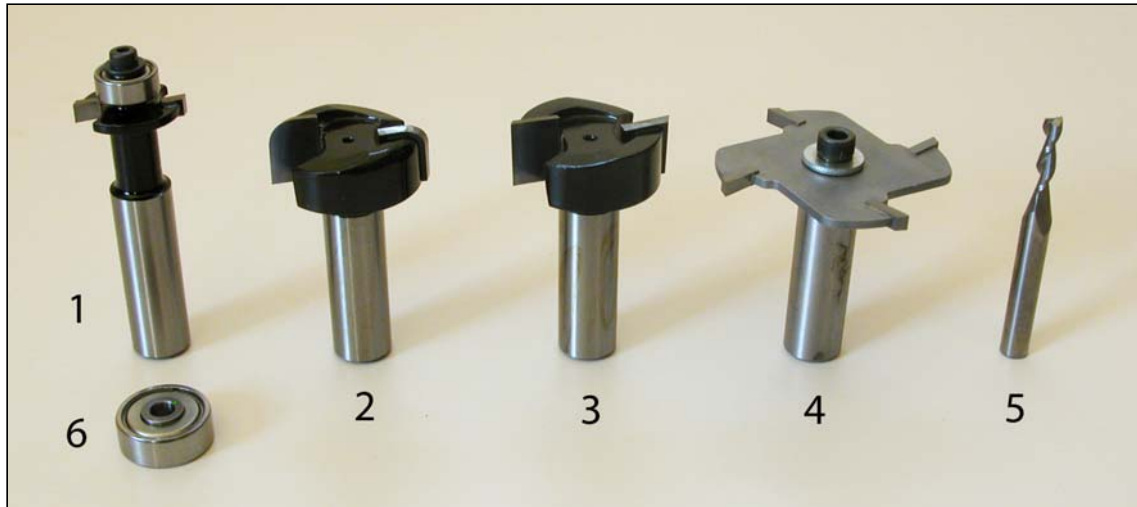


# Boxmaking cutters from Gifkins Dovetail

## ULTIMATE BOXMAKING CUTTER SET



This set replaces our previous set #1 and set #2.

With a Gifkins Dovetail Jig (with router table & clamps), the Boxmaking Plans and Roger's Ultimate set of five Boxmaking Cutters, you have everything you need to produce beautiful boxes. All Roger's plans were specially written so that all the joinery could be done on a router table, and these five cutters are used time and again in all these boxmaking projects.

The first 3 cutters have been specially made by Carb-I-Tool to suit Rogers boxmaking requirements, and are only available from Gifkins Dovetail. All the cutters in this set are 1/2" shank except the spiral cutter.

- |                         |  |
|-------------------------|--|
| 1. Rebate cutter        | Cuts a rebate 4 mm wide and 5 mm deep (or 1.6 mm deep with the big bearing). |
| 2. Panel Raising Cutter | 32 mm diameter, 4.8 mm radius on top corners, 8° negative shear angle.       |
| 3. Tenon cutter         | 32 mm diameter, 8° negative shear angle for a super clean cut.               |
| 4. Slot cutter          | Off the shelf slot cutter, 3.2 mm cut, 51 mm diameter.                       |
| 5. Spiral cutter        | Off the shelf 4 mm solid carbide downcut spiral, 1/4" shank.                 |
| 6. Big bearing          | For rebate cutter above  |

The projects in Roger's Plans No.1, No.2 and No.3 can be completed using these 4 cutters plus the dovetail jig with cutters to suit. Some projects also use a round over bit but this is not essential. All these cutters are available individually or as the set. See price list for details.

### IMPORTANT

All these cutters are designed for use in a table mounted router, and should **not be used** in a hand held router. The spiral cutter is not guaranteed against breakage and should always be used in the table with a fence.

With **all** cutting operations, the feed direction is **opposite** the direction of motion of the cutting tips (i.e. 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 these cutters:

1. **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 this is performed in the correct direction, with the work moving in the opposite direction the cutting tips. If you get this direction wrong it will destroy the workpiece and is potentially quite dangerous. Before performing this cutting operation run some strong tape around the outside of the box so there is no chance of the joints coming apart whilst cutting. 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 1.6 mm deep with a  $\frac{3}{4}$ " bearing (see #6 below) and then cut 5 mm deep with the  $\frac{1}{2}$ " bearing.
2. **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. 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.
3. **Tenon Cutter.** Used for cutting tenons in frame and panel work, and also for square edged rebates. Once again the negative shear angle gives 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.
5. **Spiral Cutter.** Used for splitting boxes in half and also for wooden hinges. Spiral cutters give an extremely clean cut and with care the finished cut does not even need sanding. For splitting boxes, it is important not to cut too much in one pass, as the cutters are fragile. As a guide, in soft timbers a maximum depth of cut is 6 mm in one pass, and with harder timbers this should be reduced to 4 or 5 mm in one pass. Even though this could mean running around the box in 2 or 3 passes, the clean finish from the cutter will save lots of work by eliminating sanding. Must be used with a fence on the router table. See Boxmaking Plans No.3 for more details on using this cutter.
6. **Big Bearing.** For use with the rebate cutter to reduce the depth of cut to 1.6 mm.