

What You Should Know Before You Buy An Impact Driver



022 8:35 PM EST

and concrete, what **tools** and hardware are needed to build that

ingola before summer arrives? Will a drill work? The answer is a
sive *maybe*. You'll be using many screws and maybe nails to build it,
a go-to tool for making holes for those hardware pieces. Power drills
concrete and paint, too. But you may want to consider an impact
seful for big projects and thick material.

ills and impact drivers, **The Tool Square** explains that impact drivers
er drills, so for projects that will take hours and days of holding up a
sing an impact driver may prevent injury. Also, you'll work faster with
ause they have higher torque, as much as five times higher than a
ive long screws into the thick lumber you'll use to build your deck,
I save you time and physical wear and tear.

ver tools as well. Impact drivers also come in handy for auto work,
g nuts.

Impact driver?



ts, an impact driver is a powerful tool with substantial torque and
ssional carpenters, construction workers, electricians, and auto
all of the time. They use impact drivers for driving screws and bolts
the job calls for it. If you're new to this, nails, screws, nuts, washers,
vets are all fasteners. But impact drivers supply short bursts of power
bolts and screws only. Impact drivers resemble power drills, though
models are smaller and shorter. Impact drivers are often described by
drills functionally, but we'll get into that later.

ends, choose an impact driver if you have a big job ahead of you,
leak. In the long run, you'll save time and prevent physical pain

and wrist) because impact drivers go deep into thick timber and materials like metal and plastic.

What components comprise an impact driver?



parts of a drill because impact drivers share many of the same parts, is. The guys at **Mere Mortals** illustrate the value of knowing the parts common to understand better how they differ. A power drill has what's

and piece that clamps the drill bit in place with what looks like teeth. , which limits the amount of torque used during drilling to avoid You set the max torque with a dial.

have chucks. Instead, they only have a collet, which is like a chuck driver bits like a collar, rather than a jaw, with even force. Also, the s only 1/4-inch hex (hexagonal) shank driver bits for screws and act drivers have variable-speed triggers, but in addition to spinning, livers quick punches in the same direction. They lack clutches, which e, explains [Cordless Drill Zone](#), so they're shorter than drills and tighter spaces.

fference between an impact driver and a

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ve lots to say about the pros and cons of impact drivers and power
æe each tool has its purpose. You can read up on the evolution of the
ænch, then the impact driver, as **Tool in Action** outlines. A power drill

bles into wood, **drywall**, and plastics and tighten or loosen stubborn
m that differentiates drills from impact drivers is the rotating chuck.
able clutch that gives you control over the torque. You can work
use you can adjust the torque as you work and maintain that torque
r-tightening fasteners and damaging the surface you're working with
. In other words, using a power drill is ideal for detailed work.

from power drills based on torque, among other things. It doesn't
ws like a drill but instead has a locking, quick-change collet that
shank drivers. The impact driver has a robust powertrain system, with
vil as its main components. Its motor drives the spring-loaded
d striking the anvil simultaneous to the rotation of the hex chuck with
ower, and speed create the high torque output, making the impact
tool for heavy work.

act drivers

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There are three types of impact drivers: compact, corded, and cordless. All three have their pros and cons, but generally speaking, cordless impact drivers are the most favored of the two, mainly due to their portability and convenience. Cordless impact drivers require compact batteries only, making them easy to use and store.

on. You can use them anywhere without worrying about finding a
The Drive highlights that the portability of a cordless impact driver is
or automotive use. When it comes to removing many bolts, lug nuts,
er automotive components that you find in most vehicles, efficiency
d.

rs require a cord and, therefore, limit your range. One advantage of
that you don't have to worry about recharging the battery. You can
: fussing to break up your day to recharge. Corded drivers offer more
d torque, even today, with parts and electrical systems
is one of the reasons auto repair professionals use corded impact
strength torque is best for removing rusted nuts and bolts. A large-
:an work as a stand-in for an impact driver.

Impact driver best used for?

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seful power tools for multiple reasons, making them a must-have for [The Spruce](#). They have greater rotational force, around 50 times per ul torque for driving screws and bolts into wood, concrete, and even

're lighter-weight than most cordless drills, impact drivers are great building a deck or fence. Hold a heavy power drill for hours every ds, and you'll wish you'd had an impact driver.

river might serve you well when you're working on your car engine, maneuver in tight spaces. The intelligent design of a compact, light- allows you to use it with one hand as it prevents recoil and your ol. They offer the power and torque needed to remove 12 mm bolts uts.

pros and cons of impact drivers?

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n outstanding tool for its versatility and efficiency. But it's not the
thing. Pros and cons are mainly categorized based on the intended
t what impact tools are used for already, so here are some general

ll over.

; that the superior quality impact drives have over drills are power thick, inflexible surfaces. These surfaces require longer screws, and uires little effort from you to drill them. The internal mechanism rce or power is needed, then delivers quick downward rotary bursts que. On the downside, impact drivers have no torque control setting. 3 the amount of torque by using the speed control trigger or by ith several gears.

ht not need an impact driver



But you may not need an impact driver when what you really need is
World advises that using the wrong tool for the situation has
only will your work at the moment be compromised, but the whole

ing on, whether that's drilling into concrete foundations or working on

er for precision work because you have better control. Also, drills are
illing small holes or screwing in small fasteners. Impact drivers fix
difficult surfaces with lots of power. That's why you don't want to use
ou're working with softwoods (pine, fir, or spruce), **drywall**, or plastics.
res so you can control the torque. Standard power drills are primarily
is and screwing in small fasteners.

uilt to screw large fasteners into tough material or disassemble them
the torque, they're also beneficial when long screws are needed.

maintain an impact driver?



power tool maintenance applies to impact drivers as well. Like all sized implements, they need to be appropriately stored and on optimally. Just think about your car. If the engine overheats, pull

owner's manual. Clean your impact driver after every time you use it. Be sure to wipe off debris. Again, as with all motorized tools with moving parts, lubrication is essential. Before you apply lubrication, read the owner's manual. You should also check the type for your impact driver. Calibration and bit sharpening are two other things you should attend to. For these, check your owner's manual for the proper instructions.

Proper storage of an impact driver is equally important as following proper maintenance to keep your driver running optimally for as long as possible. **Promaker** offers several storage solutions for power tool storage. Among their many helpful tips, some stand out as basic but easily overlooked, such as removing your tools from their original box. Instead, hang it on a tool rack or pegboard, or place it in a storage bin. Impact drivers should have ample ventilation while in storage and protection from moisture.

Conclusion of an impact driver

Pexels

Impact drivers vary considerably in price. The fundamental features that impact drivers are torque, voltage, BPM (blows per minute), and, for battery quality. According to [Cordless Drill Zone](#), an impact driver that

Basic qualities will be pricier than others. Add on desirable features like a clutch for controlling speed and torque, trigger activation, LED light for visibility, lithium-ion battery and recharger, and accessories such as sockets, the more expensive the product.

Rank highest for their superior features cost over \$300. But not all have that technology. Average-quality, lower-priced options run around \$100. If you want a product that falls somewhere in between, one that performs well in most applications but isn't too technical. In that case, you can find an impact driver for \$200 – \$300.

Common mistakes

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impact drivers likely misuse other power tools because they lack experience. Do you remember when you used a screwdriver to build a project, for shop class? If so, perhaps you can understand how easy

he screw to compensate for poor alignment. The worse it gets, the worse, this tactic can backfire. You may damage threads, which only leads to a poor fit between screw and bolt. Using the wrong socket is also a common mistake. In [Trona Ut](#) reminds DIYers, you risk damaging the tool and work if you choose the wrong size or type of impact driver for your project.

For many of us would not want to admit, is not knowing how to use the tool in the first place. The folks at [Emission Time](#) outline common errors people make with wrenches, which share attributes with impact drivers. Their general advice is to be careful. To avoid mistakes, clear up your working station, use care with your impact driver, and unplug the driver or remove the battery and set it aside when not in use.

How to repair an impact driver?

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if your impact driver won't start, makes irregular noises, or emits an
big This Design, it needs repair. Diagnosing the problem may require
e, but there are a few things you may be able to problem-solve even

If your corded impact driver won't start, inspect the power cord for signs of damage. For cordless impact drivers, an inefficient battery make sure it's fully-charged. If the battery won't hold a charge, you it. Changes in sound and smell are signs that your impact driver e to the powertrain system or an overheating motor.

vises [Geariz](#), you need to know the basic steps of power tools in ed to have the following tools to make the repair: [screwdriver](#) wrench shaft, socket, and grease. Then you disassemble your driver, reassemble the parts correctly. Check out [EZ Tool Hub](#) to get an in- he names of impact tool parts (bit holder, hammer, motor, and

lways best to contact the manufacturer or find a tool repair store you

impact driver as a drill?

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impact driver as a drill, but only in some instances. The primary
ct driver is to drive and disassemble screws and bolts. The main
rior torque. So you don't want to use an impact driver when you need

and risk damaging the surfaces of the intricate shelves you're
It drivers are made for 1/4th hex shank driver bits only. Drill bits aren't
and the torque of an impact driver, emphasizes **Rockwell**. But if what
requires only rough holes for wires, for example, an impact driver

They don't create small and precise holes the way drills do. Power drills
are for precision work in general, largely because they have slip
you control of the torque. Also, their primary uses are for drilling small
small fasteners.

and Garden explains, you need a power drill if you're trying to thread
Impact drivers apply ample torque to drive large fasteners, so don't
if you're working with softwoods (pine, fir, or spruce), drywall, or

Impact driver do I need?

Kasarp Studio/Shutterstock

s to choose from: $\frac{1}{4}$, $\frac{3}{8}$, and $\frac{1}{2}$ -inch impact drivers. They are low, power from small to large sizes. The smallest is most accurate than both the $\frac{1}{4}$ **and** $\frac{3}{8}$ -inch impact drivers work well for tight areas. But

for your project? It's critical that you use the appropriate size for the **Power Tools**.

working in more expansive areas like the **exterior** of your house. In that case, a 1/2-inch impact driver is best because it's most powerful. Outdoors, you don't have to worry about the impact driver's size, so take advantage of the high torque.

Indoors, you often have to work on tight areas where accuracy matters most; a 3/8-inch impact driver is best because of the efficiency of a 3/8-inch impact driver. In addition, it's lighter weight which allows users to work with the maximum comfort.

While a 1/2-inch impact driver works just fine in tight areas, the level of accuracy may decrease over time.

What should you look for?

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considered superior to brushed motors because they last longer
as much heat. Just about any motorized appliance, from ceiling fans
akers, have brushless motor options. Other desirable features include

M ranges, ease of use, and more, as [Build Review](#) clarifies.

ers with variable RPM ranges. Impact drivers are known and used for
t not all jobs require constant and intense force. To drive fasteners
look for models with three or four speed settings ranging from 0 to
re trying to remove a corroded fastener or a similarly difficult task. In
d to be able to reach max torque quickly, then slow it down.

k for in an impact driver is a toggle feature so you shift directions
| index finger. For safety, make sure your impact driver has a trigger
nt battery drainage if you accidentally press the trigger.

RECOMMENDED

**Teigen's Metallic
Wall Paint Trend
Will Be
Everywhere In
2023**

**The Real Reason
People Regret
Winning The
HGTV Dream
Home**

**Spray Your House
With White
Vinegar And
Watch What
Happens**