

Simonds Files

American Pattern Files,
Swiss Pattern Files,
Vixen® Files,
Rotary Files,



FUCHS

MACHINERY & SUPPLY, INC.

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SIMONDS

WallaceMurray

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Service Centers

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PRODUCT CODE NUMBERS

Many of you are familiar with the Simonds Product Code numbers and will prefer using these numbers, but if you are using a computerized program system requiring NIDA/SIDA numbers, these are also included in this catalog for your convenience.

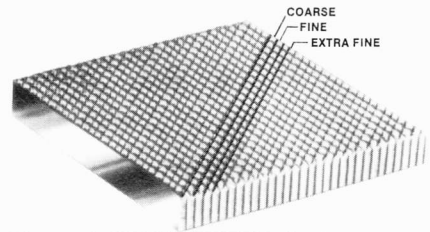
The NIDA/SIDA manufacture's code assigned to Simonds Cutting Tools is **5764**.



Your **Simonds** distributor can save you time and money. Local stocks. Local service. He's a cutting tool expert who stands ready to help you.

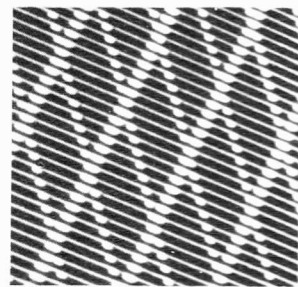
Simonds Files Offer These Exclusive Features That Makes Them Superior

WAVY TEETH DESIGN



Simonds WAVY TEETH design is standard on all Simonds double-cut files except the round shapes. Instead of uniformly spaced overcuts, Simonds varies their spacing from coarse to fine to extra fine and coarse again, repeating this pattern across the full working face of the file. The result is a clearly visible WAVY TEETH pattern that cuts faster and smoother without chattering and that lasts longer than ordinary files work equally well on steel, iron, aluminum, brass, bronze, copper, slate, wood and most other materials.

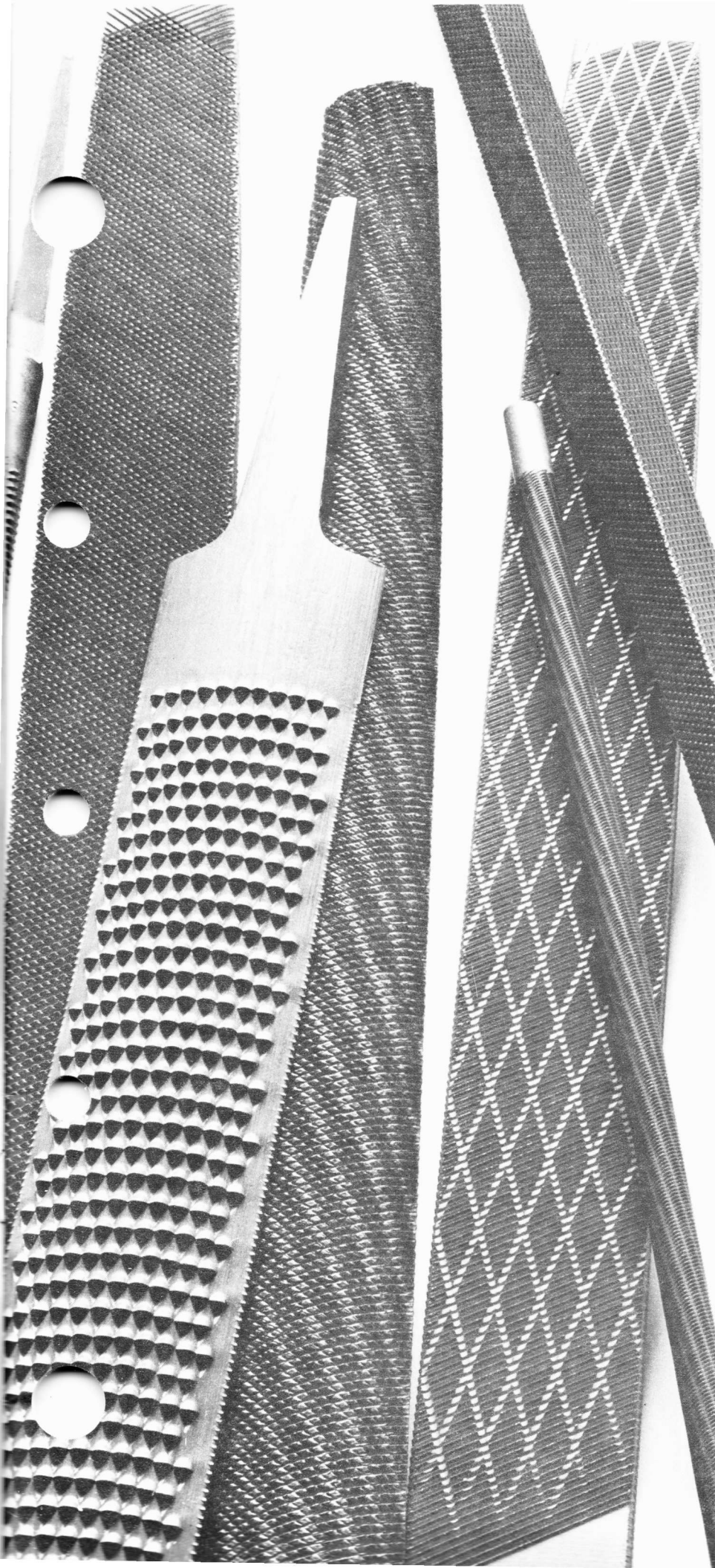
MULTI-KUT DESIGN



Simonds MULTI-KUT design with its double row of crisscross chip breakers and coarse teeth is the most versatile file available to industry combining an extremely fast cutting action with the ability to generate smooth finishes without clogging. MULTI-KUT files reduce the number of the file types you need.

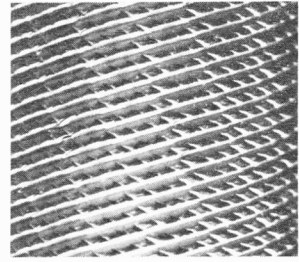
COARSE CUT

For jobs where stock removal is more important than finish, Simonds makes a COARSE CUT file that hogs off metal much faster than the conventional Bastard Cut and last longer.



FILE FEATURES [continued]

SPIRAL CUT TEETH



The Simonds HALF ROUND file has a continuous spiral tooth where competitive files have a series of straight row teeth with gaps between them. So, the Simonds file has more teeth in the work. This lets even an inexperienced operator produce a smooth, even finish with a simple, straight, forward motion. The "rolling action" or "twisting action" required when using other files is built into the Simonds file.

CLEANER GULLETS

Simonds uses a unique cleaning process on its files which eliminates the majority of the grit and grime normally found in the gullets of the file teeth. A cleaner tooth gullet allows the chips to fall freely from the file, permitting the teeth to perform more effectively stroke after stroke. The clean gullets in Simonds files provides the user maximum filing value from every stroke, resulting in longer life and more productive filing. The elimination of grit, grime and excessive clogging also helps to relieve stress on the file's teeth so the teeth are less susceptible to fatigue and breakage.

PLASTIC HANDLES

Simonds offers plastic handles on their Swiss Pattern Needle Files that make them far easier and safer to use and prevents possible OSHA violations.

SIMONDS TRADITION

The famous Simonds brand, first introduced in 1832, is unquestionably one of the most respected symbols of quality and reliability in the industrial marketplace. Every Simonds Red Tang file is precision cut for uniform tooth height and sharpness, scientifically heat treated for maximum hardness and edge-holding ability and individually checked and user-proved for cutting ability and uniformity.

Choosing the Right File

The shape and type of material to be filed and desired surface finish must be considered when selecting the shape, size, and cut of a file. In general, the shape of the surface to be filed, i.e., flat, convex, concave, etc., as well as the sizes of slots, edges, and square, triangular, or circular holes will largely determine the shape (cross section) of the file to be used. The size and type of material to be filed and the length of the stroke determine the length of the file. The type of material, amount of material to be removed, and finish required determine the cut or coarseness of the file and the shape and size of the file required.

File Cut

The chisel cuts which form the teeth or cutting edges of the file are either single cut or double cut.

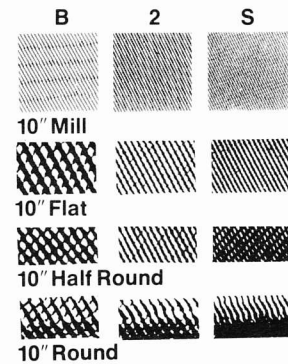
The single cut consists of one series of parallel, equally

spaced cuts or teeth machined at an angle across the face or width of the file. The double cut consists of two series of parallel teeth crossing each other to form many small cutting points. The first series of cuts is called the over cut, and the second series the up cut.

Standard Tooth Cuts

The following illustration compares the cuts of 10-inch single and double-cut file. The shorter the file, the less coarse the teeth. The longer the file, the coarser the teeth. However, the same relative difference in coarseness exists among files of the same length. Tooth cuts are designated throughout this manual as:

- B - Bastard Cut** - A standard cut with coarse teeth for rapid stock removal.
- 2 - Second Cut** - Medium teeth for moderate stock removal.
- S - Smooth Cut** - Fine teeth for smooth finishes.



File Terminology

- Shape** The File cross section (round, square, knife, etc.)
- Tang** The pointed portion of the file that is inserted into the handle.
- Heel or Shoulder** The end of the file next to the tang.
- Point** The end of the file opposite the tang.
- Length** The distance between the point and the heel (tang not included). On files without tangs, length is measured overall.
- Back** The rounded side of Half-Round and Great American Crosscut files.

Also the side opposite the narrow edge of Knife, and similarly shaped files.

- Side** The broad, flat cutting surface.
- Edge** The narrowest cutting surface and corners on triangular-shaped files.
- Safe** The uncut edge, side, or back of the file.
- Blunt** A file having an equal cross section from heel to point.
- Taper** The unequal or tapering width and/or file thickness. Also the name of a type of Saw file.

ILLUSTRATED FILE FINDER FOR MACHINISTS' FILES

CROSS-SECTION	NAME	SHAPE	CHARACTER OF TEETH	TAPER	GENERAL USES
	Flat	Rectangular	Usually bastard. Also second-cut and smooth	Tapered in width.	A general-purpose file.
	Hand	Rectangular	One edge safe. Bastard, second-cut and smooth.	Uniform in width.	Finishing flat surfaces.
	Pillar	Almost Square	One edge safe. Bastard, second-cut and smooth.	Uniform in width.	Keyways, slots, narrow work.
	Warding	Thin	Usually bastard. Also second-cut and smooth.	Width sharply tapered thickness uniform.	Filing ward notches in keys. Narrow work.
	Square	Square	Bastard, second-cut and smooth.	Tapered	Enlarging holes or recesses. Mortises, keyways and splines.
	Three-Square	Triangular	Sharp edges. Bastard, second-cut and smooth.	Tapered	Filing acute angles, corners, grooves, notches.
	Round	Circular	Usually bastard. Also second-cut and smooth.	Tapered	Enlarging holes; shaping curved surfaces.
	Half-Round	Third-Circular	Usually bastard. Also second-cut and smooth.	Usually tapered, sometimes blunt.	Concave corners; crevices, round holes.
	Knife	Knife-Shaped	Usually bastard. Also second-cut and smooth.	Tapered curving to a narrow point.	Cleaning out acute angles, corners, slots.
	Aluminum	Flat Rectangular	Made in one cut only. Fast-cutting teeth.	Tapered	Filing aluminum alloys and other soft metals.
	Aluminum	Half-Round	Made in one cut only. Fast-cutting teeth.	Slightly tapered.	Filing aluminum alloys and other soft metals.
	Long Angle Lathe	Flat Rectangular	Made in one cut only. Both edges safe.	Slightly tapered.	Lathe work where smooth finish is desired. Also soft metals.

ILLUSTRATED FILE FINDER FOR SAW AND CHAIN SAW FILES

CROSS-SECTION	NAME	SHAPE	CHARACTER OF TEETH	TAPER	GENERAL USES
	Taper	Triangular	Single-cut and Double-cut.	Tapered	Sharpening Saws
	Slim Taper	Triangular	Single-cut and Double-cut	Tapered	Sharpening Saws
	Extra Slim Taper	Triangular	Single-cut and Double-cut	Tapered	Sharpening Saws
	Double Extra Slim Taper	Triangular	Single-cut and Double-cut	Tapered	Sharpening Saws
	Mill	Flat Rectangular	Single-Cut. Both edges cut. Also with either one or two round edges.	Slightly tapered 2 RE no taper	General purpose file for sharpening tools and shop use.
	Mill Chain Saw File	Flat 2 RE	Single-cut	Uniform in width	Filing Saw Chain
	Round Chain Saw File	Round	Single-cut	Blunt	Filing Saw Chain

ILLUSTRATED FILE FINDER FOR SPECIAL-PURPOSE FILES

CROSS-SECTION	NAME	SHAPE	CHARACTER OF TEETH	TAPER	GENERAL USES
	Rotary Mower	Flat self-handle	Made in one cut only.	Uniform in width	Sharpen mowers and tools.
	All purpose	Flat self-handle	Bastard cut one side Finer cut one side.	Uniform in width	General filing
	Farmer's own	Flat self-handle	Made in one cut only.	Uniform in width	Sharpening edge Tools
	Doctor files #381	Flat no tang	Made in one cut only.	Uniform in width	Sharpening doctor Blades
	Veneer Knife Files	Flat 2 Round Edges	Made in one cut only.	Uniform in width	Sharpening Veneer Knives

ILLUSTRATED FILE FINDER FOR SWISS PATTERN FILES

CROSS-SECTION	NAME	SHAPE	CHARACTER OF TEETH	TAPER	GENERAL USES
	Hand	Rectangular	Double-cut on two flat faces and one edge. Other edge safe or uncut.	Uniform in width	Flat surfaces.
	Pillar	Width narrower than Hand File.	Double-cut on two flat faces. Both edges safe.	Uniform in width.	Flat surfaces, slots.
	Warding	Thin Rectangular	Double-cut on two flat faces. Single-cut on two edges.	Tapered in width. Uniform in thickness.	Slots, locks and keys.
	Square	Square	Double-cut.	Tapered.	Corners, holes.
	Three-Square	Triangular (Equilateral)	Double-cut on three faces. Single-cut on edges.	Tapered.	Corners, holes.
	Round	Circular	Double-cut.	Either tapered or uniform (straight).	Corners, holes.
	Half-Round	Third-Circular	Double-cut.	Tapered.	Corners, holes.
	Knife	Knife-Shaped	Double-cut on flat faces. Single-cut on edges.	Tapered.	Slots.
	Crossing	Oval, with unequal radii	Double-cut.	Tapered.	Corners, holes.
	Equalling	Rectangular	Double-cut on flat faces. Single-cut on edges.	Uniform throughout length.	Slots, corners.
	Barrette	Trapezoidal	Cut only on wide flat face. Other faces safe.	Tapered.	Corners, flat surfaces, burring gear teeth.
	Crochet	Falt, with round edges.	Double-cut.	Tapered.	Slots, flat surfaces, rounded corners.
	Cant	Triangular, (Isosocles)	Double-cut on three faces. Single-cut on two sharp edges.	Tapered.	Corners.
	Slitting	Flat Diamond	Double-cut on four faces. Single-cut on two sharp edges.	Blunt.	Slots, corners.
	Pippin	Apple Seed	Double-cut.	Tapered.	Rounded corners, holes.

Simonds Red Tang[®] Machinists' Files

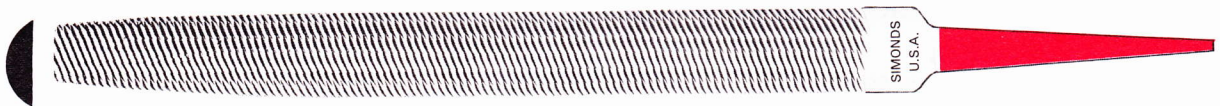
Designed for fast removal of all types of metal, these files are generally double cut and come in shapes and sizes for specific applications.



Flat Aluminum - Type A

This file has fast cutting teeth especially designed for use on aluminum, aluminum alloys, soft steel and various non-ferrous metals. Double cut, it is uniform in thickness but tapers in width toward the point.

Size	Double Cut	Simonds Number	NIDA/SIDA Number
6 x 5/8 x 5/32	—	73-27450	08111
8 x 25/32 x 7/32	—	73-27500	08112
10 x 31/32 x 1/4	—	73-27550	08113
† 12 x 1-5/32 x 9/32	—	73-27600	08114



Half Round Aluminum - Type A

Like the Flat Aluminum, this file is made especially for use on aluminum and soft type metals. The half round shape permits filing on concave surfaces and rounding out holes. It has one flat side and tapers toward the point. Double cut.

Size	Double Cut	Simonds Number	NIDA/SIDA Number
6 x 19/32 x 5/32	—	73-37300	08451
8 x 3/4 x 7/32	—	73-37350	08452
10 x 15/16 x 9/32	—	73-37400	08453
† 12 x 1-1/8 x 11/32	—	73-37450	08454



Flat

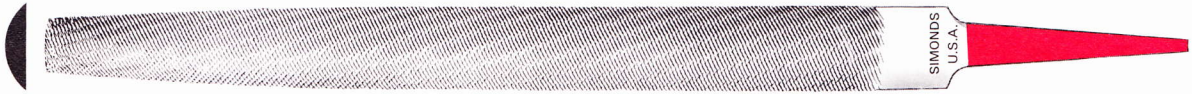
Universally favored in the factory, machine shop and garage, this is the general purpose "work horse" used by all mechanics for rapid stock removal. Double cut, it tapers in width toward the point and has cut edges.

Size	Double Cut	Simonds Number	NIDA/SIDA Number
8 x 25/32 x 7/32	C	73-23150	07942
8 x 25/32 x 7/32	B	73-23200	07953
8 x 25/32 x 7/32	2	73-23250	07963
8 x 25/32 x 7/32	S	73-23300	07973
10 x 31/32 x 1/4	C	73-23350	07943
10 x 31/32 x 1/4	B	73-23400	07954
10 x 31/32 x 1/4	2	73-23450	07964
10 x 31/32 x 1/4	S	73-23500	07974
† 12 x 1-5/32 x 9/32	C	73-23550	07944
† 12 x 1-5/32 x 9/32	B	73-23600	07955
† 12 x 1-5/32 x 9/32	2	73-23650	07965
† 12 x 1-5/32 x 9/32	S	73-23700	07975
† 14 x 1-11/32 x 5/16	C	73-23750	07945
† 14 x 1-11/32 x 5/16	B	73-23800	07956
† 14 x 1-11/32 x 5/16	2	73-23850	07966
† 14 x 1-11/32 x 5/16	S	73-23900	07976
† 16 x 1-17/32 x 11/32	B	73-23950	07957

† Packed 6 per box, all others 12 per box.

C — Coarse Cut (Slightly Coarser Than Bastard) B — Bastard Cut 2 — Second Cut S — Smooth Cut

Simonds Red Tang[®] Machinists' Files [continued]

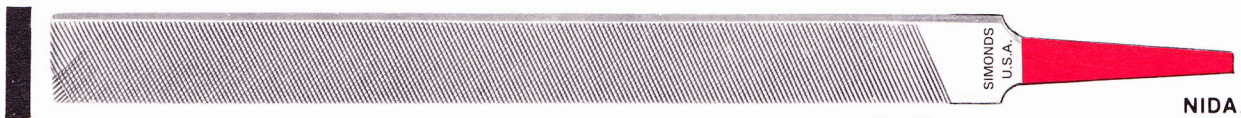


Half-Round

These files are used for filing out concave surfaces and crevices, and for rounding out holes. Their improved spiral cut enables them to remove metal rapidly and leave a smooth finish.

Size	Double Cut	Simonds Number	NIDA/SIDA Number
4 x 7/16 x 1/8	B	73-31500	08291
4 x 7/16 x 1/8	2	73-31550	08301
4 x 7/16 x 1/8	S	73-31600	08311
6 x 19/32 x 5/32	C	73-31650	08281
6 x 19/32 x 5/32	B	73-31700	08292
6 x 19/32 x 5/32	2	73-31750	08302
6 x 19/32 x 5/32	S	73-31800	08312
8 x 3/4 x 7/32	C	73-31850	08282
8 x 3/4 x 7/32	B	73-31900	08293

Size	Double Cut	Simonds Number	NIDA/SIDA Number
8 x 3/4 x 7/32	2	73-31950	08303
8 x 3/4 x 7/32	S	73-32000	08313
10 x 15/16 x 9/32	C	73-32050	08283
10 x 15/16 x 9/32	B	73-32100	08294
10 x 15/16 x 9/32	2	73-32150	08304
10 x 15/16 x 9/32	S	73-32200	08314
† 12 x 1-1/8 x 11/32	C	73-32250	08284
† 12 x 1-1/8 x 11/32	B	73-32300	08295
† 12 x 1-1/8 x 11/32	2	73-32350	08305
† 12 x 1-1/8 x 11/32	S	73-32400	08315
† 14 x 1-9/32 x 13/32	C	73-32450	08285
† 14 x 1-9/32 x 13/32	B	73-32500	08296
† 14 x 1-9/32 x 13/32	2	73-32550	08306
† 14 x 1-9/32 x 13/32	S	73-32600	08316
† 16 x 1-15/32 x 15/32	B	73-32700	08297



Hand

This file has the same cross-sectional dimensions as the Flat File but is blunt in shape (no taper). Double cut it has one safe (uncut) edge which permits filing one surface without damaging an adjoining one.

Size	Double Cut	Simonds Number	NIDA/SIDA Number
6 x 5/8 x 5/32	B	73-29600	08182
6 x 5/8 x 5/32	2	73-29650	08192
6 x 5/8 x 5/32	S	73-29700	08202

Size	Double Cut	Simonds Number	NIDA/SIDA Number
8 x 25/32 x 7/32	B	73-29750	08183
8 x 25/32 x 7/32	2	73-29800	08193
8 x 25/32 x 7/32	S	73-29850	08203
10 x 31/32 x 1/4	B	73-29900	08184
10 x 31/32 x 1/4	2	73-29950	08194
10 x 31/32 x 1/4	S	73-30000	08204
† 12 x 1-5/32 x 9/32	B	73-30050	08185
† 12 x 1-5/32 x 9/32	2	73-30100	08195
† 12 x 1-5/32 x 9/32	S	73-30150	08205
† 14 x 1-11/32 x 5/16	B	73-30200	08186



Knife

Shaped like a knife blade, this file is commonly used on slots and keyways and for acute angle work in diemaking. Sides are double cut and the thin edge is cut but the back is safe (uncut).

Size	Double Cut	Simonds Number	NIDA/SIDA Number
4 x 15/32 x 7/64	B	73-49850	08929
4 x 15/32 x 7/64	2	73-49900	08934
4 x 15/32 x 7/64	S	73-49950	08939

Size	Double Cut	Simonds Number	NIDA/SIDA Number
6 x 21/32 x 5/32	B	73-50000	08930
6 x 21/32 x 5/32	2	73-50050	08935
6 x 21/32 x 5/32	S	73-50100	08940
8 x 27/32 x 3/16	B	73-50150	08931
8 x 27/32 x 3/16	2	73-50200	08936
8 x 27/32 x 3/16	S	73-50250	08941
10 x 1-1/32 x 1/4	B	73-50300	08932
10 x 1-1/32 x 1/4	2	73-50350	08937
10 x 1-1/32 x 1/4	S	73-50400	08942

† Packed 6 per box, all others 12 per box.

C — Coarse Cut (Slightly Coarser Than Bastard) B — Bastard Cut 2 — Second Cut S — Smooth Cut

Simonds Red Tang[®] Machinists' Files [continued]



Long Angle Lathe

Designed for smooth finish lathe work on either hard or soft metals, this file has the teeth cut on a long angle. Both edges safe (uncut) to permit working next to a shoulder without injury to it. Also used for finish filing of aluminum. Single cut, it tapers in width toward the point.

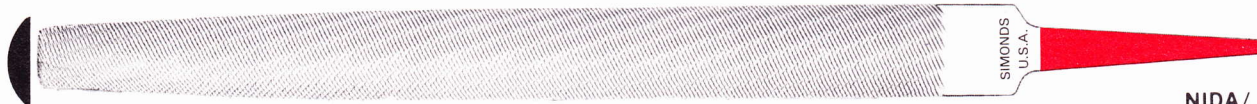
Size	Single Cut	Simonds Number	NIDA / SIDA Number
10 x 31/32 x 1/4	—	73-25550	08081
† 12 x 1-5/32 x 9/32	—	73-25600	08082
† 14 x 1-11/32 x 5/16	—	73-25650	08083



Multi-Kut[®] Flat

This multi-purpose file is designed to fill the need for a versatile file. Ground-in diamond formation chip breaking grooves speed cutting action yet leave a smooth surface on brass, plastics, steel, cast iron or almost any metal. Uniform in thickness, it tapers in width toward the point.

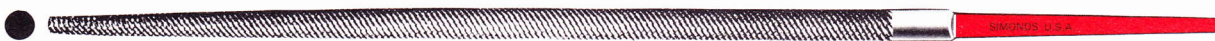
Size	Multi Kut	Simonds Number	NIDA / SIDA Number
8 x 25/32 x 7/32	—	73-24300	08031
10 x 31/32 x 1/4	—	73-24350	08032
† 12 x 1-5/32 x 9/32	—	73-24400	08033
† 14 x 1-11/32 x 5/16	—	73-24450	08034



Multi-Kut[®] Half Round

This shape combines two exclusive file designs. Multi-Kut on the flat side and Spiral Cut on the radius side. This combination gives rapid, smooth finish filing on flat or concave surfaces or for rounding out holes.

Size	Multi Kut	Simonds Number	NIDA / SIDA Number
8 x 3/4 x 7/32	—	73-32800	08381
10 x 15/16 x 9/32	—	73-32850	08382
† 12 x 1-1/8 x 11/32	—	73-32900	08383



Round

Designed for enlarging circular holes or rounded grooves, too small for a Half Round File, this is another popular machinists' file. It tapers toward the point making it adaptable for use on various size holes.

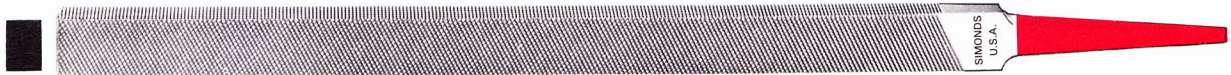
Size	Double Cut	Simonds Number	NIDA / SIDA Number
4 x 5/32	B	73-39300	08521
4 x 5/32	2	73-39350	08531
4 x 5/32	S	73-39400	08541
6 x 7/32	C	73-39550	08511
6 x 7/32	B	73-39600	08523
6 x 7/32	2	73-39650	08533
6 x 7/32	S	73-39700	08542

Size	Double Cut	Simonds Number	NIDA / SIDA Number
8 x 5/16	C	73-39800	08512
8 x 5/16	B	73-39850	08525
8 x 5/16	2	73-39900	08535
8 x 5/16	S	73-39950	08543
10 x 3/8	C	73-40000	08513
10 x 3/8	B	73-40050	08526
10 x 3/8	2	73-40100	08536
10 x 3/8	S	73-40150	08544
† 12 x 1/2	C	73-40200	08514
† 12 x 1/2	B	73-40250	08527
† 12 x 1/2	2	73-40300	08537
† 12 x 1/2	S	73-40350	08545
† 14 x 5/8	C	73-40400	08515
† 14 x 5/8	B	73-40450	08528

† Packed 6 per box, all others 12 per box.

C — Coarse Cut (Slightly Coarser Than Bastard) B — Bastard Cut 2 — Second Cut S — Smooth Cut

Simonds Red Tang[®] Machinists' Files [continued]



Pillar

Rectangular in cross section, this is a favorite file for enlarging slots and keyways both because of its shape and because it has one safe (uncut) edge. Double cut, it is uniform in width and thickness.

Size	Double Cut	Simonds Number	NIDA / SIDA Number
6 x 7/16 x 7/32	B	73-46600	08811
6 x 7/16 x 7/32	2	73-46650	08821
8 x 9/16 x 9/32	B	73-46800	08812
8 x 9/16 x 9/32	2	73-46850	03822
10 x 21/32 x 11/32	B	73-47000	08813
10 x 21/32 x 11/32	2	73-47050	08823

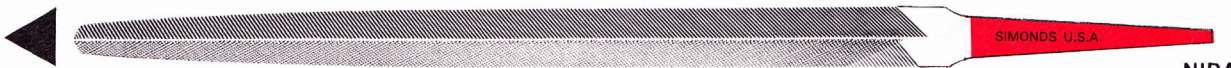


Square

Handy for use on slots, keyways, splines, rectangular as well as square holes and for surface work, this file has four equal sides. Double cut, it tapers toward the point.

Size	Double Cut	Simonds Number	NIDA / SIDA Number
4 x 5/32	B	73-42500	08651
4 x 5/32	2	73-42550	08661
4 x 5/32	S	73-42600	08671

Size	Double Cut	Simonds Number	NIDA / SIDA Number
6 x 7/32	B	73-42800	08652
6 x 7/32	2	73-42850	08662
6 x 7/32	S	73-42900	08672
8 x 5/16	B	73-43000	08653
8 x 5/16	2	73-43050	08663
8 x 5/16	S	73-43100	08673
10 x 3/8	B	73-43200	08654
10 x 3/8	2	73-43250	08664
10 x 3/8	S	73-43300	08674
† 12 x 1/2	B	73-43400	08655
† 12 x 1/2	2	73-43450	08665
† 12 x 1/2	S	73-43500	08675
† 14 x 5/8	B	73-43600	08656



Three Square

Triangular in shape, this file has 60° angles between sides and tapers toward the point. Double cut, it is used for cleaning out corners, filing internal angles inaccessible to rectangular shape files, and for filing annealed cutters and taps. Also used on flat surfaces.

Size	Double Cut	Simonds Number	NIDA / SIDA Number
6 x 15/32	B	73-51650	08969
6 x 15/32	2	73-51700	08975
6 x 15/32	S	73-51750	08981
8 x 5/8	B	73-51800	08970
8 x 5/8	2	73-51850	08976
8 x 5/8	S	73-51900	08982
10 x 3/4	B	73-51950	08971
10 x 3/4	2	73-52000	08977
10 x 3/4	S	73-52050	08983



Warding

Widely used by locksmiths in filing the wards in locks and keys, this file is also favored by machinists for narrow slotting and working on intricate shapes. Double cut, it is uniform but very thin in thickness and tapers extremely in width toward the point.

Size	Double Cut	Simonds Number	NIDA / SIDA Number
4 x 15/32 x 3/64	B	73-47900	08881
4 x 15/32 x 3/64	2	73-47950	08891
4 x 15/32 x 3/64	S	73-48000	08901

Size	Double Cut	Simonds Number	NIDA / SIDA Number
6 x 5/8 x 5/64	B	73-48100	08883
6 x 5/8 x 5/64	2	73-48150	08892
6 x 5/8 x 5/64	S	73-48200	08902
8 x 25/32 x 3/32	B	73-48250	08884
8 x 25/32 x 3/32	2	73-48300	08893
8 x 25/32 x 3/32	S	73-48350	08903
10 x 15/16 x 1/8	B	73-48400	08885

† Packed 6 per box, all others 12 per box.

B — Bastard Cut 2 — Second Cut S — Smooth Cut

Simonds Red Tang[®] Saw Files

Generally single cut (some types also available double cut), these files leave a smooth finish and are best suited for sharpening saws or dressing edged tools. Certain files are furnished especially for sharpening chain saws.



Cantsaw

Triangular in shape with angles of 36, 36 and 108 degrees, making one flat side and two wide angled faces, this blunt type file is a favorite for sharpening small circular saws, buck saw blades and crosscut saw raker teeth. Furnished single cut.

Size	Single Cut	Simonds Number	NIDA / SIDA Number
6 x 17/32 x 15/64	—	73-57600	09361
8 x 11/16 x 9/32	—	73-57700	09363
10 x 13/16 x 11/32	—	73-57750	09364



Cross-Cut Great American

Wedge-shaped with a rounded, cut back, this file is especially designed for sharpening Great American type cross-cut saws and to file out rounded gullets of other type saws. Single cut, it is also cut along the thin edge.

Size	Single Cut	Simonds Number	NIDA / SIDA Number
8 x 11/16 x 9/32	—	73-51200	08956
10 x 13/16 x 23/64	—	73-51250	08957



Cross-Cut Special

Uniform in both width and thickness, this is a favorite file for sharpening circular as well as cross-cut saws. It provides more cutting surface, lasts longer and produces a smoother finish and keener cutting edge on saw teeth. Single cut, it has cut edges.

Size	Single Cut	Simonds Number	NIDA / SIDA Number
7 x 11/16 x 1/8	—	73-16300	07812
8 x 25/32 x 9/64	—	73-16400	07813



Dado

This square, blunt, single cut file is especially designed for sharpening the cutting teeth of outside dado saws.

Size	Single Cut	Simonds Number	NIDA / SIDA Number
10 x 3/8	—	73-46500	08721



Narrow Band Saw Special No. 456

This tapered triangular shape file with cut edges or corners is especially designed to sharpen narrow band saw teeth and maintain round gullets. No. 456 is for 4-, 5-, or 6-tooth saws. Single cut.

Size	Single Cut	Simonds Number	NIDA / SIDA Number
6 x 3/8	—	73-57500	09351

Packed 12 per box.

Simonds Red Tang[®] Saw Files [continued]



Gullet Special


Designed to dress-out wide band saw gullets after gumming, this round, blunt type file helps maintain smooth, round gullet shape and eliminate crack causing case-hardening. Single cut.

Size	Single Cut	Simonds Number	NIDA / SIDA Number
8 x 5/16	—	73-40950	08601
10 x 3/8	—	73-41000	08602



Mill

This is one of the most generally used files because it is adaptable for so many purposes such as sharpening saws, shears, lawn mowers, axes, farm tools, etc, and for draw filing, lathe work and general shop use. This file tapers slightly in width. It is furnished with both edges cut or with either one or two round edges, as shown. Single cut.

*  1 ROUND EDGE Made in 8" and 10" Bastard Cut Only

*  2 ROUND EDGES Made in 6", 8", and 10" Bastard Cut Only

Mill Files with round edges do not taper in width.

Size	Single Cut	Simonds Number	NIDA / SIDA Number
4 x 7/16 x 5/64	B	73-14050	07531
4 x 7/16 x 5/64	2	73-14100	07541
4 x 7/16 x 5/64	S	73-14150	07551

Size	Single Cut	Simonds Number	NIDA / SIDA Number
6 x 19/32 x 7/64	C	73-14250	07522
6 x 19/32 x 7/64	B	73-14300	07532
6 x 19/32 x 7/64	2	73-14350	07542
6 x 19/32 x 7/64	S	73-14400	07552
6 x 19/32 x 7/64	B (2RE)*	73-15950	07611
7 x 11/16 x 1/8	B	73-14450	07533
8 x 25/32 x 9/64	C	73-14500	07523
8 x 25/32 x 9/64	B	73-14550	07534
8 x 25/32 x 9/64	2	73-14600	07543
8 x 25/32 x 9/64	S	73-14650	07554
8 x 25/32 x 9/64	B (1RE)*	73-15650	07593
8 x 25/32 x 9/64	B (2RE)*	73-16050	07613
10 x 31/32 x 11/64	C	73-14700	07524
10 x 31/32 x 11/64	B	73-14750	07535
10 x 31/32 x 11/64	2	73-14800	07544
10 x 31/32 x 11/64	S	73-14850	07555
10 x 31/32 x 11/64	B (1RE)*	73-15700	07595
10 x 31/32 x 11/64	B (2RE)*	73-16100	07615
† 12 x 1-5/32 x 7/32	C	73-14900	07525
† 12 x 1-5/32 x 7/32	B	73-14950	07536
† 12 x 1-5/32 x 7/32	2	73-15000	07545
† 12 x 1-5/32 x 7/32	S	73-15050	07556
† 14 x 1-5/16 x 1/4	C	73-15100	07526
† 14 x 1-5/16 x 1/4	B	73-15150	07537
† 14 x 1-5/16 x 1/4	2	73-15200	07546
† 14 x 1-5/16 x 1/4	S	73-15250	07557
† 16 x 1-1/2 x 9/32	B	73-15350	07538



Saw Bit Special

This two round-edge file is furnished especially for sharpening inserted tooth circular wood saw bits and avoids damaging the shank. Single cut, it is uniform in both width and thickness, provides more filing surface and lasts longer.

Size	Single Cut	Simonds Number	NIDA / SIDA Number
8 x 13/16 x 5/32	—	73-22650	07821

† Packed 6 per box, all others 12 per box.

C — Coarse Cut (Slightly Coarser Than Bastard) B — Bastard Cut 2 — Second Cut S — Smooth Cut

Simonds Red Tang® Saw Files [continued]

Tapered Saw Files

Triangular in shape and tapered toward the point, these files are used primarily for sharpening standard handsaws. They can, of course, also be used for sharpening circular saws, narrow band, cross-cut and buck saws. All have cut edges or corners to maintain saw gullets. Made in four cross sections: Taper, Slim, Extra Slim, and Double Extra Slim.

Files Recommended For Various Point Handsaws

Points	File	Points	File	Points	File
5	7" Taper	9	6" Ex. Slim, 7" Dbl. Ex. Slim	13, 14	5" Dble. Ex. Slim
6	7" or 8" Slim	10	5" or 6" Ex. Slim	15, 16	4" Dble. Ex. Slim
7	6" or 7" Slim	11	5" Ex. Slim, 6" Dble. Ex. Slim		
8	6" Slim, 7" Ex. Slim, 8" Dble. Ex. Slim	12	5" Ex. Slim		

Regular Taper



Size	Cut	Simonds Number	NIDA/SIDA Number	Size	Cut	Simonds Number	NIDA/SIDA Number
6 x 15/32	SC	73-53050	09053	7 x 17/32	SC	73-53100	09054
6 x 15/32	DC	73-53250	09151	8 x 19/32	SC	73-53150	09055
				10 x 23/32	SC	73-53200	09056

Slim Taper



Size	Cut	Simonds Number	NIDA/SIDA Number	Size	Cut	Simonds Number	NIDA/SIDA Number
4 x 7/32	SC	73-53550	09071	7 x 13/32	SC	73-53750	09075
5 x 9/32	SC	73-53650	09073	7 x 13/32	DC	73-54100	09164
6 x 11/32	SC	73-53700	09074	8 x 15/32	SC	73-53800	09076
6 x 11/32	DC	73-54050	09163	10 x 5/8	SC	73-53850	09077

Extra Slim Taper



Size	Cut	Simonds Number	NIDA/SIDA Number	Size	Cut	Simonds Number	NIDA/SIDA Number
4 x 3/16	SC	73-54750	09091	7 x 5/16	SC	73-55000	09096
5 x 15/64	SC	73-54850	09093	7 x 5/16	DC	73-55350	09174
6 x 9/32	SC	73-54950	09095	8 x 13/32	SC	73-55050	09097
6 x 9/32	DC	73-55300	09173				

Double Extra Slim Taper



Size	Cut	Simonds Number	NIDA/SIDA Number	Size	Cut	Simonds Number	NIDA/SIDA Number
4 x 5/32	SC	73-56000	09112	7 x 1/4	SC	73-56250	09115
5 x 3/16	SC	73-56100	09113	7 x 1/4	DC	73-56500	09182
6 x 7/32	SC	73-56200	09114	8 x 5/16	SC	73-56300	09116
6 x 7/32	DC	73-56450	09181				

SC = Single Cut DC = Double Cut

Packed 12 per box.

Simonds Red Tang® Chain Saw Files



Narrow Mill Chain Saw [2 Round Edges]

This blunt shape file is furnished for scratcher type chain saws with plain cutter-and-raker teeth. The round edges prevent sharp corners that may cause trouble. Single cut.

Size	No.	Single Cut	Simonds Number	NIDA/SIDA Number
8 x 5/8 x 3/32	3084	—	73-03084	03084

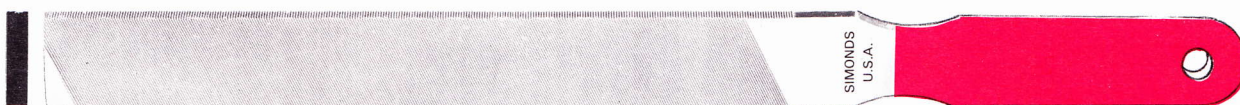


Round Chain Saw

Developed and perfected especially for sharpening round-hooded chain saw teeth, this file maintains proper tooth shape and leaves a smooth, keen cutting edge. Available in diameters and lengths shown for sharpening all sizes of saw chain. Single cut.

Size	Single Cut	Simonds Number	NIDA/SIDA Number
6 x 1/8	—	73-73011	09391
6 x 5/32	—	73-73021	09392
8 x 3/16	—	73-73031	09401
8 x 7/32	—	73-73061	09402
8 x 1/4	—	73-73091	09403
8 x 5/16	—	73-73151	09397
8 x 3/8	—	73-73181	09398

Special Purpose Files



All Purpose

A useful tool for a multitude of filing jobs. Bastard Cut on one side, with finer teeth on the other side.

Size	Double Cut	Simonds Number	NIDA/SIDA Number
8 x 31/32 x 3/16	—	73-18750	07831
10 x 31/32 x 3/16	—	73-18800	07832



Farmer's Own

A general purpose file for the many tasks a farm mechanic meets everyday. Requires no handle, has mill-type teeth. Is ideal for sharpening scythes, mowers and other edge tools.

Size	Double Cut	Simonds Number	NIDA/SIDA Number
8 x 31/32 x 11/64	—	73-18950	07841



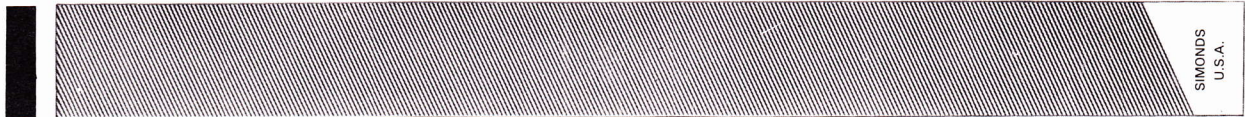
Rotary Mower

Designed to sharpen Rotary Mower Blades and to touch up the edges of garden tools such as hoes, hatchets, etc.

Size	Double Cut	Simonds Number	NIDA/SIDA Number
7" x 3/4" x 1/8"	—	73-04116	07851

Packed 12 per box.

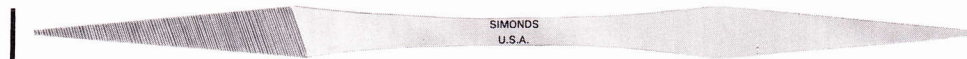
Simonds Red Tang® Special Purpose Files [continued]



Doctor Blade

Made in 14" length only, this blunt shape file has no tang — is especially designed for filing doctor or scraper blades in the textile printing industry. Double cut, furnished in Second Cut only. Length measured over all. Order by number.

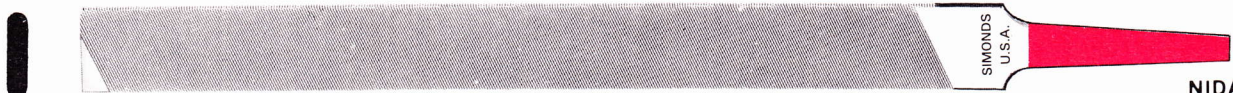
Size	Double Cut	Simonds Number	NIDA / SIDA Number
† #381 — 14" x 1-5/16" x 9/32"	—	73-00381	00381



Auger Bit

Designed to touch up the cutting edges on Auger Bits, this file has one end cut on the flat sides only and the other end on the edges only. Single cut. Length measured over all.

Size	Single Cut	Simonds Number	NIDA / SIDA Number
7" x 11/32" x 1/16"	—	73-58050	09382



Veneer Knife

Mill Two Round Edge Blunt files (Parallel both thickness and width) especially designed for sharpening Veneer Knives. Single cut.

Size	Single Cut	Simonds Number	NIDA / SIDA Number
8 x 25/32 x 9/64	—	73-05281	05281
10 x 31/32 x 11/64	—	73-05282	05282

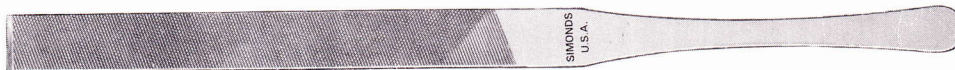
Ignition Files (All Files Shown Actual Size)



5" Patented Tungsten Point Files [Pocket Clip]

Clip handle fits over pocket flap for easy carrying. A necessary tool for every auto mechanic. Used for cleaning spark plugs and dressing contact points. Packed in boxes containing a dozen files. Also mounted on cards (one dozen to a card, 12 cards to carton.)

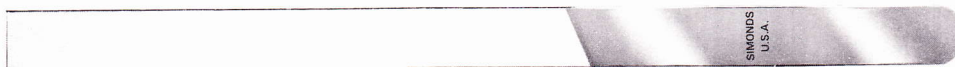
Size	Single Cut	Simonds Number	NIDA / SIDA Number
5	Carded	73-10350	07507
5	Boxed	73-10250	07505



5" Regular Tungsten Point Files

For cleaning distributor points and spark plugs. Also used in cleaning contact points of magnetos, switches, electric bells, etc. Packed in boxes containing one dozen files and also mounted on cards (one dozen files to a card, 12 cards to carton.)

Size	Single Cut	Simonds Number	NIDA / SIDA Number
5	Carded	73-10200	07504
5	Boxed	73-10100	07502



5" Voltage Regulator Files No. 2470

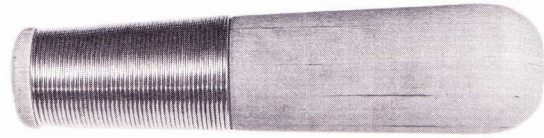
For voltage regulators, circuit breakers, relay and other electrical contact points requiring an extra-thin file with fine cut and smooth finish. 5" over-all — 5/16" wide, approximately .015" thick. Packed on counter display cards only, one dozen on card — twelve cards to a carton.

Size	Double Cut	Simonds Number	NIDA / SIDA Number
5	Carded	73-02470	02470

†Packed 6 per box, all others 12 per box.

Simonds File Handles

A handle should always be used on a tanged file. A properly fitted handle means quicker, better work, and makes the job easier and safer. Our handles are manufactured of soft wood and readily absorb hand moisture.



No.	Size	Simonds Number	NIDA / SIDA Number
#104.....	4" for files 3" to 6"	73-99200	09423
#106.....	4-1/2" for files 4" to 8"	73-99205	09424
#108.....	5" for files 6" to 10"	73-99210	09425

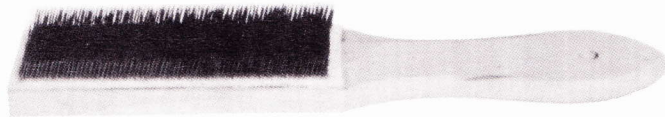
No.	Size	Simonds Number	NIDA / SIDA Number
#110.....	5-1/2" for files 8" to 12"	73-99215	09426
#112.....	6" for files 12" to 18"	73-99220	09427

File Cards

When file teeth are clogged with filings — slipping, scratching and inefficient cutting result. Clean your coarse file frequently with a file card (specially designed fine wire brush), and use the brush on your fine cut file. The combination file card and brush provides both card and brush in one handy cleaning tool.

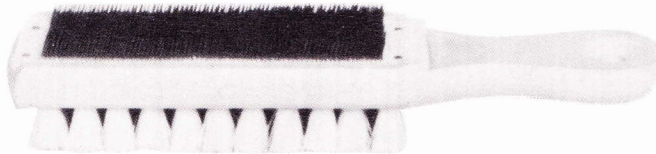
File Card

Simonds Number	NIDA / SIDA Number
73-99300	09421



Combination File Card and Brush

Simonds Number	NIDA / SIDA Number
†73-99350	09422



Bearing and Machinists' Scrapers

Simonds precision-ground scrapers are ideal for hand finishing bearing surfaces, casing joints, and other metal seats.

Bearing Scraper, Triangular [Handled]

No.	Length	Type	Simonds Number	NIDA / SIDA Number
30	3-1/4"	Hollow Ground	85-58350	22061
30A	3-1/4"	Not Hollow Ground	85-58400	22062



Machinists' Scraper, Triangular

No.	Blade Length	Blade Thick.	Simonds Number	NIDA / SIDA Number
3144	5" blade	13/32"	85-03144	03144
3145	6" blade	1/2"	85-03145	03145
3146	7" blade	9/16"	85-03146	03146



No.	Blade Length	Blade Thick.	Simonds Number	NIDA / SIDA Number
3147	5" blade	5/16"	85-03147	03147
3148	6" blade	11/32"	85-03148	03148
3149	7" blade	13/32"	85-03149	03149
3234	8" blade	1/2"	85-03234	03234

Order No. 106 File Handles for Machinists' Scrapers separately.

Simonds Red Tang®

Rasps and Wood Files

Rasps have uniform, individually formed teeth and are generally used by wood craftsmen, wheelwrights, plumbers, leather and aluminum workers, blacksmiths, and hobbyists. Wood files are used for finish filing wood only.



Flat — Wood Rasp

Cut on both flat sides and single cut on the edges, this rasp tapers to the point in width only...is used by woodworkers, plumbers and soft metal workers.

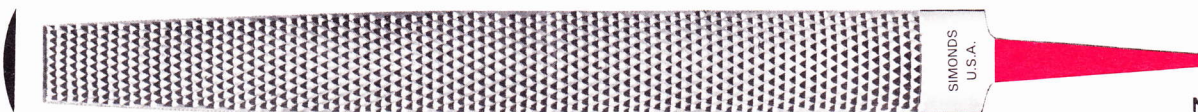
Size	Single Cut	Simonds Number	NIDA/ SIDA Number
10 x 31/32 x 11/32	B	75-10708	21042
† 12 x 1-5/32 x 13/32	B	75-10808	21043
† 14 x 1-11/32 x 15/32	B	75-10908	21044



Half Round — Wood Rasp

Cut on both flat and rounded sides with single cut edges, this coarse tooth rasp is useful on curved as well as flat wood or soft metal surfaces. It tapers toward the point.

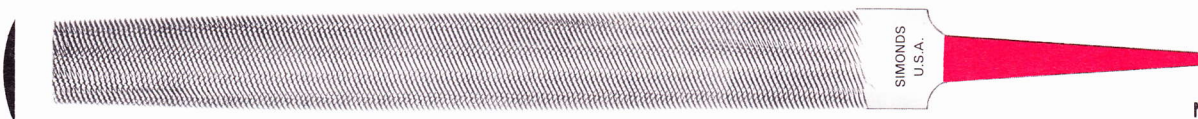
Size	Single Cut	Simonds Number	NIDA/ SIDA Number
8 x 25/32 x 5/16	B	75-11058	21062
10 x 31/32 x 3/8	B	75-11158	21063
† 12 x 1-5/32 x 7/16	B	75-11308	21064
† 14 x 1-11/32 x 1/2	B	75-11408	21065



Cabinet Rasp Half Round

Cut on both flat and rounded sides with single cut edges, this rasp is thinner and has a larger radius on the rounded side than the Half Round Rasp. Made with finer teeth, it tapers toward the point — leaves a smoother finish.

Size	Single Cut	Simonds Number	NIDA/ SIDA Number
8 x 29/32 x 1/4	2	75-11608	21082
10 x 1-1/8 x 9/32	2	75-11708	21083
10 x 1-1/8 x 9/32	S	75-11758	21092
† 12 x 1-11/32 x 11/32	2	75-11808	21084



Cabinet File Half Round

This file is similar in shape to a Half Round File but has a larger radius on the curved side. Used by cabinetmakers and woodworkers, it is made in one cut only which is ideal for most cabinet woods. It tapers toward the point.

Size	Double Cut	Simonds Number	NIDA/ SIDA Number
10 x 1-1/8 x 7/32	—	73-33950	08422



Half Round — Wood File

Made with coarse teeth this Half Round shape provides both a flat and curved side extending its usefulness. It tapers toward the point.

Size	Double Cut	Simonds Number	NIDA/ SIDA Number
10 x 15/16 x 9/32	—	73-34100	08432

† Packed 6 per box, all others 12 per box.

B — Bastard Cut 2 — Second Cut S — Smooth Cut

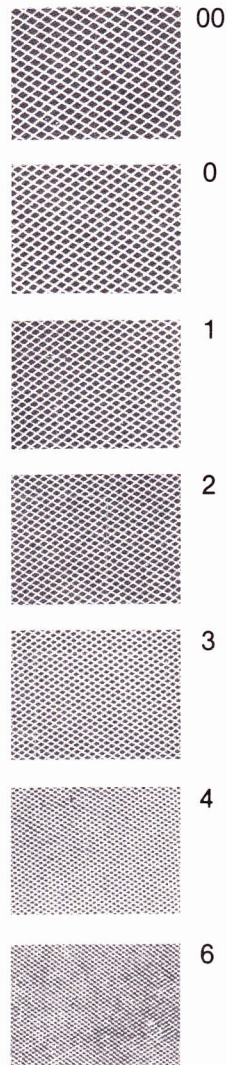
Simonds Swiss Pattern Files

Contents

Swiss Pattern Files are used by jewelers, watchmakers, die-makers, gunsmiths, and other precision craftsmen for finishing delicate and intricate parts. They are slender and narrower in width and thickness than other types of files. Teeth extend to the extreme edges and cuts are much finer than those of any other files. The tapered files have fine points. Cut range from No. 00, the coarsest, to No. 6, the finest.

Cuts

Cuts are shown for 6-inch files. On longer files, the cuts are relatively coarser, on shorter files relatively finer.



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Simonds Swiss Pattern Files [continued]



Half-Round

For corners and holes. The one flat and one half-round side, with sharp corners and gracefully tapered point, makes this a most versatile file. It is double cut on both flat and half-round sides.

Size	Cut	Simonds Number	NIDA / SIDA Number	Size	Cut	Simonds Number	NIDA / SIDA Number
4 x 3/8 x 7/64	00	84-13100	10512	6 x 33/64 x 9/64	2	84-13850	10544
4 x 3/8 x 7/64	0	84-13150	10522	6 x 33/64 x 9/64	3	84-13900	10553
4 x 3/8 x 7/64	2	84-13250	10542	6 x 33/64 x 9/64	4	84-13950	10564
4 x 3/8 x 7/64	3	84-13300	10551	6 x 33/64 x 9/64	6	84-14000	10571
4 x 3/8 x 7/64	4	84-13350	10562	† 8 x 45/64 x 3/16	00	84-14050	10515
6 x 33/64 x 9/64	00	84-13700	10514	† 8 x 45/64 x 3/16	0	84-14100	10525
6 x 33/64 x 9/64	0	84-13750	10524	† 8 x 45/64 x 3/16	1	84-14150	10532
6 x 33/64 x 9/64	1	84-13800	10531	† 8 x 45/64 x 3/16	2	84-14200	10545
				† 8 x 45/64 x 3/16	3	84-14250	10554
				† 8 x 45/64 x 3/16	4	84-14300	10565
				† 10 x 15/16 x 17/64	00	84-14350	10516
				† 10 x 15/16 x 17/64	0	84-14400	10526
				† 10 x 15/16 x 17/64	2	84-14500	10546



Hand

Used for flat surfaces. Uniform in width, double cut on both flat sides. Single cut on one edge and safe (uncut) on the other edge on Cuts No. 00, 0, 2. Two safe (uncut) edges on Cuts No. 3, 4, 6.

Size	Cut	Simonds Number	NIDA / SIDA Number	Size	Cut	Simonds Number	NIDA / SIDA Number
4 x 17/32 x 7/64	0	84-11300	10422	6 x 23/32 x 5/32	2	84-11700	10443
4 x 17/32 x 7/64	2	84-11400	10442	6 x 23/32 x 5/32	3	84-11750	10451
4 x 17/32 x 7/64	4	84-11500	10462	6 x 23/32 x 5/32	4	84-11800	10463
6 x 23/32 x 5/32	00	84-11550	10411	6 x 23/32 x 5/32	6	84-11850	10471
6 x 23/32 x 5/32	0	84-11600	10423	† 8 x 29/32 x 3/16	00	84-11900	10412
6 x 23/32 x 5/32	1	84-11650	10431	† 8 x 29/32 x 3/16	0	84-11950	10424
				† 8 x 29/32 x 3/16	1	84-12000	10432
				† 8 x 29/32 x 3/16	2	84-12050	10444
				† 8 x 29/32 x 3/16	4	84-12150	10464
				† 10 x 1-1/16 x 7/32	00	84-12250	10413
				† 10 x 1-1/16 x 7/32	0	84-12300	10425
				† 10 x 1-1/16 x 7/32	2	84-12400	10445
				† 10 x 1-1/16 x 7/32	4	84-12500	10465



Knife

Long wedge section for filing in slots. Double cut on both flat sides, single cut on sharp edge.

Size	Cut	Simonds Number	NIDA / SIDA Number	Size	Cut	Simonds Number	NIDA / SIDA Number
4 x 31/64 x 7/64	00	84-33200	11241	6 x 21/32 x 5/32	00	84-33700	11242
4 x 31/64 x 7/64	0	84-33250	11251	6 x 21/32 x 5/32	0	84-33750	11252
4 x 31/64 x 7/64	1	84-33300	11261	6 x 21/32 x 5/32	1	84-33800	11262
4 x 31/64 x 7/64	2	84-33350	11271	6 x 21/32 x 5/32	2	84-33850	11272
				8 x 27/32 x 3/16	00	84-34000	11243
				8 x 27/32 x 3/16	0	84-34050	11253
				8 x 27/32 x 3/16	1	84-34100	11263
				8 x 27/32 x 3/16	2	84-34150	11273

†Packed 6 per box, all others 12 per box.

Simonds Swiss Pattern Files [continued]



Pillar

Narrower than Hand files for slots as well as flat surfaces. Double cut on both fiat sides and safe (uncut) on both edges.

Size	Cut	Simonds Number	NIDA/ SIDA Number	Size	Cut	Simonds Number	NIDA/ SIDA Number
4 x 23/64 x 7/64	00	84-22050	10892	6 x 15/32 x 9/64	2	84-22550	10923
4 x 23/64 x 7/64	0	84-22100	10902	6 x 15/32 x 9/64	3	84-22600	10933
4 x 23/64 x 7/64	1	84-22150	10911	6 x 15/32 x 9/64	4	84-22650	10943
4 x 23/64 x 7/64	2	84-22200	10922	8 x 39/64 x 13/64	00	84-22700	10894
4 x 23/64 x 7/64	4	84-22300	10942	8 x 39/64 x 13/64	0	84-22750	10904
4 x 23/64 x 7/64	6	84-22350	10951	8 x 39/64 x 13/64	1	84-22800	10913
6 x 15/32 x 9/64	00	84-22400	10893	8 x 39/64 x 13/64	2	84-22850	10924
6 x 15/32 x 9/64	0	84-22450	10903	8 x 39/64 x 13/64	3	84-22900	10934
6 x 15/32 x 9/64	1	84-22500	10912	8 x 39/64 x 13/64	4	84-22950	10944
				† 10 x 47/64 x 15/64	00	84-23000	10895
				† 10 x 47/64 x 15/64	0	84-23050	10905
				† 10 x 47/64 x 15/64	2	84-23150	10925
				† 12 x 53/64 x 17/64	00	84-23250	10896
				† 12 x 53/64 x 17/64	0	84-23300	10906



Narrow Pillar

Like all Pillar files this file is sometimes used for finishing work that has been started with a Hand file.

Size	Cut	Simonds Number	NIDA/ SIDA Number	Size	Cut	Simonds Number	NIDA/ SIDA Number
4 x 9/32 x 7/64	00	84-23900	10991	6 x 23/64 x 9/64	1	84-24350	11013
4 x 9/32 x 7/64	0	84-23950	11002	6 x 23/64 x 9/64	2	84-24400	11023
4 x 9/32 x 7/64	1	84-24000	11012	6 x 23/64 x 9/64	4	84-24500	11043
4 x 9/32 x 7/64	2	84-24050	11022	8 x 29/64 x 13/64	00	84-24600	10993
4 x 9/32 x 7/64	4	84-24150	11042	8 x 29/64 x 13/64	0	84-24602	11004
6 x 23/64 x 9/64	00	84-24250	10992	8 x 29/64 x 13/64	1	84-24700	11014
6 x 23/64 x 9/64	0	84-24300	11003	8 x 29/64 x 13/64	2	84-24750	11024
				8 x 29/64 x 13/64	4	84-24850	11044
				† 10 x 9/16 x 17/64	00	84-24900	10994
				† 10 x 9/16 x 17/64	0	84-24950	11005



Extra Narrow Pillar

Same use as Pillar files above. Narrow width gets in tighter places.

Size	Cut	Simonds Number	NIDA/ SIDA Number	Size	Cut	Simonds Number	NIDA/ SIDA Number
3 x 9/64 x 3/32	0	84-25350	11101	6 x 1/4 x 9/64	0	84-26050	11103
3 x 9/64 x 3/32	2	84-25450	11121	6 x 1/4 x 9/64	1	84-26100	11113
4 x 11/64 x 7/64	00	84-25650	11092	6 x 1/4 x 9/64	2	84-26150	11123
4 x 11/64 x 7/64	0	84-25700	11102	6 x 1/4 x 9/64	4	84-26250	11143
4 x 11/64 x 7/64	1	84-25750	11112	6 x 1/4 x 9/64	6	84-26300	11153
4 x 11/64 x 7/64	2	84-25800	11122	8 x 5/16 x 13/64	00	84-26350	11094
4 x 11/64 x 7/64	4	84-25900	11142	8 x 5/16 x 13/64	0	84-26400	11104
6 x 1/4 x 9/64	00	84-26000	11093	8 x 5/16 x 13/64	1	84-26450	11114
				8 x 5/16 x 13/64	2	84-26500	11124
				† 10 x 3/8 x 15/64	00	84-26650	11095
				† 10 x 3/8 x 15/64	2	84-26800	11125

† Packed 6 per box, all others 12 per box.

Simonds Swiss Pattern Files [continued]



Pillar

Narrower than Hand files for slots as well as flat surfaces. Double cut on both fiat sides and safe (uncut) on both edges.

Size	Cut	Simonds Number	NIDA / SIDA Number	Size	Cut	Simonds Number	NIDA / SIDA Number
4 x 23/64 x 7/64	00	84-22050	10892	6 x 15/32 x 9/64	2	84-22550	10923
4 x 23/64 x 7/64	0	84-22100	10902	6 x 15/32 x 9/64	3	84-22600	10933
4 x 23/64 x 7/64	1	84-22150	10911	6 x 15/32 x 9/64	4	84-22650	10943
4 x 23/64 x 7/64	2	84-22200	10922	8 x 39/64 x 13/64	00	84-22700	10894
4 x 23/64 x 7/64	4	84-22300	10942	8 x 39/64 x 13/64	0	84-22750	10904
4 x 23/64 x 7/64	6	84-22350	10951	8 x 39/64 x 13/64	1	84-22800	10913
6 x 15/32 x 9/64	00	84-22400	10893	8 x 39/64 x 13/64	2	84-22850	10924
6 x 15/32 x 9/64	0	84-22450	10903	8 x 39/64 x 13/64	3	84-22900	10934
6 x 15/32 x 9/64	1	84-22500	10912	8 x 39/64 x 13/64	4	84-22950	10944
				† 10 x 47/64 x 15/64	00	84-23000	10895
				† 10 x 47/64 x 15/64	0	84-23050	10905
				† 10 x 47/64 x 15/64	2	84-23150	10925
				† 12 x 53/64 x 17/64	00	84-23250	10896
				† 12 x 53/64 x 17/64	0	84-23300	10906



Narrow Pillar

Like all Pillar files this file is sometimes used for finishing work that has been started with a Hand file.

Size	Cut	Simonds Number	NIDA / SIDA Number	Size	Cut	Simonds Number	NIDA / SIDA Number
4 x 9/32 x 7/64	00	84-23900	10991	6 x 23/64 x 9/64	1	84-24350	11013
4 x 9/32 x 7/64	0	84-23950	11002	6 x 23/64 x 9/64	2	84-24400	11023
4 x 9/32 x 7/64	1	84-24000	11012	6 x 23/64 x 9/64	4	84-24500	11043
4 x 9/32 x 7/64	2	84-24050	11022	8 x 29/64 x 13/64	00	84-24600	10993
4 x 9/32 x 7/64	4	84-24150	11042	8 x 29/64 x 13/64	0	84-24602	11004
6 x 23/64 x 9/64	00	84-24250	10992	8 x 29/64 x 13/64	1	84-24700	11014
6 x 23/64 x 9/64	0	84-24300	11003	8 x 29/64 x 13/64	2	84-24750	11024
				8 x 29/64 x 13/64	4	84-24850	11044
				† 10 x 9/16 x 17/64	00	84-24900	10994
				† 10 x 9/16 x 17/64	0	84-24950	11005



Extra Narrow Pillar

Same use as Pillar files above. Narrow width gets in tighter places.

Size	Cut	Simonds Number	NIDA / SIDA Number	Size	Cut	Simonds Number	NIDA / SIDA Number
3 x 9/64 x 3/32	0	84-25350	11101	6 x 1/4 x 9/64	0	84-26050	11103
3 x 9/64 x 3/32	2	84-25450	11121	6 x 1/4 x 9/64	1	84-26100	11113
4 x 11/64 x 7/64	00	84-25650	11092	6 x 1/4 x 9/64	2	84-26150	11123
4 x 11/64 x 7/64	0	84-25700	11102	6 x 1/4 x 9/64	4	84-26250	11143
4 x 11/64 x 7/64	1	84-25750	11112	6 x 1/4 x 9/64	6	84-26300	11153
4 x 11/64 x 7/64	2	84-25800	11122	8 x 5/16 x 13/64	00	84-26350	11094
4 x 11/64 x 7/64	4	84-25900	11142	8 x 5/16 x 13/64	0	84-26400	11104
6 x 1/4 x 9/64	00	84-26000	11093	8 x 5/16 x 13/64	1	84-26450	11114
				8 x 5/16 x 13/64	2	84-26500	11124
				† 10 x 3/8 x 15/64	00	84-26650	11095
				† 10 x 3/8 x 15/64	2	84-26800	11125

† Packed 6 per box, all others 12 per box.

Simonds

Swiss Pattern Files [continued]



Pippin

Work best on rounded corners and holes. Sometimes called Applesseed files. Double cut.

Size	Cut	Simonds Number	NIDA/ SIDA Number	Size	Cut	Simonds Number	NIDA/ SIDA Number
4 x 9/32 x 1/8	0	84-42000	11621	6 x 13/32 x 5/32	00	84-42150	11612
4 x 9/32 x 1/8	2	84-42100	11631	6 x 13/32 x 5/32	0	84-42200	11622
				6 x 13/32 x 5/32	2	84-42300	11632
				† 8 x 1/2 x 7/32	00	84-42350	11613
				† 8 x 1/2 x 7/32	0	84-42400	11623
				† 8 x 1/2 x 7/32	2	84-42500	11633



Round Taper

For enlarging holes, rounding corners. Double cut.

Size	Cut	Simonds Number	NIDA/ SIDA Number	Size	Cut	Simonds Number	NIDA/ SIDA Number
3 x 3/32	0	84-14950	10711	6 x 3/16	00	84-15900	10614
3 x 3/32	2	84-15050	10731	6 x 3/16	0	84-15950	10714
3 x 3/32	4	84-15150	10751	6 x 3/16	1	84-16000	10724
4 x 1/8	00	84-15250	10612	6 x 3/16	2	84-16050	10734
4 x 1/8	0	84-15300	10712	6 x 3/16	4	84-16150	10754
4 x 1/8	1	84-15350	10722	6 x 3/16	6	84-16200	10763
4 x 1/8	2	84-15400	10732	8 x 1/4	00	84-16250	10615
4 x 1/8	4	84-15500	10752	8 x 1/4	0	84-16300	10715
5 x 5/32	00	84-15600	10613	8 x 1/4	1	84-16350	10725
5 x 5/32	0	84-15650	10713	8 x 1/4	2	84-16400	10735
5 x 5/32	2	84-15750	10733	8 x 1/4	4	84-16500	10755
5 x 5/32	4	84-15850	10753	8 x 1/4	00	84-16550	10616
				10 x 21/64	0	84-16600	10716
				10 x 21/64	2	84-16700	10736



Round Straight

Work in corners and holes. Double cut.

Size	Cut	Simonds Number	NIDA/ SIDA Number	Size	Cut	Simonds Number	NIDA/ SIDA Number
4 x 1/8	00	84-17400	10775	6 x 1/8	00	84-18100	10780
4 x 1/8	0	84-17450	10776	6 x 1/8	0	84-18150	10781
4 x 1/8	2	84-17500	10777	6 x 5/32	00	84-18300	10784
				6 x 5/32	0	84-18350	10785
				6 x 3/16	00	84-18500	10788
				6 x 3/16	0	84-18550	10789
				6 x 3/16	2	84-18600	10790
				8 x 1/4	2	84-19700	10792



Screw Head

Principally used for clearing and enlarging the heads of screws in watches and jewelry. Safe (uncut) on flat sides. Double cut on all four bevels and single cut on edges.

Size	Cut	Simonds Number	NIDA/ SIDA Number
3 x 7/16 x 1/32	6	84-77950	14482

† Packed 6 per box, all others 12 per box.

Simonds Swiss Pattern Files [continued]



Slitting

For use in corners, slots and acute angles. Double cut on all four sides and single cut on edges.

Size	Cut	Simonds Number	NIDA/SIDA Number
6 x 5/8	0	84-41850	11592
6 x 5/8	2	84-41900	11602



Square

Used in corners, holes. Double cut on three sides, fourth side safe (uncut).

Size	Cut	Simonds Number	NIDA/SIDA Number	Size	Cut	Simonds Number	NIDA/SIDA Number
4 x 7/64	00	84-20500	10802	6 x 5/32	00	84-20800	10803
4 x 7/64	0	84-20550	10812	6 x 5/32	0	84-20850	10813
4 x 7/64	2	84-20650	10832	6 x 5/32	2	84-20950	10833
				8 x 15/64	00	84-21100	10804
				8 x 15/64	0	84-21150	10814
				8 x 15/64	2	84-21250	10834
				10 x 21/64	00	84-21350	10805
				10 x 21/64	2	84-21500	10835



Three Square

Triangular section for use in corners and holes. Double cut on all three sides and single cut on edges.

Size	Cut	Simonds Number	NIDA/SIDA Number	Size	Cut	Simonds Number	NIDA/SIDA Number
4 x 1/4	00	84-35250	11331	6 x 11/32	00	84-35550	11332
4 x 1/4	0	84-35300	11342	6 x 11/32	0	84-35600	11343
4 x 1/4	1	84-35350	11351	6 x 11/32	1	84-35650	11352
4 x 1/4	2	84-35400	11362	6 x 11/32	2	84-35700	11363
4 x 1/4	4	84-35500	11382	6 x 11/32	4	84-35800	11383
				† 8 x 15/32	00	84-35850	11333
				† 8 x 15/32	0	84-35900	11344
				† 8 x 15/32	1	84-35950	11353
				† 8 x 15/32	2	84-36000	11364



Warding

For filing slots. Double cut on both flat sides and single cut on both edges.

Size	Cut	Simonds Number	NIDA/SIDA Number	Size	Cut	Simonds Number	NIDA/SIDA Number
4 x 7/16 x 3/64	00	84-28500	11182	8 x 25/32 x 3/32	00	84-29000	11184
4 x 7/16 x 3/64	0	84-28550	11192	8 x 25/32 x 3/32	0	84-29050	11194
4 x 7/16 x 3/64	2	84-28650	11202	8 x 25/32 x 3/32	2	84-29150	11204
4 x 7/16 x 3/64	4	84-28700	11212	4 x 7/16 x 20 ga.	0	84-30950	11225
6 x 19/32 x 5/64	00	84-28750	11183	6 x 19/32 x 13 ga.	0	84-31450	11226
6 x 19/32 x 5/64	0	84-28800	11193	6 x 19/32 x 14 ga.	0	84-31700	11227
6 x 19/32 x 5/64	2	84-28900	11203	6 x 19/32 x 14 ga.	2	84-31750	11228
6 x 19/32 x 5/64	4	84-28950	11213	6 x 19/32 x 16 ga.	0	84-31950	11229
				6 x 19/32 x 16 ga.	2	84-32050	11230

B&S Gauges: No. 13 — .072", No. 14 — .064", No. 16 — .051"
No. 20 — .032"

† Packed 6 per box, all others 12 per box.

Simonds Swiss Pattern Files [continued]

Needle Files

For die makers and other fine tool makers. Twelve different shapes each with long knurled handle for firm grip. For the comfort and protection of tool and die maker's hands, we now make available bonded Plastic Handles on all Swiss Pattern Needle Files.

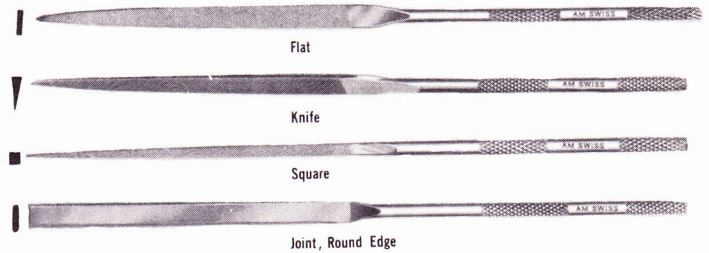
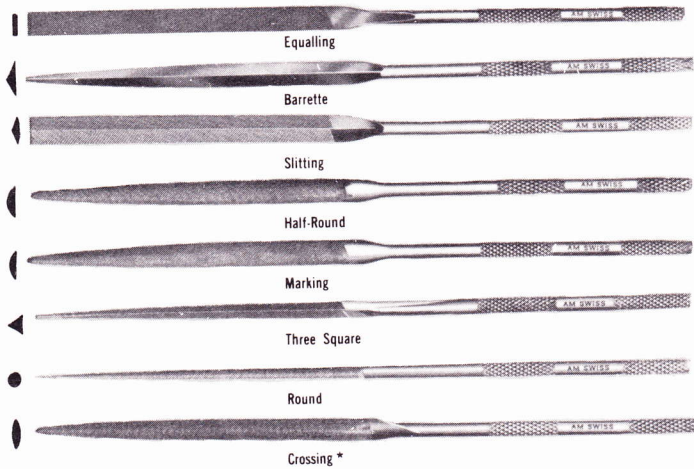
Detail filing with this new design handle is made easier and safer by eliminating cramped fingers and the possibility of scratches or cuts on filer's hands caused by slipping ... makes unnecessary the improvising of other make shift handles or tape. All are double cut.

Can be furnished in sets of twelve assorted shapes.



Needle Files Kits

Sets of 12 assorted files furnished in vinyl case with either knurled handles or plastic handles.



* In 4" length, Oval is furnished instead of Crossing.

Length	Cut	Knurled Handles Number	NIDA/SIDA	Plastic Handles Number	NIDA/SIDA
Equalling					
4	0	84-47900	12021	84-48055	12651
4	2	84-47950	12031	84-48060	12661
4	4	84-48000	12041		
4	6	84-48050	12051		
5-1/2	0	84-50550	12022	84-50705	12652
5-1/2	2	84-50600	12032	84-50710	12662
5-1/2	4	84-50650	12042		
5-1/2	6	84-50700	12052		
6-1/4	0	84-53450	12023	84-53605	12653
6-1/4	2	84-53500	12033	84-53610	12663
6-1/4	4	84-53550	12043		
6-1/4	6	84-53600	12053		

Length	Cut	Knurled Handles Number	NIDA/SIDA	Plastic Handles Number	NIDA/SIDA
Barrette					
4	0	84-48100	12071	84-48255	12691
4	2	84-48150	12081	84-48260	12701
4	4	84-48200	12091		
4	6	84-48250	12101		
5-1/2	0	84-50750	12072	84-50905	12692
5-1/2	2	84-50800	12082	84-50910	12702
5-1/2	4	84-50850	12092		
5-1/2	6	84-50900	12102		
6-1/4	0	84-53650	12073	84-53805	12693
6-1/4	2	84-53700	12083	84-53810	12703
6-1/4	4	84-53750	12093		
6-1/4	6	84-53800	12103		

Length	Cut	Knurled Handles Number	NIDA/SIDA	Plastic Handles Number	NIDA/SIDA
Slitting					
4	0	84-48900	12281	84-49055	12861
4	2	84-48950	12291	84-49060	12871
4	4	84-49000	12301		
4	6	84-49050	12311		
5-1/2	0	84-51600	12282	84-51755	12862
5-1/2	2	84-51650	12292	84-51760	12872
5-1/2	4	84-51700	12302		
5-1/2	6	84-51750	12312		
6-1/4	0	84-54500	12283	84-54655	12863
6-1/4	2	84-54550	12293	84-54660	12873
6-1/4	4	84-54600	12303		
6-1/4	6	84-54650	12313		

Length	Cut	Knurled Handles Number	NIDA/SIDA	Plastic Handles Number	NIDA/SIDA
Half-Round					
4	0	84-47100	11821	84-47255	12491
4	2	84-47150	11831	84-47260	12501
4	4	84-47200	11841		
4	6	84-47250	11851		
5-1/2	0	84-49700	11822	84-49855	12492
5-1/2	2	84-49750	11832	84-49860	12502
5-1/2	4	84-49800	11842		
5-1/2	6	84-49850	11852		
6-1/4	0	84-52600	11823	84-52755	12493
6-1/4	2	84-52650	11833	84-52760	12503
6-1/4	4	84-52700	11843		
6-1/4	6	84-52750	11853		

Packed 12 per box.

Simonds Swiss Pattern Files [continued]

		Knurled Handles		Plastic Handles				Knurled Handles		Plastic Handles	
Length	Cut	Number	NIDA/SIDA	Number	NIDA/SIDA	Length	Cut	Number	NIDA/SIDA	Number	NIDA/SIDA
Marking						Flat					
4	0	84-48700	12231	84-48855	12821	4	0	84-46900	11771	84-47055	12451
4	2	84-48750	12241	84-48860	12831	4	2	84-46950	11781	84-47060	12461
4	4	84-48800	12251			4	4	84-47000	11791		
4	6	84-48850	12261			4	6	84-47050	11801		
5-1/2	0	84-51400	12232	84-51551	12822	5-1/2	0	84-49500	11772	84-49655	12452
5-1/2	2	84-51450	12242	84-51552	12832	5-1/2	2	84-49550	11782	84-49660	12462
5-1/2	4	84-51500	12252			5-1/2	4	84-49600	11792		
5-1/2	6	84-51550	12262			5-1/2	6	84-49650	11802		
6-1/4	0	84-54300	12233	84-54455	12823	6-1/4	0	84-52400	11773	84-52555	12453
6-1/4	2	84-54350	12243	84-54460	12833	6-1/4	2	84-52450	11783	84-52560	12463
6-1/4	4	84-54400	12253			6-1/4	4	84-52500	11793		
6-1/4	6	84-54450	12263			6-1/4	6	84-52550	11803		

		Knurled Handles		Plastic Handles				Knurled Handles		Plastic Handles	
Length	Cut	Number	NIDA/SIDA	Number	NIDA/SIDA	Length	Cut	Number	NIDA/SIDA	Number	NIDA/SIDA
Three Square						Knife					
4	0	84-48300	12131	84-48455	12741	4	0	84-47700	11971	84-47855	12611
4	2	84-48350	12141	84-48460	12751	4	2	84-47750	11981	84-47860	12621
4	4	84-48400	12151			4	4	84-47800	11991		
4	6	84-48450	12161			4	6	84-47850	12001		
5-1/2	0	84-51000	12132	84-51155	12742	5-1/2	0	84-50350	11972	84-50505	12612
5-1/2	2	84-51050	12142	84-51160	12752	5-1/2	2	84-50400	11982	84-50510	12622
5-1/2	4	84-51100	12152			5-1/2	4	84-50450	11992		
5-1/2	6	84-51150	12162			5-1/2	6	84-50500	12002		
6-1/4	0	84-53850	12133	84-54005	12743	6-1/4	0	84-53250	11973	84-53405	12613
6-1/4	2	84-53900	12143	84-54010	12753	6-1/4	2	84-53300	11983	84-53410	12623
6-1/4	4	84-53950	12153			6-1/4	4	84-53350	11993		
6-1/4	6	84-54000	12163			6-1/4	6	84-53400	12003		

		Knurled Handles		Plastic Handles				Knurled Handles		Plastic Handles	
Length	Cut	Number	NIDA/SIDA	Number	NIDA/SIDA	Length	Cut	Number	NIDA/SIDA	Number	NIDA/SIDA
Round						Square					
4	0	84-47500	11921	84-47655	12571	4	0	84-47300	11871	84-47455	12531
4	2	84-47550	11931	84-47660	12581	4	2	84-47350	11881	84-47460	12541
4	4	84-47600	11941			4	4	84-47400	11891		
4	6	84-47650	11951			4	6	84-47450	11901		
5-1/2	0	84-50100	11922	84-50255	12572	5-1/2	0	84-49900	11872	84-50055	12532
5-1/2	2	84-50150	11932	84-50260	12582	5-1/2	2	84-49950	11882	84-50060	12542
5-1/2	4	84-50200	11942			5-1/2	4	84-50000	11892		
5-1/2	6	84-50250	11952			5-1/2	6	84-50050	11902		
6-1/4	0	84-53000	11923	84-53155	12573	6-1/4	0	84-52800	11873	84-52955	12533
6-1/4	2	84-53050	11933	84-53160	12583	6-1/4	2	84-52850	11883	84-52960	12543
6-1/4	4	84-53100	11943			6-1/4	4	84-52900	11893		
6-1/4	6	84-53150	11953			6-1/4	6	84-52950	11903		

		Knurled Handles		Plastic Handles				Knurled Handles		Plastic Handles	
Length	Cut	Number	NIDA/SIDA	Number	NIDA/SIDA	Length	Cut	Number	NIDA/SIDA	Number	NIDA/SIDA
Crossing						Joint, Round Edge					
4	0	84-49100	12321	84-49255	12901	4	0	84-48500	12181	84-48655	12781
4	2	84-49150	12331	84-49260	12911	4	2	84-48550	12191	84-48660	12791
4	4	84-49200	12341			4	4	84-48600	12201		
4	6	84-49250	12351			4	6	84-48650	12211		
5-1/2	0	84-52000	12371	84-52155	12902	5-1/2	0	84-51200	12182	84-51555	12782
5-1/2	2	84-52050	12381	84-52160	12912	5-1/2	2	84-51250	12192	84-51560	12792
5-1/2	4	84-52100	12391			5-1/2	4	84-51300	12202		
5-1/2	6	84-52150	12401			5-1/2	6	84-51350	12212		
6-1/4	0	84-54900	12372	84-55055	12903	6-1/4	0	84-54100	12183	84-54255	12783
6-1/4	2	84-54950	12382	84-55060	12913	6-1/4	2	84-54150	12193	84-54260	12793
6-1/4	4	84-55000	12392			6-1/4	4	84-54200	12203		
6-1/4	6	84-55050	12402			6-1/4	6	84-54250	12213		

Needle File Assortments, round knurled or plastic handles. [12 assort. shapes packed in vinyl kits]

4	0	84-49300	12411	84-49455	12941	5-1/2	4	84-52300	12432		
4	2	84-49350	12421	84-49460	12951	5-1/2	6	84-52350	12442		
4	4	84-49400	12431			6-1/4	0	84-55100	12413	84-55305	12943
4	6	84-49450	12441			6-1/4	2	84-55150	12423	84-55310	12953
5-1/2	0	84-52200	12412	84-52355	12942	6-1/4	4	84-55200	12433		
5-1/2	2	84-52250	12422	84-52360	12952	6-1/4	6	84-55250	12443		

Simonds Swiss Pattern Files [continued]

Die Sinkers' 3 1/2 inch

Used to dress and finish dies of all kinds, or wherever small files are required. Can be furnished in sets of 12 assorted shapes.



Shape	Size	Cut	Simonds Number	NIDA/ SIDA Number	Shape	Size	Cut	Simonds Number	NIDA/ SIDA Number	Shape	Size	Cut	Simonds Number	NIDA/ SIDA Number
Round					Flat [1 safe edge]					Half-Round				
●	1/8	0	84-58900	13181	▬	3/16 x 5/64	0	84-58300	13141	◐	1/4 x 3/32	0	84-58600	13161
	1/8	2	84-59000	13182	▬	3/16 x 5/64	2	84-58400	13142	◐	1/4 x 3/32	2	84-58700	13162
Oval [1 sharp edge]					Auriform					Crochet				
◐	7/32 x 7/64	0	84-59550	13221	◑	7/32 x 7/64	0	84-59700	13231	◑	3/16 x 5/64	0	84-58450	13151
	7/32 x 7/64	2	84-59650	13222	◑	7/32 x 7/64	2	84-59800	13232	◑	3/16 x 5/64	2	84-58550	13152
Three Square					Square					Lozenge				
▲	13/64	0	84-59200	13201	■	1/8	0	84-58750	13171	◆	13/64 x 1/8	0	84-59850	13241
	13/64	2	84-59300	13202	■	1/8	2	84-58850	13172	◆	13/64 x 1/8	2	84-59900	13242
Oval					Flat					Assortment; 1 ea. shape				
◐	7/32 x 7/64	0	84-59350	13211	▬	15/64 x 5/64	0	84-58150	13131			0	84-59950	13251
	7/32 x 7/64	2	84-59450	13212	▬	15/64 x 5/64	2	84-58250	13132			2	84-60050	13252
Knife														
◄	9/32 x 5/64 x 1/64	0	84-59050	13191										
	9/32 x 5/64 x 1/64	2	84-59150	13192										

Bench Filing Machine 3 1/4 inch overall

Double cut, designed to cut on downward stroke, for use in machines for filing dies and patterns. These files all have round shanks and measure 3-1/4" over-all. Made with 1/4" shank.



Shape	Size	Cut	Simonds Number	NIDA/ SIDA Number	Shape	Size	Cut	Simonds Number	NIDA/ SIDA Number	Shape	Size	Cut	Simonds Number	NIDA/ SIDA Number
Pillar [2 safe edges]					Knife					Half-Round				
▬	7/32 x 1/8	00	84-71900	14111	◄	1/4 x 1/8	00	84-70850	14021	◐	1/4 x 11/64	00	84-70400	13981
Equalling [cut sides/edges]					Round					Square				
▬	7/32 x 1/8	00	84-72050	14121	●	1/4	00	84-70700	14011	■	3/16	00	84-70550	13992
Three Square														
▲	7/32	00	84-71000	14032										

8" Overall Parallel Machine

Designed to cut on the downward stroke, these files have 2" shanks that are the same size and shape as the body of the file.

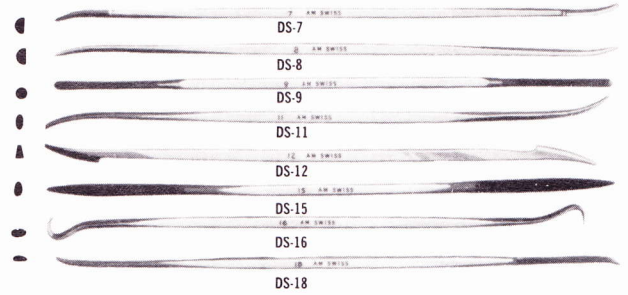
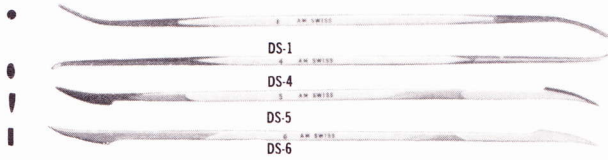


Shape	Size	Cut	Simonds Number	NIDA/ SIDA Number	Shape	Size	Cut	Number	NIDA/ SIDA Number	Shape	Size	Cut	Simonds Number	NIDA/ SIDA Number
Round					Knife					Crochet				
●	1/8	00	84-63800	13481	◄	15/32 x 1/8	00	84-64850	13551	◑	3/16 x 3/32	00	84-66050	13621
	3/16	00	84-63950	13491						Three Square				
	1/4	00	84-64100	13501	Equalling [cut sides & edges]					▲	3/16	00	84-65000	13561
Square					▬	3/8 x 5/64	00	84-65900	13611		1/4	00	84-65150	13571
■	3/16	00	84-63050	13441	Pillar [1 safe edge]						3/8	00	84-65350	13581
	1/4	00	84-63200	13451	▬	3/16 x 3/32	00	84-67250	13691	Half-Round				
	3/8	00	84-63350	13461		1/4 x 1/8	00	84-67400	13701	◐	3/16 x 3/32	00	84-62100	13401
	1/2	00	84-63500	13471		3/8 x 3/16	00	84-67550	13711		1/4 x 1/8	00	84-62250	13411
Cant [cut 3 sides]						1/2 x 1/4	00	84-67700	13721		3/8 x 3/16	00	84-62400	13421
◄	11/32 x 5/32	00	84-67100	13681							1/2 x 1/4	00	84-62600	13431

Simonds Swiss Pattern Files [continued]

Die Sinkers' Rifflers

For die-sinkers, jewelers and instrument manufacturers. Long straight, safe (uncut) middle portion for handhold. Cut ends in 12 different shapes and sections. Slender stock and narrow ends. Always order these rifflers by the number designations given. Can be furnished in assorted sets of 12.



Shape	Length	Cut	Simonds Number	NIDA / SIDA Number
DS-1	6-1/2	0	84-72350	14141
	6-1/2	2	84-72400	14142
DS-4	6-1/2	0	84-72800	14171
	6-1/2	2	84-72850	14172
DS-5	6-1/2	0	84-72950	14181
	6-1/2	2	84-73000	14182
DS-6	6-1/2	0	84-73100	14191
	6-1/2	2	84-73150	14192
DS-7	6-1/2	0	84-73250	14201
	6-1/2	2	84-73300	14202
DS-8	6-1/2	0	84-73400	14211
	6-1/2	2	84-73450	14212

Shape	Length	Cut	Simonds Number	NIDA / SIDA Number
DS-9	6-1/2	0	84-73550	14221
	6-1/2	2	84-73600	14222
DS-11	6-1/2	0	84-73850	14241
	6-1/2	2	84-73900	14242
DS-12	6-1/2	0	84-74000	14251
	6-1/2	2	84-74050	14252
DS-15	6-1/2	0	84-74450	14281
	6-1/2	2	84-74500	14282
DS-16	6-1/2	0	84-74600	14291
	6-1/2	2	84-74650	14292
DS-18	6-1/2	0	84-74900	14311
	6-1/2	2	84-74950	14312

Assortment; 1 each shape				
	6-1/2	0	84-75050	14321
	6-1/2	2	84-75100	14322

Silversmiths' Rifflers

Used principally by silversmiths in making glass moulding dies. Longer sections and wider ends than die-sinkers rifflers. Safe (uncut) middle portion for handhold. Cut ends in 12 different shapes and sections. Can be furnished in assorted sets of 12.



Shape	Length	Cut	Simonds Number	NIDA / SIDA Number
SS-1	7-1/2	0	84-75200	14351
	7-1/2	2	84-75250	14352
SS-2	7-1/2	0	84-75300	14361
	7-1/2	2	84-75350	14362
SS-3	7-1/2	0	84-75400	14371
	7-1/2	2	84-75450	14372
SS-4	7-1/2	0	84-75500	14381
	7-1/2	2	84-75550	14382
SS-5	7-1/2	0	84-75600	14391
	7-1/2	2	84-75650	14392
SS-6	7-1/2	0	84-75700	14401
	7-1/2	2	84-75750	14402

Shape	Length	Cut	Simonds Number	NIDA / SIDA Number
SS-7	7-1/2	0	84-75800	14411
	7-1/2	2	84-75850	14412
SS-8	7-1/2	0	84-75900	14421
	7-1/2	2	84-75950	14422
SS-9	7-1/2	0	84-76000	14431
	7-1/2	2	84-76050	14432
SS-10	7-1/2	0	84-76100	14441
	7-1/2	2	84-76150	14442
SS-11	7-1/2	0	84-76200	14451
	7-1/2	2	84-76250	14452
SS-12	7-1/2	0	84-76300	14461
	7-1/2	2	84-76350	14462

Assortment; one each shape				
	7-1/2	0	84-76400	14471
	7-1/2	2	84-76450	14472

Packed 12 per box.

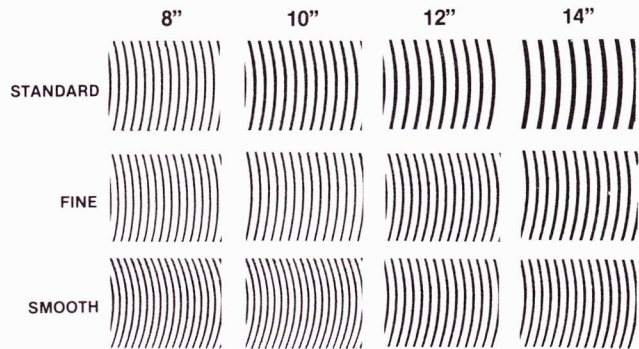
Simonds Vixen®

Milled Curved-Tooth Files

The Vixen file stands as the greatest basic improvement ever made in metal finishing files. Universally recognized as the most useful, efficient file ever designed for automobile body repair and manufacture, it has also won high regard in garages, pattern shops, machine shops, foundries, airplane factories, railroad yards and shipyards.

Each curved tooth is actually a miniature milling cutter. The definite undercut or rake enables the tooth to take a deep bite out of the work for faster cutting and longer file life. The Vixen tooth design clears itself readily of chips, particularly on soft, non-ferrous metals and results in a smooth, scratchless finish. The table and chart below indicate the cuts available on Simonds Vixen Files.

Vixen® File Cuts



TEETH PER INCH

FLAT, FLEXIBLE, HALF ROUND SOLID,
HALF ROUND SHELLS BABBITT

Size	Babbitt	Std.	Fine	Smooth
8 inch	10	14	16	18
10 inch	10	12	14	18
12 inch	8	10	14	16
14 inch	7	8	12	15

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Milled Curved-Tooth Files [Rigid Tanged Types]



Flat

Flat Vixens are used on all types of work where fast filing is required. Recommended for steel, aluminum, brass, copper, marble, slate, fibre, plastics, and hard rubber.

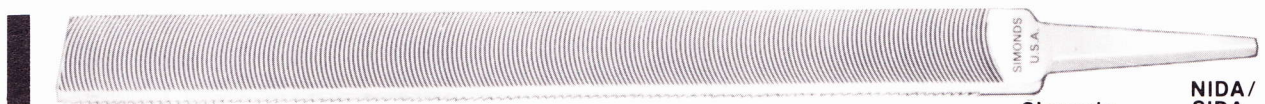
Size	Cut	Simonds Number	NIDA/SIDA Number
8 x 13/16 x 11/64	STD	81-12550	18941
8 x 13/16 x 11/64	S	81-12650	18961
10 x 1 x 7/32	STD	81-12700	18942
10 x 1 x 7/32	S	81-12800	18962
† 12 x 1-5/32 x 17/64	STD	81-12850	18943
† 12 x 1-5/32 x 17/64	S	81-12950	18963
† 14 x 1-11/32 x 5/16	STD	81-13000	18944



Babbitt

Babbitt files are made in the flat shape only, for filing lead, babbitt, brass, or copper. The teeth of Vixen Babbitt files are coarser than those of the standard cut files.

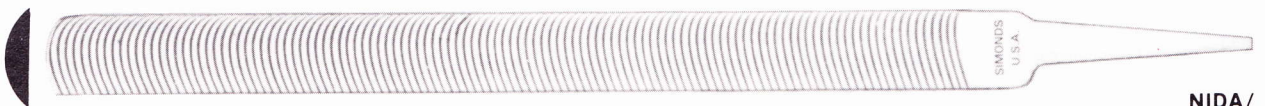
Size	Babbitt Cut	Simonds Number	NIDA/SIDA Number
8 x 13/16 x 11/64	—	81-13250	18981
10 x 1 x 7/32	—	81-13300	18982
† 12 x 1-5/32 x 17/64	—	81-13350	18983
† 14 x 1-11/32 x 5/16	—	81-13400	18984



Flat Utility

This is a file for every mechanic's kit and for every household handy-man. It is extremely versatile, having standard cut on one side and smooth cut on the other.

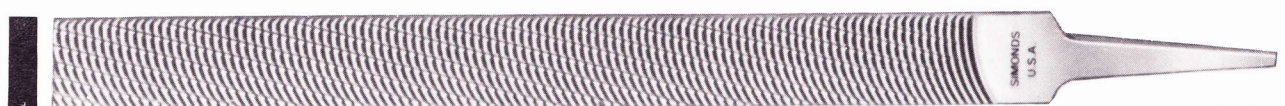
Size	Comb. Cut	Simonds Number	NIDA/SIDA Number
8 x 13/16 x 11/64	STD-S	81-13450	18991
10 x 1 x 7/32	STD-S	81-13500	18992
† 12 x 1-5/32 x 17/64	STD-S	81-13550	18993
† 14 x 1-11/32 x 5/16	STD-S	81-13600	18994



Half Round

The shape of the Half Round Vixen makes it a useful, versatile file.

Size	Cut	Simonds Number	NIDA/SIDA Number
8 x 23/32 x 1/4	STD	81-14650	19041
10 x 15/16 x 5/16	STD	81-14750	19042
10 x 15/16 x 5/16	F	81-14800	19052
† 12 x 1-1/8 x 3/8	STD	81-14850	19043
† 14 x 1-9/32 x 27/64	STD	81-14950	19044
† 14 x 1-9/32 x 27/64	F	81-15000	19054



Whizcut

The long chip-breaking grooves eliminate clogging and result in an especially smooth finish without chattering or skidding. The off-center milled curved-teeth give a faster and easier shearing action. Made in flat shape only.

Size	Cut	Simonds Number	NIDA/SIDA Number
8 x 13/16 x 11/64	STD	81-13650	19001
10 x 1 x 7/32	STD	81-13800	19002
† 12 x 1-5/32 x 17/64	STD	81-13950	19003
† 14 x 1-11/32 x 5/16	STD	81-14100	19004

Milled Curved-Tooth Files [Plain Blade Types]



Vixen® Flexible

Flexible files should be used with a file holder. Flexible files are particularly adapted to all types of auto body and sheet metal work. They have teeth on both sides, and can be adjusted in a file holder to file flat, outward (convex), or inward (concave). Use with Flat Holder No. 416, Adjustable Aluminum Holder No. 472, or Wooden Holder No. V-1.

Vixen Flexible file, standard cut, 14" size, is furnished in 6-tooth, 7-tooth, 8-tooth and 9-tooth per inch. Unless otherwise specified, the 8-tooth per inch will be furnished.

Size	Cut	Simonds Number	NIDA/SIDA Number
8 x 25/32 x 5/32	STD	81-11000	18841
10 x 1 x 5/32	STD	81-11150	18842
† 12 x 1-5/32 x 3/16	STD	81-11250	18843
† 14 x 1-11/32 x 3/16	6 Tooth	81-11390	18831
† 14 x 1-11/32 x 3/16	7 Tooth	81-11400	18832
† 14 x 1-11/32 x 3/16	8 Tooth	81-11450	18844
† 14 x 1-11/32 x 3/16	9 Tooth	81-11500	18846
† 14 x 1-11/32 x 3/16	F	81-11550	18854
† 14 x 1-11/32 x 3/16	S	81-11600	18864



Vixen® Half Round Shell

Half Round Shell files are designed for use on concave surfaces. They have teeth on the convex side only. Use wooden holder No. V-2.

Regularly furnished in 8-tooth. 6-tooth is available for plastic body filler by specifying on order.

Size	Cut	Simonds Number	NIDA/SIDA Number
† 14 x 1-15/32 x 1/8	8 Tooth	81-12200	18904
† 14 x 1-15/32 x 1/8	6 Tooth	81-12255	18921

"See-Thru" Plastic Envelope**

These razor-sharp VIXEN teeth deserve this extra care! Clear front makes identification easy. Plastic sheath provides a convenient, hang-up, storage compartment for the file during its long life.



** Additional protection on 14" Flexible and 14" Half Round Shell Files

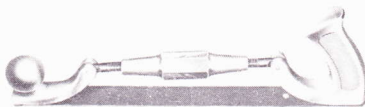
Vixen® File Holders



V1 [wood]
Simonds Number 81-9930
NIDA/SIDA Number 19122



V2 [wood]
Simonds Number 81-99305
NIDA/SIDA Number 19123



472 [adj.]
Simonds Number 81-99370
NIDA/SIDA 19121



416 [metal]
Simonds Number 81-99350
NIDA/SIDA Number 19120

STD = Standard F = Fine S = Smooth

† Packed 6 per box, all others 12 per box.

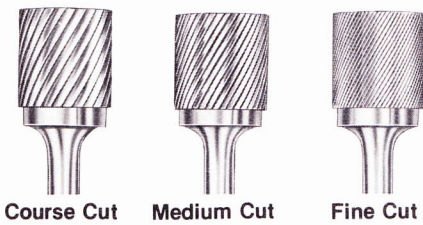
High Speed Steel Rotary Files

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Simonds High Speed Steel rotary files are designed to be power driven and are widely used in tool and die shops, pattern shops, aircraft and automotive plants, machine shops, and foundries. They are ideal for removing burrs and fins, elongating holes and slots, finishing small and intricate parts, and smoothing rough and hard-to-get-at surfaces. All rotary files are manufactured with 1/4 in. diameter shanks (unless otherwise noted) for use in drill presses, lathes, and electric or air-operated hand tools and flexible shaft equipment.

Number of Teeth Per Circumference; Ground-From-Solid Rotary Files



File Dia, in.	Cut/No. of Teeth		
	C	M	F
1/8	8	10	15
3/16	9	12	20
1/4	10	15	20
5/16	12	18	25
3/8	12	20	30
1/2	15	25	35
5/8	18	25	40
3/4	18	25	40
7/8	20	30	50
1	25	30	55
1-1/8	25	30	55

File Types

Hand Cut - The teeth of hand cut files are irregular and work best on hard and dense metals. This type file is recommended for use on die steel, cast iron, welds, and forgings. Hand cut rotary files cannot be resharpened but may be converted to ground-from-solid types.

Ground-From-Solid - Precision ground after hardening, this type file has less tendency to clog. It is, therefore, more efficient for aluminum, brass, bronze, magnesium, and soft steel as well as plastics. These files can be resharpened by grinding.

Cuts

Choice of cut or fluting depends on the material to be worked, finish required, and type of equipment used. The Medium Cut is most commonly used for general-purpose work on ferrous metals. The Coarse Cut is recommended for soft materials. Catalog numbers are listed in the table for Coarse, Medium and Fine cuts, as shown.

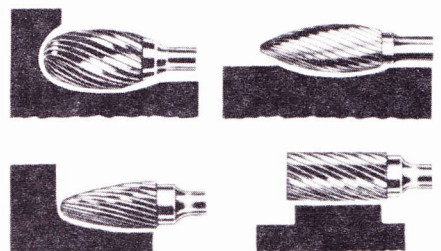
Speeds

These operating speeds are recommended for High Speed Steel rotary files, Medium Cut:

File Diameter, in./File Speed, rpm

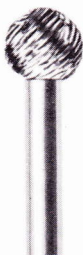











Material	1/8	1/4	3/8	1/2	5/8	3/4	1
Steel	4000	2500	2000	1500	1350	1200	800
Cast Iron	6000	3400	2250	1750	1450	1250	1000
Aluminum	15,000	10,000	8000	6000	5000	4000	2500
Brass							
Bronze							
Magnesium	8000	7000	6500	6000	5000	4500	4000

Typical Applications



Simonds High Speed Steel Rotary Files [continued]



All items made with 1/4" diameter shanks — Order by Number.



	Hand Cut	Ground-From-Solid	Hand Cut			Ground From Solid												
			Size A	Size B	C	Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number							
Ball Shape																		
			1/8			-	-	-	HG12C	88-25500	16931							
			1/8			H12M	88-11750	15813	HG12M	88-25600	16932							
			3/16			H13M	88-11900	15823	HG13M	88-25750	16943							
			1/4			H14C	88-11950	15831	HG14C	88-25800	16951							
			1/4			H14M	88-12050	15833	HG14M	88-25900	16953							
			5/16			H88M	88-22450	16483	HG88M	88-37450	17603							
			3/8			H15C	88-12100	15841	-	-	-							
			3/8			H15M	88-12200	15843	HG15M	88-26050	16963							
			1/2			H16C	88-12250	15851	HG16C	88-26100	16971							
			1/2			H16F	88-12300	15852	HG16F	88-26150	16972							
			1/2			H16M	88-12350	15853	HG16M	88-26200	16973							
			5/8			H17C	88-12400	15861	HG17C	88-26250	16981							
			5/8			-	-	-	HG17M	88-26350	16983							
			5/8			H17M	88-12500	15863	HG17F	88-26300	16982							
			3/4			H18C	88-12550	15871	HG18C	88-26400	16991							
			3/4			-	-	-	HG18F	88-26450	16992							
		3/4			H18M	88-12650	15873	HG18M	88-26500	16993								
		1			H19M	88-12850	15884	HG19M	88-26650	17003								
Barrel Shape																		
			1/2	1		H89M	88-22600	16493	HG89M	88-37600	17613							
Bi-shape																		
			1/4	1		H10M	88-11450	15793	HG10M	88-25300	16913							
			5/16	1-1/8		H11C	88-11500	15801	-	-	-							
			-	-	-	H11M	88-11600	15803	HG11M	88-25450	16923							
Concave Shape																		
			3/4	1/2		H75M	88-22150	16463	HG75M	88-37150	17583							
Cone Shape [60° and 90°]																		
			1/2		90	H20M	88-13000	15893	HG20M	88-26800	17013							
			5/8		90	H21C	88-13050	15901	-	-	-							
						H21M	88-13150	15903	HG21M	88-26950	17023							
			3/4		90	H22M	88-13300	15913	HG22M	88-27100	17033							
			1		90	H23M	88-13450	15941	HG23M	88-27250	17061							
			1/2		60	H24M	88-14200	15953	HG24M	88-28000	17073							
			5/8		60	H25M	88-14350	15963	HG25M	88-28150	17083							
			3/4		60	H26M	88-14500	15973	HG26M	88-28300	17093							
	Cone Shape [Inverted]																	
			3/4	5/8	34	H74M	88-22000	16453	HG74M	88-36850	17573							
		1/2	3/4	18	H96M	88-23650	16664	HG96M	88-39050	17683								



Dimensions: A = Diameter B = Length of Cut C = Degree of Taper H = Hand Cut HG - Ground from Solid Cuts: C = Coarse
F = Fine M = Medium Available only as listed. Packed 1 per box



Simonds High Speed Steel Rotary Files [continued]

All items made with 1/4" diameter shanks — Order by Number.

Cone Shape [Other]	Hand Cut	Ground-From-Solid	Hand Cut			Ground From Solid					
			A	Size B	C	Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number
			1	1-3/8	36°	H27M	88-14650	15983	HG27M	88-28450	17103
			1/4	1/2	24°	H41M	88-16800	16123	HG41M	88-30550	17243
			1/4	3/4	16°	H42M	88-16950	16133	HG42M	88-30700	17253
			1/4	1	12°	-	-	-	HG43C	88-30750	17261
						-	-	-	HG43F	88-30800	17262
						H43M	88-17100	16143	HG43M	88-30850	17263
			5/16	3/4	23°	H44M	88-17250	16153	HG44M	88-31000	17273
			5/16	1	16°	H45M	88-17400	16163	HG45M	88-31150	17283
			1/4	1-1/8	11°	H46M	88-17550	16173	HG46M	88-31300	17293
			3/8	5/8	32°	H47M	88-17700	16183	HG47M	88-31450	17303
			1/2	7/8	30°	H48M	88-17850	16193	HG48M	88-31600	17313
			5/8	13/16	36°	H49M	88-18000	16203	HG49M	88-31750	17323

Cylindrical [Ball Nose]	Hand Cut	Ground-From-Solid	Hand Cut			Ground From Solid					
			A	Size B	C	Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number
			1/8	1/2	-	-	-	-	HG59F	88-34550	17422
						H59M	88-19650	16303	HG59M	88-34600	17423
			1/4	1	-	H60C	88-19700	16312	HG60C	88-34650	17431
						H60M	88-19800	16314	HG60M	88-34750	17433
			1/4	1-1/2	-	H61C	88-19900	16322	-	-	-
						H61F	88-19950	16323	-	-	-
						H61M	88-20000	16324	HG61M	88-34900	17443
			3/8	1	-	-	-	-	HG62C	88-34950	17451
						-	-	-	HG62F	88-35000	17452
						H62M	88-20150	16333	HG62M	88-35050	17453
			3/8	1-1/2	-	H63M	88-20300	16343	HG63M	88-35200	17463
			1/2	1	-	H64C	88-20350	16351	HG64C	88-35250	17471
						-	-	-	HG64F	88-35300	17472
						H64M	88-20450	16353	HG64M	88-35350	17473
			5/8	1	-	H65C	88-20500	16361	HG65C	88-35400	17482
						H65M	88-20600	16363	HG65M	88-35500	17484
			3/4	1-1/4	-	H66M	88-20750	16373	HG66M	88-35650	17495
			5/16	1-1/2	-	H67M	88-20900	16383	-	-	-
			1/2	1-1/2	-	H68M	88-21050	16393	HG68M	88-35950	17513



Cylindrical Flat Cut End [Ground Only]	Hand Cut	Ground-From-Solid	Hand Cut			Ground From Solid					
			A	Size B	C	Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number
			3/8	1	-	-	-	-	HG53C-EC	88-32950	17366
						-	-	-	HG53M-EC	88-32850	17364
			1/2	1	-	-	-	-	HG54C-EC	88-33250	17376
						-	-	-	HG54M-EC	88-33150	17374
			3/4	3/4	-	-	-	-	HG55C-EC	88-33550	17386
						-	-	-	HG55M-EC	88-33450	17384



Cylindrical [Double Taper]	Hand Cut	Ground-From-Solid	Hand Cut			Ground From Solid					
			A	Size B	C	Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number
			1-1/8	3/8	-	H73C	88-21750	16442	-	-	-
						H73M	88-21850	16444	HG73M	88-36700	17563



Dimensions: A = Diameter B = Length of Cut C = Degree of Taper H = Hand Cut HG - Ground from Solid Cuts: C = Coarse F = Fine M = Medium Available only as listed. Packed 1 per box



Simonds High Speed Steel Rotary Files [continued]

All items made with 1/4" diameter shanks — Order by Number.

	Hand Cut	Ground-From-Solid	Hand Cut			Ground From Solid						
			A	Size B	C	Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number	
Cylindrical [Flat End] * (Not end cut)			1/8	1/2		H50C*	88-18050	16212	HG50C	88-31800	17331	
						H50M*	88-18100	16213	HG50M	88-31900	17333	
				1/4	1		H51C	88-18300	16222	HG51C	88-32100	17341
							H51F	88-18350	16223	HG51F	88-32150	17342
							H51M	88-18400	16224	HG51M	88-32200	17343
				1/4	1-1/2		H52C	88-18450	16231	-	-	-
							H52M	88-18550	16233	HG52M	88-32500	17353
				3/8	1		H53C	88-18600	16241	HG53C	88-32700	17361
							H53F	88-18650	16242	HG53F	88-32750	17362
							H53M	88-18700	16243	HG53M	88-32800	17363
				1/2	1		H54C	88-18800	16253	HG54C	88-33000	17371
							H54F	88-18850	16254	HG54F	88-33050	17372
							H54M	88-18900	16255	HG54M	88-33100	17373
				3/4	3/4		H55C	88-18950	16261	HG55C	88-33300	17381
							H55M	88-19050	16263	HG55M	88-33400	17383
				5/16	1-1/2		H56M	88-19200	16273	-	-	-
				3/8	1-1/2		H57C	88-19250	16281	-	-	-
							H57M	88-19350	16283	HG57M	88-34000	17403
				1/2	1-1/2		H58C	88-19400	16292	-	-	-
							H58M	88-19500	16295	HG58M	88-34300	17413
						-	-	-	HG93C	88-38100	17651	
			5/8	1		H93M	88-23200	16533	HG93M	88-38200	17653	
						-	-	-	HG95C	88-38650	17671	
			1	1		-	-	-	HG95F	88-38700	17672	
						H95M	88-23500	16554	HG95M	88-38750	17673	



Flame Shape			Size		Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number
			A	B						
			5/8	7/8	H1M	88-10100	15703	HG1M	88-23950	16823
			5/8	1-7/16	H2M	88-10250	15713	HG2M	88-24100	16833
			3/4	1-3/4	H3M	88-10400	15723	HG3M	88-24250	16843



Oval Shape			Size		Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number
			A	B						
			1/4	1/2	H35M	88-15900	16064	HG35M	88-29650	17183
			3/8	5/8	H87M	88-22300	16473	HG87M	88-37300	17191
			7/16	21/32	-	-	-	HG36F	88-29750	17192
					H36M	88-16050	16073	-	-	-
			1/2	7/8	H37M	88-16200	16083	HG37M	88-29950	17203
			5/8	1	H38C	88-16250	16091	-	-	-
					H38M	88-16350	16093	HG38M	88-30100	17213
			3/4	1-1/8	H39M	88-16500	16103	HG39M	88-30250	17223
			1	1-3/8	H40M	88-16650	16113	HG40M	88-30400	17233

Tapered [Radius End]			Size		Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number
			A	B						
			5/16	5/8	H69M	88-21200	16403	HG69M	88-36100	17523
			5/16	1-1/4	H70M	88-21350	16413	HG70M	88-36250	17533
			3/8	1-3/4	H71M	88-21500	16423	HG71M	88-36400	17543
			5/8	1	-	-	-	HG72M	88-36550	17553

Dimensions: A = Diameter B = Length of Cut H = Hand Cut HG - Ground from Solid Cuts: C # Coarse F = Fine M = Medium Available only as listed.

Packed 1 per box

Tree Shape [Pointed End]	Ground-From-Solid		Hand Cut			Ground From Solid			
	Hand Cut	From-Solid	Size A B	Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number
			1/4 3/4	H4M	88-10550	15733	HG4M	88-24400	16853
			3/8 3/4	H5M	88-10700	15743	HG5M	88-24550	16863
			1/2 3/4	H6M	88-10850	15753	HG6M	88-24700	16873
			1/2 1-1/8	H7M	88-11000	15763	HG7M	88-24850	16883
			5/8 1	H8M	88-11150	15773	HG8M	88-25000	16893

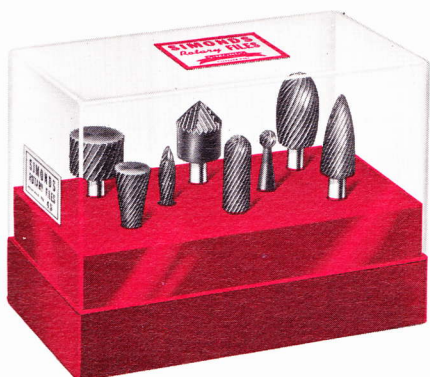
Tree Shape [Radius End]	Ground-From-Solid		Hand Cut			Ground From Solid			
	Hand Cut	From-Solid	Size A B	Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number
			1/4 3/4	-	-	-	HG28C	88-28500	17111
			1/4 1-1/2	H28M	88-14800	15993	HG28M	88-28600	17113
			3/8 3/4	H29M	88-14950	16003	HG29M	88-28750	17123
			1/2 1-1/8	H30M	88-15100	16013	HG30M	88-28900	17133
			1/2 1-1/4	H31C	88-15150	16021	-	-	-
			3/4 1-1/4	H31M	88-15250	16023	HG31M	88-29050	17143
			1-1/8 2	H32M	88-15400	16033	HG32M	88-29200	17153
				H33M	88-15550	16043	HG33M	88-29350	17163

Miniature Rotary Files

All have 1/8" Diameter Shanks
[Illustrations Show Ground-From-Solid Type]

		Hand Cut			Ground From Solid			
		Item	Simonds Number	NIDA/SIDA Number	Item	Simonds Number	NIDA/SIDA Number	
MG-1 MH-1 1/8" x 9/16"	MG-4 MH-4 1/4" x 1/2"	MH-7 5/16" x 1/2"	MG-10 MH-10 3/8" x 3/8"	MG-18 MH-18 1/4" x 1/2"	MH-1 88-39450	17812	MG-1 88-41650	18051
					MH-2 88-39550	17821	MG-3 88-41850	18072
					MH-3 88-39650	17831	MG-4 88-41900	18081
					MH-4 88-39750	17841	MG-5 88-41950	18092
					MH-5 88-39850	17851	MG-6 88-42000	18101
					MH-7 88-40000	17871	MG-8 88-42100	18121
					MH-8 88-40100	17882	MG-9 88-42200	18132
					MH-10 88-40350	17902	MG-10 88-42250	18141
					MH-11 88-40450	17911	MG-11 88-42300	18151
					MH-13 88-40650	17932	MG-13 88-42500	18172
					MH-14 88-40700	17941	MG-14 88-42600	18182
					MH-18 88-40950	17981	MG-18 88-42800	18222
					MH-19 88-41050	17991	MG-19 88-42900	18232
					MH-20 88-41100	18001	MG-20 88-43000	18241
					MH-21 88-41200	18012	MG-21 88-43100	18252
					MH-22 88-41300	18021	MG-22 88-43200	18262
					MH-24 88-41500	18041	MG-24 88-43300	18281

Rotary File Sets



Hand Cut
Asst. No. 25
Simonds No. 88-45250
NIDA/SIDA No. 18301
1 each
H 7 M H 38 M
H 10 M H 55 M
H 14 M H 62 M
H 21 M H 96 M

Hand Cut
Asst. No. 35
Simonds No. 88-45350
NIDA/SIDA No. 18302
1 each
H 7 M H 38 M
H 14 M H 55 M
H 21 M H 62 M

Ground From Solid
Asst. No. 45
Simonds No. 88-45400
NIDA/SIDA No. 18303
1 each
HG 7 M HG 38 M
HG 10 M HG 55 M
HG 14 M HG 62 M
HG 21 M HG 74 M

Miniature Ground From Solid
Asst. No. 75
Simonds No. 88-45600
NIDA/SIDA No. 18307
1 each
MG 3 MG 14
MG 4 MG 18
MG 5 MG 19
MG 6 MG 20
MG 10 MG 21



SIMONDS

WallaceMurray