

Dovetail Jigs

AKEDA Model DC16 Drawer Construction Jig™ (P/N 1600) has a 1" x 16" capacity, and AKEDA Model BC24 Blanket Chest Jig™ (P/N 2400) has a 1" x 24" capacity. All other specifications are the same. Model DC16 is ideal for any kind of drawer less than 16" deep, and Model BC24 is suited to wider boards up to 24".

AKEDA jigs feature a fully assembled, fully enclosed jig body with integral front and rear guide rails for full router support, and a clear Lexan viewing window. Also included, one clamp knob, jig mounting hardware, a .438" precision guide bushing, a pair of adjustable stops for positioning drawer fronts, and a User Manual. Plus, you get 7° through dovetail pin guides, half blind pin guides and universal tail guides. The DC16 includes 10 of each guide finger, and the BC24 includes 15 of each. No router bits are included with the jig.

Through Dovetails

You will need a minimum two bits – a dovetail bit to form the pin sockets (see choices of angle below), and a .315" (8mm) straight bit to form the tail sockets. The .315" straight bit works in conjunction with all the dovetail bits. It will make through dovetail pins from 1/4" (6.35mm) deep down to 1" (25.4mm) deep.

You can use any dovetail bit at any depth, down to its full length. Here are the choices:

3/4" deep dovetails (19mm) P/N 3807

Select the AKEDA 3/4" x 7° bit to make through dovetails from 3/4" down to 1/4" deep. These match the 7° guide fingers included with the jig. For the other dovetail bits you will need matching angled guide fingers.

5/8" deep dovetails (16mm) P/N 3809

Select the AKEDA 5/8" x 9° bit to make through dovetails anywhere from 5/8" down to 1/4" deep

1/2" deep dovetails (12.5mm) P/N 3811

Select the AKEDA 1/2" x 11° bit to make through dovetails anywhere from 1/2" down to 1/4" deep

3/8" deep dovetails (9.5mm) P/N 3814

Select the AKEDA 3/8" x 14° bit to make through dovetails anywhere from 3/8" down to 1/4" deep

1/4" deep dovetails (6.5mm) P/N 3820

Select the AKEDA 1/4" x 20° bit to make through dovetails 1/4" deep

To form through dovetails, you also need one .315" x 1" long straight bit (P/N 3880) to form the tail sockets. You can also use this bit at any depth, down to its full length.

Half Blind Dovetails

AKEDA's dovetail bits are dual purpose – the same ones you use to form through dovetails (see above) are also used to form half blind dovetails. However, they must only be used at their stated depth.

Therefore, which dovetail bit you choose depends on the depth of the dovetail you want to cut in your drawer front. There are five to choose from:

1" thick drawer fronts (25mm) (P/N 3807)

Select the AKEDA 3/4" x 7° bit to form 3/4" fixed depth dovetails only

7/8" thick drawer fronts (22mm) (P/N 3809)

Select the AKEDA 5/8" x 9° bit to form 5/8" fixed depth dovetails only

3/4" thick drawer fronts (19mm) (P/N 3811)

Select the AKEDA 1/2" x 11° bit to form 1/2" fixed depth dovetails only

5/8" thick drawer fronts (16mm) (P/N 3814)

Select the AKEDA 3/8" x 14° bit to form 3/8" fixed depth dovetails only

1/2" thick drawer fronts (12.5mm) (P/N 3820)

Select the AKEDA 1/4" x 20° bit to form 1/4" fixed depth dovetails only

Like all half blind dovetail jigs, you must always use the correct depth bit. For example, the 1/2" x 11° bit must always be set to cut 1/2" deep. You cannot use, say, the 3/4" x 7° bit and raise it to cut a 1/2" deep half blind dovetail. The joint will not fit.

Box Joints

All you need to form box joints is the AKEDA .350" (8.9mm) box joint bit (P/N 3858). The jig includes everything else you need. You may need oversize (P/N 3521) and undersize (P/N 3522) guide bushings to adjust joint fit, and you may need a 1/2" to 8mm collet reducer for AKEDA's 8mm shank router bits.

Accessory Kits

12pce. A-Kit	P/N 3500	AKEDA's complete Dust Collection Kit and the complete 7pce. Bit Set.
10pce. B-Kit	P/N 3400	AKEDA's Basic B-Kit includes the complete Dust Collection Kit (see above) and two dovetail bits (7° x 3/4", and 11° x 1/2") that give you two different depths of half blind dovetails. The same 7° x 3/4" dovetail bit, together with the .315" straight bit (also included in the Basic Kit) will allow you to form 7° through dovetails in any work piece thickness. The B-Kit also includes a .315" Box Joint Bit for variable pitch box joints. Also included are .004" oversize and undersize guide bushings to allow you to make fine adjustments to joint fit. We've also included a Wand to keep your router cord out of the way while you're routing.
64pce. C-Kit	P/N 3300	AKEDA's 64 pce. C-Kit contains all the accessories - everything you need to get the most out of your jig. The AKEDA 64 pce. C-Kit includes all the router bits (see 7pce. Bit Set), the additional 9°, 11°, 14° and 20° angled pin guides (the 7° pin guides are included with the jig), the complete Dust Collection Kit (see D-Kit), a power cord wand, tail guide spacer extrusion (which you cut up and snap in between the tail guides to prevent mistakes), 1/2" to 8mm collet reducer, and three precision thin-wall guide bushings – one standard .438" dia. (7/16"), one .442" dia. (.004 oversize for joints that are too loose) and one .434" dia. (for joints that are too tight).
Dust Coll. D-Kit	P/N 3100	AKEDA's passive Dust Collection Kit includes the nozzle that snaps into the jig, a flexible seal for closing off the plenum in the front of the jig, and two adaptors (1-1/2" and 2-1/2") for connecting to your shop vac hose. The complete dust collector kit is also included in the B-Kit and C-Kit.
7pce. Bit Set	P/N 3800	AKEDA's 7pce. Bit Set contains all five dovetail bits, the .315" Straight Bit, and the .350" Box Joint Bit in a plastic storage case. All router bits are 8mm shank, so you may need an 8mm collet adaptor (P/N 3447).

Your Router

Your router must have a minimum 6" dia. (150mm) router base to span the guide rails, and either an 8mm collet, or a 1/2" collet. If your router has a 1/2" collet, you will need AKEDA's 1/2" to 8mm collet reducer. It's available as an accessory (P/N 3447), and it's also included in the AKEDA 64 pce. C-KIT.

The router must be capable of accepting a Porter Cable style guide bushing. If not, you will need an adaptor, usually available from the router manufacturer. A better solution is a clear acrylic router sub base. It will provide a stiffer, flatter base and greater visibility.

A heavy, powerful router is better. Mass absorbs vibration and steadies your movements.

Always use an AKEDA 7/16" precision thin wall guide bushing. It's accurate to +/- .001", the internal diameter provides clearance for the .350" box joint bit, and the barrel is the correct length for the AKEDA jig.

More

AKEDA's jigs are capable of a lot more than through dovetails, half blind dovetails and box joints, but the above accessories will do it all. The seven basic bits are all you need - there are no extra bits to buy.