Product Information Report Files





A file is a precision hand tool designed to remove stock, sharpen tools and produce a variety of finishes on many different types of material.

The two most common types of files are:

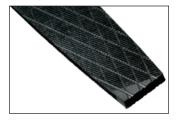
- Machinists' Files (Engineers' Files) Designed for fast removal of all types of metal
- Tool Sharpening Files (Saw Files) Designed for sharpening saws and dressing edged tools

What is the Best File for My Application?

There are many types of files. Knowing which file to use for a given application is key to making your job easier and prolonging the effectiveness of your file. Proper file selection is based on file shape, the desired finish, and the type of material being removed.

Styles and Uses

D-Cut





Design: Single cut coarse tooth with a diamond-shaped pattern on both sides. The "double chip breaker" diamond pattern leaves a smooth finish and allows for fast stock removal. D-cut files have one single-cut tiny edge for shoulder filing.

Applications: Designed to cut brass, plastic, steel, cast iron and many other materials. D-cut files can be also used to file down welds.

Flat Bastard





Design: Coarse tooth and double cut on both sides for rapid stock removal. These files have one single-cut edge for shoulder filing. They taper toward the point.

Applications: Designed to cut cast iron, brass, aluminum alloy, copper, hard rubber, steel and many other materials.

Square Bastard





Design: Coarse tooth and double cut on all four sides. Files taper toward the point.

Applications: Designed to cut cast iron keyways, spines, square holes and slots.

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Styles and Uses (cont.)

Half Round Bastard





Design: Wavy coarse tooth double cut pattern on the flat side. The round side has a spiral tooth pattern designed for a smooth, rounded finish. Spiral pattern eliminates having to roll your wrist.

Applications: Designed to cut cast iron pipe fittings. Used to cut out concave surfaces and to round out holes.

Round Bastard





Design: Coarse tooth double cut with a spiral tooth pattern. These files taper toward the point.

Applications: Designed to cut cast iron and annealed steel alloy. Used for enlarging circular holes and round grooves when a half round bastard files to large.

Triangular Bastard

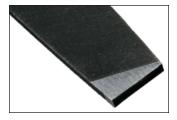




Design: Double cut coarse tooth on all three sides. Files taper toward the point. All three angles are 60°.

Applications: Used for filing internal angles and for cleaning out square corners where a flat file can't reach.

Mill





Design: Single cut on both sides. Files have one single-cut edge for shoulder filing. Mill files are slightly tapered to the point.

Applications: Used to sharpen stainless steel mill saws, shears, lawn mower blades, circular saws, axes and farm tools. They can also be used for lathe work and general filing.

Taper

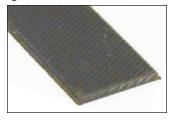




Design: Single cut on all three sides. All three edges are cutting edges. Files taper toward the point.

Applications: Used to sharpen steel saws including hand saws, circular saws, cross-cut saws and bucksaws.

Ignition Files





Design: Fine tooth, single cut on both sides.

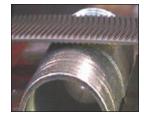
Applications: Used to clean spark plugs and dress contact points. Also used to smooth out the electrode in a spark plug.



Styles and Uses (cont.)

Flexible Vixen





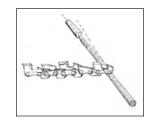
Design: Milled, curve-tooth face on both sides for fast stock removal and a very smooth finish.

Applications: Used to file aluminum and sheet metal. They are also designed to be used in auto body work. These files can be used to file flat, convex and concave surfaces when used with a vixen file handle.



Round Chain Saw

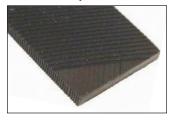




Design: Has a single cut pattern. Files maintain tooth shape and leave a smooth cutting edge.

Applications: Used to sharpen round-hooded chain saw teeth.







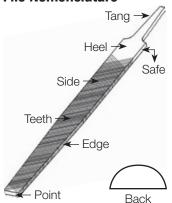
Design: Double cut pattern on one side and single cut pattern on the other. This provides maximum versatility for different applications. These files have one single cut edge for shoulder filing.

Applications: Used for a wide range of applications including cutting brass, steel, cast iron, copper and bronze.

File Facts

- A file cuts only in one direction
- File patterns affect the amount of material removed
- Correct file strokes can blend over a welded hole
- Too much pressure causes the file to fail prematurely
- Stroke speed affects the surface finish

File Nomenclature



Tang – the pointed part of the file that is inserted into the file handle

Heel - the part of the file next to the tang - also known as the shoulder

Point - the end of the file opposite the tang

Length – the distance between the point and the heel – also known as the body

Teeth - the cutting ridges on the file's surface

Side - the wide file surface - used for most filing

Edge - the narrow file surface - may be round or square in shape

Back - the rounded side of all half-round files

Safe – an edge or side with no teeth cut