

# NICHOLSON

## AND X. F. SWISS PATTERN FILES

CATALOG NUMBER N-14

MACHINERY & MILL SUPPLIES

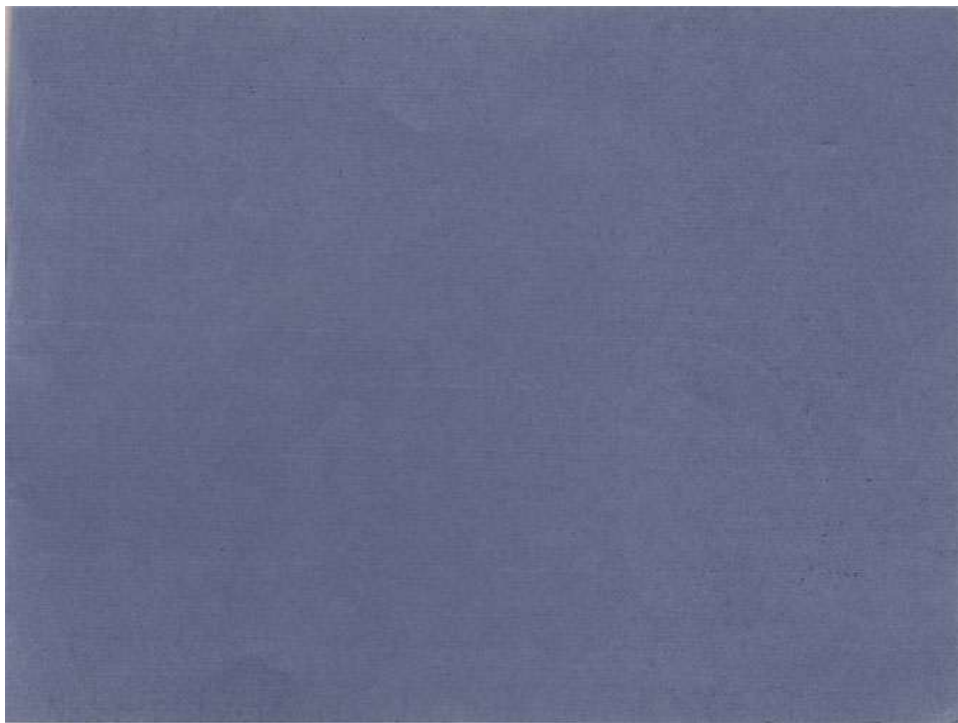
**CUTTER WOOD  
& SANDERSON CO.**

222 THIRD ST., CAMBRIDGE 42, MASS.

NICHOLSON  
U.S.A.  
TRADE MARK

NICHOLSON FILE COMPANY  
PROVIDENCE 1, RHODE ISLAND, U. S. A.

NICHOLSON  
TRADE  
EXTRA-FINE  
TRADE  
SWISS PATTERN FILES



# NICHOLSON FILE COMPANY

PROVIDENCE 1, RHODE ISLAND, U. S. A.

## FILES • RASPS

### 1956



CABLE ADDRESS: Nicholson Providence

CODES USED: Nicholson (order code) and all standard codes

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## HISTORICAL SKETCH

THE main plant and general executive offices of the Nicholson File Company are located a short distance from the center of the city of Providence. They are of thoroughly modern construction, well lighted and ventilated, and designed especially for the manufacture of files. They are equipped with special machines and appliances, the principles of which were conceived by Mr. William T. Nicholson, the founder of the Nicholson File Company and the successful developer of the machine-file-making industry.

Mr. Nicholson's early business experience was in the machine tool business, where he developed the idea of constructing a file cutting machine. As he progressed with his new idea he became greatly enthused over the possibilities of such a machine and in order to be thoroughly informed regarding the file industry went to Europe which at that time supplied most of the files used in America. There he studied not only the manufacture and use of files but also such kindred industries as the manufacture and heat treatment of steel, and he returned only when he felt sufficiently informed on the subject to establish his own file factory.

In 1864 the Nicholson File Company was incorporated and its first plant erected immediately at Providence. It was hoped at the time that a daily production of 300 dozen files might be reached, but business was not easily obtained. Several similar enterprises were attempting to

cut files by machine, and the resulting products were of very inferior quality and were being offered by makers of hand cut files as convincing examples of the failure of file cutting by machinery.

The superior quality of the new Nicholson Files gradually became an acknowledged fact, the antagonism towards machine cut files diminished, and the output of the works slowly increased until over three hundred dozen files a day were being manufactured. Nicholson Files in a few years had become the standard in America, and hand cut files were a thing of the past.

In 1870 the first of a series of very complete catalogs was published, and in 1878 Mr. Nicholson wrote a treatise on files and their proper selection and use, which as "File Philosophy" is now in the second printing of its seventeenth edition.

Mr. Nicholson, at the time of his death in October 1893, had seen the output of his works increased to over 1500 dozen files daily, and he had established an organization which has since developed the Company until it now operates four large plants in the United States and Canada which turn out many thousands of dozens of files a day.

Colonel Samuel M. Nicholson, son of the founder, devoted his entire business life to the manufacture of files and managed the Company

# N I C H O L S O N   F I L E   C O M P A N Y

from 1893 to the time of his death in 1939. Under his leadership the Nicholson File Company became the largest company in the world manufacturing exclusively Files and Rasps. Whereas the founder was a pioneer in the science of cutting files by machinery, Colonel Nicholson was a pioneer exporter of files and as a result Nicholson Files are to be found in every market of the world.

Mr. Paul C. Nicholson, who had been active in the Company since 1911, was elected President and General Manager in 1939. It is Mr. Nicholson who has guided the organization through the difficult years of World War II and the Post War Period and who has been responsible for the position the Company has maintained in Domestic and Export Markets.

On April 21, 1952, Mr. Paul C. Nicholson was elected Chairman of the Board of Directors and his son, Mr. Paul C. Nicholson, Jr., was elected President and General Manager, thus becoming the fourth generation in active charge of the Company's affairs. Mr. Nicholson, Jr., joined the Company in 1941 and served as Secretary from 1948 to 1952.

The principal factory of the Company is located at Providence and large branch factories are at Philadelphia, Pa., Ander-

son, Indiana, and Port Hope, Ontario. At the Providence factory are manufactured the full lines of Nicholson, and Black Diamond Brands of Files and Rasps, a complete line of Nicholson X.F. Swiss Pattern Files and various associated products such as File Handles, Holders, and Cleaners. Nicholson and Black Diamond Files and Rasps and Nicholson X.F. Swiss Pattern Files represent the very highest quality product of this Company.

The manufacture of Nicholson X.F. Swiss Pattern Files was first started in 1893 and is carried on in a thoroughly modern plant equipped with the finest tools and machinery to assure the production of Swiss Pattern Files of a quality that will give entire satisfaction to the exacting requirements of jewelers, watch makers and fine tool makers.

The Philadelphia and Anderson plants continue to manufacture brands well known throughout the country for over fifty years: American, Arcade, Eagle, Great Western, Kearney & Foot, McClellan and J. Barton Smith.

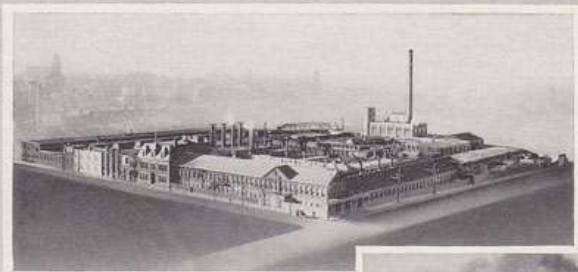
Our Canadian Plant manufactures Black Diamond, Globe, Arcade, Great Western and Kearney & Foot brand files.

**NICHOLSON  
FILE COMPANY**



WILLIAM T. NICHOLSON, Founder

N I C H O L S O N   F I L E   C O M P A N Y



PLANT AT PROVIDENCE, R. I.  
U. S. A.



PLANT AT PHILADELPHIA, PA.  
U. S. A.

N I C H O L S O N   F I L E   C O M P A N Y



PLANT AT ANDERSON, IND.  
U. S. A.



NICHOLSON FILE COMPANY OF CANADA, LTD.  
PORT HOPE, ONTARIO

PATENTED

*For Faster Filing  
on Soft Irons and Steels*



For rapid filing of soft irons and steels, we recommend our Patented Tooth Construction known as "Controlled Serrations." This means that each tooth point is subdivided into extra cutting edges which permit the file to take hold of the stock from the first stroke and to remove more metal than ordinary files.

An added feature of this Tooth Construction is the elimination of the tendency of old style files to skid or slide from the line of work.

NICHOLSON PATENTED FILE TEETH  
*Cut Faster, Last Longer  
Do Not Ride Off the Line of Work*



## GENERAL INFORMATION

**F**ILES and Rasps are made of high carbon steel of special analysis which is made under careful supervision and subjected to the most rigid inspections and tests. Skilled and careful attention is constantly given to this most important requisite of the highest quality product. The Nicholson File Company possesses facilities for manufacturing Files and Rasps which are unequaled by any other file factory in the world. Its extensive buildings were designed especially for the manufacture of Files and Rasps. Special machinery and methods of manufacture, which are the result of constant researches and inventions throughout the life of the Company, insure a completed product that is unexcelled.

Each process of manufacture is given highly skilled supervision and critical inspection while the work is being performed, resulting in a uniformity of product and a high excellence of quality.

Files and Rasps have three distinguishing features:

*First*—THEIR LENGTH, which is always measured exclusive of the tang.

*Second*—THEIR KIND OR NAME, which has reference to the shape or style.

*Third*—THEIR CUT, which has reference not only to the character but also to the coarseness of the teeth.

This catalogue is designed to be of service to all those who distribute or use Files and Rasps.

It is not our intention to illustrate in full detail our entire product but rather to present sufficient illustrations of various types of Files and Rasps, with definite information concerning each, to make the book instructive and easily understood.

For convenience of reference we have grouped our product, all illustrated in this catalogue, into several classes as indicated below:

*First*—THE SAW FILE GROUP, comprising the kinds of files whose particular use is in sharpening or filing saws of various descriptions. This includes Mill Files, Triangular or Three Cornered Saw Files and Saw Files of special sections.

*Second*—THE MACHINISTS' FILES, comprising those kinds generally used in machine shop practice, including the various styles of Flat, Hand, Half Round, Round, Square, Pillar, Warding, Knife, etc.

*Third*—SPECIAL PURPOSE FILES for Aluminum, Brass, Bronze, Lead, Stainless Steel, etc.; and for foundry work and lathe filing.

*Fourth*—RASPS OF VARIOUS TYPES. This group comprises Cabinet Rasps, Shoe Rasps, Wood Rasps, Horse Rasps.

*Fifth*—Milled Curved Tooth Files.

*Sixth*—A complete line of X.F. Swiss Pattern Files and Riffles.

*Seventh*—Coil Files.

*Eighth*—Tools and Specialties.

# SAW FILES . . . . . NICHOLSON FILE COMPANY



## MILL FILES



Mill Files are used principally for filing mill or circular saws, also planer knives and mowing machine knives; for lathe work, draw-filing and for finishing compositions of brass and bronze.

All Mill Files are tapered slightly in width and the 12, 14 and 16-inch files are tapered slightly in thickness for about one-third of their length.

Usually made with two square edges. Single cut.

Made in Bastard cut in lengths of 4, 6, 7, 8, 10, 12, 14 and 16 inches; in Second Cut in lengths of 4, 6, 8, 10, 12 and 14 inches; and in Smooth Cut in lengths of 4, 6, 8, 10, 12 and 14 inches.



### APPROXIMATE SIZES OF FINISHED FILES

4" $3\frac{1}{8}'' \times 3\frac{3}{4}''$	6" $1\frac{1}{2}'' \times 3\frac{3}{4}''$	7" $1\frac{1}{8}'' \times 1\frac{1}{8}''$	8" $2\frac{5}{16}'' \times 3\frac{3}{4}''$	10" $3\frac{1}{16}'' \times 1\frac{1}{4}''$	12" $1\frac{1}{2}'' \times 7\frac{1}{2}''$	14" $1\frac{5}{16}'' \times 1\frac{1}{4}''$	16" $1\frac{1}{2}'' \times 9\frac{1}{2}''$
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### THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF MILL FILES

<b>Bastard</b>							
	4"	6"	8"	10"	12"	14"	16"
<b>Second Cut</b>							
	6"	8"	10"	12"	14"		
<b>Smooth</b>							
	6"	8"	10"	12"	14"		

# NICHOLSON FILE COMPANY . . . . . SAW FILES



## MILL FILES—Continued



Mill Files are also made with one and two round edges for filing the gullet or space between the saw teeth. These files made in Bastard cut only. Mill Files with one or two round edges come in lengths of 6, 8, and 10 inches. One round edge also in 12 inches.



Mill Bastard,  
1 and 2 Round  
Edges

### APPROXIMATE SIZES OF FINISHED FILES

6" $1\frac{3}{16}'' \times \frac{7}{16}''$	8" $1\frac{3}{16}'' \times \frac{7}{16}''$	10" $1\frac{1}{2}'' \times 1\frac{1}{4}''$	12" $1\frac{3}{16}'' \times \frac{7}{16}''$
---	---	---	--



Special Crosscut

### APPROXIMATE SIZES OF FINISHED FILES

6" $1\frac{3}{16}'' \times \frac{7}{16}''$	7" $1\frac{1}{8}'' \times \frac{7}{16}''$	8" $1\frac{3}{16}'' \times \frac{7}{16}''$	10" $1\frac{1}{2}'' \times 1\frac{1}{4}''$
---	--	---	---

The Special Crosscut File has teeth which are specially sharpened for use on Crosscut Saws and works with a smoothness which is evident from the first stroke. The tang is painted orange. Each file is cellophane wrapped. Packed one dozen in orange colored box. Special Crosscut made in 6, 7, 8, and 10 inch lengths only.

## PLANER KNIFE FILES

Used for sharpening planer knives and for other similar uses. Made in lengths of 8 and 10 inches. One half of each side is single cut, while the other half is double cut. These files have safe edges. Made in Grade A only.



### APPROXIMATE SIZES OF FINISHED FILES

Planer Knife Files

8" $1\frac{3}{16}'' \times \frac{7}{16}''$	10" $1\frac{1}{2}'' \times 1\frac{1}{4}''$
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# SAW FILES . . . . . NICHOLSON FILE COMPANY



## HANDSAW AND BANDSAW FILES

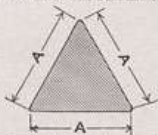


### TRIANGULAR OR THREE CORNERED—60-DEGREE ANGLES

Made for filing all types of saws having 60° angle teeth.

Handsaw files are usually single cut and have edges that are set and cut for filing the gullet between the saw teeth.

Bandsaw files are single cut and have rounded edges. Some Bandsaws have well rounded gullets between their teeth and these files are preferred for sharpening this type of saw. Bandsaw files are made of the same sections of steel as Handsaw files but because the edges are rounded, the finished files are slightly smaller in width.



Dimension "A" is equal for all sides or widths

### GENERAL RULE FOR THE SELECTION OF TRIANGULAR SAW FILES

Select a file the width or flat side of which is equal to a little more than the combined length of the face and back of the saw tooth.

### APPROXIMATE SIZES OF "A" FOR HANDSAW AND BANDSAW FILES

KIND	4"	4½"	5"	5½"	6"	7"	8"	9"	10"	12"
Bandsaw Blunt	.....	.....	.....	.....	15½"	.....	19½"	.....	.....	.....
Bandsaw Blunt Slim	.....	.....	.....	.....	5½"	.....	15½"	.....	.....	.....
Taper	.....	.....	.....	.....	15½"	17½"	18½"	.....	23½"	.....
Slim Taper	7½"	.....	9½"	.....	11½"	13½"	15½"	.....	3½"	23½"
Extra Slim Taper	3½"	.....	3½"	¼"	3½"	5½"	13½"	.....	.....	.....
Double Extra Slim Taper	5½"	.....	3½"	.....	7½"	¼"	3½"	.....	.....	.....
Double Ender	.....	.....	.....	.....	13½"	7½"	9½"	13½"	3½"	.....
Weed's Special Files	.....	.....	7½"	7½"	9½"	.....	.....	.....	.....	.....

For those who prefer Double Cut, we will stock in Grade A Brands only 6" and 7" Taper and 6", 7" and 8" Slim, Extra Slim and Double Extra Slim at the same price as Single Cut.

# NICHOLSON FILE COMPANY . . . . . SAW FILES



## SAW FILES—Continued



### TRIANGULAR OR THREE CORNERED—60-DEGREE ANGLES



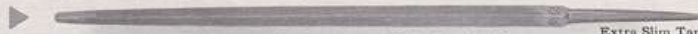
Made in lengths of 6, 7, 8 and 10 inches.

Taper



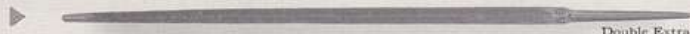
Made in lengths of 4, 5, 6, 7, 8, and 10 inches.

Slim Taper



Made in lengths of 4, 5, 5½, 6, 7 and 8 inches.

Extra Slim Taper



Made in lengths of 4, 5, 6, 7 and 8 inches.

Double Extra Slim Taper

8" x ¼" and 8" x ⅜" Double Extra Slim Taper Files can also be supplied.



Made in lengths of 6, 7, 8, 9 and 10 inches.

Double Ender



Double Ender, with Handle

Double Ender Files are supplied with the handles as shown, six handles to each dozen files.

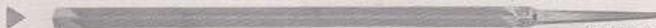
# SAW FILES . . . . . NICHOLSON FILE COMPANY



## SAW FILES—Continued



### TRIANGULAR OR THREE CORNERED—60-DEGREE ANGLES



Hand saw Blunt Extra Slim

DISCONTINUED



Bandsaw Blunt Slim

Bandsaw Blunt and Blunt Slim Files are designed for sharpening Bandsaws with well rounded gullets. Single cut.

#### BANDSAW BLUNT

6" x 1 1/2"      8" x 1 1/2"

#### BANDSAW BLUNT SLIM

6" x 5/8"      8" x 1 1/2"



Special Narrow Bandsaw File No. 64

Corners are well rounded but have a smaller radius than Bandsaw Blunt and Bandsaw Blunt Slim Files. Made only in Grade A.

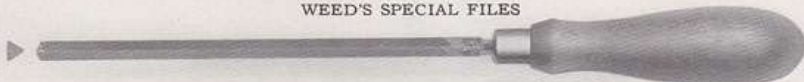
No. 63—6" x 1 1/2" Bandsaw Taper

No. 73—7" x 1 1/2" Bandsaw Taper

No. 64—6" x 3/8" Bandsaw Taper Slim

No. 74—7" x 3/8" Bandsaw Taper Slim

### WEED'S SPECIAL FILES



Weed's Special File with Handle

Weed's Special Files are made with round tangs for insertion in handles. Made in lengths of 5, 5 1/2 and 6 inches. Packed one dozen files and four handles to a box. Full information on request. Arcade only.

# NICHOLSON FILE COMPANY . . . . . SAW FILES



## MISCELLANEOUS SAW FILES



Crosscut

### APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"
$3\frac{3}{4}'' \times \frac{1}{4}''$	$1\frac{1}{8}'' \times \frac{9}{32}''$	$1\frac{1}{8}'' \times 2\frac{3}{64}''$

Single Cut—Made in lengths of 6, 8 and 10 inches. Same number of teeth per inch as Mill Bastard Files of the same lengths. Used for sharpening crosscut saws of the Great American style—the rounded backs being used to deepen the rounded gullets of the saw teeth.



Cantsaw

### APPROXIMATE SIZES OF FINISHED FILES

6"	7"	8"	10"
$1\frac{7}{8}'' \times 1\frac{5}{64}''$	$3\frac{3}{4}'' \times \frac{1}{4}''$	$1\frac{1}{8}'' \times \frac{9}{32}''$	$1\frac{1}{8}'' \times 1\frac{1}{32}''$

Single cut—Made in lengths of 6, 8 and 10 inches. These files are used for sharpening Crosscut Saws with "M" teeth, for circular saws and for saw teeth with less than 60° angle. They have the same number of teeth per inch as Mill Bastard Files of equivalent lengths. Single Cut. Edges are set and cut. Cantsaw Files are regularly supplied with cut backs, but may be purchased with safe or uncut backs at regular list prices, if orders definitely specify that such types are wanted.



Pitsaw

DISCONTINUED

# SAW FILES . . . . . NICHOLSON FILE COMPANY



## MISCELLANEOUS SAW FILES—Continued

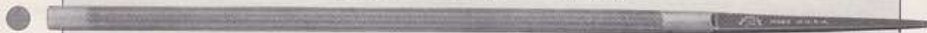


Websaw File

Websaw Files are for filing pulpwood or Websaws. Because of their shape, they are specially suited for filing saws having cutting teeth of less than 60° angle or wherever it is desired to file each bevel of the tooth separately. Made only in Grade A.

### APPROXIMATE SIZES OF FINISHED FILES

5"	5 1/2"	6"
2 3/32" x 1 3/64"	2 7/32" x 1/4"	2 9/32" x 1 7/64"



DISCONTINUED

Round Websaw  
Gulleting File



Sector File

Sector Files are made specially for filing the Bushman type saw. The round back is designed for deepening the gullets between the sections of cutting teeth while the sides are for filing the teeth themselves. When necessary, the narrow edge is for deepening the gullets between the individual cutting teeth. Single cut on sides, back and edge. The width of the narrow edge is 1/32". Made in one length and in Grade A only. Dimensions 6-inch—3/16" x 1 1/64" x 1/32".



# NICHOLSON FILE COMPANY . . . . . SAW FILES



MISCELLANEOUS SAW FILES—Continued



## IMPROVED TAPER FILES

Improved Taper Files are parallel in shape and have a specially shaped point to facilitate holding the file in the machine. Single cut on sides and edges. Regularly available in two sizes only.



Improved Taper

### APPROXIMATE SIZES OF FINISHED FILES

6" x 3/8"      6" x 1/4"

## SKIP-TOOTH BANDSAW FILES

Skip-tooth Bandsaw Files are Special Six-Sided Files for filing Skip-tooth Bandsaws used in butcher shops and meat markets. They are of the proper shape to drop into the original gullet and file the face of the tooth, the bottom of the gullet and the back of the next tooth at the same time. Made only in Grade A.



Skip-Tooth  
Bandsaw Blunt

### APPROXIMATE SIZES OF FINISHED FILES

5"      6"  
7/8"      7/8"



Skip-Tooth Bandsaw  
Diamond Point

### APPROXIMATE SIZES OF FINISHED FILES

5"      6"  
7/8"      7/8"

# SAW FILES . . . . . NICHOLSON FILE COMPANY



MISCELLANEOUS SAW FILES—Continued



## PRUNING SAW FILES

Pruning Saw Files are especially designed for use on Needle Point Pruning Saws. Made on diamond shaped blanks, 6" long. Single cut on two faces of one side and on both edges. Other side uncut. Made in Grade A only.



Pruning Saw File

## APPROXIMATE SIZES OF FINISHED FILES

6"  
29/32" x 17/64"

## WESTERN CUT FILES

Mill Western Cut files are available in Grade A brands for those who desire fast cutting Mill Files. They are slightly coarser than Mill Bastard.

## TYPE B SAW FILES

Available in Grade A brands and in 6" and 7" Slim, Extra Slim and Double Extra Slim. These Type B Saw Files are slightly coarser than the regular styles.

# NICHOLSON FILE COMPANY . . . . . SAW FILES



## CHAIN SAW FILES



Nicholson File Company's line of Chain Saw Files, made in styles for use on all types of chains, have been developed for fast cutting, long life and good finish. The correct combination of tooth structure, shear angle and fineness of cut on each type of file provides the user with a selection unsurpassed for performance and quality. Each file, of course, has our unqualified guarantee behind it.

## ROUND SMOOTH CHAIN SAW FILES

### Round Chain Saw File

These files cut with pleasingly crisp action and finish chain saw teeth of round, hooded type to razor-like smoothness for fast, smooth sawing. This remarkable combination of features in one file results from extensive research and development in Nicholson File Company's engineering laboratories. Please include code number in placing your order through your distributor. Blunt in shape. Made in Grade A only. Supplied as follows:

#### APPROXIMATE DIMENSIONS

Code No. 183 . . . . .	8" x $\frac{3}{16}$ "
Code No. 1835 . . . . .	8" x $\frac{1}{2}$ "
Code No. 184 . . . . .	8" x $\frac{1}{4}$ "
Code No. 185 . . . . .	8" x $\frac{1}{16}$ "
Code No. 186 . . . . .	8" x $\frac{3}{8}$ "
Code No. 189 . . . . .	8" x $\frac{9}{16}$ "

## LOZENGE CHAIN SAW FILES

### Lozenge Chain Saw File

Preferred by some saw filers for sharpening hooded type chain saw teeth. Made in Grade A only.

#### APPROXIMATE SIZE OF FINISHED FILES

Code No. 60 . . . . .	$\frac{6}{16}$ " x $\frac{1}{4}$ "
-----------------------	------------------------------------

# SAW FILES . . . . . NICHOLSON FILE COMPANY



## FLAT CHAIN SAW FILES



Flat Chain Saw File

These files have been developed for plain cutter-and-raker type chain saw teeth. Supplied only with two round edges. Blunt in shape. Made in Grade A only.

### APPROXIMATE SIZES OF FINISHED FILES

		7"		8"
Regular . . . . .	Code No. 17 . . . . .	$1\frac{1}{16}'' \times \frac{1}{8}''$	Code No. 18 . . . . .	$2\frac{3}{32}'' \times \frac{9}{64}''$
Narrow . . . . .			Code No. 188 . . . . .	$1\frac{7}{32}'' \times \frac{3}{32}''$

## SQUARE CHAIN SAW FILES



Square File for Chain Saws

We recommend the Square File because it permits two cutting surfaces of the chain saw teeth to be filed simultaneously. Blunt in shape. Made in Grade A only.

### APPROXIMATE WIDTH OF FINISHED FILES

	6"
Code No. 26 . . . . .	$\frac{7}{32}''$

# NICHOLSON FILE COMPANY . . . . . MACHINISTS FILES



## FLAT FILES



Flat Files are used by machinists, machinery builders, ship and engine builders, repair men and others who require rapid removal of metal. They are rectangular in cross section and taper slightly towards point in both width and thickness. Double cut on both sides, single cut on both edges. Made in Bastard, Second Cut and Smooth in lengths of 4, 6, 8, 10, 12, 14 and 16 inches. In Bastard cut in 18".



Flat Bastard

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"	10"	12"	14"	16"	18"
$1\frac{3}{16}'' \times \frac{3}{16}''$	$\frac{5}{16}'' \times \frac{5}{16}''$	$2\frac{3}{16}'' \times \frac{7}{16}''$	$3\frac{1}{16}'' \times \frac{1}{4}''$	$1\frac{5}{16}'' \times \frac{3}{16}''$	$1\frac{1}{2}'' \times \frac{5}{16}''$	$1\frac{7}{16}'' \times 1\frac{1}{16}''$	$1\frac{1}{16}'' \times \frac{3}{16}''$

## HAND FILES

Widely used by machinists and machinery builders for filing flat surfaces. Hand Files are of rectangular cross-section and are parallel in width and taper slightly in thickness. They are cut on both flat sides but on one edge only. Made in Bastard, Second Cut and Smooth cuts in lengths of 6, 8, 10, 12 and 14 inches.



Hand Bastard

### APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"	14"
$\frac{3}{8}'' \times \frac{3}{16}''$	$2\frac{3}{16}'' \times \frac{7}{16}''$	$3\frac{1}{16}'' \times \frac{1}{4}''$	$1\frac{5}{16}'' \times \frac{3}{16}''$	$1\frac{1}{2}'' \times \frac{5}{16}''$

Note: For illustrations showing Coarseness of Flat and Hand Files see page 20.

# MACHINISTS FILES . . . . . NICHOLSON FILE COMPANY



## FLAT AND HAND FILES



THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF  
FLAT AND HAND FILES

Coarse



4"



6"



8"



10"



12"



14"



Bastard



4"



6"



8"



10"



12"



14"



16"

Second Cut



4"



6"



8"



10"



12"



14"



16"

Smooth



4"



6"



8"



10"



12"



14"



16"

# NICHOLSON FILE COMPANY . . . . . MACHINISTS FILES



## HALF ROUND FILES



Generally used by machinists, engineers and repair men and because of the section being rounded on one side and flat on the other are extremely useful files. The cuts on the flat side are graded in coarseness like Flat and Hand Files shown on the preceding page. The cuts on the backs are graded in coarseness like the illustrations shown on the following page.

Half Round Files are made in Bastard, Second Cut and Smooth cuts, and in lengths of 4, 6, 8, 10, 12, 14 and 16 inches, except Second Cut not made in 16 inch length.



Half Round Bastard

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"	10"	12"	14"	16"
$\frac{7}{16}'' \times \frac{1}{8}''$	$1\frac{1}{32}'' \times \frac{3}{32}''$	$\frac{3}{4}'' \times \frac{7}{32}''$	$1\frac{1}{16}'' \times \frac{9}{32}''$	$1\frac{1}{8}'' \times 1\frac{1}{32}''$	$1\frac{1}{2}'' \times 1\frac{1}{32}''$	$1\frac{5}{16}'' \times 1\frac{1}{32}''$

## HAND FINISHING FILES

Hand Finishing Files are double cut and are used when a very smooth finish is desired. They are rectangular in section and are parallel in width. Tapered slightly in thickness. Made with two safe edges in 12 and 14-inch lengths in Smooth cut only.



Hand Finishing Smooth

DISCONTINUED

# MACHINISTS FILES . . . . . NICHOLSON FILE COMPANY

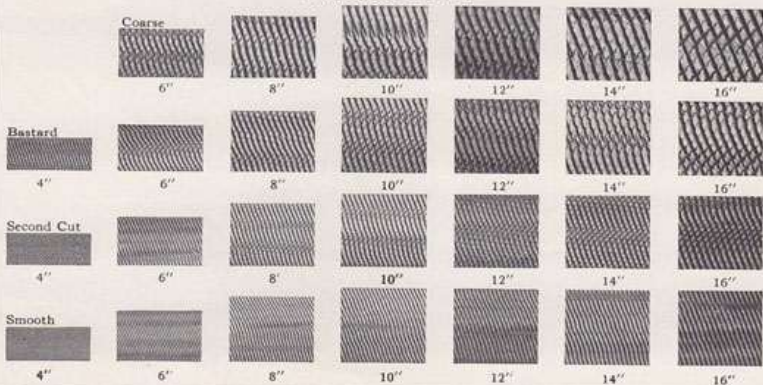


## HALF ROUND FILES



The backs of all Half Round Bastard Files are double cut. The backs of all Half Round Second Cut Files longer than 6 inches are double cut, the 4 and 6-inch files are single cut. The backs of all Half Round Smooth Files are single cut. The flat sides of all Half Round Files are double cut.

### THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF HALF ROUND FILES





# NICHOLSON FILE COMPANY . . . . . MACHINISTS FILES



## ROUND FILES



Their principal use is to file or enlarge circular openings or to file concave surfaces. Made in Bastard cut in lengths of 4, 6, 7, 8, 10, 12, 14 and 16 inches. In Second Cut and Smooth cuts in lengths of 4, 6, 8, 10, 12 and 14 inches. Round Files are double cut, in Bastard cut from 6" up; in Second Cut from 12". The rest are single cut.



### APPROXIMATE DIAMETER OF FINISHED FILES

Round Bastard (tapered)

4"	6"	7"	8"	10"	12"	14"	16"
$\frac{3}{32}$ "	$\frac{1}{4}$ "	$\frac{13}{64}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF ROUND FILES

Bastard



4"



6"



8"



10"



12"



14"



16"

Second Cut



4"



6"



8"



10"



12"



14"



16"

Smooth



4"



6"



8"



10"



12"



14"



16"

# MACHINISTS FILES . . . . . NICHOLSON FILE COMPANY



## SQUARE FILES



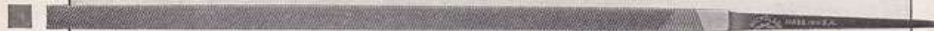
Used principally for filing keyways, slots and general surface filing. Double cut on all four sides. Made in Bastard cut in lengths of 4, 6, 8, 10, 12, 14 and 16 inches. In Second Cut and Smooth cuts in lengths of 4, 6, 8, 10, 12 and 14 inches.



Square Bastard

### APPROXIMATE WIDTH OF FINISHED FILES

4"	6"	8"	10"	12"	14"	16"
$\frac{5}{16}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "



DISCONTINUED

Square Blunt Bastard

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF SQUARE FILES

Bastard



4"



6"



8"



10"



12"



14"



16"

Second Cut



4"



6"



8"



10"



12"



14"



16"

Smooth



4"



6"



8"



10"



12"



14"



16"

# NICHOLSON FILE COMPANY . . . . . MACHINISTS FILES



## PILLAR FILES



Are of rectangular section (Proportion of width to thickness is two to one). Principally used by machinists and repair men for filing slots and keyways. They are like the Hand File in general shape, and like the Hand File have one edge "safe," or uncut.

Made in Bastard, Second Cut and Smooth cuts in lengths of 6, 8, 10 inches and in Bastard cut only in 12 and 14-inch lengths.

The grading of cuts according to coarseness is the same as the Square File.



Pillar Bastard

### APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"	14"
$\frac{7}{16}$ " x $\frac{7}{16}$ "	$\frac{9}{16}$ " x $\frac{9}{16}$ "	$1\frac{1}{16}$ " x $1\frac{1}{16}$ "	$1\frac{3}{16}$ " x $1\frac{3}{16}$ "	$1\frac{9}{16}$ " x $1\frac{9}{16}$ "

## THREE SQUARE FILES

Are of triangular section like Tapers but are double cut, with the corners left sharp. For general use by machinists for filing internal angles and clearing out corners; also for filing taps and cutters in the annealed state.

Made in Bastard cut, in lengths of 6, 8, 10 and 12 inches. Second cut and Smooth cuts in lengths of 6, 8, and 10 inches only. The grading of cuts according to coarseness is the same as the Square File.



Three Square Bastard

### APPROXIMATE WIDTH OF FINISHED SIDES

6"	8"	10"	12"
$1\frac{3}{16}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$1\frac{1}{2}$ "

# MACHINISTS FILES . . . . . NICHOLSON FILE COMPANY



## WARDING FILES



As their name indicates, their principal use is by locksmiths for filing the ward notches in keys. Also suited for filing in narrow spaces where other files would be too thick. Made in lengths of 4, 6, 8 and 10 inches in Bastard, Second Cut and Smooth cuts and in 12-inch length in Bastard cut only. All double cut.



Warding Bastard

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"	10"	12"
$1\frac{5}{16}'' \times \frac{3}{16}''$	$3\frac{1}{2}'' \times \frac{3}{16}''$	$2\frac{5}{16}'' \times \frac{3}{16}''$	$1\frac{5}{16}'' \times \frac{1}{4}''$	$1\frac{7}{16}'' \times \frac{3}{16}''$

## KNIFE FILES

Are of knife blade section. Used principally by tool and die makers on work having acute angles. Made in lengths of 4, 6, 8 and 10 inches, in Bastard, Second Cut and Smooth cuts. All double cut on sides. Backs uncut but cut backs supplied on customer's request at no extra charge.



Knife Bastard

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"	10"
$1\frac{5}{16}'' \times \frac{3}{16}''$	$2\frac{5}{16}'' \times \frac{3}{16}''$	$2\frac{7}{16}'' \times \frac{3}{16}''$	$1\frac{1}{2}'' \times \frac{1}{4}''$

# NICHOLSON FILE COMPANY . . . . . MACHINISTS FILES



## MACHINIST'S G.P. (GENERAL PURPOSE) FILES



These files are single cut for reasonably smooth finish; and serrated diagonally on relatively coarse teeth for fast stock removal and capacity to stand rough usage. Made in one degree of coarseness only. Edges cut. Made in Grade A only.



Machinist's G.P.  
(General Purpose) Files

### APPROXIMATE SIZES OF FINISHED FILES

8"	10"	12"	14"
$1\frac{5}{16}'' \times \frac{7}{16}''$	$1\frac{3}{16}'' \times \frac{1}{4}''$	$1\frac{1}{2}'' \times \frac{3}{16}''$	$1\frac{1}{2}'' \times \frac{3}{16}''$

## DOCTOR BLADE FILES



14" Doctor Blade File

Designed for filing Doctor Blades in the cloth printing industry. They are made 14 inches in length on Hand Blunt blanks without tang. They are double cut and are made in two degrees of coarseness, Coarse cut and Smooth cut. Made only in Grade A.

### APPROXIMATE SIZE OF FINISHED FILE

14"
$1\frac{3}{16}'' \times \frac{3}{16}''$

# SPECIAL PURPOSE FILES . . . NICHOLSON FILE COMPANY



## FOUNDRY FILES



Developed by us for snagging castings in Foundries and now widely used for removing fins, sprues and other hard projections from castings, and for many other kinds of rough filing. Teeth made extra strong and rugged to stand severe usage. Made regularly in Bastard and Coarse Cuts, sizes 8" to 14", in Flat and Half Round Shapes. Each file has "Foundry" stamped on it for identification.

### APPROXIMATE SIZES OF FINISHED FLAT FOUNDRY FILES

8"	10"	12"	14"
$2\frac{5}{16}'' \times \frac{7}{16}''$	$3\frac{1}{16}'' \times \frac{1}{4}''$	$1\frac{5}{16}'' \times \frac{9}{16}''$	$1\frac{11}{16}'' \times \frac{3}{16}''$

### APPROXIMATE SIZES OF FINISHED HALF ROUND FOUNDRY FILES

8"	10"	12"	14"
$\frac{3}{4}'' \times \frac{7}{16}''$	$1\frac{5}{16}'' \times \frac{9}{16}''$	$1\frac{1}{4}'' \times 1\frac{1}{16}''$	$1\frac{7}{16}'' \times 1\frac{1}{16}''$



Flat Bastard Foundry

## FILES FOR STAINLESS STEEL

Nicholson File Company now makes files especially for use on Stainless Steel. These files are made in all types and sizes as our regular purpose files, both in American Pattern and Swiss Pattern. The construction of the teeth on files for Stainless Steel is designed to resist the wearing action of these tough dense steels on the file's cutting edges. To order, specify type, size and cut and add "for Stainless Steel" to your specification. Regular list prices. Words "Stainless Steel" are stamped on the tang for identification. Made in Grade A only.

## FILES FOR PLASTICS

Because the uses of plastics are rapidly growing and changing, we prefer to have a job description from the customer before recommending specific files. Our files are supplied in all regular types and sizes specially sharpened for use on Hard Plastics. For Soft Plastics, we recommend our Shear Tooth Files, Milled Tooth Files and certain coarser cuts in Regular Purpose Files.

## BODIFILES

A line of Bodifiles is available for those who work on automobile bodies, particularly in blending solder with sheet steel. Full particulars given on request. Made in Grade A only.

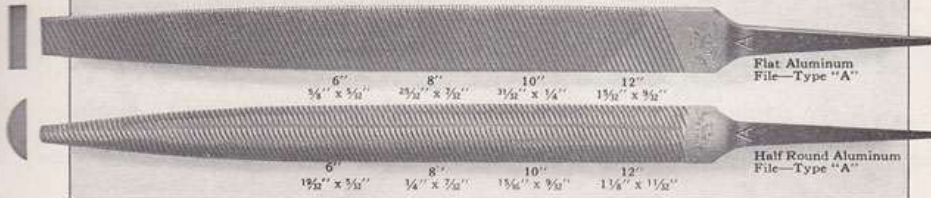
# NICHOLSON FILE COMPANY . . . SPECIAL PURPOSE FILES



## FLAT AND HALF ROUND ALUMINUM FILES—TYPE "A"



Best suited for filing aluminum or aluminum alloy castings. These files cut rapidly without clogging. All are of one coarseness of cut, regardless of the shape or size of the file. A smooth finish can easily be obtained by filing with a shearing cut toward the left. Half Rounds in 6, 8 and 10 inch only have fine points. Made only in Grade A.



Flat Aluminum File—Type "A"

Half Round Aluminum File—Type "A"

## LONG ANGLE LATHE FILES

Specially designed for lathe filing. Long Angle Lathe Files are made on Flat File blanks. Cut on sides only with both edges safe or uncut. The Flat Long Angle Lathe Files are made in lengths of 10, 12 and 14 inches.



Long Angle Lathe File

### APPROXIMATE SIZES OF FINISHED FILES

10"	12"	14"
$3\frac{1}{2}'' \times \frac{1}{4}''$	$1\frac{1}{2}'' \times \frac{3}{16}''$	$1\frac{1}{2}'' \times \frac{5}{16}''$

# SPECIAL PURPOSE FILES . . . NICHOLSON FILE COMPANY



## FLAT AND HALF ROUND BRASS FILES

The filing of brass, copper, bronze and similar metals requires a special type of file. While these metals are softer than steel they are also more malleable and are very ductile and tough. These Brass Files are very sharp and should be used with as little pressure as is needed to keep them cutting. Made only in Grade A.



Made in Half Round sections in lengths of 8, 10 and 12 inches. These files have small points.



Flat Brass File

DISCONTINUED



Half Round Brass File

### APPROXIMATE SIZES OF FINISHED FILES

8"	10"	12"
$3/4'' \times 7/16''$	$15/16'' \times 7/16''$	$1 1/8'' \times 11/16''$

## SHEAR TOOTH FILES

Shear Tooth Files are for use on aluminum, copper, brass and similar metals. May also be used on cast iron and steel. They remove material rapidly and leave a very smooth finish. Are single cut with a long angle and are furnished in Flat and Half Round sections in lengths of 6, 8, 10, 12 and 14 inches. Made only in Grade A.



Flat Shear Tooth File

### APPROXIMATE SIZES OF FINISHED SHEAR TOOTH FILES

	6"	8"	10"	12"	14"
FLAT	$3/8'' \times 5/16''$	$25/32'' \times 7/16''$	$31/32'' \times 1/4''$	$15/16'' \times 3/16''$	$1 1/16'' \times 5/16''$
HALF ROUND	$19/32'' \times 5/16''$	$3/4'' \times 7/16''$	$15/16'' \times 3/16''$	$1 1/8'' \times 11/16''$	$1 9/16'' \times 13/16''$



# NICHOLSON FILE COMPANY . . . SPECIAL PURPOSE FILES



## LEAD FLOAT FILES

Designed for use on lead, babbitt and other soft metals. Made in Flat and Half Round shapes and in lengths 8", 10" and 12".



Flat Lead Float

### APPROXIMATE SIZES OF FINISHED FILES

#### FLAT LEAD FLOAT FILE

8"	10"	12"
$2\frac{1}{2}'' \times \frac{1}{2}''$	$3\frac{1}{2}'' \times \frac{1}{4}''$	$1\frac{1}{2}'' \times \frac{3}{16}''$

#### HALF ROUND LEAD FLOAT FILE

8"	10"	12"
$\frac{3}{4}'' \times \frac{3}{16}''$	$1\frac{5}{16}'' \times \frac{9}{16}''$	$1\frac{1}{4}'' \times 1\frac{1}{16}''$

## THE HANDY FILE

This gives the user a combination file—single cut on one side for sharpening edged tools and smoothing metal surfaces; double cut on other side for rapid removal of metal. Safety handle (painted orange). Convenient "hang up" hole. Dimensions 8" x  $\frac{3}{4}''$  x  $\frac{3}{16}''$ . Length measured exclusive of handle. Made only in Grade A.



Illustrated above: Single cut side for sharpening edged tools such as hoes, hatchets and mower blades.

# SPECIAL PURPOSE FILES . . . NICHOLSON FILE COMPANY



## DIE CAST FILES

Die Cast Files for finishing die castings of aluminum-alloy and similar metals are made with extra strong teeth on sides, edges and corners to resist shelling off and breaking out.

Teeth are designed to eliminate as far as possible the tendency of aluminum-alloy and similar metals to clog the file teeth. Made only in Grade A.

Made in Flat and Half Round sections in lengths of 6, 8, 10, 12 and 14 inches.



Mill Bastard Die Cast

### APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"	14"
$1\frac{3}{16}'' \times \frac{3}{16}''$	$2\frac{5}{16}'' \times \frac{3}{16}''$	$1\frac{1}{2}'' \times 1\frac{1}{4}''$	$1\frac{3}{16}'' \times \frac{7}{16}''$	$1\frac{3}{16}'' \times \frac{1}{4}''$



Half Round Die Cast-Smooth Cut

### APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"	14"
$1\frac{3}{16}'' \times \frac{1}{2}''$	$\frac{3}{4}'' \times \frac{7}{16}''$	$1\frac{5}{16}'' \times \frac{9}{16}''$	$1\frac{1}{8}'' \times 1\frac{1}{16}''$	$1\frac{3}{16}'' \times 1\frac{1}{16}''$

# NICHOLSON FILE COMPANY . . . SPECIAL PURPOSE FILES



## WOOD FILES

Wood Files are made in the same sections and sizes as Regular Flat and Half Round Files. However, they have especially coarse teeth, fitting them for use on wood.



Flat Wood

### APPROXIMATE SIZES OF FINISHED FILES

8"	10"	12"	14"
$2\frac{5}{16}'' \times \frac{7}{16}''$	$3\frac{1}{16}'' \times \frac{1}{4}''$	$1\frac{5}{16}'' \times \frac{9}{16}''$	$1\frac{1}{2}'' \times \frac{5}{16}''$



Half Round Wood

### APPROXIMATE SIZES OF FINISHED FILES

8"	10"	12"	14"
$\frac{3}{4}'' \times \frac{7}{16}''$	$1\frac{5}{16}'' \times \frac{9}{16}''$	$1\frac{1}{8}'' \times 1\frac{1}{16}''$	$1\frac{7}{16}'' \times 1\frac{1}{16}''$

## AUGER BIT FILES

Auger Bit Files are designed to restore the original sharpness to the cutting edges of bits. One end of file has its edges left safe or uncut while the other end has safe sides. This construction prevents damage to surfaces adjacent to those being filed. Made in 7-inch length only. Made in Grade A only.



### APPROXIMATE SIZES OF FINISHED FILES

7"
$1\frac{1}{2}'' \times \frac{1}{8}''$

Auger Bit

# SPECIAL PURPOSE FILES . . . NICHOLSON FILE COMPANY



## CABINET FILES AND RASPS

Used by cabinet makers and woodworkers. The curved side of these rasps is similar to that of Half Round Rasps, but of larger radius.

Cabinet Files are made in one coarseness of cut only, in lengths of 8, 10 and 12 inches. Cabinet Rasps are made in Second Cut in lengths of 6, 8, 10, 12 and 14 inches. Smooth cut in lengths of 8, 10 and 12 inches.



Cabinet File



Cabinet Rasp

### APPROXIMATE SIZES OF FINISHED FILES AND RASPS

	6"	8"	10"	12"	14"
Cabinet Files		$\frac{7}{8}'' \times \frac{3}{8}''$	$1\frac{1}{2}'' \times \frac{7}{16}''$	$1\frac{5}{8}'' \times \frac{1}{4}''$	
Cabinet Rasps	$1\frac{1}{16}'' \times \frac{3}{16}''$	$2\frac{1}{2}'' \times \frac{1}{4}''$	$1\frac{3}{8}'' \times \frac{9}{32}''$	$1\frac{11}{12}'' \times \frac{11}{32}''$	$1\frac{9}{16}'' \times \frac{3}{16}''$

### THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF CABINET RASPS

Second Cut



6"



8"



10"



12"



14"

Smooth



6"



8"



10"



12"



14"

# NICHOLSON FILE COMPANY . . . . . RASPS



## LAST AND PATTERN MAKERS' CABINET RASPS

Used by shoe last and pattern makers and for all wood filing when a smooth finish is desired such as in the manufacture of wooden golf club heads. Made in Grade A only. Pattern Makers' Rasps have cut edges while Last Makers' Rasps and Files have safe edges. All these Rasps and Files have numbers on the tangs for convenience when re-ordering. A complete list of the many types manufactured will be supplied on request.



Last Makers' Cabinet Rasp—Bastard

## 4-IN-HAND (formerly Half Round Shoe Rasp)

Made in half round section as illustrated. Half of each surface file cut, the other half having rasp teeth. Made in lengths of 8, 9 and 10 inches.



4-in-Hand (formerly Half Round Shoe Rasp)

### APPROXIMATE SIZES OF FINISHED RASPS

8"	9"	10"
$\frac{7}{8}'' \times \frac{9}{16}''$	$1\frac{1}{16}'' \times \frac{5}{16}''$	$1\frac{1}{16}'' \times \frac{11}{16}''$

## ROUND WOOD RASPS AND ROUND CABINET RASPS

Used for the same purpose as Regular Wood and Cabinet Rasps in places for which their shape makes them particularly effective. Each is made in one cut only and in lengths of 6, 8, 10, 12 and 14 inches. Made from steel of the same size as Round Files.



Round Wood Rasp

APPROXIMATE DIAMETER OF FINISHED RASPS				
6" x $\frac{1}{4}''$	8" x $\frac{3}{16}''$	10" x $\frac{1}{4}''$	12" x $\frac{1}{4}''$	14" x $\frac{5}{16}''$



Round Cabinet Rasp

DISCONTINUED

# RASPS . . . . . NICHOLSON FILE COMPANY



## WOOD RASPS—FLAT AND HALF ROUND SECTION

Are used by woodworkers, wheelwrights, plumbers, etc. Made in Bastard and Smooth cuts. Made in Flat sections in lengths of 8, 10, 12, and 14 inches and in Half Round sections in lengths of 6, 8, 10, 12, 14 and 16 inches. In Half Round Smooth 8, 10, and 12 inches. Coarseness of teeth is the same for Flat and Half Round Rasps of the same size.



### APPROXIMATE SIZES OF FINISHED RASPS

	6"	8"	10"	12"	14"	16"
Flat						
Half Round	$1\frac{3}{4}'' \times \frac{1}{4}''$	$2\frac{5}{16}'' \times \frac{9}{16}''$	$3\frac{1}{4}'' \times 1\frac{1}{8}''$	$1\frac{5}{16}'' \times 1\frac{3}{16}''$	$1\frac{11}{16}'' \times 1\frac{5}{16}''$	$1\frac{17}{16}'' \times \frac{9}{16}''$



Flat Wood Rasp



Half Round Wood Rasp

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF FLAT AND HALF ROUND WOOD RASPS

Bastard



8"



10"



12"



14"



16"

Smooth



8"



10"



12"



14"



16"

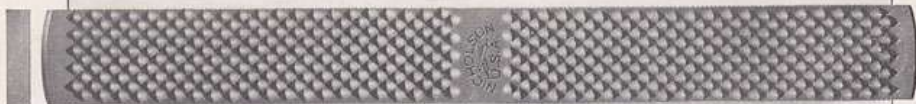
# NICHOLSON FILE COMPANY . . . . . RASPS



## HORSE RASPS



Horse Rasps are made in two different types, Plain Rasps, which are double-ended, and Tanged Rasps. Both types have Rasp teeth on one side and file teeth on the other. Plain Rasps are made in Regular and Slim patterns. Tanged Rasps are made in Regular and Thin patterns. Tanged Platers Rasps, which are thinner and finer than the Regular Tanged Horse Rasps, can be supplied in 14" length in Extra Thin and Double Extra Thin.



### APPROXIMATE SIZES OF FINISHED RASPS

	12"	14"	16"	18"
Plain Rasp	$1\frac{5}{16}'' \times 1\frac{1}{2}''$	$1\frac{1}{2}'' \times \frac{3}{8}''$	$1\frac{13}{12}'' \times \frac{7}{16}''$	.....
Plain Rasp—Slim	.....	.....	$1\frac{1}{2}'' \times 1\frac{1}{2}''$	$1\frac{13}{16}'' \times 1\frac{1}{2}''$

Plain Horse Rasp



### APPROXIMATE SIZES OF FINISHED RASPS

	14"	16"
Tanged Rasp	$1\frac{3}{4}'' \times \frac{3}{16}''$	$1\frac{7}{8}'' \times 1\frac{1}{2}''$
Tanged Rasp—Thin	$1\frac{3}{4}'' \times 1\frac{1}{2}''$	.....

Tanged Horse Rasp

# CURVED TOOTH FILES . . . . . NICHOLSON FILE COMPANY



## THE NICHOLSON SUPER-SHEAR

A MILLED CURVED TOOTH FILE THAT SMOOTHS AS IT ROUGHS



The Super-Shear is a "double purpose" Milled Curved Tooth File for use on the flat and convex surfaces of aluminum, brass, babbitt, bronze, copper, magnesium, cast iron and soft metal alloys. Made in Standard, Fine and Smooth cuts in lengths of 8, 10, 12 and 14-inch.



Super-Shear

### APPROXIMATE SIZES OF THE SUPER-SHEAR

8"	10"	12"	14"
$1\frac{3}{16}" \times 1\frac{1}{4}"$	$1" \times \frac{7}{16}"$	$1\frac{1}{2}" \times 1\frac{1}{4}"$	$1\frac{1}{2}" \times \frac{3}{16}"$

The Curved teeth of the Nicholson Super-Shear are cut in an arc that is "off center" in relation to the axis of the file. This permits the teeth to begin with wide gullets and a right angle—for fast cutting. They become shorter and closer together as they terminate in a long, shearing angle—for producing the smoothing effect. Thus, when a surface is filed with an overlapping stroke in a right-toward-left working direction, the Nicholson Super-Shear "smooths out its tracks as it goes." Practically two files in one! Fast cutting and smooth finishing in one operation. Easy control of file for accurate work. Easy clearance that saves time and keeps the file efficient. Made in Standard, Fine and Smooth cuts.



# NICHOLSON FILE COMPANY . . . . . CURVED TOOTH FILES



## NICHOLSON SUPERIOR MILLED TOOTH FILE



Manufactured by Nicholson File Company for those who require top quality in Milled Curved Tooth Files. In three cuts: Standard, Fine and Smooth. Three commonly used types illustrated below. See price list for available items.



Flexible Standard

Especially designed for the Auto Body Building and Repair trade. Being very flexible, they are largely used for fender work and for work on curved surfaces of sheet steel and other metals. Made to fit all standard holders.



Flat Standard (Rigid)

The Rigid Type Nicholson Superior Milled Tooth files are recommended for flat surfaces on which a straight even pressure stroke is required. This file may be used on many kinds of metals because of its fast cutting and self clearing teeth.



Half Round Standard (Rigid)

These files are flat on one side and convex on the other, which makes them particularly adapted for filing bearings and concave surfaces.

# HOLDERS . . . . . NICHOLSON FILE COMPANY



## NICHOLSON SUPERIOR HOLDERS



**HALF CIRCLE HOLDER No. 22  
AND HALF CIRCLE FILE**

Half Circle and Special Curved Superior Files are for use on fenders and in fender wells. They are not flexible and have teeth on one side only. Made in 14" length and in Standard Cut.



**SPECIAL CURVED HOLDER No. 23  
AND SPECIAL CURVED FILE**



**STRAIGHT FILE HOLDER No. 24**

For use with either 12" or 14" Files.



**ADJUSTABLE FLEXIBLE FILE  
HOLDER No. 25**

Made to be used with 12" and 14" Superior Milled Tooth Files and is easily adjusted for curving the file either outward or inward.

# NICHOLSON FILE COMPANY . . . X.F. SWISS PATTERN FILES



## NICHOLSON X.F. SWISS PATTERN FILES



Nicholson X.F. Swiss Pattern Files are made to more exacting measurements than American Pattern Files. Although some cross sections of both types are similar, the shapes differ. The points of X.F. Swiss Pattern Files are smaller and the tapered files have longer tapers than those of American Pattern Files. Nicholson X.F. Swiss Pattern Files are made in much finer cuts, which vary from No. 00, which is the coarsest to No. 6, the finest.

Our X.F. Swiss Pattern Files are primarily finishing tools, used for removing burrs left over from previous finishing operations, rounding out slots and cleaning out square corners, smoothing up small parts and in fact, doing the final finishing on all sorts of delicate and intricate pieces. The smaller points of these files make them useful for enlarging small holes and shaping and finishing very narrow grooves, slots, notches and keyways.

X.F. Swiss Pattern Files are used by tool and die makers, delicate instrument parts finishers, jewelers, model makers and home craftsmen. In short, everyone who does superfine precision filing will have many uses for X.F. Swiss Pattern Files.

Special care is required in the manufacture of X.F. Swiss Pattern Files. They are made in a separate division of our Providence Factory by a staff specially trained for their work. Anyone who buys X.F. Swiss Pattern Files is assured of highest quality under Nicholson's guarantee of "Twelve Perfect Files in Every Dozen."



# X.F. SWISS PATTERN FILES . . . NICHOLSON FILE COMPANY

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## HAND FILES

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Hand No. 00

Hand Files are parallel in width and taper in thickness. The flat sides are double cut. Hand Files in cuts Nos. 00, 0, 1 and 2 are single cut on one edge, the other edge being safe. Hand Files in cuts Nos. 3, 4 and 6 have two safe edges. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 00 not made in 3" length. No. 1 not made in 3" and 12" lengths. No. 3 not made in 3", 10" or 12" lengths. No. 6 made in 6" and 8" lengths only.

### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"	12"
$\frac{3}{16}'' \times \frac{3}{64}''$	$\frac{1}{2}'' \times \frac{7}{64}''$	$\frac{23}{32}'' \times \frac{5}{32}''$	$\frac{29}{32}'' \times \frac{3}{16}''$	$1\frac{1}{8}'' \times \frac{7}{32}''$	$1\frac{1}{2}'' \times \frac{1}{4}''$

## PILLAR FILES



Pillar No. 6

Pillar Files are similar in shape to Hand Files but about two-thirds as wide. Double cut on the two flat sides only, the edges being safe.

Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 1 cut not made in three inch length. No. 3 cut not made in 10" and 12" lengths. No. 4 cut not made in 12" lengths. No. 6 cut made in 4" length only.

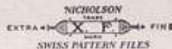
### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"	12"
$1\frac{3}{64}'' \times \frac{3}{64}''$	$\frac{23}{64}'' \times \frac{7}{64}''$	$1\frac{1}{32}'' \times \frac{7}{64}''$	$\frac{39}{64}'' \times 1\frac{1}{64}''$	$\frac{47}{64}'' \times 1\frac{1}{64}''$	$\frac{53}{64}'' \times 1\frac{1}{64}''$

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## PILLAR NARROW FILES



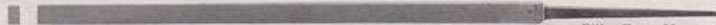
Pillar Narrow No. 2

Pillar Narrow Files are similar to Pillar Files, but narrower for the same length. Double cut on the two flat sides only, the edges being safe. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 00 cut not made in 3" length. No. 1 cut not made in 12" length. No. 3 cut not made in 3", 10" and 12" lengths. No. 4 cut not made in 12" lengths. No. 6 cut made in 3", 4" and 6" lengths only.

### APPROXIMATE SIZES OF FINISHED FILES

3" $\frac{1}{2}'' \times \frac{3}{4}''$	4" $\frac{3}{2}'' \times \frac{3}{4}''$	6" $2\frac{3}{4}'' \times \frac{9}{4}''$	8" $2\frac{9}{4}'' \times 1\frac{3}{4}''$	10" $3\frac{1}{2}'' \times 1\frac{3}{4}''$	12" $\frac{3}{8}'' \times \frac{5}{16}''$
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## PILLAR EXTRA NARROW FILES



Pillar Extra Narrow No. 4

Pillar Extra Narrow Files similar to Pillar and Pillar Narrow Files but narrower than the Pillar Narrow for their length. Cut on the two flat sides only, the edges being safe. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 1 cut not made in 12" length. No. 3 cut not made in 10" or 12" lengths. No. 4 cut not made in 12" lengths. No. 6 cut made in 3", 4" and 6" lengths only.

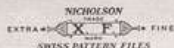
### APPROXIMATE SIZES OF FINISHED FILES

3" $\frac{3}{4}'' \times \frac{1}{2}''$	4" $1\frac{1}{4}'' \times \frac{7}{4}''$	6" $\frac{1}{4}'' \times \frac{3}{4}''$	8" $\frac{5}{16}'' \times 1\frac{3}{4}''$	10" $\frac{3}{8}'' \times 1\frac{3}{4}''$	12" $\frac{7}{16}'' \times \frac{1}{4}''$
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In addition to the regular widths, Pillar Extra Narrow Files are furnished in the following widths.

6" $\frac{1}{2}'' \times \frac{3}{4}''$ $\frac{3}{16}'' \times \frac{7}{4}''$
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## EQUALING FILES



Equaling No. 0

Equaling Files are parallel in both width and thickness throughout their length. Double cut on the two flat sides and single cut on both edges.

Made in lengths of 4, 6 and 8 inches and in cuts Nos. 00, 2 and 4.

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"
$1\frac{1}{2}'' \times \frac{3}{64}''$	$1\frac{1}{2}'' \times \frac{7}{64}''$	$\frac{3}{4}'' \times \frac{3}{64}''$

Equaling Files may be obtained in minimum quantities of one dozen in the following B & S gauges:

3"	4"	6"	8"
18 B & S (.040") and 20 B & S (.032") gauge	16 B & S (.051") and and 20 B & S (.032") gauge	10 B & S (.102"), 12 B & S (.081") and 14 B & S (.064") gauge	10 B & S (.102") gauge

## SQUARE FILES



Square No. 2

Square Files are square in section and taper on all four sides to a fine point. Double cut on all four sides. One safe side when so ordered. Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2, 3 and 4. No. 00 cut not made in 3" length. No. 1 cut not made in 3" and 10" lengths. No. 3 cut not made in 8" and 10" lengths.

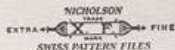
### APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	6"	8"	10"
$\frac{1}{16}''$	$\frac{3}{64}''$	$\frac{3}{32}''$	$\frac{1}{16}''$	$\frac{3}{64}''$

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## WARDING FILES



Warding No. 00

Warding Files are rectangular in section with thickness approximately one-eighth of their width, tapering to a point in width and tapering slightly in thickness. Double cut on the two flat sides and single cut on both edges. Made in lengths of 4, 6, 8 and 10 inches and in Cuts Nos. 0, 2 and 4. No. 4 cut not available in 10-inch length.

### APPROXIMATE SIZES OF FINISHED FILES

4" $\frac{3}{16}'' \times \frac{3}{4}''$	6" $\frac{1}{2}'' \times \frac{3}{4}''$	8" $2\frac{1}{2}'' \times \frac{1}{2}''$	10" $1\frac{1}{2}'' \times \frac{3}{4}''$
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Warding Files may be obtained in minimum quantities of one dozen in the following B & S gauges:

3" B&S gauge 18 (.040"), 20 (.032") 22 (.025")	4" B&S gauge 14 (.064"), 16 (.051") 18 (.040"), 20 (.032")	6" B&S gauge 11 (.091"), 13 (.072"), 14 (.064") 16 (.051"), 18 (.040"), 20 (.032")	8" B&S gauge 10 (.102")	10" B&S gauge 8 (.128")
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## CROCHET FILES



Crochet No. 0

Crochet Files taper to a point in both width and thickness and are made with both edges well rounded. Double cut on the flat sides and on both edges.

Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2 and 4. No. 1 cut not available in 3", 4", or 10" lengths. No. 4 cut not available in 3", 8" or 10" lengths.

### APPROXIMATE SIZES OF FINISHED FILES

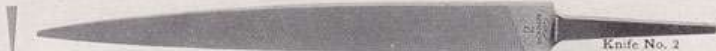
3" $1\frac{1}{4}'' \times \frac{5}{16}''$	4" $\frac{3}{8}'' \times \frac{1}{2}''$	6" $2\frac{1}{4}'' \times \frac{1}{4}''$	8" $1\frac{1}{2}'' \times \frac{3}{16}''$	10" $1\frac{3}{16}'' \times \frac{3}{16}''$
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## KNIFE FILES

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Knife Files are made from steel that is knife shaped, the included angle of the sharp edge being 10°. They taper in width and thickness to the point. Double cut on both flat sides and single cut on both edges. Made in lengths of 4, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2 and 4.

### APPROXIMATE WIDTH OF FINISHED FILES

4"	6"	8"
$3\frac{1}{4}$ "	$2\frac{1}{2}$ "	$2\frac{7}{12}$ "

## BARRETTE FILES



Barrette Files are flat on one side, the back being beveled at both edges as indicated by the cross section, the included angle being 33°. Double cut on the wide flat side only, the back and the beveled edges being safe. Made in lengths of 3, 4, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2 and 4, No. 1 cut not made in 8" length.

### APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	6"	8"
$\frac{3}{4}$ "	$\frac{1}{2}$ "	$2\frac{1}{12}$ "	$\frac{3}{4}$ "



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## THREE SQUARE FILES

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Three Square No. 0

Three Square Files are triangular in section with angles of 60°, taper to a point and have sharp corners. Double cut on the three sides and single cut on the edges.

Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2, 3 and 4. No. 00 cut not made in 3" length. No. 1 cut not made in 10" length. No. 3 cut not made in 3", 8" or 10" lengths.

### APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	6"	8"	10"
$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{11}{16}$ "	$\frac{15}{16}$ "	$\frac{19}{16}$ "

## METAL SAW FILES



Metal Saw No. 2

DISCONTINUED

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## SLITTING FILES

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Slitting No. 0

Slitting Files are made of double angular section, the included angle between the sides being approximately  $18^\circ$ . Double cut on the four sides and single cut on the two sharp edges.  
Made in lengths of 4 and 6 inches and in cuts Nos. 00 and 2

### APPROXIMATE WIDTH OF FINISHED FILES

4"	6"
$\frac{3}{16}$ "	$\frac{5}{8}$ "

## HALF ROUND RING FILES



Half Round Ring No. 00

For use by jewelers, particularly ring manufacturers, Half Round Ring Files are 6 inches in length and are made in cuts Nos. 00, 0, 1, 2 and 4.

The dimensions of the finished files are  $2\frac{3}{4}$ " x  $\frac{1}{8}$ ".

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## HALF ROUND FILES



Half Round No. 00

Half Round Files taper in width and thickness to the point. Double cut on both flat and half round sides. Made in lengths of 3, 4, 5, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. Nos. 1, 3 and 4 cuts not made in 12" lengths. No. 6 cut made in 6" only.

### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	5"	6"	8"	10"	12"
$\frac{3}{32}'' \times \frac{3}{32}''$	$\frac{3}{16}'' \times \frac{3}{16}''$	$\frac{7}{16}'' \times \frac{7}{16}''$	$\frac{3}{16}'' \times \frac{3}{16}''$	$\frac{45}{64}'' \times \frac{3}{16}''$	$\frac{15}{16}'' \times \frac{1}{16}''$	$1\frac{1}{16}'' \times \frac{3}{16}''$

## CROSSING FILES



Crossing No. 4

Crossing Files are made of double circular section, one side having the same radius as the Half Round File and the other side having a flatter curve or larger radius. They taper to a point in both width and thickness. Double cut on both sides. Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. Nos. 00 and 4 cuts not made in 10" lengths. No. 1 cut not made in 3" and 10" lengths. Nos. 3 and 6 cuts not made in 3", 4", 8" or 10" lengths.

### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"
$\frac{5}{16}'' \times \frac{3}{32}''$	$\frac{3}{16}'' \times \frac{1}{16}''$	$\frac{5}{8}'' \times \frac{3}{16}''$	$\frac{13}{16}'' \times \frac{1}{4}''$	$1\frac{1}{2}'' \times \frac{3}{32}''$

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## ROUND FILES



Round No. 2

Round Files taper throughout their length to a fine point. Double cut.

Made in lengths of 3, 4, 5, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 1 cut not made in 12" length.

No. 3 cut not made in 10" or 12" lengths. No. 4 cut not made in 12-inch length. No. 6 cut not made in 5, 8, 10 or 12-inch lengths.

### APPROXIMATE DIAMETER OF FINISHED FILES

3"	4"	5"	6"	8"	10"	12"
$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{2}{16}$ "	$\frac{2}{16}$ "

## ROUND STRAIGHT FILES



Round Straight No. 0

Round Straight Files are made of the same sizes of steel as Round Files but are parallel throughout their length. Double cut.

Made in lengths of 4, 6 and 8 inches and in cuts Nos. 00, 0, 2 and 4.

### APPROXIMATE DIAMETER OF FINISHED FILES

4"	6"	8"
$\frac{1}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "

The diameters given above are regular, and are furnished unless the customer specifies otherwise. Round Straight Files are also furnished in the following diameters: 4"— $\frac{1}{16}$ ",  $\frac{3}{16}$ "; 6"— $\frac{1}{8}$ ",  $\frac{3}{16}$ "; 8"— $\frac{1}{16}$ ",  $\frac{3}{16}$ ".

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## PIPPIN FILES

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Pippin No. 0

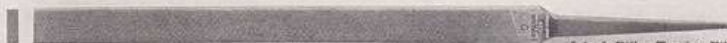
Pippin Files have rounded backs tapering to a sharp edge and they taper in both width and thickness to a point. Double cut. These files are sometimes called "Apple Seed" files.

Made in lengths of 4, 6 and 8 inches and in cuts Nos. 00, 0 and 2.

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"
$\frac{3}{16}'' \times \frac{1}{8}''$	$\frac{1}{16}'' \times \frac{3}{16}''$	$\frac{1}{8}'' \times \frac{3}{16}''$

## PILLAR TESTING FILES

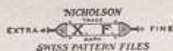


6-inch Pillar Testing File No. 0

Testing Files are made especially to be used as standards for testing the hardness of tempered tools or metals. Double cut with a special form and style of tooth particularly adapted to the very severe work for which these files are designed.

Made in Pillar section 6 inches in length, cuts Nos. 0 and 1; and in Pillar Narrow section 8 inches in length, cuts Nos. 0 and 1.

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## CORRUGATING FILES



6-inch Hand Corrugating No. 4

Corrugating files are made for corrugating barbers' shears and other edged tools. They are regularly stocked for corrugating when stroked straight ahead parallel to the axis of the file or when stroked with a sliding motion to the right or the left.

6" Hand Corrugating files, also called Straight Rowing files, are designed to corrugate when stroked straight ahead. The approximate cross section dimensions are  $2\frac{1}{2}'' \times \frac{3}{16}''$ .

Cuts . . . . .	No. 0	No. 2	No. 4
Corrugations per inch . . . .	50	84	120

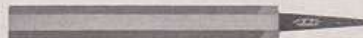
6" Pillar Corrugating—Left and Right Hand Serrating are designed to corrugate when stroked to the left and right. The approximate cross section dimensions are  $1\frac{1}{2}'' \times \frac{3}{16}''$ .

Cuts . . . . .	No. 0	No. 1	No. 2	No. 3	No. 4
Corrugations per inch . . . .	56	76	96	116	136

## SCREW HEAD FILES



Screw Head Plain



Screw Head Tanged

Screw Head Files are made for enlarging and clearing out the slots in the heads of screws. Used principally by watch makers and jewelers. They are made in two styles, Plain and Tanged.

Made in one size only, 3 inches long and in one cut. Approximate size  $\frac{3}{8}'' \times \frac{1}{16}''$ .

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## JOINT FILES



Round Edge Joint



Square Edge Joint

Joint Files are parallel in width and thickness and are made with round or square edges, thick or thin. Double cut on the edges only, the sides being safe. Made in lengths of 4 inches and in cut No. 2.

### APPROXIMATE SIZES OF FINISHED FILES

	4"
Thick	$1\frac{1}{32}$ " x $\frac{5}{64}$ "
	4"
Thin	$1\frac{1}{32}$ " x $\frac{3}{64}$ "

JOINT FILES WITH ROUND EDGE are made in the following B & S gauges:

4"  
9 to 26 gauge

JOINT FILES WITH SQUARE EDGE are made in the following B & S gauges:

4"  
16, 18 and 20 gauge

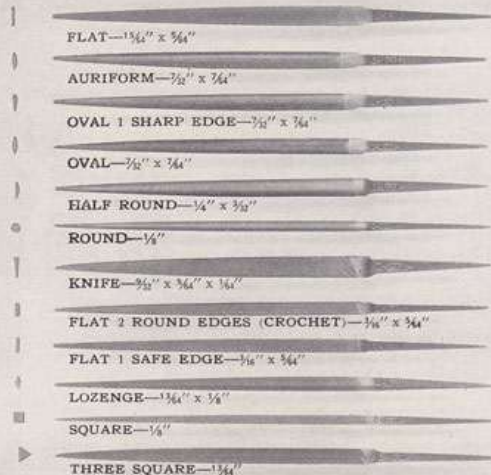
### B & S GAUGES AND THEIR DECIMAL EQUIVALENTS

B & S No. 9	-.114"
B & S No. 10	-.102"
B & S No. 11	-.091"
B & S No. 12	-.081"
B & S No. 13	-.072"
B & S No. 14	-.064"
B & S No. 15	-.057"
B & S No. 16	-.051"
B & S No. 17	-.045"
B & S No. 18	-.040"
B & S No. 19	-.036"
B & S No. 20	-.032"
B & S No. 21	-.028"
B & S No. 22	-.025"
B & S No. 23	-.022"
B & S No. 24	-.020"
B & S No. 25	-.018"
B & S No. 26	-.016"

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## 3 1/2" DIE SINKERS FILES



Die Sinkers Files are designed for die sinkers for dressing and finishing dies of all kinds.

They are made in twelve shapes as illustrated,  $3\frac{1}{2}$  inches long, and in cuts Nos. 0 and 2.

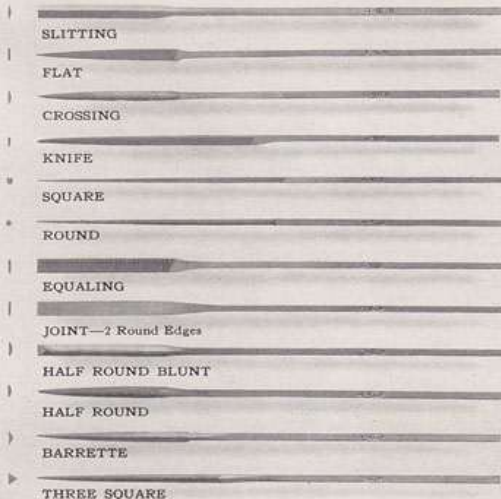
In assorted sets they are supplied in orange and blue plastic boxes.



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5 1/2" SQUARE HANDLE NEEDLE FILES



Square Handle Needle or Escapement Files are made especially for watch and clock makers.

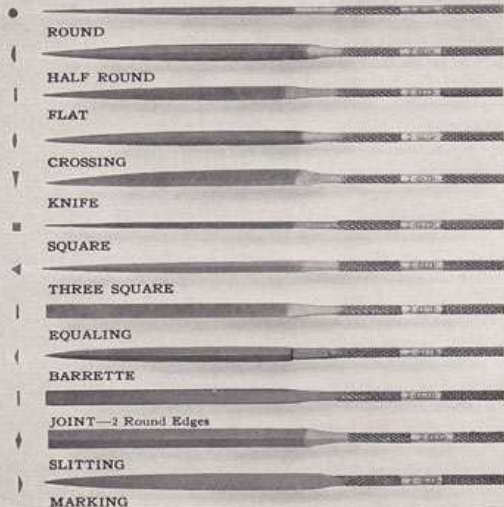
They are made in twelve different shapes as illustrated, in one size only, 5 1/2 inches over-all, and in cuts Nos. 0, 2, 4 and 6.

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## ROUND HANDLE NEEDLE FILES WITH KNURLED HANDLES

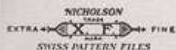
NICHOLSON  
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Round Handle Needle Files are used principally by jewelers, die makers, watchmakers and fine toolmakers. They are made in the twelve different shapes illustrated and in Crochet shape in over-all lengths of 4", 5½" and 6¼" and in cuts Nos. 0, 2, 4 and 6. In the 4" length, Oval is furnished instead of Crossing.

These files have knurled Handles and when purchased in assorted sets, the twelve illustrated shapes are supplied in orange and blue plastic boxes.

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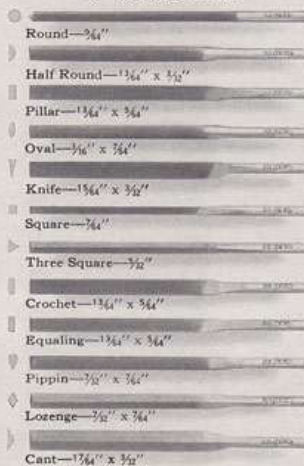
## 3 1/4" BENCH FILING MACHINE FILES



### 1/4" ROUND SHANK



### 1/4" ROUND SHANK



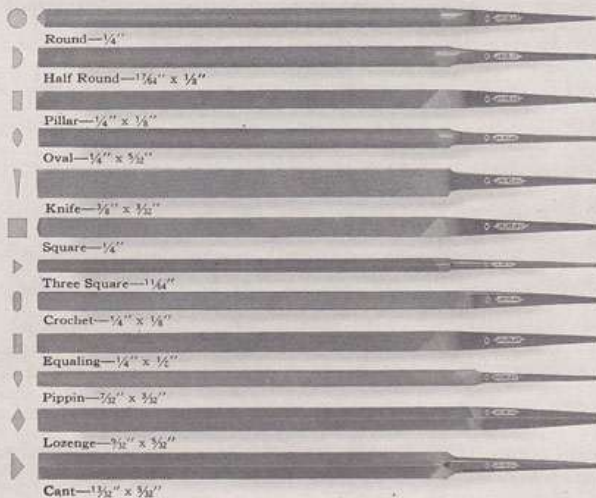
Bench Filing Machine Files are for use in machines for filing dies and patterns. Direction of cutting stroke is towards the shank. They are 3 1/4" over-all and have 1/4" or 1/8" Round shanks. Made in twelve different shapes as illustrated. When purchased in assorted sets these files are supplied in orange and blue plastic boxes. Made in cuts Nos. 00 and 2.

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## 5" PARALLEL MACHINE FILES

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Parallel Machine Files are made for use in filing machines.

Made in cuts Nos. 00 and 2. Designed to cut in the regular manner with the cutting action taking place when the direction of the cutting stroke is towards the point and away from the tang.
























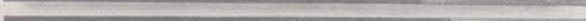
# NICHOLSON FILE COMPANY . . . X.F. SWISS PATTERN FILES



## 8" PARALLEL MACHINE FILES



8" Parallel Machine Files are made for Filing Machines of the Oliver Type, made in twelve different shapes as illustrated, 8" over-all and in cuts Nos. 00 and 2, direction of cutting stroke is towards the shank. Supplied in assortments or in any quantity of any shape and size. Prices on request.

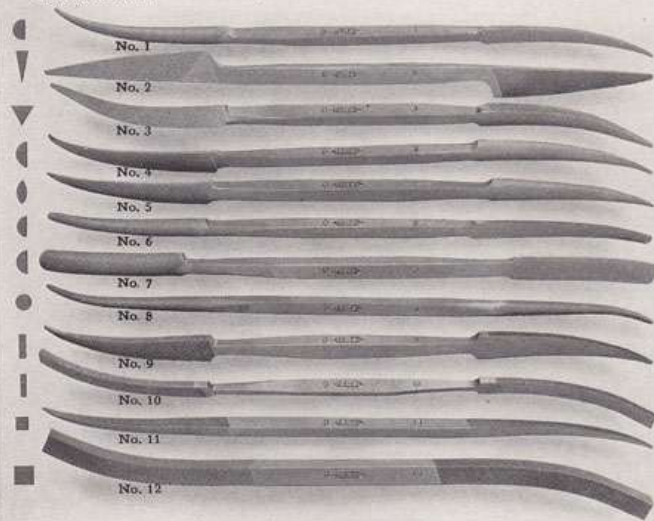
		Round— $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ "
		Half Round— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{1}{2}$ "
		Pillar— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ "
		Oval— $1\frac{1}{2}$ "
		Knife— $1\frac{1}{2}$ "
		Square— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ "
		Crochet— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ "
		Equaling— $\frac{3}{8}$ "
		Three Square— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ "
		Pippin— $1\frac{3}{4}$ "
		Lozenge— $1\frac{1}{2}$ "
		Cant— $2\frac{3}{4}$ "

# X.F. SWISS PATTERN FILES . . . NICHOLSON FILE COMPANY

NICHOLSON  
MADE  
EXTRA **X F** FINE  
SWISS PATTERN FILES

## 7½" SILVERSMITHS RIFFLERS

NICHOLSON  
MADE  
EXTRA **X F** FINE  
SWISS PATTERN FILES




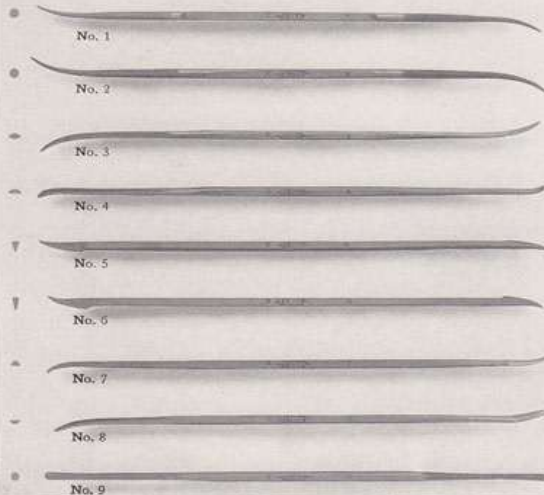
Silversmiths Rifflers are made in 7½" length only, in twelve shapes as illustrated, and in cuts Nos. 0 and 2. May be purchased in assortments or in any quantity of each shape.

# NICHOLSON FILE COMPANY... X.F. SWISS PATTERN FILES

NICHOLSON  
TRADE  
MARK  
EXTRA  FINE  
SWISS PATTERN FILES

6 1/2" DIE SINKERS RIFFLERS

NICHOLSON  
TRADE  
MARK  
EXTRA  FINE  
SWISS PATTERN FILES



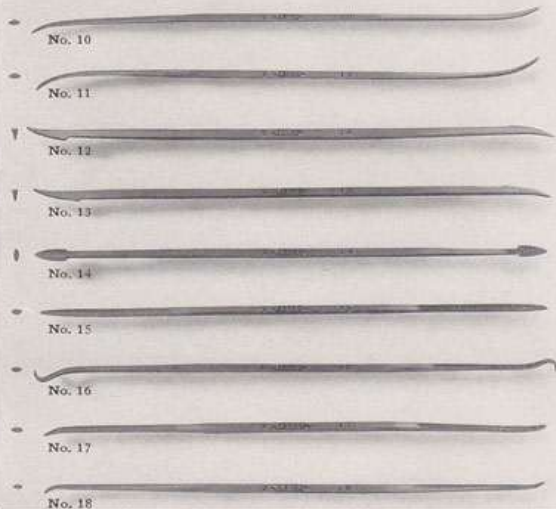
Die Sinker Riffilers are made in 6 1/2" length and in cuts Nos. 0, 2 and 4. These Riffilers are made in shapes Nos. 1 to 18 as illustrated on this and the following page and may be obtained in an assortment of one each of these eighteen shapes or in any quantity of each shape.

# X.F. SWISS PATTERN FILES . . . NICHOLSON FILE COMPANY

NICHOLSON  
TRADE  
MARK  
EXTRA →  FINE  
←  
SWISS PATTERN FILES

6½" DIE SINKERS RIFFLERS

NICHOLSON  
TRADE  
MARK  
EXTRA →  FINE  
←  
SWISS PATTERN FILES



Die Sinkers Rifflers are made in 6½" length and in cuts Nos. 0, 2 and 4. These Rifflers are made in shapes Nos. 1 to 18 as illustrated on this and the preceding page and may be obtained in an assortment of one each of these eighteen shapes or in any quantity of each shape.



# NICHOLSON FILE COMPANY . . . X.F. SWISS PATTERN FILES



## 3" BROACH FILES



### BROACH FILES NOS. 65 TO 40 TWIST DRILL WIRE GAUGE

Gauge	Diam.	Gauge	Diam.
65	.035"	52	.0635"
64	.036"	51	.067"
63	.037"	50	.070"
62	.038"	49	.073"
61	.039"	48	.076"
60	.040"	47	.0785"
59	.041"	46	.081"
58	.042"	45	.082"
57	.043"	44	.086"
56	.0465"	43	.089"
55	.052"	42	.0935"
54	.055"	41	.096"
53	.0595"	40	.098"

Broach Files are made in round section, parallel throughout their lengths.

Made in one length only, 3 inches over-all and in one cut, which is approximately the same as the cut on a 3" Round No. 0.

# COIL FILES . . . . . NICHOLSON FILE COMPANY



## TUNGSTEN AND CONTACT POINT FILES



Nicholson Tungsten Point File



Nicholson Contact Point File

Nicholson Tungsten Point Files are for dressing distributor points that are tipped with Tungsten, Iridium or other similar metals. These Files are  $5\frac{1}{4}$ " over-all and are double cut. They have a chisel tip to conveniently enter slots or gaps and the extreme end of the handle is a thickness gauge for Spark Plugs. Supplied with Orange Handles.

Nicholson Contact Point Files are for cleaning dirt and corrosion from contact points and spark gaps of magnetos, coils, electric bells, switches, etc. These files are  $5\frac{1}{4}$ " long and are also double cut.

# NICHOLSON FILE COMPANY . . . TOOLS AND SPECIALTIES



## NICHOLSON TOOLS AND SPECIALTIES

### BENT RIFFLERS HANDLED



Bent Riffilers are used principally by Wood Carvers, Metal and Stone Workers for shaping and finishing in and about the many irregular places of Pattern Work.

They are made in six different shapes and styles of cuts as illustrated. The over-all length of these tools, including the handle, is approximately 7 $\frac{1}{4}$  inches.





NICHOLSON TOOLS AND SPECIALTIES



MACHINISTS SCRAPERS

Machinists Scrapers are made in six shapes as illustrated which are sufficiently varied to make them adaptable to a wide range of work. They are furnished "dead hard." The over-all length of these tools including the handle is approximately 9 1/4 inches.



Three Square—4" x 3/4", 60° Angle—Hollow Ground



Cant Blunt—4" x 1 1/2", 110° Angle



Half Round Blunt—4" x 1 3/4" x 5/16"



Round Blunt—4" x 1 1/2"



Mill Blunt—4" x 1 3/4" x 3/16"



Three Square Blunt—4" x 3/4", 60° Angle

# NICHOLSON FILE COMPANY . . . TOOLS AND SPECIALTIES



## NICHOLSON TOOLS AND SPECIALTIES



### FILE CARDS AND BRUSHES

These File cleaners are made in two styles as illustrated. The File Card for more general use and the File Brush (combining the Brush and Card) for use especially on the finer cut files. The over-all length of these cleaners is 10 inches. Packed six in a box.



File Card



File Brush

# TOOLS AND SPECIALTIES . . . NICHOLSON FILE COMPANY

## NICHOLSON TOOLS AND SPECIALTIES

### METAL FERRULED HANDLES

These handles are made from seasoned White Birch with Nickel Plated Steel Ferrules. Shellac finish.



#### SIZES OF HANDLES RECOMMENDED FOR SOME OF THE MORE COMMON FILES

	6"	7"	8"	10"	12"	14"	16"
Flat, Half Round, Hand . . .	3	..	2	1	1	0	0
Square, Round . . . . .	15*	..	3	2	1	1	0
Three Square . . . . .	3	..	2	2	1	..	..
Pillar . . . . .	3	..	2	1	1	..	..
Warding, Knife . . . . .	4	..	3	1	..	..	..
Mill . . . . .	4	3	3	2	1	0	0
Slim Taper . . . . .	4	3	3	3	2	..	..
Extra Slim Taper . . . . .	14*	4	3	..	..	..	..
Double Extra Slim Taper . .	13*	4	4	..	..	..	..

\*These are straight Ferruled Handles illustrated on page 69.

#### APPROXIMATE SIZES IN INCHES

No. 0	No. 1	No. 2	No. 3	No. 4
5¼" x 1½"	4¾" x 1½"	4½" x 1¾"	4¼" x 1½"	3¾" x 1½"

# NICHOLSON FILE COMPANY . . . TOOLS AND SPECIALTIES

## NICHOLSON TOOLS AND SPECIALTIES

### STRAIGHT FERRULED HANDLES

These handles are made of kiln dried birch, stained and waxed. Steel ferrules inserted.

#### SIZES OF HANDLES RECOMMENDED FOR SOME OF THE MORE COMMON FILES

	3"	3½"	4"	4½"	5"
Square, Round, Pippin . . . . .	14	..	14	..	15
Warding, Knife, Barrette . . . . .	15	..	4†	..	3†
Hand, Pillar, Equalling, Crossing . . . . .	15	..	4†	..	..
Half Round . . . . .	14	..	4†	..	3†
Three Square, Pillar Narrow . . . . .	14	..	15	..	4†
Slim . . . . .	..	..	14	15	15
Extra Slim . . . . .	..	..	13	14	15
Double Extra Slim . . . . .	..	..	13	13	14
Die Sinkers Files . . . . .	..	12	..	..	..

†These are Metal Ferruled handles listed on page 68.

#### APPROXIMATE SIZE IN INCHES

No. 11	No. 12	No. 13	No. 14	No. 15
3¾" x ¼"	4¼" x 1½"	4½" x 3¼"	5" x 3¼"	5½" x 4¼"



## ALPHABETICAL INDEX, PACKING AND APPROXIMATE WEIGHTS

In Pounds and Ounces Per Dozen, in Regular Cardboard Boxes

Kinds	Page	Number of Files per Box	APPROXIMATE WEIGHTS PER DOZEN IN POUNDS AND OUNCES <sup>1</sup>														
			3"	4"	4½"	5"	5½"	6"	6½"	6¾"	7"	8"	9"	10"	12"	14"	16"
Aluminum Type "A" Flat	29	*8"	..	..	..	..	..	1-9	..	..	..	3-12	..	7-6	11-6	..	..
Aluminum Type "A" Half Round	29	*8"	..	..	..	..	..	1-4	..	..	..	2-11	..	6-3	9-14	..	..
Auger Bit	33	1 doz.	..	..	..	..	..	..	..	..	-9	..	..	..	..	..	..
Bandsaw Blunt	12	1 doz.	..	..	..	..	..	2-6	..	..	..	4-12	..	..	..	..	..
Bandsaw Blunt Slim	12	1 doz.	..	..	..	..	..	1-2	..	..	..	3-1	..	..	..	..	..
Bandsaw, Skiptooth, Blunt	15	1 doz.	..	..	..	..	..	-11	..	..	..	..	..	..	..	..	..
Bandsaw, Skiptooth, Diamond Point	15	1 doz.	..	..	..	..	..	-10½	..	..	..	..	..	..	..	..	..
Bandsaw Taper 6" No. 63	12	1 doz.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bandsaw Taper 6" No. 64	12	1 doz.	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Bandsaw Taper 7" No. 73	12	1 doz.	..	..	..	..	..	-15	..	..	..	..	..	..	..	..	..
Bandsaw Taper 7" No. 74	12	1 doz.	..	..	..	..	..	..	..	..	2-6	..	..	..	..	..	..
Berrettie (X.F.)	46	*8"	-3	-9	..	..	..	..	..	..	1-11	..	..	..	..	..	..
Bench Filing Machine (X.F.)	57	1 doz.	..	..	..	..	..	1-5	..	..	..	2-14	..	..	..	..	..
Bent Riffers	65	½ doz.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bodfiles	28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Brass, Half Round	30	*8"	..	..	..	..	..	..	..	..	..	3-11	..	6-3	9-8	..	..
Brooch (X.F.)	63	1 doz.	-1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Brushes, File	67	½ doz.	..	..	..	..	..	..	..	..	..	..	..	5-	..	..	..
Cabinet File	34	*8"	..	..	..	..	..	..	..	..	..	2-12	..	4-13	8-	..	..
Cabinet Rasp	34	*8"	..	..	..	..	..	1-6	..	..	..	2-13	..	4-13	8-6	13-11	..
Cantsaw	13	1 doz.	..	..	..	..	..	1-5	..	..	2-4	2-13	..	5-6	..	..	..
Cards, File	67	½ doz.	..	..	..	..	..	..	..	..	..	..	..	3-8	..	..	..
Chain Saw—Flat	18	1 doz.	..	..	..	..	..	..	..	..	..	2-13	..	..	..	..	..
Chain Saw—Flat, Narrow, Code No. 188	18	1 doz.	..	..	..	..	..	..	..	..	..	1-8	..	..	..	..	..
Chain Saw—Lozenge, Code No. 60	17	1 doz.	..	..	..	..	..	-15	..	..	..	..	..	..	..	..	..
Chain Saw—Round, Code No. 183	17	1 doz.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chain Saw—Round, Code No. 1835	17	1 doz.	..	..	..	..	..	..	..	..	..	1-1	..	..	..	..	..
Chain Saw—Round, Code No. 184	17	1 doz.	..	..	..	..	..	..	..	..	..	1-8	..	..	..	..	..
Chain Saw—Round, Code No. 185	17	1 doz.	..	..	..	..	..	..	..	..	..	3-5	..	..	..	..	..
Chain Saw—Round, Code No. 186	17	1 doz.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chain Saw—Round, Code No. 189	17	1 doz.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chain Saw—Square, Code No. 26	18	1 doz.	..	..	..	..	..	-14	..	..	..	..	..	..	..	..	..
Cleaners, File	67	½ doz.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Contact Point	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Corrugating, Hand (X.F.)	52	1 doz.	..	..	..	..	..	2-5	..	..	..	..	..	..	..	..	..
Corrugating Pillar (X.F.)	52	1 doz.	..	..	..	..	..	1-10	..	..	..	..	..	..	..	..	..
Crochet (X.F.)	45	*6"	-4	-7	..	..	..	1-1	..	..	..	3-7	..	4-	..	..	..
Crosscut, Great American	13	*10"	..	..	..	..	..	1-11	..	..	..	..	..	6-	..	..	..
Crosscut, Special	9	*10"	..	..	..	..	..	1-3	..	2-	2-14	..	..	5-5	..	..	..
Crossing (X.F.)	49	*6"	-4	-10	..	..	..	1-14	..	..	4-	..	..	6-2	..	..	..
Die Cast, Mill Bastard	32	*10"	..	..	..	..	..	1-3	..	..	..	2-11	..	5-4	9-1	13-2	..
Die Cast, Half Round Smooth	32	*8"	..	..	..	..	..	1-7	..	..	..	3-2	..	5-13	9-14	16-	..
Die Sinkers (X.F.)	54	1 doz.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Die Sinkers Riffers	61, 62	1 doz.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Doctor Blade	27	½ doz.	..	..	..	..	..	..	..	..	-6	..	..	..	..	..	..
Double Ender, with handle	11	1 doz.	..	..	..	..	..	-12	..	..	-12	1-5	1-15	2-6	..	..	20-13
Double Extra Slim Taper	11	1 doz.	-3	..	..	-5	..	-7	..	..	-11	1-1	..	..	..	..	..

<sup>1</sup>This size and smaller sizes, packed 1 dozen to a box. Larger sizes packed 6 to a box.  
<sup>1</sup>Figures before Dash (-) indicate pounds. Figures after Dash (-) indicate ounces.



## ALPHABETICAL INDEX, PACKING AND APPROXIMATE WEIGHTS—Continued

In Pounds and Ounces Per Dozen, in Regular Cardboard Boxes

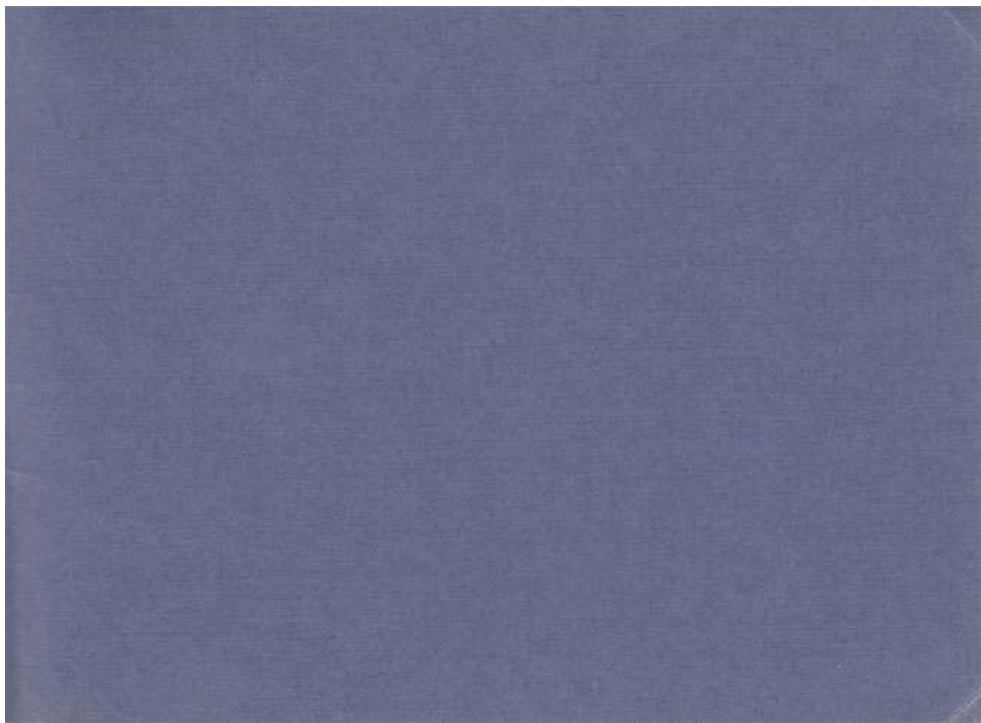
Kinds	Page	Number of Files per Box	APPROXIMATE WEIGHTS PER DOZEN IN POUNDS AND OUNCES <sup>1</sup>															
			3"	4"	4½"	5"	5½"	6"	6¼"	6½"	7"	8"	9"	10"	12"	14"	16"	18"
Equaling (X.F.)	44	*6"		- 8				1- 5				3- 5						
Extra Slim Taper	11	1 doz.		- 4		- 7	- 9	-11			1- 2							
Flat	19	*8"		- 8				1- 9				3-12	7- 6	11- 6	16-	24- 2	31- 7	
Foundry, Flat, Bastard	28	*8"										3-12	7- 6	11- 6	16-			
Foundry, Half Round Bastard	28	*8"										3- 2	5-13	9-14	16-			
4-in-Hand (formerly Shoe Rasp)	35	½ doz.										4- 1	5-10	6-14				
Half Round	21	*8"		-10				1- 7				3- 2	5-13	9-14	16-	22-12		
Half Round (X.F.)	49	*6"		- 8		-12		1- 4				2-11	6- 3	9- 8				
Hand	19	*8"						1-12				3-14	7-10	11- 8	16-12			
Hand (X.F.)	42	*6"		- 7	-14			2- 5				4- 9	8-	14- 8				
Handles, Metal Ferruled	68	1 doz.																
Handles, Straight Ferruled	69																	
Handy File	31	1 doz.										5-11						
Holders, Superior File	40	1 doz.																
Horse Rasp, Plain—Regular	37	½ doz.												13-12	17-10	26-11		
Horse Rasp, Plain—Slim	37	½ doz.															28-	25-15
Horse Rasp, Tanged—Regular	37	½ doz.															26-	36-
Horse Rasp, Tanged—Thin	37	½ doz.															23- 4	
Improved Taper (6x¼)	15	1 doz.						3-13										
Improved Taper (6x¼)	15	1 doz.						5- 6¼										
Joint (X.F.)	53	1 doz.		- 5														
Knife	26	1 doz.		- 7				1-				2- 3	4- 3					
Knife (X.F.)	46	1 doz.		- 7				1- 2				2- 3						
Last Makers Rasps and Files	35	*8"																
Lathe, Long Angle	29	½ doz.											3-12	7- 6	11- 6	16-		
Lead Float, Flat	31	*8"											3- 2	7- 6	11- 6			
Lead Float, Half Round	31	*8"											3- 2	5-13	9-14			
Machinist's G.P. (General Purpose)	27	*8"																
Machinists Scrapers	66	½ doz.												3-12	7- 6	11- 6	16-	
Mill	8	*10"		- 6				1- 3				1-15	5- 4	9- 1	13- 2	20-10		
Mill, 1 Round Edge	9	*10"						1- 2				2-10	5- 4	8-15				
Mill, 2 Round Edges	9	*10"						1- 2				2- 9	5-					
Needle, Round Handle (X.F.)	36	1 doz.		- 2			- 4	- 6										
Needle, Square Handle (X.F.)	35	1 doz.					- 3											
Parallel Machine, 5" (X.F.)	58	1 doz.																
Parallel Machine, 8" (X.F.)	59	1 doz.																
Pattern Makers Rasps	35	*8"																

<sup>1</sup>This size and smaller sizes, packed 1 dozen to a box. Larger sizes packed 6 to a box.  
<sup>2</sup>Figures before Dash (-) indicate pounds. Figures after Dash (-) indicate ounces.

**ALPHABETICAL INDEX, PACKING AND APPROXIMATE WEIGHTS—Continued**  
**In Pounds and Ounces Per Dozen, in Regular Cardboard Boxes**

Kinds	Page	Number of Files per Box	APPROXIMATE WEIGHTS PER DOZEN IN POUNDS AND OUNCES†														
			3"	4"	4½"	5"	5½"	6"	6¼"	6½"	7"	8"	9"	10"	12"	14"	16"
Pillar	25	"10"						1-13				3- 0	6-13	11- 9	17-12		
Pillar (X.F.)	42	"6"	-5	-10				1-10				3- 8	6- 3	9-12			
Pillar Extra Narrow (X.F.)	43	1 doz.	-3	- 5				-13				1-15	3-11	6-			
Pillar Narrow (X.F.)	43	"6"	-4	- 8				1- 4				2-10	5- 3	8- 8			
Pillar Narrow Testing (X.F.)	51	½ doz.						1-10				2-10					
Pillar Testing (X.F.)	51	1 doz.						1-10									
Pippin (X.F.)	51	1 doz.	- 7					3- 1				1-13					
Planer Knife	9	1 doz.										2-13	3- 1				
Plastics, Files for	28																
Pruning Saw	16	1 doz.						2- 3									
Ring, Half Round (X.F.)	48	1 doz.						1- 4									
Round	23	"10"	- 4					-12		1- 3	1-12		3- 4	6-12	12-	19- 8	
Round (X.F.)	50	1 doz.	-1	- 4	- 6			-11			1- 5		2-11	4-10			
Round Straight (X.F.)	50	1 doz.	- 4					-14			1-12						
Screw Head (X.F.), Plain	52	1 doz.	-2														
Screw Head (X.F.), Tanged	52	1 doz.	-3														
Sector	14	1 doz.						1- 4									
Shear Tooth, Flat	30	"8"						1- 9				3-12	7- 6	11- 6	16-		
Shear Tooth, Half Round	30	"8"						1- 7				3- 2	5-13	9-14	16-		
Shoe Rasp, Half Round	35	½ doz.										4- 1	5-10	6-14			
Silverman's Riffler	60	1 doz.															
Slit Taper	11	"10"	- 5	- 9				-15		1-11	2-11		4-14				
Slitting (X.F.)	48	1 doz.	- 6					-14									
Square	24	"10"	- 4					-14			1-15		3-13	8- 8	15-	25-	
Square (X.F.)	44	1 doz.	-2	- 4				-10			1- 8		3-				
Stainless Steel, Files for	28																
Superior Milled Tooth—Flexible	39	"10"										2- 5	4- 8	6- 7	8- 9		
Superior Milled Tooth—Flat	39	"8"										2-12	3-14	9- 9	17-		
Superior Milled Tooth—Half Round	39	"8"										3- 8	6- 5	11- 5	17- 9		
Super-Shear	38	"8"										3-12	3-14	9- 9	17-		
Taper, Regular	11	1 doz.						2-		3- 2	4- 4		7- 8				
Taper, Type B	16																
Three Square	25	"10"						1-13				4- 4	7- 8	11- 6			
Three Square (X.F.)	47	"6"	-3	- 6				1- 1				2-10	4-11				
Tungsten Point	64																
Warding	26	1 doz.	- 3					-12				1- 9	2-14	3-			
Warding (X.F.)	45	1 doz.	- 5					-13				1-10	2-15				
Webaw	14	1 doz.															
Weed's Special	12	1 doz.				2- 3	2- 7	3-									
Western Cut	16					-12½	-13	1-2½									
Wood File, Flat	33	"8"										3-12	7- 6	11- 6	16-		
Wood File, Half Round	33	"8"										3- 3	5-14	9-14	16-		
Wood Rasp, Flat	36	"8"										3- 9	7-	11-10	18-11		
Wood Rasp, Half Round	36	"8"						1- 8				3- 4	6-	10- 6	16-12	24- 2	
Wood Rasp, Round	35	"10"						-12				1-12	3- 4	6-12	12-		

\* This size and smaller sizes, packed 1 dozen to a box. Larger sizes packed 6 to a box.  
 † Figures before Dash (-) indicate pounds. Figures after Dash (-) indicate ounces.



NICHOLSON  
U.S.A.  
TRADE MARK