Tool test

Compact Cordless Recip Saws

A head-to-head comparison of onehanded saws built for tight spaces

BY TIM SNYDER

t has happened: On construction and remodeling job sites everywhere, cordless power tools have largely replaced their corded predecessors. Competition among tool manufacturers fueled the innovations necessary for this change—higher amps for raw power, greater amp-hour ratings for longer run time, and fast charging to eliminate downtime. To further sweeten the deal, brushless-motor technology has enabled manufacturers to reduce tool weight and eliminate a troublesome maintenance task.

Cordless-tool innovation isn't slowing down. If you want proof, just take a look at the cordless reciprocating saws reviewed in this article. Instead of sticking to the elongated barrel shape that has defined this tool category since Milwaukee sold its first Sawzall in 1951, manufacturers have come up with a variety of compact designs. These models offer less in the way of brute power but much more in terms of portability and operating options.

Why buy a compact reciprocating saw?

In its full-size form, the reciprocating saw is a demolition demon, a tireless workhorse for cutting through materials of all types and thicknesses. But these old-school saws are definitely designed for two-handed use, and they can be difficult or impossible to maneuver in tight spaces. You know what I mean if you've ever tried to use a full-size saw under a sink, in a crawlspace, or between closely spaced framing. The compact cutters we tested are a

MILWAUKEE Hackzall 2719

POWER 18v PRICE \$160 (bare tool)

SPECS ⁷/₈-in. stroke | 3000 spm | 5.0 lb.*

This tool's performance made it easy to pick a clear winner. After laboring through lengthy cuts with a few of the other saws, the Hackzall surprised me with the impressive cutting speed and smooth, low-vibration operation that I'd expect from a full-size saw. The longer stroke (7/8 in.) certainly contributed to the aggressive cutting capability, and the smooth operation under load makes this tool a pleasure to use. Of all the saws in this test, the Hackzall is the best overall performer—a compact saw that can handle serious demolition, light-duty cutting work, and anything in between.

* All tools weighed with batteries shown

LITHIUM CP



in the cut.

easy tool to hold.

lot easier to maneuver in cramped spaces. Unlike their big brothers, they're designed to be used comfortably and effectively with one hand, which is an additional advantage when you're working in tight quarters. But these smaller saws are also handy for many cutting tasks that don't demand a full-size model, such as cutting drywall or plastic pipe, trimming a few protruding nails, cutting openings in sheathing, and downsizing demo material to fit in a dumpster.

Testing the small saws

The seven saws in our test group share a number of useful features. They can be used with one or two hands, although a 10-finger grip on the pistol-shaped Bosch saw might feel a little cramped. The batteries include charge indicators to help avoid the inconvenience of premature power loss. (The Bosch saw includes the indicator on the tool housing rather than on the battery.) Each saw has a trigger lock for safety and an LED light that turns on automatically when the tool is in use. You can expect toolless blade changes from all the saws too.

Our test sessions identified differences in cutting performance and also in general use. Before we get into those details, it's important to note another difference as well: how the saws are sold. You can expect plenty of variations, along with limited availability due to supply-side shortages. You might only have the option of buying the bare tool, which works out well if you've already invested in the manufacturer's battery platform. But different kit configurations are also in the mix, including a range of hard or soft cases, chargers, and spare batteries. You'll need to take these factors into consideration, along with the performance evaluations and recommendations that follow.

For serious demolition, three saws made the cut

When these saws started to arrive, I wondered, How close can a smaller, lightweight cordless saw come to the cutting characteristics of a full-size saw? As you'll see in the descriptions of the individual saws, cutting capability—specifically, how fast a saw cut through our test materials—varied quite a bit. Some of this variation is attributable to stroke length. Saws with longer stroke lengths were able to cut faster. The only saw that departed from this pattern was the Metabo HPT. This saw's cutting capability benefited from slightly higher strokes per minute (3100 spm vs. 2800 spm or 3000 spm for the other saws) and a very low vibration rate.

It's fair to say that forcing compact, lightweight cordless saws through tough cutting tasks sets an unreasonably high bar. The good news about all the saws in this tool category is that every model is fully capable of solving problems that occur every day in construction and remodeling work. Who wants to haul a full-size recip saw into the attic just to cut a 4-in. hole for a vent? Wouldn't it be nice to have a small, lightweight saw when you're on a ladder trimming branches away from a service mast? Why use a heavy tool just to cut through drywall? In these situations and many more, any saw in this test group will provide all the cutting capability you need.

If you want a saw that can handle all the small stuff plus some serious demolition work, three tools stood out as all-purpose performers. The Kobalt saw offers plenty of power and capability for a very reasonable price. The Metabo does everything well and doesn't force you to give up the adjustable shoe that's standard on big saws. And the Milwaukee does its pedigree proud by cutting not just faster than the competition, but smoother as well.

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POWER 18v PRICE \$110 (bare tool)

SPECS ½-in. stroke | 3100 spm | 5.0 lb.*

I'd be tempted to buy the Metabo HPT saw for its toolless shoe adjustment alone; it's the only model with this feature. It did well in other areas too. Despite its short stroke, cutting speed was surprisingly good, and cutting was nearly as vibration-free as with the smooth-sawing Milwaukee. Metabo's blade holder accepts T-shank jigsaw blades for tight-radius cuts that aren't possible with standard recip blades. This is a well-made saw that can handle a wide variety of cutting tasks.

HOW WE TESTED



has the same limitations as the other fixed shoes.

melabo





The performance tests we came up with involved making timed cuts in three different materials: framing lumber, steel pipe, and 2x4s with 16d nails embedded every inch (the "torture test"). All saws were fitted with blades supplied by Starrett. For the three materials, we used a coarse wood-cutting blade, a multipurpose blade designed for nail-embedded wood, and a metal-cutting blade. The Milwaukee, Metabo HPT, and Kobalt saws had the fastest cutting times.