

Boxmaking cutters from Gifkins Dovetail

Set #1

1. Tenon cutter 32 mm diameter, 8° negative shear angle for a super clean cut.
2. Rebate cutter Cuts a rebate 4 mm wide and 5 mm deep (or 1.6 mm deep with the big bearing).
3. Panel Raising Cutter 32 mm diameter, 4.8 mm radius on top corners, 8° negative shear angle.
4. Slot cutter Off the shelf slot cutter, 3.2 mm cut, 51 mm diameter.



The first 3 cutters have been specially made by Carb-I-Tool to suit Rogers boxmaking requirements, and are only available direct from Gifkins Dovetail (all are 1/2" shank).

A big bearing is also available for the rebate cutter to reduce the depth of cut to 1.6 mm

The projects in Roger's Plans #1 & Plans #2 can be completed using these 4 cutters plus the dovetail jig with cutters to suit.

IMPORTANT

All these cutters are designed for use in a table mounted router, and should **not be used** in a hand held router.

With **all** cutting operations, the feed direction is **opposite** the direction of motion of the cutting tips (ie. opposite the direction of the tips as they enter the workpiece). Extra care should be taken with the Rebate Cutter to be clear about this feed direction.

Note on using cutters:

1. **Tenon Cutter.** Used for cutting tenons in frame and panel work, and also for square edged rebates. The negative shear angle means that the tips cut the bottom edge of the workpiece first, as they cut up into the wood. This gives a very clean bottom edge (which will be the outside of the project) with no tearout. This cutter must always be used with a fence securely clamped to the table.
2. **Rebate Cutter.** Ideal when rebating (slotting) for the base in boxes and drawers. With the dovetailed carcass dry assembled, the rebate can be cut in all 4 sides at once, with the bearing running around the inside of the box. It is vital that you run some strong fibre reinforced tape around the outside of the box before performing this cutting operation. When fitted with a 5/8" bearing the rebate is 3.2 mm deep. When fitted with a 3/4" bearing, the rebate is 1.5 mm deep. The width of the cut can be increased by raising or lowering the cutter and running around again. To give a clean, chip free cut in hard or highly figured woods, first cut 1.5 mm deep with a 3/4" bearing and then cut 5 mm deep with the 1/2" bearing.
3. **Panel Raising Cutter.** Cuts a curved edged rebate for raised panel work. Used on bases of boxes and drawers, and top panels in boxes (or doors), to bring the panel down to match the rebate. Once again, the negative shear angle results in a very clean cut. This cutter must always be used with a fence securely clamped to the table.
4. **Slot Cutter.** This is one of Carb-I-Tool's regular slotting cutters, used when you need a slot deeper than the 5 mm depth from the rebate cutter (above). Used in frame and panel construction, to cut matching slots for the tenons. This cutter must always be used with a fence securely clamped to the table. For fence ideas, see "Fences for the Router Table" under "Woodworking Plans" on the web site.