

## Carpentry – week 9

### Rotary tools

This week we will look at handheld drills and other rotary tools.

The images that follow are all from the Home Depot web sites.

Drills used by a carpenter are typically either powered a battery or by a connection to household power. Generally, these will either be sized as 3/8 or 1/2 inch but they can be larger. This refers to the maximum diameter of the tool that can be accommodated by the drill's chuck. The larger chuck can always hold a smaller diameter tool. Those labelled hammer drills impart a hammering action as they rotate. This is useful when drilling into concrete or similar hard materials.

Cordless drill examples:



**DEWALT** 20V MAX Li-Ion Cordless Brushless Compact 1/2-inch Drill Driver



**BLACK+DECKER** 12V MAX Lithium-Ion Cordless 3/8-inch Drill



**RYOBI** 8V Lithium-Ion Cordless Drill



**Milwaukee Tool M18 FUEL 18-Volt Lithium-Ion Brushless Cordless 1-Inch SDS-Plus Rotary Hammer**



**DEWALT 20V MAX Lithium-Ion Cordless 3/8-inch Right Angle Drill**

Most of these drills can also be purchased as corded versions. The corded drills are usually less costly to purchase and to keep. The batteries of cordless tools will eventually have to be replaced at significant cost. You will have to decide if the advantage is worth the added cost.

Here are some examples of corded drills.



**MAKITA** 3/8-inch General Purpose Drill



**Bosch** Bulldog Extreme 1-inch SDS-Plus Rotary Hammer



**Milwaukee Tool 1/2-inch Super Hawg Corded Drill**



**Milwaukee Tool 3/8-inch Close Quarter Angle Drill**

Other rotary tools one might use are the various types of drivers. These are generally single purpose tools that speed up repeated operations. Here are some examples:



**MAKITA** LXT 18V 1/4-inch Impact Driver. This is essentially a power screwdriver which will accept different type driver bits.



**Hilti** SD 4500 6.5 amp Drywall Screwdriver. This is a specialized driver meant for drywall screws. There is a clutch mechanism at the tip that disengages the drive when the head of the screw has reached a pre-set depth. They are available from various manufactures and can also be cordless.



**Simpson Strong-Tie Quik Drive PRO250 Subfloor System w/ DeWalt 2500 RPM Screwdriver Motor.** This is used to install subfloor material and decking without having to bend down. The screws are fed to the machine by way of a magazine.



**MAKITA 18V LXT Autofeed Screwdriver.** This is also a magazine fed tool.

This week's exercise is to seek out 2 examples of each of these tools from two separate stores or distributors in Canada. Along with the tool, list the source and the price.