

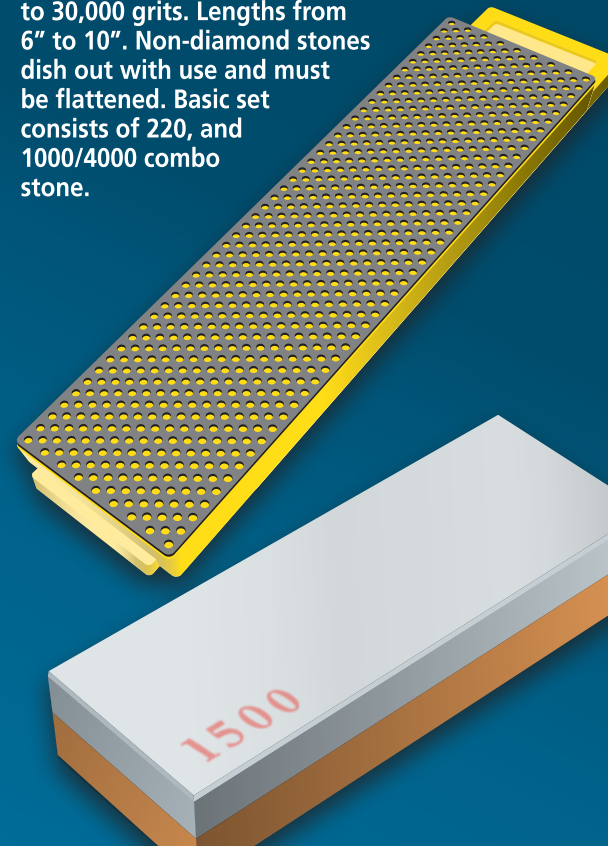
Sharpening

From the editors of
Woodworking
CANADIAN
 & HOME IMPROVEMENT

HAND SHARPENING

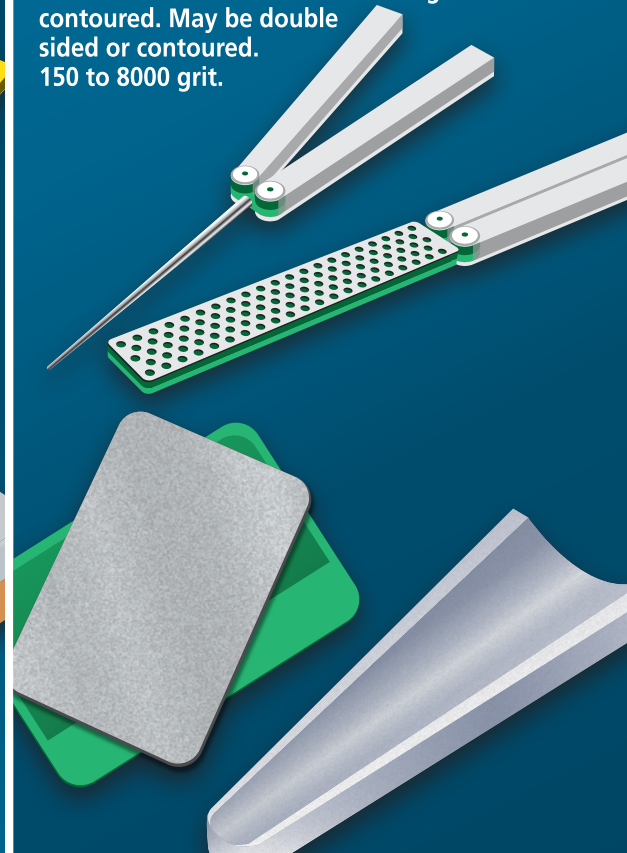
Bench Stones

Single or double-sided (combo) silicon carbide, aluminium oxide or diamond stones in 120 to 30,000 grits. Lengths from 6" to 10". Non-diamond stones dish out with use and must be flattened. Basic set consists of 220, and 1000/4000 combo stone.



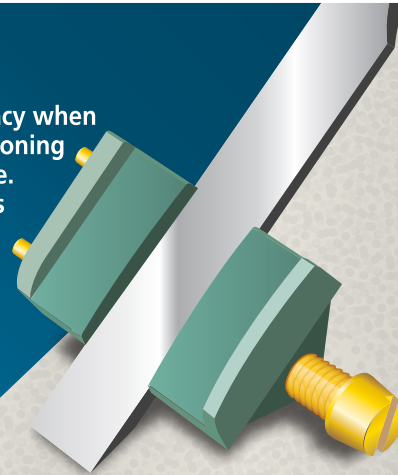
Specialty Stones

Diamond or water stones in a portable, hand held format best suited for small cutting tool. Flat or contoured. May be double sided or contoured. 150 to 8000 grit.



Honing Guides

Increases accuracy when sharpening or honing on a benchstone. For bevel angles from 15 to 45-degrees on chisels and plane blades up to 3" wide.



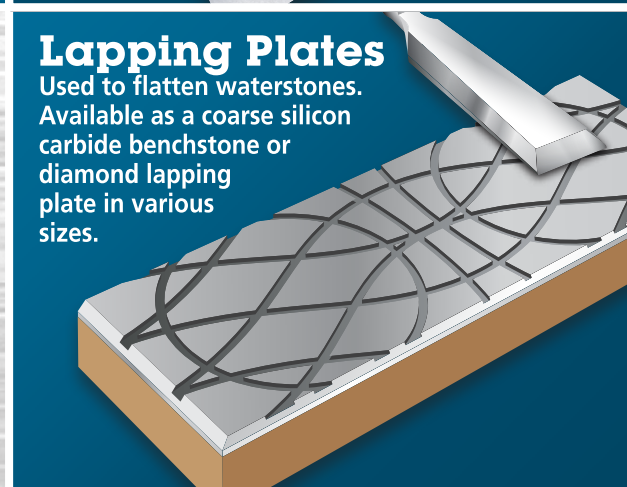
Micro Finishing Film

Silicon carbide or chrome oxide abrasive, or diamond grit on a plain or PSA backed polyester film, usually applied to glass plate. For honing a razor sharp edge. Rated in micron sizes - 15 μ to 0.1 μ.



Lapping Plates

Used to flatten waterstones. Available as a coarse silicon carbide benchstone or diamond lapping plate in various sizes.



Honing Paste/Compound

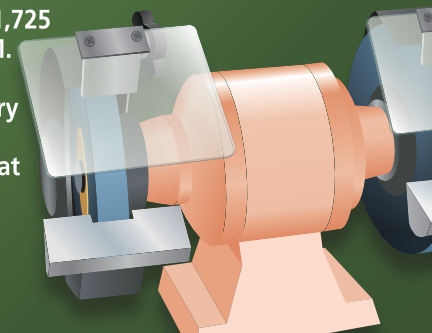
Diamond grit paste in a mineral oil base is available in a syringe or spray. Honing compound is available in bar form. For honing a razor sharp edge. Applied to a non-porous surface. From 6 μ to 0.5 μ.



POWER SHARPENING

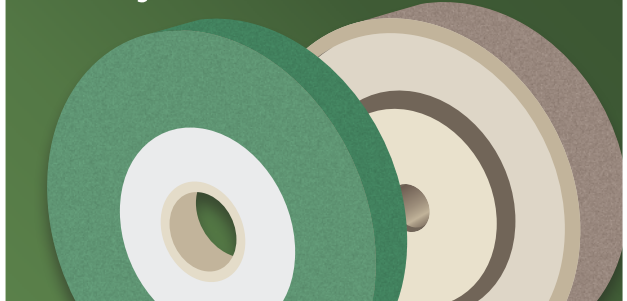
Dry (Bench) Grinders

Usually have two 60x to 120x grit aluminum oxide grinding wheels, 1/2" to 1" wide, 6" or 8" diameter wheels spinning at 1,725 to 3,450 RPM. No lubricant used. Cut very aggressively. Excessive heat can ruin the temper of a blade.



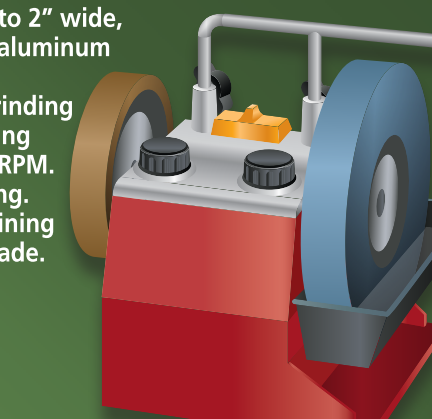
Grinding Wheels

Made of aluminum oxide or cubic boron nitride 1/2" to 1" wide, 6" or 8" diameter wheels. 36 to 1,000 grit. Require periodic dressing and truing.



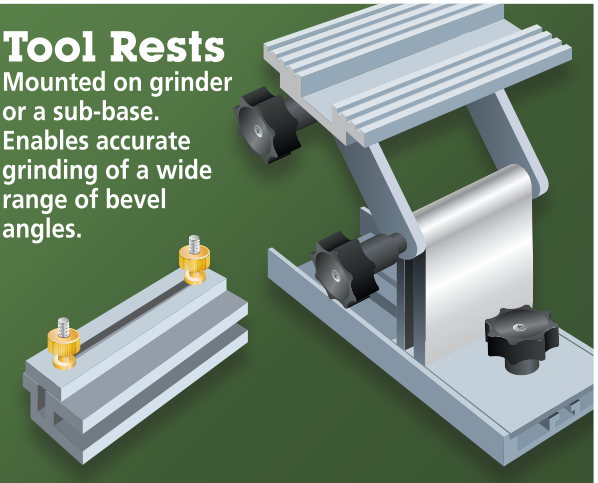
Wet Grinders

Single 1-1/2 to 2" wide, 8" diameter aluminum oxide water-lubricated grinding wheel spinning at 75 to 150 RPM. Slower cutting. No risk of ruining temper of blade.



Tool Rests

Mounted on grinder or a sub-base. Enables accurate grinding of a wide range of bevel angles.



Platter Grinders

Uses 80 to 1,200 grit 6" to 8" abrasive disks mounted on a turntable spinning at 580 to 650 RPM. No lubricant used. Cuts aggressively with minimal heat build-up.



Sharpen: Remove material from a cutting edge.

Hone: Refine the cutting edge.

Grit: A measure of particle size used for benchstones.

Micron: A measure of grit particle size used for finishing film, diamond paste and honing compound.

This Workshop Poster sponsored by:



www.leevalley.com
 1-800-267-8761

