

## The all-purpose saw

It might be nice to have several backsaws—a small dovetail saw and a pair of larger saws (one rip, one crosscut) for tenons and other joinery. But it's not necessary, because you can easily cut every furniture joint with just one carcase saw. It's big enough to cut case dovetails, as well as apron and frame tenons, but nimble enough for drawer dovetails. It doesn't matter if the teeth are filed for a ripcut, crosscut, or somewhere between, as long as they are sharpened so that the saw cuts quickly and tracks straight.



## that Can Do It All

The versatile carcase saw will cut most joinery—our expert picks the best of a bumper crop

BY CHRIS GOCHNOUR

ovetail saws are a popular choice for a first joinery saw, but because of the blade's length and shallow depth, they are only suitable for cutting dovetails in thin parts like drawer sides. To cut carcase dovetails, and tenons for door frame rails and table aprons, you need a carcase saw. With a 12-in.-long blade that has 2 in. or more of cutting depth, the saw is big enough for these joints yet small enough for drawer dovetails. Because it's so versatile, the carcase saw is what I recommend as a first saw to new woodworkers.

During the past 10 years, there has been an explosion of new saw makers and saws, and *Fine Woodworking* asked me to take a look at the carcase saws now available. A search turned up 18 saws. Except for one (the Lie-Nielsen tapered crosscut saw), they all have 12-in.-long saw plates, and between 11 and 15 points per inch (ppi). Although I prefer teeth filed for ripcuts, I tested saws filed for crosscuts, too. One saw, the Bad Axe hybrid, has teeth filed between rip and crosscut.

I tested how quickly they cut, and how easy they are to start. I used them to cut dovetails and tenons. I judged how well they track for ripcuts, but not crosscuts. With some ripcuts (such as the tail cuts for dovetails) a cut that goes awry can't be corrected, but a wonky crosscut often can





## great saws

With the tests completed, it was clear that most of the 18 carcase saws tested are great, and the difference between them is very small. However, four saws were just a bit better than the rest because they were sharpened extremely well, so they started easily, cut fast, and tracked perfectly. They also performed well on both rip- and crosscuts. I noticed some difference in comfort among these four saws, but comfort is subjective and doesn't affect performance. Any of them would be a great do-it-all saw. The Veritas crosscut saw was a solid performer and costs just \$79. It's easily the Best Value.

-C.G.

be fixed with a handplane. After decades of using handsaws, I've learned that a saw's performance hinges on one thing: how well its teeth have been sharpened. Over all, these saws reinforced that lesson: The best performers had the best sharpening jobs. Although most hobbyist woodworkers won't need to resharpen a saw very often (every few years at most), we identified in the chart makers who offer sharpening services (see pp. 36-37).

After weeks of using all these saws every which way, I realized that there are a lot of very good saws on the market. However, four were a bit better than the rest, and one was an exceptional value. Keep in mind that several makers are individuals who make each saw every step of the way. The nature of this work means that if you buy a saw from one of them, you might wait weeks or months before it's in your hands. Their saws can often be customized, so for these makers, we've listed the saw's minimum price. It could be higher depending on the options.

Chris Gochnour's backsaw is never far from reach in his Salt Lake City shop.





How the saws stacked up ——	BRAND/STREET PRICE	SPECS
26	Adria Small Tenon Rip \$170	14 ppi Plate: 0.020 in. Kerf: 0.028 in.
BE	Adria Small Tenon Crosscut \$170	14 ppi Plate: 0.020 in. Kerf: 0.027 in.
	Bad Axe Rip* \$255 and up	13 ppi Plate: 0.020 in. Kerf: 0.024 in.
BE	Bad Axe Hybrid* \$255 and up	14 ppi Plate: 0.020 in. Kerf: 0.025 in.
	Blackburn Rip* \$275 and up	13 ppi Plate: 0.025 in. Kerf: 0.033 in.
	<b>Bontz Rip*</b> \$250 and up	14 ppi Plate: 0.020 in. Kerf: 0.026 in.
BES	Rob Cosman Tenon \$300	12 ppi Plate: 0.020 in. Kerf: 0.024 in.
Control of the contro	Crown Tenon Rip \$80	13 ppi Plate: 0.025 in. Kerf: 0.030 in.
- Adam	Lynx Tenon Crosscut \$110	14 ppi Plate: 0.025 in. Kerf: 0.029 in.
	Gramercy Rip* \$210	13 ppi Plate: 0.020 in. Kerf: 0.026 in.
	Gramercy Crosscut* \$210	15 ppi Plate: 0.020 in. Kerf: 0.028 in.
	Lie-Nielsen of OverALL Tapered Crosscut* \$140	14 ppi Plate: 0.015 in. Kerf: 0.024 in.
	Lie-Nielsen Crosscut* \$137	14 ppi Plate: 0.020 in. Kerf: 0.028 in.
	<b>PAX 1776 Tenon Rip</b> \$165	13 ppi Plate: 0.025 in. Kerf: 0.027 in.
	PAX Tenon Rip \$105	13 ppi Plate: 0.025 in. Kerf: 0.027 in.
	Veritas Crosscut \$79	15 ppi Plate: 0.020 in. Kerf: 0.026 in.
	<b>Veritas Rip</b> \$79	13 ppi Plate: 0.020 in. Kerf: 0.026 in.
933. BALEST 784 - 194	Winsor Rip* \$169	13 ppi Plate: 0.020 in. Kerf: 0.027 in.
	*Offers resharpening service.	

 $<sup>{</sup>m *Offers}$  resharpening service.

RIP START	RIP SPEED	RIP TRACKING	CROSSCUT START	CROSSCUT SPEED
Very good	Very good	Excellent	Very good	Very good
Excellent	Good	Excellent	Excellent	Excellent
Excellent	Very good	Very good	Excellent	Very good
Excellent	Very good	Excellent	Excellent	Very good
Very good	Very good	Excellent	Very good	Very good
Very good	Excellent	Very good	Good	Very good
Excellent	Excellent	Excellent	Excellent	Good
Very good	Fair	Very good	Very good	Fair
Very good	Very good	Very good	Very good	Fair
Very good	Very good	Excellent	Very good	Very good
Excellent	Fair	Very good	Excellent	Fair
Excellent	Excellent	Excellent	Very good	Excellent
Excellent	Good	Very good	Excellent	Fair
Very good	Very good	Very good	Very good	Fair
Very good	Very good	Very good	Very good	Fair
Very good	Excellent	Excellent	Very good	Very good
Very good	Very good	Excellent	Good	Excellent
Excellent	Excellent	Very good	Very good	Good