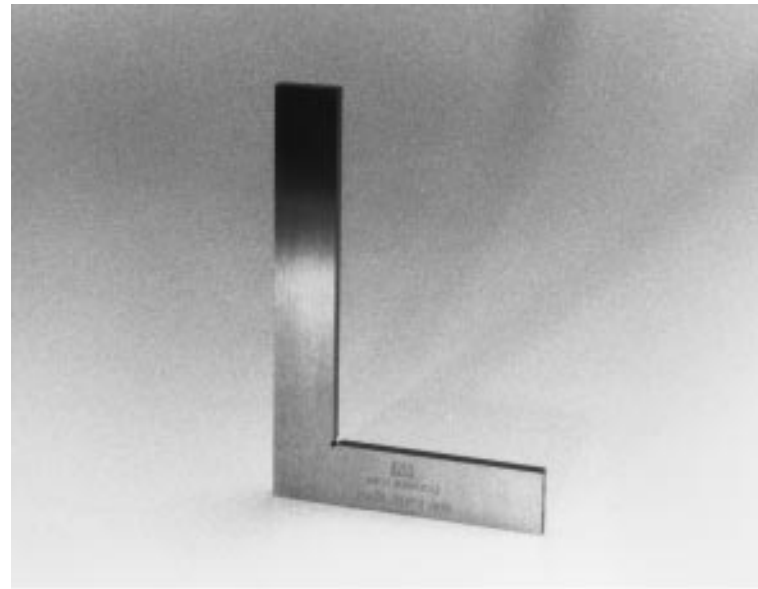


Accessories

Precision Square

This is truly a unique square. First of all, its not made from brass and rosewood like some woodworking squares costing more than twice the price. This square is designed for accuracy rather than looks. It won't change with age or wear with use because it is made from a solid piece of tool steel, 1/4" thick, and hardened to Rockwell 55. All edges are ground and lapped to meet Class II specifications (deviation from perfect square not more than 0.0008" + .0001" per inch of length). It is designed to be used as a reference with dial indicators. That's why it was chosen to be offered with RS-Aligner. It comes in a variety of sizes up to 18", making it ideal for calibrating RS-Aligner.



Micro-Tangent Angle Set

You can use TS-Aligner with RS-Aligner to take measurements and calculate blade tilt angles yourself using tangent tables or a calculator. However, if you need real precision you'll need accurate angle blocks. This set consists of five fixed angle blocks (5°, 10°, 20°, 30°, and 45°) ground and lapped from hardened tool steel to incredible tolerances. The sixth item is called the "Micrometric Tangent Bar" (MTB). It works just like a sine bar but uses a thumbscrew instead of gauge blocks to adjust the angle. It is adjustable from 0° to 5° in one minute increments (1/60°). Each revolution of the thumbscrew represents 1/2°. By combining angle blocks and the MTB, virtually any blade tilt angle can be set with astounding accuracy. The complete set comes in a plastic case with a custom foam insert. Angle blocks and MTB also sold separately.



Precision Gage Blocks

(Not shown) If you have dial or digital calipers you can make your own precision gage blocks from any stable material. RS-Aligner acts as a giant 12" sine bar. So, the length of the gage block for any given angle is easily calculated as $12 \cdot \sin(\text{angle})$. We make our gage blocks from solid 6061 aluminum tooling plate. Each one is precisely machined and checked to within 0.001" in length. They are available in lengths for 1/4°, 1/2°, 1°, 5°, 10°, 20°, 30°, and 45°.

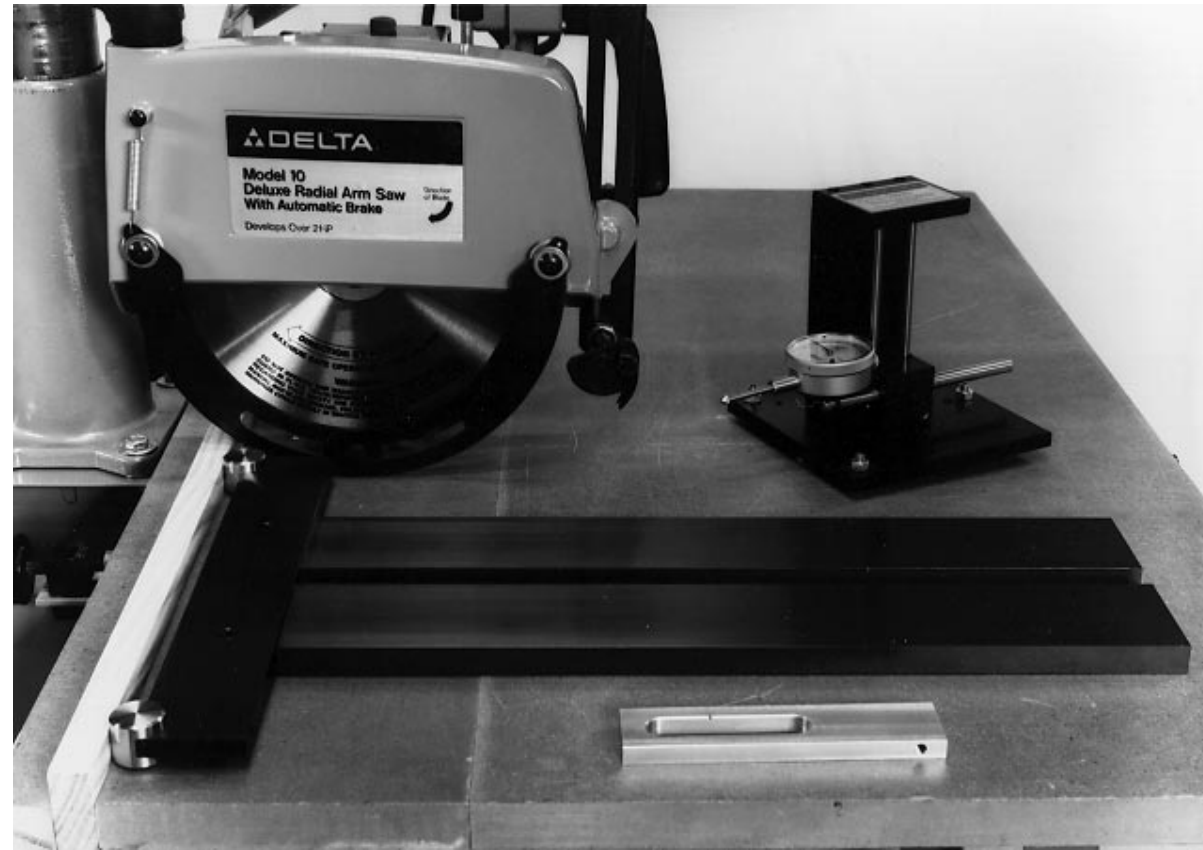
RS-ALIGNER

An Accessory for TS-Aligner



Taking Radial Arm Saw Alignment to Perfection

Who says your radial arm saw can't do precision woodworking?



The problem is that there are a lot of adjustments on the radial arm saw that are dependent upon each other. If one adjustment isn't done properly, then all the ones that follow will be off as well. The old trial and error method is so hopeless that many woodworkers just assume that the saw can't do precise work. However, with proper alignment and adjustment, the radial arm saw is unsurpassed in its ability to produce clean and precise cross-cuts, dados, rabbets and miter cuts. RS-Aligner can help you turn your radial arm saw into the machine it was always meant to be!

RS-Aligner is an accessory for TS-Aligner. Designed like a giant "T" square, RS-Aligner provides a flat surface and a true reference slot so that TS-Aligner can be used to make all the necessary vital measurements. Also included is a bracket for mounting a dial indicator to the saw arbor. Just as you would expect, RS-Aligner is carefully machined from the highest quality solid 6061 aluminum tooling plate and 303 stainless steel. It has a tough, blue anodized finish and is calibrated at our factory to be accurate along its entire length to within 0.0025".

TS-Aligner and the dial indicator are sold separately.

Six steps to Alignment Perfection

1 With the table top removed, make sure the table mounting brackets are parallel to the travel of the carriage and level with each other. This job is made easy by attaching any standard dial indicator to the arbor bracket supplied with RS-Aligner.

2 After replacing the table top, check and adjust its flatness. Typically, the manufacturer provides a leveling adjustment in the center of the table. Again, the arbor bracket and a dial indicator make this adjustment a snap.

3 Next, adjust the travel of the carriage so that it is square with the fence. RS-Aligner makes this easy. With the two steel cylinders against the fence, the slot in RS-Aligner will be perpendicular to the fence. Move both the saw carriage and TS-Aligner at the same time.

4 Correcting any blade misalignment (heeling) is also very easy with RS-Aligner. This time, leave the saw carriage in place and move TS-Aligner along the slot in RS-Aligner. Any misalignment will cause the reading on the dial indicator to change.

5 To square the blade with the table surface, leave both the carriage and TS-Aligner stationary and raise the dial indicator as shown. (left)

6 To set arm and blade angles very precisely. Use a gauge block or angle block with RS-Aligner. (right)

