

Why Sommerfeld's Router Bit Sets are your best choice

Height-Matching saves your set-up and machining time and helps you achieve top-notch accuracy - **every** time

Here's why you'll want our Height-Matched Bit Sets

Every routing expert and book offers the same law of router bit insertion:

Insert the bit until it bottoms-out in the collet seat – then retract it 1/16" to 1/8" before tightening.

Here's why. Although the insides of collets are straight to accept the shanks of your bits, when collet nuts are tightened, it's the tapered outside surface that causes the collet opening to close tightly around the bit as it's drawn down into the seat.

If the bit is already in contact with the collet seat when you tighten the nut, its shank won't allow the collet to be pulled fully into the seat. Not tight. Perhaps not precisely straight. Certainly not a good thing.

Set-up consistency is the key to your success

It stands to reason that if you're unable to retract every bit the same, identical distance **every** time you insert it, you can't be confident that **every** set-up will be identical. This is especially true with mating bits (i.e. Tongue & Groove – Cope & Stick – etc.)... where you could waste considerable time and scrap on countless trial-and-error set-up attempts.



...Router Bit Sets solve your problems

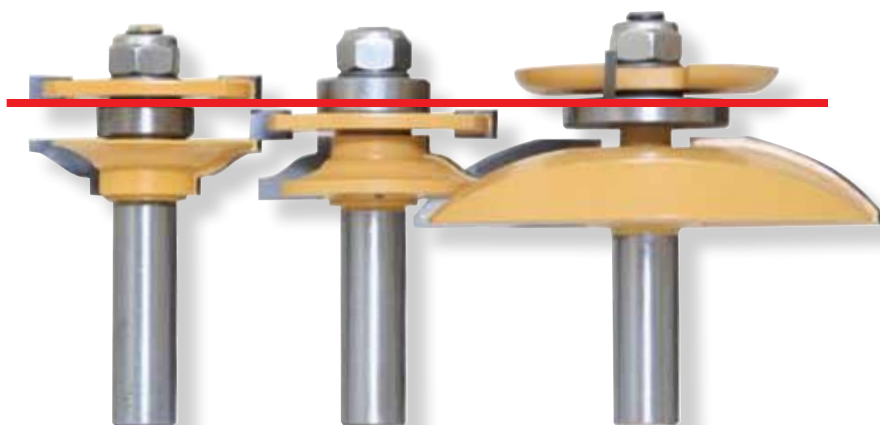
Stop wasting your valuable time raising and lowering your router, making test cuts to get mating bits in a set to match up.

The Sommerfeld Difference

All matching bits in our Sets are precision machined to the identical length so they automatically match-up every time you drop them into the collet without a lot of time-consuming trial-and-error set-up cuts



Bit height set-up is a breeze with our Easy Set Jig
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Notice how the cutters on our equal shaft length bits (i.e.: this 3-Pc Raised Panel Set) match-up perfectly with all shank ends resting on the bench surface



In the photo at left, we see a bit inserted into a collet, with the collet nut in position. Note the bottom of the split collet protruding below the nut.

Note also how the bottom of the bit shank rests on the 1/2" dia. rubber grommet. See page 8

A simple rubber grommet provides the solution

Drop a small, 1/2" rubber grommet like the one shown here into the collet before inserting any of the bits in our matched sets. See page 8.



After considerable research and more than 10 years' experience using this method, we have determined that the shanks of all our matched-length Sommerfeld bits will bottom-out identically in the collet... and allow the collet to be drawn down into its sleeve the same precise distance...every time...without multiple router height adjustments.

That's why we include one of these grommets with every Sommerfeld Router Bit Set you purchase from us.

Set the height for one bit in a matched set and the other(s) are automatically set when you drop them into the collet

Since all bits in each set (as well as some others across sets) are matched, just set your bit height once and all other Sommerfeld Bits that are designed to mate with it will be dead-on aligned the minute you drop them into the collet. Fast. Easy. Foolproof.

MARC'S TIP:

With Sommerfeld's Easy Set Jig, just twist the dial to the thickness of your wood, line up the router bit profile with the desired bit profile on the Jig and you're ready to go to work.

First class quality that lasts

Every Sommerfeld Bit is center-ground and CNC machined to stringent standards from premium quality high-speed steel for optimal balance and durability.

SUGGESTED ROUTING SPEEDS

Bit diameter	Maximum speed
1" (25 mm)	24,000 RPM
1 ¼" – 2" (30-50 mm)	18,000 RPM
2 ¼" – 2 ½" (55-65 mm)	16,000 RMP
3" – 3 ½" (75-90 mm)	12,000 RPM