

Tools of the Trade

Weigh In! Want to test a new tool or share a tool-related testimonial, gripe, or technique? Contact us at jlctools@zondahome.com.

Makita 16 5/16-Inch Cordless Circular Saw

by **TIM UHLER**

Remember when cordless tools seemed like toys? Today, my crew runs 100% cordless. And Makita recently raised the bar with the XGT GSH06T, a cordless 16 5/16-inch circular saw that can cut 6-by lumber. Makita claims it's the world's largest cordless circular saw.

On the Job

I don't like blade-right saws. I'm right-handed and grew up using wormdrive saws, which have the blade on the left side, where it is easier to see. Because I can see the left side of the blade on this Makita, I can use it as I would a wormdrive.

On a big saw like this, a brake is a must-have, and this one works well. I appreciate the soft start, too. You don't get that torque kick that the old wormdrives had.

Cutting LVL, glulam, and 6x10 or 12 Doug fir is a breeze for this saw. LVL is the toughest, because it wants to close on the blade, but that's true with all saws.

Makita claims the saw can "deliver up to 75 cuts per charge in 6x12 lumber with the 5.0-Ah battery." Battery life isn't an issue for me; I have a lot of Makita batteries. And I physically couldn't make 75 repetitive cuts with a saw this large. But the point is, the saw will last as long you need it to.

Features

The saw has a cutting depth of 6 1/4 inches for straight cuts and 4 13/16 inches at a 45-degree angle and has both an electronic brake and soft start to improve handling. Not surprising, it tips the scales at a hefty 29.21 pounds with the 5-amp battery (for comparison, a corded Skil 16-inch comes in at 32.4 pounds). An included dust port allows for attachment to a vacuum. The unit is also compatible with Makita's auto-start Bluetooth dust-extractor system.

This saw is expensive. Is it worth buying? It isn't a necessity on our framing sites because we can use a 10 1/4-inch saw and make an extra cut with a lighter saw. But if you cut a lot of 6-by or 45-degree angles on 4-by stock, and the bigger saw would speed up your workflow or improve the quality of your work, then it could be worth the investment.

The kit with saw, battery, and charger costs \$1,400; the bare tool, \$1,000. makitatools.com

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The author found the Makita XGT GSH06T saw to be easy to control thanks to its soft start and well-distributed weight (1). The size and cost of this cordless 16 5/16-inch saw are both substantial, but if you regularly cut oversized material, this tool could help speed up your workflow (2).

PHOTOS BY TIM UHLER



DeWalt Cordless 7 1/4-Inch Sliding Miter Saw

by MARC FORGET

I used to cut a lot of trim. A 12-inch miter saw (and stand) was usually one of the first tools out of the van. However, on many jobs, the size and cutting capacity of the 12-inch beast were overkill. On other, large jobs with my partners, it was clear that a second saw would reduce the time we wasted moving around on site and taking turns to make a cut. My solution was a DeWalt 7 1/4-inch sliding miter saw (DCS361M1).

The saw runs on 20-volt batteries, so I didn't need an outlet nearby to use it. A 4-amp battery lasted three quarters of a day—plenty of time to charge a backup. The 7 1/4-inch blades are much less expensive than 12-inch ones, so a new, sharp blade didn't break the bank. With the saw's smaller size and weight (31 pounds), I could carry it one-handed and haul it upstairs or onto tight balconies when a larger saw would have been a chore. The built-in light illuminates the cutting area and can be left on when the saw's not in use.

Cutting capacity is 8 inches for straight cuts and 5 3/4 inches at 45 degrees. Usually, this was enough for casing and baseboard or window jamb extensions. For shoe molding or small applique, the saw really stood out. I could move from floor to floor or even room to room much quicker than with a larger saw.

I purchased the DeWalt as a backup saw, for which purpose it worked perfectly. It does not replace my larger saw. One reason is that the smaller saw bevels in only one direction. This was once standard, but if you are accustomed to a double bevel saw, it takes a moment to orient the material. I also found that the blade doesn't have a high rate of spin, so on hardwood trim or some larger pine, I have gotten tear-out on the back. Chipping has been an issue with laminate flooring, melamine, and finish plywood, too. In those cases, I needed to score or back-cut the material to ensure a clean finish.

This is a smaller, lightweight saw for smaller, lighter-weight work, which it does well. I've worked this saw for a few years and have not had any issues with reliability (unlike my larger unit, which I've needed to replace brushes on and regularly check for square). As a light, portable, and reliable saw to get through occasional trim or to backstop my main miter saw, this unit has earned its cost for me.

The DCS361M1 kit with battery and charger costs \$440; the DCS361B (bare tool) costs \$350. dewalt.com

Marc Forget is an associate editor at JLC.



The DeWalt DCS361M1, with its open side grips and a top handle, is easy to move around a jobsite (1). Note the difference between the 7 1/4- and 12-inch saws (2). Not every job needs the biggest tool.

Makita Oil-Impulse Driver

by RICH KRAMER

I appreciated Marc Forget's article, "Job Site Physical Fitness," in the July/August issue. Taking care of our bodies should be as important as putting our tools under cover when it starts raining. I believe that care includes not only exercising and resting, but also choosing tools that are gentler and easier to use. Switching to a lightweight, cordless circular saw from my old 13-pound plug-in beast, for instance, was a massive improvement. Replacing my impact driver was another.

Most carpenters are familiar with modern impact drivers. But many carpenters don't know that there's a quieter, gentler version, the oil-impulse driver. Several years ago, I was suffering from tennis elbow due to the repetitive strain of my work, including, I believe, using an impact driver to install floors. I did various kinds of physical therapy, then I discovered oil-impulse drivers. I bought one made by Makita, model XST01Z, and I credit it with rescuing my carpentry career.

Benefits

The Makita has made a tremendous difference as I work through a day. My arm does not hurt after a day of driving screws because the tool doesn't pass the torque to my hand,

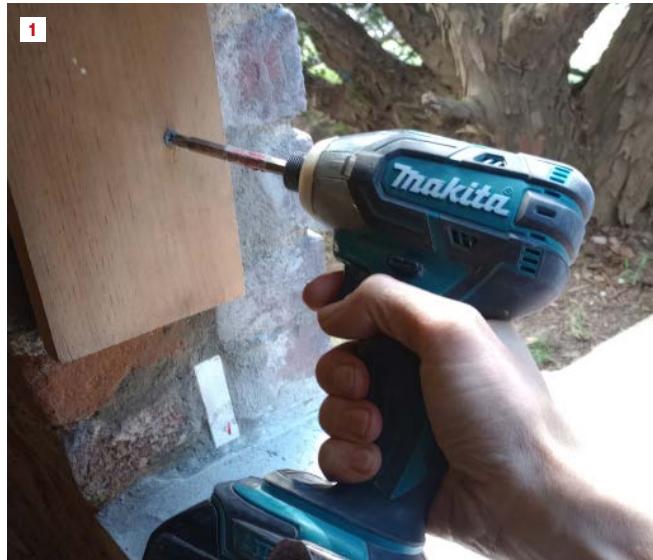
and my ears get a break from the loud noise of a traditional impact driver.

Another benefit of the Makita driver is that it has three speed settings for driving screws, from delicate small screws to heavy ledger bolt fasteners. I use level 2 power for just about all my work. But if I need a super-boost for a 12-inch TimberLok, I can notch up to level 3 and get all the power I need.

For power, I use a 3-amp-hour battery, which lasts the whole day for me. If the battery runs down, that's a sign to pack up and go home! With the 3-Ah battery, the tool is well-balanced in my hand. The built-in light has an independent on/off switch for lighting the work area and can stay on even after the trigger is released.

Be careful when researching this tool online, since a web search might bring up just a couple of sites with oil-impulse drivers and a number of others with traditional impact drivers. The price is now about \$240 (bare tool) for the Makita XST01Z. Compared with taking time off for physical therapy, the price is worth it. makitatools.com

Rich Kramer is the owner of Wood is Good in Berlin, Mass.



The author reports that the XST01Z 18-volt oil-impulse driver (1, 2) performs as well as the standard impact drivers most carpenters are more familiar with. He also found it quieter and easier on his body, thanks to its low transfer of torque to the operator's wrist when in use, regardless of speed setting.

PHOTOS BY RICH KRAMER

Tool Bits

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by MARC FORGET

My name is Marc and I am a tool guy. One part of the trade that I have always enjoyed is discovering, discussing, buying, and using tools. I confess that I have taken on jobs to justify the purchase of a new piece of equipment. That urge to buy the new and shiny is tempered, however, by financial reality and practicality. I know that the \$400 hammer with custom colors and space-age materials won't drive nails that much quicker than my old Estwing, so I resist. The same goes for a new Swanson Speed Square with micro laser etching and hi-vis finish. My over-20-year-old one can still mark a line or scrape ice off a 2x4 just fine. So I resist.

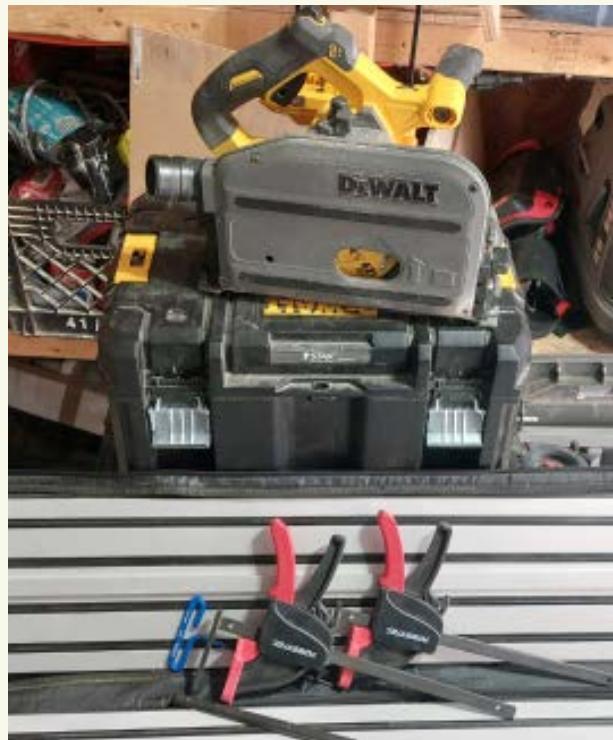
But every now and again, something will end up in the shopping cart. When it does, two anchors keep me (mostly) from having an apologetic conversation with my wife. First and most important is efficiency: Is this item an improvement over what I have, or will it allow me to do a job better and faster? If so, then it makes sense. Having just the right tool to do a job correctly is satisfying. This is especially true if you had to make do for a time with what was on hand.

My next restraint is that I love a deal. I hunt for a sale like some people hunt big game. I have tracked a price for a targeted item across time and geography looking for just the right spot to make the shot. Full price or without free add-ons just does not taste as sweet.

In the end, with all points satisfied, the tool may still be right at the pain threshold or scold threshold for cost. (Your situation may vary.) That is what makes it a splurge purchase. I could get something similar for less, but I stretched a bit more to get what I liked that should be better.

For me, the splurge was a cordless track saw, a DeWalt DCS520ST1 with the tracks, clamps, and carrying cases. Several colleagues owned track saws of different brands, so I had the opportunity to try out a number of them. The saws all delivered as promised, able to break down finished panels, sheet goods, or prefinished doors with a clean, dead straight cut. The cost with all the needed track and such was in the \$1,000-plus range—not an impulse buy.

Then a job came along to renovate a restaurant. I would be building shelving, a bar, booths, and more, all on site, with a lot of finish-grade plywood. Most of this work I would be doing alone so being able to create all of it safely, clean, and accurately was vital. The search for the sale began, and I am happy to report that



The DCS520ST1 with all its accessories was a financial stretch for the author, but it facilitated one project and led to success on many others.

the tool was just the right thing for what was required. Having had a heated physical disagreement with a table saw in the past, I look on my track saw as a real savior for doing accurate work on sheet goods.

In that spirit, I reached out to a few frequent JLC contributors to see what tools they splurged on. I also asked about the reasoning behind the purchase and if it was worth it, because not all tools we buy end up being what we hoped, as I know too well. It's one of the reasons my garage has never seen, and will never see, a vehicle.

Marc Forget is an associate editor at JLC.





↑ **Aron Jones**, co-founder of Big Dog Construction on Grand Manan Island, New Brunswick

My first gut-wrencher of a purchase was a hammer. I purchased a titanium-head Dead On hammer (I think in 1999, for around \$220). It was a splurge at the time. I was experiencing occasional elbow pain and decided to go for it. It changed the way I look at tools. It didn't necessarily make me more productive in the short term, but it brought a little bit of joy to the day. I would now argue that it gave me

↓ **John Carroll**, author of *Working Alone* and builder in Durham, N.C.

I generally go for the equivalent of a Honda or Toyota when I buy tools. I want a safe, reliable, and durable tool but don't care about mahogany handles, electronics, and so forth.

I sometimes splurge on masonry tools and equipment, though. The Europeans know a thing or two about masonry. They practice it far more extensively than we do, and they've been doing it for a lot longer—over 2,000 years longer. I recently bought a small concrete mixer from Imer, an Italian company. I could have gotten one the same size for about \$300, but I paid \$900 for the Imer.

It was well worth it. We can take the Imer off its stand in a minute or two. We can then easily load up the two parts in the back of my small pick-up truck. This makes it easy to transport and then set up close to our work. It's well-designed, and it's a pleasure to work with. And,



→ **Emanuel Silva**, owner of Silva Lightning Builders in North Andover, Mass.

The one “splurge” I can think of is the Caravan pop-up canopy my wife bought me years ago. I told her I wouldn’t use it and, if I set it up on site, people would drive by and think it was ridiculous or ask when the hot dogs would be ready. She spent around \$200, but that was at the end of the season and over 20 years ago. I thought it was nuts, but I put it in the van to make her happy.

One day, I did set it up, and now I can’t live without one. Rain or shine, it is one of the first things that I take out of the truck when I am working. With all the days that I’ve been able to work in bad weather with it, it has paid for itself. Good-quality canopies last 5 to 7 years



Mark Clement, author of *The Carpenters Notebook* and remodeler in Ambler, Pa.

In the late '90s, I decided to get a fancy drill for all the deck work I was doing. I spent extra money to buy a Panasonic 12-volt cordless drill kit with two batteries and charger. I had to special order it, and it cost about \$400. It was okay at first, but once I dropped it into the mud, chuck first, it never worked right afterward. Then I went and spent more money to try to have it fixed, but it still wasn't right. What a waste. It was a tool that would have been better for a shop where it would've been kept safe, away from the cruel world. Not worth it! Still makes me mad thinking about it.

Toolbits

by MARC FORGET

At JLC we receive press releases about new or evolving tools all the time. I also try to go out into the wild and see what people are talking about on site or what is on offer at local stores or online. While we can't arrange reviews for all that we see we thought it would be a service to our readers if we highlighted a few things that have caught our eye and put them out there for you to think about. Here is a short list of things we have seen. From a couple of small companies leveraging 3D printing to solve problems to a couple of larger companies trying to build a better mousetrap for the trades person.



At a recent tool expo, I came across Crescent tool Site runner 3 shelf folding job cart. I am big proponent of site organization and the idea of having a rolling shelf where I can keep supplies or act as a job cart while working is a good one. Add to that being able to transport and store it easily because of its folding design made me interested. It holds 100 lbs per shelf but weighs a manageable 43 lbs on its own. For more details see www.crescenttool.com cost is 300 dollars.



When I did cabinet installation there would be times when I would have to drill holes for shelf pins, cabinet hinges or hidden push to open pins for cabinet doors, on site. As you can imagine there is no chance for a redo so accuracy is vital. Festool has come up with the MB40 mobile drilling attachment to solve this problem. This unit is advertised for the job site or shop to drill 90 deg. holes up to 2" wide in panels or on the edges of cabinet boxes. If you have this type situation come up more than once this may be an accessory to look into. The MB40 comes packaged in its own sustainer case with 3mil and 5mil bits with base and guide rails. Cost is 270 dollars www.festoolusa.com.



All of the major tool manufactures offer a tool box system so we can store and transport our equipment to site. With a few exceptions these are all open boxes that we pile our drills, guns and so forth into along with their accessories. We then rummage through the box to find what we need (or not) and then dump everything back in at the end of day. 10Spot tools looked at this and created 3D printed inserts that fit into those boxes that keep those tools and bits organized and accessible. These inserts are available for most types of storage systems and for the more common tool groups with more options added regularly. Prices vary depending on what you want. See the options at www.10spottools.com



A colleague of mine had this next tool on site for a job we were doing some time ago. Miter clamps to pin together miters have been around for a long time. My issue with them was either they were too expensive for the quality gain or left too large a mark on the work piece. These are replacement pads by Dark Horse design that fit onto some of the more common spring clamps that you probably already have. The pins that hold the work piece are not so large as to cause a mark bigger than a nail and are replaceable as they wear. At 15 dollars they are not hard on the wallet. The company is pivoting to providing 3D printing plans instead of the product itself as international shipping has become more complicated as of late. It is another example of what 3D printing