

The Nicholson logo, featuring the word "Nicholson" in a large, white, serif font with a registered trademark symbol (®) to its upper right.

- Files & Rasps
- Machetes
- Handsaws
- Hacksaws

In 1864, the Nicholson File Company became the first successful manufacturer of machine-made files. Today, Nicholson® is the most recognized brand of files in the world. Over the years, the Nicholson product line has increased in scope and size, and now includes files, rasps and handsaws, all manufactured to uncompromising standards of quality.



Nicholson  
Cat No. 1133601

COOPER Hand Tools

Made in China by Cooper Hand Tools  
Manufactured in Mexico by Cooper Hand Tools  
Manufactured in England by Cooper Hand Tools

# Nicholson® Table Of Contents

The following manuals and instruction leaflets are available.  
Please ask your local distributor or Cooper Hand Tools representative for copies.

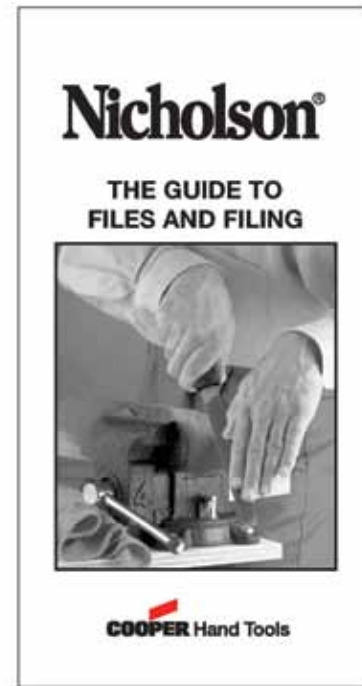
- The Guide to Files and Filing #5530704
- Nicholson File Training Poster #55891

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


The Nicholson File Operations facilities in Sorocaba, Brazil and Cali, Colombia conform to Quality Standards ISO 9001



5530704

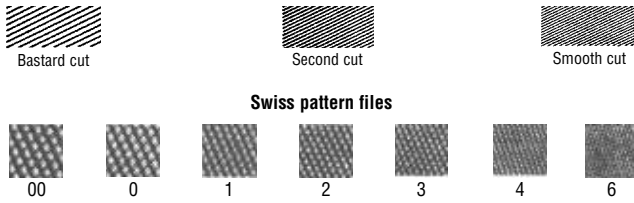
## Safety Precautions

 <b>WARNING</b>	 <b>AVERTISSEMENT</b>	 <b>ADVERTENCIA</b>
Risk Of Eye Injury Wear ANSI Approved Eye Protection	Risque de dommages d'oeil Protection d'oeil approuvée de l'usage A.N.S.I.	Riesgo de lesión del ojo Protección de ojo aprobada del desgaste ANSI

 <b>WARNING</b> Wear safety goggles to protect your eyes. Never use a file without a tight fitting handle.
 <b>AVERTISSEMENT</b> Porter des lunettes de protection. Ne jamais utiliser une lime sans poignée bien ajustée.
 <b>ADVERTENCIA</b> Use gafas de seguridad para proteger sus ojos. Nunca utilice una lima con el mango suelto.

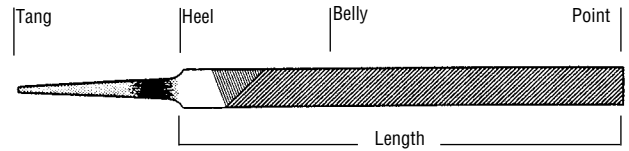
# File Terminology

## Coarseness



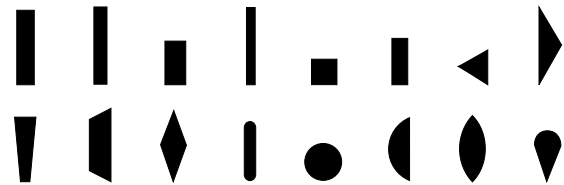
- Work to be accomplished, roughing or finishing, will determine type of teeth and coarseness for each application
- Most American pattern files are available with 3 grades of cut: bastard-cut, second-cut and smooth-cut
- Swiss pattern files are available in seven cuts: No. 00, 0, 1, 2, 3, 4, and 6
- The degree of coarseness is greater in longer files, but differences between bastard, second and smooth are proportionate

## Length



- Length is measured exclusive of tang, from point to heel, unless specified otherwise
- Desired stroke length, type of material and size will determine length required

## Shape

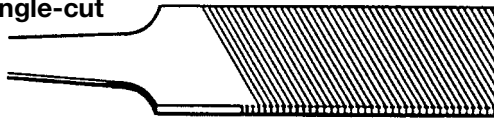


- Area to be filed will determine specific cross-section (round, square, flat, etc.) to be used

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# Kinds of Teeth

## Single-cut



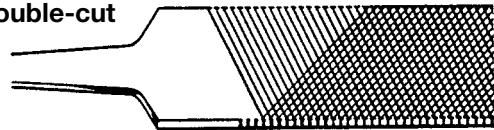
- Single set of parallel, diagonal rows of teeth
- Single-cut files are often used with light pressure to produce a smooth surface finish or to put a keen edge on knives, shears or saws

## Rasp-cut



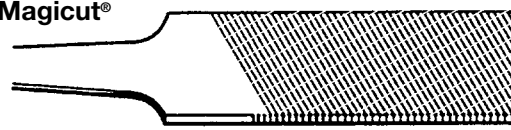
- Series of individual teeth which are formed by a single-pointed tool
- Produces a rough cut that is used primarily on wood, hooves, aluminum and lead

## Double-cut



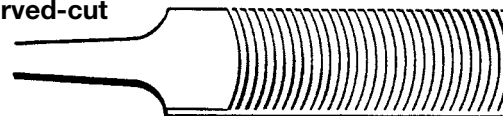
- 2 sets of diagonal rows of teeth
- Second set of teeth cut in opposite diagonal direction and on top of the first set
- First set of teeth is known as the overcut, second is known as upcut
- Upcut is finer than overcut
- Double-cut file is used with heavier pressure than the single-cut and removes material faster from the workpiece

## Magicut®



- Single cut teeth divided by angular serrations into shorter cutting edges, which free themselves readily from chips and perform roughing and smoothing at the same time

## Curved-cut



- Teeth arranged in curved contours across the file face
- Curved-cut file is normally used in automotive body shops for smoothing body panels

# Files with Ergonomic Handles



- Rubber coating and rounded shape eliminates pressure points
- Flared neck, raised ribs, and wide middle section keep your hand from slipping and provides maximum comfort and control
- Rear taper allows your hand to lock securely around the handle, increasing push force
- Hang hole for easy storage

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Length		Diameter		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
Inch	mm	Inch	mm				lb	oz	g	
<b>Flat</b>										
8	200	-	-	Carded	<b>21748H</b>	037103167903	3	3	1446	6
10	250	-	-	Carded	<b>21868H</b>	037103167910	4	5	1956	6
<b>Half Round</b>										
6	150	-	-	Carded	<b>04798HNN</b>	037103232304	2	2	946	6
8	200	-	-	Carded	<b>21745HN</b>	037103219039	2	13	1276	6
10	250	-	-	Carded	<b>21746HN</b>	037103219046	4	5	1956	6
<b>Mill</b>										
6	150	-	-	Carded	<b>21687H</b>	037103167729	1	14	851	6
8	200	-	-	Carded	<b>21694H</b>	037103167736	2	13	1276	6
10	250	-	-	Carded	<b>21701H</b>	037103167743	4	4	1928	6
12	300	-	-	Box	<b>21842H</b>	037103167750	0	14	397	1
<b>Round</b>										
8	200	-	-	Carded	<b>21715H</b>	037103167828	2	1	936	6
<b>Slim Taper</b>										
6	150	-	-	Carded	<b>21729HN</b>	037103217882	1	7	652	6
<b>Half Round Wood Rasp</b>										
8	200	-	-	Carded	<b>21749HN</b>	037103219053	2	13	1276	6
<b>Sets</b>										
3 Piece Set				Pouch	<b>22015HN</b>	037103219121	0	11	312	1
5 Piece Set				Pouch	<b>22040HN</b>	037103218100	2	4	1021	1
9 Piece Set				Pouch	<b>22030HN</b>	037103218094	4	12	2155	1
<b>Handles Only</b>										
w/2 inserts/adapters				Card	<b>21474H</b>	037103186239	0	12	340	6

## Woodchuck

The WoodChuck 4-in-1 combination chisel/wood rasp from Nicholson® is a quality wood chisel combined with a flat wood rasp on one side and a half-round wood rasp on the other. The chisel features an extremely sharp polished and ground blade, while the flat and half-round rasp surfaces are perfect for removing material quickly, and for shaping and enlarging round surfaces. The WoodChuck even has edge teeth for those hard to get spots. It's the perfect toolbox addition for any woodworker or handyman.



- Half round wood rasp for enlarging round surfaces
- Flat wood rasp for rapid stock removal
- Polished and ground blade, extremely sharp for crisp cuts
- High quality steel chisel for cutting and scraping
- Edge teeth for removal of materials in confined areas
- Impact resistant handle with ergonomic design for comfort
- Steel strike plate on handle, resists “mushrooming” and breakage

Cat. No.	UPC	Blade Width	Packed	Wt. per Shelf Pack			Shelf Pack
				lb	oz	g	
WC12CMN	037103219930	1/2"	Carded	1	3	535	3
WC34CMN	037103219954	3/4"	Carded	1	5	594	3
WC1CMN	037103219947	1"	Carded	1	10	744	3
WCSET3CMN	037103219961	3 pc. Set	Carded	7	10	3447	3

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## Aluminum Files - Type “A” Flat



- Special tooth construction eliminates clogging when filing aluminum
- Flat shape
- Double-cut
- All sizes have same number of teeth per inch
- Smooth finish obtained by using shearing cut toward left

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
6	150		Boxed	00001	037103000019	1	3	539	12
8	200		Boxed	00024	037103000248	3	0	1361	12
10	250		Boxed	00047	037103000477	7	4	3289	6
12	300		Boxed	00070	037103000705	11	2	5046	6



## Auger Bit Files



- Designed to restore original sharpness to cutting edges of auger bits
- Rectangular shape
- One end of file has uncut edges, opposite has safe sides preventing damage to surfaces adjacent to those being filed
- Made in 7" length only

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
					lb	oz	g	
7	175	Boxed	<b>00258</b>	037103002587	0	11	312	12

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## Axe Sharpening File



- Ideal for sharpening axes and miscellaneous garden tools
- Rectangular shape
- Double-cut on 1 side, single-cut on opposite
- 2 safe edges
- Length measured exclusive of handle

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
					lb	oz	g	
8	200	Boxed	<b>06704</b>	037103067043	5	12	2608	12
8	200	Carded	<b>06706</b>	037103067067	5	12	2608	6

## Bodifiles



- For those who work on automobile bodies, particularly in blending solder with sheet metal
- Rectangular shape
- All "flat bent" files have teeth on convex side only
- All "flat bent" files have offset tangs for knuckle clearance in filing large sheet metal surfaces
- D/C refers to double-cut
- \* For fine finishing steel surfaces, all others used on steel or body solder or both together
- \*\* With rounded edges

Code No.	Teeth per Inch	Size Inch x Inch	Packed	Cat. No.	UPC No. 037103	Bend "R"		Wt. per doz.			Shelf Pack
						Inch	mm	lb	oz	g	
50-210 D/C	10	1 11/32" x 5/16" -14 Flat Bent	Boxed	<b>03129</b>	031297	50	1271	16	10	7541	6
50-404 D/C*	20	1 11/32" x 5/16" -14 Flat Bent	Boxed	<b>03184</b>	031846	196	4981	16	10	7541	6
50-407 D/C	13	1 11/32" x 5/16" -14 Flat Bent	Boxed	<b>03212</b>	032126	80	2033	16	10	7541	6
50-416 D/C**	20	1 11/32" x 5/16" -14 Flat Bent	Boxed	<b>03278</b>	032782	196	4981	16	10	7541	6

## Cantsaw Files



- Used for sharpening crosscut saws with “M” teeth, circular saws and saw teeth with less than 60° angle
- Triangular shape
- Single-cut

- Edges set and cut
- Same number of teeth per inch as mill bastard files of equivalent length
- Regularly supplied with “cut back” unless “safe backs” specifically ordered

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
<b>Cut back</b>									
6	150		Boxed	<b>01327</b>	037103013279	1	7	652	12
8	200		Boxed	<b>01387</b>	037103013873	3	3	1446	12
10	250		Boxed	<b>01418</b>	037103014184	5	9	2523	12

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## Chain Saw Files - Round - Carded



01630



01974

- Round shape
- Smooth, knurl-cut
- European style, design and size
- 6" files have a straight tang

Length		Diameter		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
Inch	mm	Inch	mm				lb	oz	g	
6	150	1/8	3.17	1/Card	01590	037103015907	1	0	454	6
6	150	5/32	3.96	1/Card	01630	037103016300	1	3	539	3
8	200	5/32	3.96	1/Card	01891	037103018915	1	8	680	6
8	200	3/16	4.76	1/Card	01765	037103017659	1	13	822	6
8	200	13/64	5.10	1/Card	23861	037103238610	1	15	875	6
8	200	7/32	5.55	1/Card	01888	037103018885	2	0	907	3
8	200	1/4	6.35	1/Card	01974	037103019745	2	3	992	6
6	150	5/32	3.96	2/Card	01633	037103016331	1	3	539	6
8	200	3/16	4.76	2/Card	01768	037103017680	1	13	822	6
8	200	7/32	5.55	2/Card	01894	037103018946	2	0	907	6

## Chain Saw Files - Round - Boxed



02145N



02147N

- Round shape
- Smooth, knurl-cut
- European style, design and size
- 6" files have a straight tang

Length		Diameter		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
Inch	mm	Inch	mm				lb	oz	g	
6	150	1/8	3.17	Boxed	02144N	037103221735	0	7	198	6
6	150	5/32	3.96	Boxed	02145N	037103221681	0	8	277	6
8	200	1/4	6.35	Boxed	02147N	037103221698	1	6	624	6



## Chain Saw Files - Round - Bagged



02228B

- Round shape
- Smooth, knurl-cut
- European style, design and size
- Sealed poly bag adds security and extra protection against rust

Length		Diameter		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
Inch	mm	Inch	mm				lb	oz	g	
8	200	5/32	3.96	Bagged	<b>02228B</b>	037103232953	0	9	250	4
8	200	3/16	4.76	Bagged	<b>02229B</b>	037103232960	0	12	350	4
8	200	7/32	5.55	Bagged	<b>02230B</b>	037103232974	1	0	450	4

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## Chain Saw Files - Flat



- Used for cutter-raker type (2 round edges) chain saw
- Rectangular shape

Code No.	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	Inch	mm				lb	oz	g	
18	8	200	Boxed	<b>02215</b>	037103022158	2	14	1304	12

## Depth Gauge Chain Saw File



- Used for filing and maintaining proper depth gauge clearance
- Rectangular shape
- Single-cut
- Safe edges
- Length shown is overall length of file

Code No.	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	Inch	mm				lb	oz	g	
211	8	200	Boxed	<b>02244</b>	037103022448	1	8	680	12

## Double Ender Files



- Triangular shape
- Sides and edges are single-cut from points to center giving full use of file
- All files supplied with handles
- Single-cut

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
6	150		Boxed	<b>02884M</b>	037103028846	0	11	312	12
7	175		Boxed	<b>02905M</b>	037103029058	0	13	369	12
8	200		Boxed	<b>02926M</b>	037103029263	1	4	567	12

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## Farmer's Own File



- General purpose file suited for agricultural use
- Rectangular shape
- Single-cut
- Safe edges
- Length measured exclusive of handle
- Convenient hang up hole
- For carded files, weight is per shelf pack

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
6	150		Carded	<b>06637</b>	037103066374	3	8	1588	6
8	200		Boxed	<b>06649</b>	037103066497	4	12	2155	12
8	200		Carded	<b>08922</b>	037103089229	5	2	2381	6
10	250		Boxed	<b>06668</b>	037103066688	8	2	4508	6

## Flat Files - Boxed



- Used by machinists, machinery builders, ship and engine builders, repairman and others who require rapid removal of metal
- Rectangular in cross section and taper slightly towards point in width
- Double-cut on sides, single-cut on edges
- American pattern, available in bastard, second and smooth-cut
- Boxed

Inch	mm	Bastard Cut		Second Cut		Smooth Cut		Wt. Per Doz.			Shelf Pack
		Cat. No.	UPC No.	Cat. No.	UPC No.	Cat. No.	UPC No.	lb	oz	g	
4	100	<b>03367</b>	033673	<b>03401</b>	034014	<b>03434</b>	034342	0	9	255	12
6	150	<b>03467</b>	034670	<b>03500</b>	035004	<b>03533</b>	035332	1	9	709	12
8	200	<b>03566</b>	035660	<b>03599</b>	035998	<b>03632</b>	036322	3	12	1701	12
10	250	<b>03665</b>	036650	<b>03698</b>	036988	<b>03731</b>	037312	7	3	3261	6
12	300	<b>03764</b>	037640	<b>03797</b>	037978	<b>03830</b>	038302	11	4	5103	6
14	350	<b>03863</b>	038630	<b>03896</b>	038968	<b>03929</b>	039293	16	10	7541	6
16	400	<b>03980</b>	039804	-	-	-	-	24	2	10943	6

## Flat Files - Carded



- Used by machinists, machinery builders, ship and engine builders, repairman and others who require rapid removal of metal
- Rectangular in cross section and taper slightly towards point in width
- Double-cut on sides, single-cut on edges
- Available in bastard, second and smooth-cut
- Carded

Inch	mm	Handled	Bastard cut		Smooth cut		lb	Wt. per Shelf Pack		Shelf Pack
			Cat. No.	UPC No.	Cat. No.	UPC No.		oz	g	
6	150	No	<b>21867</b>	037103218674	<b>03534</b>	037103035349	1	5	595	6
8	200	No	<b>21862</b>	037103218629	<b>03633</b>	037103036339	2	7	1106	6
8	200	Ergonomic	<b>21748H</b>	037103167903	-	-	3	3	1446	6
10	250	No	<b>21868</b>	037103218681	<b>03732</b>	037103037329	3	9	1616	6
10	250	Ergonomic	<b>21868H</b>	037103167910	-	-	4	5	1956	6
12	300	No	<b>03762</b>	037103037626	-	-	5	14	2667	6

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## Half Round Files - Boxed



- Used on concave, convex and flat surfaces
- Rounded on 1 side, flat on opposite
- Rounded sides of all half-round bastard files are double-cut
- Rounded sides of all half-round second-cut files longer than 6" are double-cut, 4" and 6" second-cut files rounded sides are single cut
- Rounded sides of all half-round smooth files are single-cut
- Flat sides of all half-round files are double-cut
- Pipeliner file (#05190N) is single-cut on both sides
- Boxed

Inch	mm	Bastard Cut		Second Cut		Smooth Cut		lb	Wt. Per Doz.		Shelf Pack
		Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103		oz	g	
4	100	<b>04695N</b>	218513	<b>04729N</b>	218407	<b>04762N</b>	218414	0	10	284	12
6	150	<b>04795NN</b>	231734	<b>04828NN</b>	232250	<b>04861NN</b>	232274	1	9	709	12
8	200	<b>04896NN</b>	229250	<b>04927NN</b>	232267	<b>04960NN</b>	232281	3	5	1503	12
10	250	<b>04995N</b>	218803	<b>05026N</b>	218612	<b>05059N</b>	218827	6	1	2750	6
12	300	<b>05094N</b>	218650	<b>05125N</b>	218841	<b>05158N</b>	218889	10	8	4763	6
14	350	<b>05194N</b>	218926	<b>05225N</b>	218933	<b>05258N</b>	218711	16	4	7371	6
14	350	<b>05190N</b>	218940	Pipeliner	-	-	-	16	4	7371	6
16	400	<b>05307N</b>	218018	-	-	-	-	23	14	10830	6

## Half Round Files - Carded



- Used on concave, convex and flat surfaces
- Rounded on 1 side, flat on opposite
- Rounded sides of all half-round bastard files are double-cut
- Flat sides of all half-round files are double-cut
- Carded

Length Inch	mm	Handled	Bastard Cut		lb	Wt. Per Shelf Pack		Shelf Pack
			Cat. No.	UPC No.		oz	g	
6	150	No	<b>21881NN</b>	037103232298	1	6	624	6
6	150	Ergonomic	<b>04798HNN</b>	037103232304	2	2	964	6
8	200	No	<b>21857N</b>	037103219077	2	1	936	6
8	200	Yes	<b>21745N</b>	037103219022	2	7	1106	6
8	200	Ergonomic	<b>21745HN</b>	037103219039	2	13	1276	6
10	250	No	<b>21858N</b>	037103219091	3	9	1616	6
10	250	Ergonomic	<b>21746HN</b>	037103219046	4	5	1956	6
12	300	No	<b>05090N</b>	037103219015	11	8	5216	6

## Hand Files



- Rectangular shape
- Double-cut
- 1 safe edge
- Same coarseness as flat files of corresponding lengths

Length Inch	mm	Packed	Bastard Cut		Second Cut		Smooth Cut		Wt. Per Doz.			Shelf Pack
			Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	lb	oz	g	
4	100	Boxed	<b>05652</b>	056528	<b>05675</b>	056757	-	-	0	14	397	12
6	150	Boxed	<b>05738</b>	057389	<b>05771</b>	057716	<b>05804</b>	058041	1	12	794	12
8	200	Boxed	<b>05853</b>	058539	<b>05886</b>	058867	<b>05919</b>	059192	3	14	1758	12
10	250	Boxed	<b>05968</b>	059680	<b>06001N</b>	060013	<b>06034</b>	060341	7	8	3402	6
12	300	Boxed	<b>06084</b>	060846	<b>06117</b>	061171	<b>06150</b>	061508	11	6	7768	6
14	350	Boxed	<b>06198</b>	061980	-	-	-	-	17	4	7838	6

## Handy File



- One side is single-cut for use in tool sharpening and smoothing metal surfaces, reverse side is double-cut for general filing and rapid stock removal
- Rectangular shape
- 1 cut edge, 1 safe edge
- Length measured exclusive of handle
- For carded files, weight is per shelf pack

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
8	200		Carded	<b>06601</b>	037103066015	2	5	1048	6
8	200		Boxed	<b>06602</b>	037103066022	5	9	2581	12
12	300		Boxed	<b>06686</b>	037103066862	11	6	7768	6

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## Home and Garden File



- Ideal utility file for home owner
- Used for sharpening woodworking tools (chisels, scrapers) and garden tools (hoes, shovels, rotary mower blades)
- Rectangular shape
- Overall length is 10"/250mm
- For carded files, weight is per shelf pack

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
10	250		Carded	<b>11488</b>	037103114884	2	4	1020	6

## Knife Files - Boxed



- Used primarily by tool and die makers with work having acute angles
- Triangular shape
- Double-cut on sides, single-cut on sharp edge
- Knife files are supplied with safe backs
- Boxed

Inch	mm	Bastard Cut		Second Cut		Smooth Cut		Wt. Per Doz.			Shelf Pack
		Cat. No.	UPC No.	Cat. No.	UPC No.	Cat. No.	UPC No.	lb	oz	g	
4	100	<b>06711</b>	067111	<b>06742</b>	067425	<b>06773</b>	067739	0	6	170	12
6	150	<b>06804</b>	068040	<b>06836</b>	068361	<b>06867</b>	068675	1	3	539	12
8	200	<b>06898</b>	068989	<b>06930</b>	069306	<b>06961</b>	069610	2	8	1134	12
10	250	<b>06992</b>	069924	<b>07023</b>	070234	<b>07054</b>	070548	4	10	2098	12
12	300	<b>07085</b>	070852	-	-	-	-	7	10	3459	6

## Long Angle Lathe Files - Bastard



- Rapid, free cutting files designed for lathe filing
- Rectangular shape
- Single-cut
- Safe edges to protect shoulder or dog
- Made on flat blanks in bastard-cut
- Cut faster than regular mill files and leave smoother finish

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
					lb	oz	g	
10	250	Boxed	<b>07657</b>	037103076571	7	3	3260	6
12	300	Boxed	<b>07688</b>	037103076885	11	4	5103	6
14	350	Boxed	<b>07719</b>	037103077196	16	10	7541	6

## Long Angle Lathe Files - Fine



- Specially designed for finishing rapid stock removal on lathe work
- Rectangular shape
- Safe edges
- Cut faster than regular mill files and leave smoother finish

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
					lb	oz	g	
8	200	Boxed	<b>07835</b>	037103078353	4	1	1860	12
10	250	Boxed	<b>07842</b>	037103078421	3	8	1730	6
12	300	Boxed	<b>07851</b>	037103078513	5	8	2638	6
14	350	Boxed	<b>07863</b>	037103078636	8	8	3998	6

## Magicut® Files - Flat



- Used by machinists as all-purpose file to remove stock rapidly and to leave a smooth finish
- Tapered point in width
- File features a pattern of narrow chip breakers created by steep and angled serrations for rapid removal and smoother finish

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
					lb	oz	g	
8	200	Boxed	<b>07894</b>	037103078940	3	12	1701	12
10	250	Boxed	<b>07917</b>	037103079176	3	7	3260	6
12	300	Boxed	<b>07941</b>	037103079411	11	4	5103	6
14	350	Boxed	<b>07965</b>	037103079657	16	10	7541	6

## Mill Files - Boxed



- Used for sharpening mill or circular saws
- Also for draw-filing and finishing metals
- Rectangular shape
- Single-cut on sides and edges
- 2 square edges
- All sizes taper slightly in width
- Boxed

Length Inch	mm	Bastard Cut		Second Cut		Smooth Cut		Wt. Per Doz.			Shelf Pack
		Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	lb	oz	g	
4	100	<b>08243</b>	082435	-	-	<b>08306</b>	083067	0	8	227	12
6	150	<b>08354</b>	083548	<b>08385</b>	083852	<b>08416</b>	084163	1	3	539	12
8	200	<b>08497</b>	084972	<b>08529</b>	085290	<b>08560</b>	085603	2	12	1247	12
10	250	<b>08642</b>	086426	<b>08673</b>	086730	<b>08704</b>	087041	5	7	2466	12
12	300	<b>08737</b>	087379	<b>08768</b>	087683	<b>08799</b>	087997	9	1	4111	6
12	300	<b>21842H*</b>	167750	-	-	-	-	0	14	397	1
14	350	<b>08832</b>	088321	-	-	<b>08894</b>	088949	14	0	6350	6
16	400	<b>08925</b>	089250	-	-	-	-	21	0	9526	6

\*Indicates ergonomic handle

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## Mill Files - Carded



- Used for sharpening mill or circular saws
- Also for draw-filing and finishing metals
- Rectangular shape
- Single-cut on sides and edges
- 2 square edges
- All sizes taper slightly in width
- Carded

Inch	mm	Handled	Bastard cut		Smooth cut		Wt. per Shelf Pack			Shelf Pack
			Cat. No.	UPC No.	Cat. No.	UPC No.	lb	oz	g	
6	150	No	<b>21825</b>	037103218254	-	-	1	2	510	6
6	150	Yes	<b>21687</b>	037103216878	-	-	1	5	595	6
6	150	Ergonomic	<b>21687H</b>	037103167729	-	-	1	13	851	6
8	200	No	<b>21832</b>	037103218322	<b>08559</b>	037103085597	2	1	936	6
8	200	Yes	<b>21694</b>	037103216946	-	-	2	4	1021	6
8	200	Ergonomic	<b>21694H</b>	037103167736	-	-	2	13	1276	6
10	250	No	<b>21839</b>	037103218391	<b>08702</b>	037103087027	3	8	1588	6
10	250	Yes	<b>21701</b>	037103217011	-	-	3	14	1758	6
10	250	Ergonomic	<b>21701H</b>	037103167743	-	-	4	4	1928	6
12	300	No	<b>21842</b>	037103218421	-	-	5	1	2296	6



## Mill Files - 1 and 2 Round Edges



- Round edges are used where rounding gullets are preferred, as compared to sharp corners or squared gullets
- Rectangular shape
- Single-cut on sides and edges
- Bastard-cut
- Same as regular mill files except they have 1 or 2 round edges

Length Inch	mm	Packed	Type Cut	One Round Edge		Two Round Edge		Wt. per doz.			Shelf Pack
				Cat. No.	UPC No.	Cat. No.	UPC No.	lb	oz	g	
8	200	Boxed	Bastard	<b>09099</b>	037103090997	<b>09389</b>	037103093899	2	13	1276	12
10	250	Boxed	Bastard	<b>09179</b>	037103091796	<b>09469</b>	037103094698	5	1	2296	12
12	300	Boxed	Bastard	<b>09227</b>	037103092274	-	-	9	1	4111	6

## Pillar Files



- Used mostly by machinists for filing slots and keyways
- Similar to hand files but narrower
- Rectangular cross section
- 1 safe edge

Length Inch	mm	Packed	Type Cut	Cat. No.	UPC No.	lb	Wt. per doz.		Shelf Pack
						oz		g	
8	200	Boxed	Bastard	<b>11118</b>	037103111180	3	11	1673	12

## Square Files - Boxed



- Used on slots, keyways and general surface filing
- Square shape
- Double-cut
- Tapered slightly towards point
- Larger sizes frequently preferred to corresponding flat files because of heavier section and 4 filing surfaces
- Boxed

Length Inch	mm	Diameter		Bastard Cut		Second Cut		Smooth Cut		Wt. per doz.			Shelf Pack
		Inch	mm	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	lb	oz	g	
4	100	5/32	4	<b>12790</b>	127907	-	-	<b>12857</b>	128577	0	4	113	12
6	150	1/4	6	<b>12967</b>	129673	<b>13000N</b>	130006	<b>13033</b>	130334	1	1	482	12
8	200	5/16	8	<b>13081</b>	130815	<b>13114</b>	131140	<b>13147</b>	131478	1	15	879	12
10	250	3/8	10	<b>13196</b>	131966	<b>13229</b>	132291	<b>13262</b>	132628	3	14	1758	12
12	300	1/2	13	<b>13310</b>	133106	<b>13343</b>	133434	<b>13376</b>	133762	8	6	3799	6
14	350	5/8	16	<b>13425</b>	134257	-	-	-	-	14	12	6691	6

## Round Files - Boxed



- Primarily used to file circular openings or concave surfaces
- Round shape
- All 4, 5, 6, 8, 10, 12" files are single-cut
- 14" bastard file is double-cut
- Tapered slightly towards point
- Boxed

Length		Diameter		Bastard Cut		Second Cut		Smooth Cut		Wt. per doz.			Shelf Pack
Inch	mm	Inch	mm	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	lb	oz	g	
4	100	1/8	3	<b>11526N</b>	231901	<b>11559NN</b>	231895	<b>11592NN</b>	231918	0	4	113	12
5	125	3/16	5	<b>11637N</b>	231925	-	-	-	-	0	9	255	12
6	150	1/4	6	<b>11716N</b>	231826	<b>11748N</b>	231897	<b>11781N</b>	231994	0	14	397	12
8	200	5/16	8	<b>11904</b>	119049	<b>11936</b>	119360	<b>11969</b>	119698	1	6	624	12
10	250	3/8	10	<b>12019</b>	120199	<b>12051</b>	120519	<b>12084</b>	120847	3	3	1446	12
12	300	1/2	13	<b>12134</b>	121349	<b>12166</b>	121660	<b>12199</b>	121998	6	13	3090	6
14	350	5/8	16	<b>12248</b>	122483	-	-	-	-	11	15	5415	6

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## Round Files - Carded



- Primarily used to file circular openings or concave surfaces
- Round shape
- All 6, 8, 10, 12" files are single-cut
- Tapered slightly towards point
- Carded

Length		Diameter		Handled	Bastard cut		Wt. per Shelf Pack			Shelf Pack
Inch	mm	Inch	mm		Cat. No.	UPC No.	lb	oz	g	
6	150	1/4	6	No	<b>21846N</b>	037103232014	0	15	425	6
6	150	1/4	6	Yes	<b>21708N</b>	037103232007	1	0	454	6
8	200	5/16	8	No	<b>21853</b>	037103218537	1	5	595	6
8	200	5/16	8	Yes	<b>21715</b>	037103217158	1	6	624	6
8	200	5/16	8	Ergonomic	<b>21715H</b>	037103167828	2	1	936	6
10	250	3/8	10	No	<b>21854</b>	037103218544	2	1	936	6
12	300	1/2	13	No	<b>12131</b>	037103121318	3	6	1531	6

## Taper (Triangular) Saw Files

Number of Saw Points	Files Recommended
4	7" Heavy or 8" Regular Taper
5	7" Regular Taper or 10" Slim
5 1/2	7" Regular Taper or 10" Slim
6	5" or 6" Regular Taper 7" or 8" Slim
7	6" or 7" Slim
8	4" Regular Taper 6" Slim, 7" X Slim, 8" XX Slim
9	5" Slim, 6" X Slim, 7" XX Slim
10	3 1/2" Regular Taper or 5" Slim, 5" or 6" X Slim
11	3" Regular Taper or 4" Slim, 5" X Slim, 6" XX Slim
12	3" Regular Taper or 5" X Slim
13,14	4" X Slim or 5" XX Slim
15,16	4" XX Slim

- Made for filing saws with 60° angle teeth
- Triangular shape
- Single-cut
- Edges set and cut for filing gullets between saw teeth
- In filing handsaws, it is important to select the right file
- In general, the table lists suggested size and type of file that will give best results

## Taper Files - Heavy - Boxed



- Triangular shape
- Boxed
- Edges set and cut for filing gullets between saw teeth
- Tapers slightly towards the point

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
7	175		Boxed	<b>14048M</b>	037103142870	3	6	1531	12

## Taper Files - Regular - Boxed



- Triangular shape
- Boxed
- Edges set and cut for filing gullets between saw teeth
- Tapers slightly towards the point

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
3	75		Boxed	<b>13692M</b>	037103162526	0	5	142	12
3 1/2	90		Boxed	<b>13710M</b>	037103162533	0	8	227	12
4	100		Boxed	<b>13727M</b>	037103162540	0	11	311	12
5	125		Boxed	<b>13772M</b>	037103162564	1	4	567	12
6	150		Boxed	<b>13807M</b>	037103143952	2	0	907	12
7	175		Boxed	<b>13841M</b>	037103162502	2	15	1332	12
8	200		Boxed	<b>13875M</b>	037103162595	4	5	1956	12
10	250		Boxed	<b>13930N</b>	037103218490	7	8	3402	12

## Taper Files - Machete - Boxed



- Triangular shape
- Boxed
- Edges set, not cut. For sharpening machete blades
- Tapers slightly towards the point

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
4 1/2	113		Boxed	<b>00912M</b>	037103162519	1	1	482	12
4 1/2	113		Boxed	<b>00914M *</b>	037103146823	1	1	482	12
6	150		Boxed	<b>13811M</b>	037103162496	2	0	907	12
6	150		Boxed	<b>13814M **</b>	037103162779	2	0	907	12
8	200		Boxed	<b>13878M</b>	037103162601	4	5	1956	12

\* File manufactured for Royal branding

\*\* Blunt file, not tapered

## Taper Files - Slim - Boxed



- Triangular shape
- Edges set and cut for filing gullets between saw teeth
- Boxed

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
4	100		Boxed	<b>14106M</b>	037103142511	0	6	170	12
4 1/2	113		Boxed	<b>14139M</b>	037103162625	0	8	226	12
5	125		Boxed	<b>14162M</b>	037103142528	0	9	255	12
6	150		Boxed	<b>14224M</b>	037103142535	1	1	482	12
7	175		Boxed	<b>14255M</b>	037103142610	1	11	765	12
8	200		Boxed	<b>14290M</b>	037103142894	2	10	1191	12
10	250		Boxed	<b>14341N</b>	037103218377	5	3	2353	12

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## Taper Files - Slim - Carded



- Triangular shape
- Edges set and cut for filing gullets between saw teeth
- Carded

Inch	Length		Handled	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
6	150		No	<b>21866N</b>	037103217929	1	5	595	6
6	150		Yes	<b>21729N</b>	037103217875	1	9	709	6
6	150		Ergonomic	<b>21729HN</b>	037103217882	1	7	652	6

## Taper Files - Extra Slim - Boxed



- Triangular shape
- Edges set and cut for filing gullets between saw teeth
- Boxed

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
4	100		Boxed	<b>14547M</b>	037103142580	0	4	113	12
5	125		Boxed	<b>14599M</b>	037103142931	0	6	170	12
6	150		Boxed	<b>14665M</b>	037103144034	0	11	312	12
7	175		Boxed	<b>14698N</b>	037103217707	1	3	539	12
8	200		Boxed	<b>14729N</b>	037103217714	1	14	851	12

## Taper Files - Extra Slim - Carded



- Triangular shape
- Carded
- Edges set and cut for filing gullets between saw teeth

Inch	Length		Handled	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
4	100		No	<b>21875N</b>	037103218155	0	4	113	6
5	125		No	<b>14600N</b>	037103217806	0	6	624	6
6	150		No	<b>21873N</b>	037103217950	1	3	539	6
6	150		Yes	<b>21736N</b>	037103217899	1	6	624	6
7	175		No	<b>14696N</b>	037103217837	1	13	692	6

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## Taper Files - Double Extra Slim - Boxed



- Triangular shape
- Boxed
- Edges set and cut for filing gullets between teeth

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
4	100		Boxed	<b>14942M</b>	037103142599	0	3	82	12
5	125		Boxed	<b>14992M</b>	037103142603	0	6	170	12
6	150		Boxed	<b>15024N</b>	037103217721	0	9	255	12
7	175		Boxed	<b>15056N</b>	037103217745	0	12	340	12
8	200		Boxed	<b>15087N</b>	037103217752	1	1	482	12

## Taper Files - Double Extra Slim - Carded



- Triangular shape
- Carded
- Edges set and cut for filing gullets between teeth

Inch	Length		Handled	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
6	150		No	<b>21874N</b>	037103217974	0	15	425	6
6	150		Yes	<b>21743N</b>	037103217905	1	2	481	6

## Improved Taper - No Tang



- Designed and recommended primarily for use in saw filing machines
- Triangular shape
- Single-cut on sides and edges
- Parallel in shape and have specially shaped point to facilitate holding file in machine

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
6 5/8	166		Boxed	<b>15267N</b>	037103218360	3	12	1701	12

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## Three Square Files - Boxed



- For general use by machinists for filing internal angles more acute than right angles, clearing out square corners and filing taps and gutters
- Triangular shape
- Double-cut
- Sharp corners are slightly set and cut
- Cut to the point

Inch	Length		Bastard Cut		Second Cut		Smooth Cut		Wt. Per Doz.			Shelf Pack
	mm		Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	lb	oz	g	
6	150		<b>15925N</b>	218223	<b>15958N</b>	218308	<b>15991N</b>	218247	1	15	879	12
8	200		<b>16036N</b>	218261	<b>16069N</b>	218278	<b>16102N</b>	218285	4	4	1928	12
10	250		<b>16147N</b>	218483	<b>16180N</b>	218339	<b>16213N</b>	218339	7	8	3402	12



## Tungsten Point Files



- Designed for dressing distributor points that are tipped with tungsten, iridium and similar metals
- Thin rectangular shape
- Double-cut
- 5 1/4" overall
- Chisel tip of file enters slots or gaps easily
- Approximate size 5/16"/8mm x .044"/1.10mm
- Available with attractive carded display

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
5 1/4	133		Boxed	<b>02373</b>	037103023735	2	8	1134	12
5 1/4	133		1/cd	<b>02375</b>	037103023759	1	4	567	6

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## Veneer Knife Files



- Specially designed for sharpening veneer knives
- Thin rectangular shape
- Blunt bastard-cut
- 2 round edges

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
10	250		Boxed	<b>10799</b>	037103107992	5	8	2495	12

## Warding Files



- Used primarily by locksmiths in repairing and filing ward notches in keys
- Thin rectangular shape
- Double-cut on sides, single-cut on edges
- Also suited for use in narrow spaces where other files will not fit

Length Inch	mm	Bastard Cut		Second Cut		Smooth Cut		Wt. Per Doz.			Shelf Pack
		Cat. No.	UPC No.	Cat. No.	UPC No.	Cat. No.	UPC No.	lb	oz	g	
4	100	<b>16507</b>	165077	<b>16540</b>	165404	<b>16573</b>	165732	0	5	142	12
6	150	<b>16663</b>	166630	<b>16696</b>	166968	<b>16729</b>	167293	0	13	369	12
8	200	<b>16761</b>	167613	<b>16794</b>	167941	<b>16827</b>	168276	1	10	737	12
10	250	<b>16859</b>	168597	<b>16891</b>	168917	-	-	2	14	1304	12

## Wood Files (Coarse) - Half Round



- Specially coarse teeth for use on wood
- Half-round
- Made in same section and size as half-round file

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
10	250		Boxed	17505N	037103218636	6	1	2750	6

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## Cabinet Rasps - Boxed



- Used by cabinetmakers and woodworkers
- Half-round
- Single-cut on edges
- Curved side of rasps similar to half-round rasps but has larger radius

Inch	Length		Packed	Regular (Second Cut)		Wt. per doz.			Shelf Pack
	mm			Cat. No.	UPC No.	lb	oz	g	
8	200		Boxed	17615N	037103219572	3	0	1361	12
10	250		Boxed	17683N	037103219596	5	7	2466	6
12	300		Boxed	17751N	037103219602	9	5	4224	6

## Horse Rasps - Plain 1/2 File



- Some farriers prefer this thin fine-toothed rasp for shoeing racetrack, riding horses and ponies
- Plain horse rasps are double-ended with rasp teeth on 1 side, file teeth on opposite
- Rectangular shape
- Made in regular and an 18" slim plater's double-ended horse rasp

Inch	Length		Type	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm						lb	oz	g	
12	300		Regular	Boxed	17873N	037103219459	13	15	6322	6
14	350		Regular	Boxed	17903N	037103217998	19	10	8902	6
14	350		Regular	Pouch	17910N	037103218001	19	15	6322	6

## Farrier's Handy Rasps

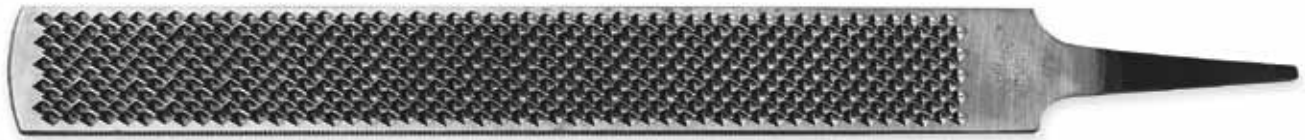


- Rectangular shape
- Single-cut on edges
- Comfortable cushion grip at point and handle
- Rasp teeth on 1 side, file teeth on opposite
- Rasp cut is 6 teeth per row (other horse rasps have 5 teeth per row)
- Body is the same as the 14" Plater's Special

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
14	350		Boxed	18155N	037103219558	18	15	8591	5

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## Horse Rasps - Tanged



- Rectangular shape
- Single-cut on edges
- Tanged
- Rasp teeth on 1 side, file teeth on opposite
- Thicker than Plater's Special - ideal for hot rasping

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
12	300		Boxed	18035N	037103219466	18	0	8165	6
14	350		Boxed	18057N	037103219473	26	8	12020	6

## Diamond Horse Rasps



- Rectangular shape
- Superior performance in both wet and dry conditions
- Rasp teeth on one side, file teeth on the other side, single cut on edges
- Both sides are safe 7/8", 22mm at point
- Rasp side allows for aggressive, but controlled hoof removal
- File side produces a consistent smooth finish
- HR15 (Outlaw) rasp is less aggressive, but extremely durable for long life

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
14	350		Boxed	HR14N	037103219510	16	6	7428	6
14	350		Boxed	HR15	037103206343	19	12	8958	6

## Magicut® Plater's Special Horse Rasp



- Maximum cutting surface design gives rapid removal and smoother finish
- Single-cut on edges
- Opposite side has Nicholson's® unique Magicut® file pattern of narrow chip breakers created by steep and angled serrations
- Rectangular shape
- Tooth design is cut deeper to last longer and cut much faster than conventional horse rasps
- Rasp cut is 6 teeth per row (other horse rasps have 5 teeth per row)

Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
Inch	mm				lb	oz	g	
14	350	Boxed	<b>18130N</b>	037103219534	15	12	7144	6
14	350	Pouched	<b>18153N</b>	037103219480	15	12	7144	6

## Pattern Maker's Cabinet Rasps



- Used primarily by cabinetmakers
- Half-round shape
- Narrow pattern, cut edges
- Used when smooth wood finish is required

Length		Code No.	Type	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
Inch	mm						lb	oz	g	
10	250	49	Second cut	Boxed	<b>18846N</b>	037103219640	3	10	1644	6
10	250	50	Smooth cut	Boxed	<b>18861N</b>	037103219640	3	6	1531	6

## 4-in-Hand® (Formerly Shoe Rasp)



- For the homeowner, home craftsman, boat builder and mechanic
- Half-round shape
- Has file section and rasp section on both flat side and half-round side
- For carded files, weight is per shelf pack

Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
Inch	mm				lb	oz	g	
8	200	Boxed	<b>18924N</b>	037103219763	4	4	1871	6
8	200	Carded	<b>21860N</b>	037103219848	2	1	936	6
9	225	Boxed	<b>19013N</b>	037103219787	5	12	2608	6
9	225	Carded	<b>21870N</b>	037103219862	6	0	2290	6
10	250	Boxed	<b>18962N</b>	037103219794	7	9	3430	6
10	250	Carded	<b>18960N</b>	037103219909	3	12	1701	6

## Woodcraft Rasp - Half Rasp, Half File

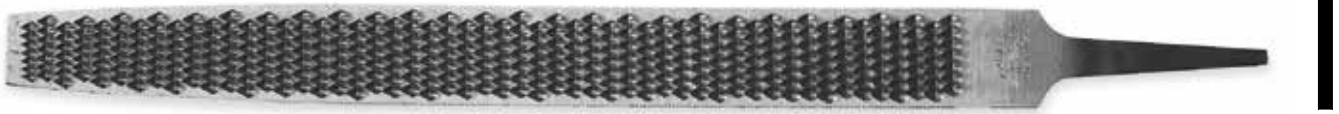


- Ideal for use in woodworking plants, by professional carpenters, hobbyists and DIY enthusiasts
- Half-round rasp side for rapid stock removal and file cut side for smoothing purposes
- For use on wood, leather, soapstone and soft metals
- 8"/200mm length is exclusive of handle

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
8	200		Boxed	<b>18617N</b>	037103219749	4	1	1844	6
8	200		Carded	<b>23859N</b>	037103219879	4	1	1844	6

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## Wood Rasps - Flat Bastard



- Flat shape
- Bastard-cut

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
10	250		Boxed	<b>19136N</b>	037103219695	7	8	3402	6

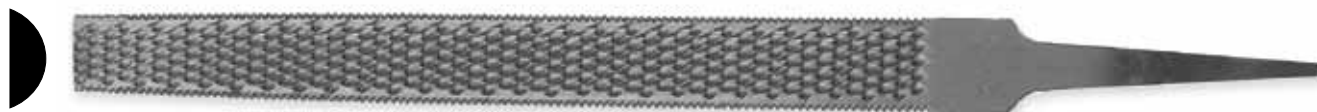
## Wood Rasps - Half Round - Boxed



- Used by woodworkers, hobbyists and plumbers
- Half-round shape
- Single-cut file teeth on edge
- For use on wood and soft metals
- Boxed

Inch	Length		Packed	Bastard Cut		Wt. per doz.			Shelf Pack
	mm			Cat. No.	UPC No.	lb	oz	g	
8	200		Boxed	<b>19394N</b>	037103219633	3	7	1559	12
10	250		Boxed	<b>19427N</b>	037103219657	6	8	2948	6
12	300		Boxed	<b>19460N</b>	037103219664	10	8	4763	6
14	350		Boxed	<b>19493N</b>	037103219732	16	15	7683	6

## Wood Rasps - Half Round - Carded



- Used by woodworkers, hobbyists and plumbers
- Half-round shape
- Single-cut file teeth on edge
- For use on wood and soft metals
- Carded

Inch	Length		Handled	Bastard Cut		Wt. Per Shelf Pack			Shelf Pack
	mm			Cat. No.	UPC No.	lb	oz	g	
8	200		No	<b>21878N</b>	037103219718	2	1	936	6
8	200		Ergonomic	<b>21749HN</b>	037103219053	2	13	1276	6

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## Wood Rasps Round Bastard



- Used for same purpose as regular wood rasps in places for which their shapes make them particularly effective
- Round shape
- Bastard-cut
- Made from same size steel as round files

Inch	Length		Diameter		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm		Inch	mm				lb	oz	g	
8	200		5/16	8	Boxed	<b>19846</b>	037103198464	1	6	624	12
10	250		3/8	10	Boxed	<b>19875</b>	037103198754	3	4	1474	12

## Nicholson® X.F® Files Swiss Pattern

- Made to more exacting measurements than American pattern files
- Made in finer cuts, which vary from No. 00 (coarsest) to No. 6 (finest)
- Used by tool and die makers, jewelers, model makers and home craftsman
- Recommended for those who do superfine precision filing

### Barrette Files



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- Double-cut, wide flat sides
- Flat on 1 side, backs are beveled on edges as indicated by cross section
- Back and beveled edges are safe
- Included angle is 33°

Length		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
4	100	Boxed	<b>35025</b>	037103350251	00	0	9	255	12
4	100	Boxed	<b>35031</b>	037103350312	0	0	9	255	12
6	150	Boxed	<b>35061</b>	037103350619	0	1	5	595	12
6	150	Boxed	<b>35073</b>	037103350732	2	1	5	595	12

### Barrette Files - Hot Die



- Double-cut, wide flat sides
- 3" and 4" have an approximate point thickness of .040"/1.10mm
- Same as regular barrette files except with thinner point

Length		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
3	75	Boxed	<b>35108</b>	037103351081	00	0	3	85	12
4	100	Boxed	<b>35114</b>	037103351142	00	0	9	255	12



## 6 1/2"/163mm Die Sinker's Rifflers

- Used by tool and die makers, jewelers, model makers and home craftsman
- Made in shapes as illustrated
- Made in approximately 6 1/2"/165mm lengths and in cuts 0 and 2
- Each riffler identified by number

Style No.	Packed	Cat. No.	UPC No. 037103	Cut No.	Shelf Pack
1	Boxed	35976	359766	0	12
1	Boxed	35982	359827	2	12
5	Boxed	36018N	360182	2	12
7	Boxed	36054	360540	2	12
12	Boxed	36126	361264	2	12



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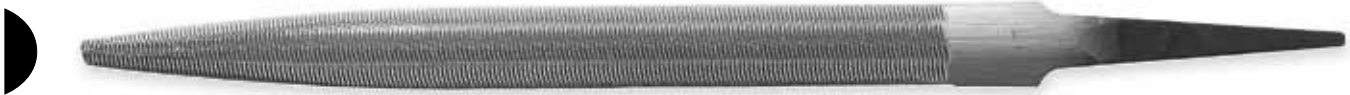
## Equaling Files



- Used by tool and die makers, jewelers, model makers and home craftsman
- Rectangular shape
- Double-cut on sides, single-cut on edges
- Parallel in both width and thickness for their entire length

Length		Packed	Cat. No.	UPC No. 037103	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
4	100	Boxed	36219	362193	0	0	8	227	12
4	100	Boxed	36227	362278	2	0	8	227	12
6	150	Boxed	36253	362537	2	1	5	595	12
8	200	Boxed	36281	362810	2	3	5	1503	6

## Half Round Files



- Used by tool and die makers, jewelers, model makers and home craftsman
- Half-round shape
- Double-cut on both flat and half-round sides
- Made in much finer cuts, which vary from No. 00 (coarsest) to No. 4 (finest)
- Taper in thickness and width to point

Length		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
6	150	Boxed	36521	037103365217	0	1	3	539	12
6	150	Boxed	36527	037103365279	1	1	3	539	12
6	150	Boxed	36533	037103365330	2	1	3	539	12
6	150	Boxed	36539	037103365392	3	1	3	539	12
6	150	Boxed	36545	037103365453	4	1	3	539	12
8	200	Boxed	36557	037103365576	00	2	10	1191	6
8	200	Boxed	36563	037103365637	0	2	10	1191	6
8	200	Boxed	36569	037103365699	1	2	10	1191	6

## Hand Files



- Used by tool and die makers, jewelers, model makers and home craftsman
- Rectangular shape
- Double-cut sides
- Single-cut on 1 edge, other is safe
- Parallel in width but taper in thickness

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
						lb	oz	g	
6	150	Boxed	36755	037103367556	2	2	5	1049	12

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## Knife Files



- Used by tool and die makers, jewelers, model makers and home craftsman
- These files taper in width and thickness
- Double-cut on both sides
- Made from steel that is knife shaped, 10° sharp edge angle
- Supplied with safe backs

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
						lb	oz	g	
6	150	Boxed	36975	037103369758	0	1	2	510	12
6	150	Boxed	36987	037103369871	2	1	2	510	12

## Needle Files - Round Handle

Hot die - barrette shape only



- Barrette shape only
- Same as regular round handle needle barrette except with thinner points
- 5 1/2"/140 mm has .039"/1.0mm thickness

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
						lb	oz	g	
5 1/2	140	Boxed	37752	037103377524	0	0	4	113	12
6 1/4	159	Boxed	38115	037103381156	0	0	6	170	12

# Needle Files



- Used primarily by jewelers, die makers, watchmakers and fine toolmakers
- Available in 12 shapes, round handles
- All individual styles shelf pack 12, all assortments of 12, shelf pack 1
- Knurled handles
- In 4”/101mm lengths, oval is furnished instead of crossing
- Come with protective plastic pouches when purchased in assortments

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Cat. No.	UPC No. 037103	Length		Cut
		Inch	mm	
Assortment				
37029	370297	4	100	0
37035	370358	4	100	2
Barrette				
37277	372772	4	100	0
Equaling				
37249	372499	4	100	0
37256	372567	4	100	2
Flat				
37109	371096	4	100	0
37116	371164	4	100	2
Half round				
37081	370815	4	100	0
37088	370884	4	100	2
Knife (safe back)				
37165	371652	4	100	0
37172	371720	4	100	2
Round				
37053	370532	4	100	0
37060	370600	4	100	2
Square				
37193	371935	4	100	0
37200	372000	4	100	2
Three square				
37221	372215	4	100	0
37228	372284	4	100	2
Assortment				
37392	373922	5 1/2	140	0
37398	373984	5 1/2	140	2
37404	374042	5 1/2	140	4
Barrette				
37640	376404	5 1/2	140	0
37647	376473	5 1/2	140	2

Cat. No.	UPC No. 037103	Length		Cut
		Inch	mm	
Crossing				
37500	375001	5 1/2	140	0
Equaling				
37612	376121	5 1/2	140	0
37619	376190	5 1/2	140	2
37626	376268	5 1/2	140	4
Flat				
37472	374721	5 1/2	140	0
37479	374790	5 1/2	140	2
37486	374868	5 1/2	140	4
Half Round				
37444	374448	5 1/2	140	0
37451	374516	5 1/2	140	2
37458	374585	5 1/2	140	4
Round				
37416	374165	5 1/2	140	0
37423	374233	5 1/2	140	2
37430	374301	5 1/2	140	4
Slitting				
37703	377036	5 1/2	140	2
Square				
37556	375568	5 1/2	140	0
37563	375636	5 1/2	140	2
Three square				
37584	375841	5 1/2	140	0
37591	375919	5 1/2	140	2
37598	375988	5 1/2	140	4
Assortment				
37755	377555	6 1/4	159	0
37761	377616	6 1/4	159	2
37767	377678	6 1/4	159	4
Barrette				
38003	380036	6 1/4	159	0
38010	380104	6 1/4	159	2

Cat. No.	UPC No. 037103	Length		Cut
		Inch	mm	
Crossing				
37863	378637	6 1/4	159	0
37870	378705	6 1/4	159	2
Equaling				
37975	379757	6 1/4	159	0
37982	379825	6 1/4	159	2
37989	379894	6 1/4	159	4
37996	379962	6 1/4	159	6
Flat				
37835	378354	6 1/4	159	0
37842	378422	6 1/4	159	2
37849	378491	6 1/4	159	4
Half Round				
37807	378071	6 1/4	159	0
37814	378149	6 1/4	159	2
37821	378217	6 1/4	159	4
37828	378286	6 1/4	159	6
Knife (safe back)				
37891	378910	6 1/4	159	0
37898	378989	6 1/4	159	2
Round				
37779	377791	6 1/4	159	0
37786	377869	6 1/4	159	2
37793	377937	6 1/4	159	4
37800	378002	6 1/4	159	6
Slitting				
38059	380593	6 1/4	159	0
Square				
37919	379191	6 1/4	159	0
37926	379269	6 1/4	159	2
Three square				
37947	379474	6 1/4	159	0
37954	379542	6 1/4	159	2
37961	379610	6 1/4	159	4

## Pillar Files



- Rectangular in shape
- Double-cut on 2 sides only
- Safe edges
- Tapered in thickness
- Similar in shape to hand files but only 2/3 as wide

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
						lb	oz	g	
4	100	Boxed	<b>39855</b>	037103398550	00	0	10	284	12
4	100	Boxed	<b>39861</b>	037103398611	0	0	10	284	12
4	100	Boxed	<b>39873</b>	037103398734	2	0	10	284	12
4	100	Boxed	<b>39881</b>	037103398819	4	0	10	284	12
6	150	Boxed	<b>39893</b>	037103398932	00	1	10	737	12
6	150	Boxed	<b>39899</b>	037103398994	0	1	10	737	12
6	150	Boxed	<b>39905</b>	037103399052	1	1	10	737	12
6	150	Boxed	<b>39911</b>	037103399113	2	1	10	737	12
6	150	Boxed	<b>39923</b>	037103399236	4	1	10	737	12
8	200	Boxed	<b>39929</b>	037103399298	00	3	8	1588	6
8	200	Boxed	<b>39935</b>	037103399359	0	3	8	1588	6
8	200	Boxed	<b>39947</b>	037103399472	2	3	8	1588	6
10	250	Boxed	<b>39965</b>	037103399656	00	6	3	2807	6
10	250	Boxed	<b>39971</b>	037103399717	0	6	3	2807	6
12	300	Boxed	<b>39992</b>	037103399922	00	9	12	4137	6

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## Pillar Narrow Files



- Rectangular shape
- Narrow
- Double-cut on 2 sides only
- Safe edges
- Similar to pillar files but are narrower for their length

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
						lb	oz	g	
4	100	Boxed	<b>40049</b>	037103400499	2	0	8	227	12
6	150	Boxed	<b>40076</b>	037103400765	0	1	4	567	12
6	150	Boxed	<b>40082</b>	037103400826	1	1	4	567	12
6	150	Boxed	<b>40088</b>	037103400888	2	1	4	567	12

## Pillar Extra Narrow Files



- Cut on 2 sides only
- Safe edges
- Similar to pillar and pillar narrow files but are narrower for their length

Length		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
4	100	Boxed	40222	037103402226	2	0	5	142	12
6	150	Boxed	40242	037103402424	00	0	13	369	12
6	150	Boxed	40248	037103402486	0	0	13	369	12
6	150	Boxed	40254	037103402547	1	0	13	369	12
6	150	Boxed	40260	037103402608	2	0	13	369	12
8	200	Boxed	40281	037103402813	00	1	15	879	12
8	200	Boxed	40287	037103402875	0	1	15	879	12

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## Pippin Files



- Rounded back tapers to sharp edge
- Also taper to point in both width and thickness
- Sometimes called "Apple Seed" files

Length		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
6	150	Boxed	40506	037103405067	2	1	1	482	12

## Round Files



- Round shape
- Double-cut
- Taper throughout length to fine point

Length		Diameter		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm	Inch	mm					lb	oz	g	
4	100	1/8	3	Boxed	40580	037103405807	0	0	4	113	12
6	150	3/16	4.76	Boxed	40645	037103406453	00	0	11	312	12
6	150	3/16	4.76	Boxed	40651	037103406514	0	0	11	312	12
6	150	3/16	4.76	Boxed	40663	037103406637	2	0	11	312	12
8	200	1/4	6	Boxed	40687	037103406873	00	1	5	595	12
8	200	1/4	6	Boxed	40699	037103406996	1	1	5	595	12
8	200	1/4	6	Boxed	40705	037103407054	2	1	5	595	12
8	200	1/4	6	Boxed	40717	037103407177	4	1	5	595	12

## 7 1/2"/190mm Silversmith's Rifflers

- Available in 2 shapes
- Made in approximately 7 1/8"/180mm lengths only
- Ideal for fine work



Length		Packed	Cat. No.	UPC No.	Shape	Cut No.	Shelf Pack
Inch	mm						
7 1/2	190	Boxed	<b>41018</b>	037103410184	3	2	12
7 1/2	190	Boxed	<b>41096</b>	037103410962	10	0	12
7 1/2	190	Boxed	<b>41102</b>	037103411020	10	2	12

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## Three Square Files



- Triangular in section with angles of 60°
- Double-cut on three sides, single-cut on edges
- Taper to point and have sharp corners

Length		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
6	150	Boxed	<b>41498</b>	037103414984	2	1	10	737	12

## Warding Files



- Used by locksmiths and anywhere a thin file is required
- Thin rectangular in section with thickness approximately 1/8 their width
- Taper slightly to point in width

Length		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
4	100	Boxed	<b>41588N</b>	037103415882	2	0	5	142	12
6	150	Boxed	<b>41612</b>	037103416124	0	0	13	369	12
6	150	Boxed	<b>41618</b>	037103416186	2	0	13	369	12
8	200	Boxed	<b>41636</b>	037103416360	00	1	10	737	12

## Nicholson® Curved Tooth Files

- Made on specially designed and improved Nicholson® machinery
- Fitted for smooth, rapid work on cast iron, bronze, lead, babbitt, aluminum, zinc, plastics and any steel up to the hardness of annealed tool steel
- Pitch and rake designed to avoid pinning and to provide smoothest finish
- Superior® milled tooth files

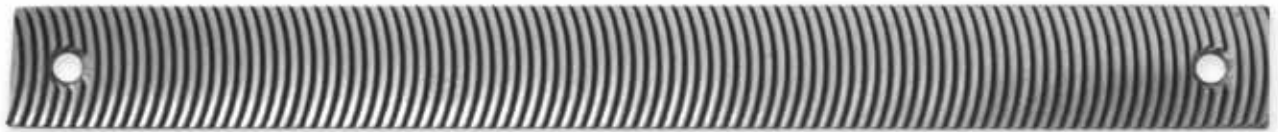
## Flexible Files (Without Tang)



- Ideal for smooth, rapid work on cast iron, bronze, lead, babbitt, aluminum, zinc, plastics and any steel up to the hardness of annealed tool steel
- Rectangular shape
- Curved-cut
- Pitch and rake designed to avoid pinning and to provide smoothest finish

Length		Packed	Cat. No.	UPC No.	No. of Teeth Per Inch/Cut	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
12	300	Boxed	20138N	037103219299	10/Standard	5	8	2495	6
14	350	Boxed	20205N	037103219312	12/Fine	7	1	3204	6

## Milled Tooth Bodifiles



- Ideal for smooth, rapid work on cast iron, bronze, lead, babbitt, aluminum, zinc, plastics and any steel up to the hardness of annealed tool steel
- Rectangular shape
- Curved-cut
- Pitch and rake designed to avoid pinning and to provide smoothest finish

Length		Cut	Packed	Cat. No.	UPC No.	No. of Teeth Per Inch/Cut	Wt. per doz.			Shelf Pack
Inch	mm						lb	oz	g	
14	350	50-908	Boxed	20189N	037103219404	8/Standard	7	1	3204	6

## Flat Files - Rigid Type (With Tang)



- Ideal for smooth, rapid work on cast iron, bronze, lead, babbitt, aluminum, zinc, plastics and any steel up to the hardness of annealed tool steel
- Rectangular shape
- Curved-cut
- Rigid type with tang
- Pitch and rake designed to avoid pinning and to provide smoothest finish

Length		Packed	Cat. No.	UPC No.	No. of Teeth Per Inch/Cut	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
8	200	Boxed	<b>20239N</b>	037103219411	14/Standard	2	12	1247	12
10	250	Boxed	<b>20291N</b>	037103219343	12/Standard	5	14	2665	6
12	300	Boxed	<b>20342N</b>	037103219367	10/Standard	9	5	4224	6
14	350	Boxed	<b>20393N</b>	037103219428	8/Standard	14	14	6747	6

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## Flat Babbit Files



- Ideal for smooth, rapid work on cast iron, bronze, lead, babbitt, aluminum, zinc, plastics and any steel up to the hardness of annealed tool steel
- Rectangular shape
- Curved-cut
- Exactly like flat files in shape, dimension and weight, but fewer teeth per inch
- Pitch and rake designed to avoid pinning and to provide smoothest finish

Length		Packed	Cat. No.	UPC No.	No. of Teeth Per Inch	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
12	300	Boxed	<b>20479N</b>	037103219381	8	9	4	4196	6
14	350	Boxed	<b>20496N</b>	037103219435	7	14	12	6691	6

## Flat Utility Files



- Ideal for smooth, rapid work on cast iron, bronze, lead, babbitt, aluminum, zinc, plastics and any steel up to the hardness of commercial tool steel
- Rectangular shape
- Standard-cut teeth on 1 side, smooth-cut teeth on the opposite
- Pitch and rake designed to avoid pinning and to provide smoothest finish

Length		Packed	Cat. No.	UPC No.	No. of Teeth Per Inch	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
12	300	Boxed	<b>20547N</b>	037103219374	10 and 16	10	3	4621	6



## Half Round Files



- Ideal for smooth, rapid work on cast iron, bronze, lead, babbitt, aluminum, zinc, plastics and any steel up to the hardness of commercial tool steel
- Half-round shape
- Flat on 1 side, convex on opposite
- Particularly adapted for bearings and concave surfaces

Length		Packed	Cat. No.	UPC No.	No. of Teeth Per Inch/Cut	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
8	200	Boxed	20582N	037103218599	14/Standard	3	8	1588	12

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## Super Shear®



- A double purpose milled curved tooth file - different and exclusive with Nicholson®
- Rectangular shape
- Curved-cut
- Teeth cut in an off center arc to permit fast cutting
- Wide industrial usage on flat and convex surfaces of aluminum, brass, babbitt, bronze, copper, magnesium, iron, annealed steel, soft metal alloys, plastics, hard rubber and hardwood
- Smooths as it roughs

Length		Packed	Cat. No.	UPC No.	No. of Teeth Per Inch/Cut	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
8	200	Boxed	21016N	037103219336	14/Standard	2	12	1247	12
10	250	Boxed	21067N	037103219350	12/Standard	5	14	2665	6
12	300	Boxed	21118N	037103219398	10/Standard	9	5	4224	6
14	350	Boxed	21169N	037103219442	8/Standard	17	0	7711	6

## Adjustable Flexible File Holder No. 25



- Can be used with either 12" or 14" files
- Easily adjusted for curving file outward or inward

No.	Packed	Cat. No.	UPC No.	lb	Wt. per doz.		Shelf Pack
					oz	g	
25	Boxed	21272	037103212726	2	0	907	1

## Machinist's Scrapers (Handled)

- Overall length of these tools including handle is approximately 8"
- Three square shape is supplied in hollow ground with 60° angle
- Comes with handle
- Packed 6 in box



Length		Dimensions				Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack	
Inch	mm	Inch	mm	x	Inch				mm	lb	oz		g
8	200	3 1/4	82	x	3/8	10	Boxed	<b>21667N</b>	037103219770	1	14	851	6

## Screw-on Handle - Plastic

- Screw-on design fits most popular files for professional or home handymen
- Handle made of strong high-impact material, contoured to fit hand for straight, lathe and draw filing
- Non-slip textured finish for easier grip



### Selection Chart

Item	Size - 4"	5"	6"	8"	10"	12"	14"	16"
Mill	PH3	-	PH4	PH5	PH5	PH6	PH7	PH8
Flat	PH3	-	PH4	PH5	PH5	PH6	PH7	PH8
Hand	PH3	-	PH4	PH5	PH6	PH7	PH8	-
Half round	PH3	-	PH4	PH5	PH6	PH7	PH8	PH8
Warding	PH3	-	PH4	PH4	PH5	-	-	-
Knife	PH3	-	PH4	PH5	PH5	PH6	-	-
Round	PH1	PH2	PH3	PH4	PH4	PH5	PH7	PH7
Square	PH1	PH2	PH3	PH4	PH4	PH5	PH6	-
Triangular	PH2	PH2	PH3	PH4	PH5	PH6	PH7	-
Cantsaw	-	-	PH4	PH5	PH6	-	-	-
Tanged horse rasp	-	-	-	-	-	PH8	PH8	-
Platers Special	-	-	-	-	-	-	PH8	-

Description	Handle No.	Packed	Cat. No.	UPC No.	Wt. per Shelf Pack			Shelf Pack
					lb	oz	g	
Screw-on plastic file handle	PH1	Carded	<b>21484</b>	037103214843	1.25	-	567	12
Screw-on plastic file handle	PH2	Carded	<b>21493</b>	037103214935	1.25	-	567	12
Screw-on plastic file handle	PH3	Carded	<b>21502</b>	037103215024	1.25	-	567	12
Screw-on plastic file handle	PH4	Carded	<b>21512</b>	037103215123	1.66	-	753	12
Screw-on plastic file handle	PH5	Carded	<b>21513</b>	037103215130	1.66	-	753	12
Screw-on plastic file handle	PH6	Carded	<b>21514</b>	037103215147	2.45	-	1111	12
Screw-on plastic file handle	PH7	Carded	<b>21515</b>	037103215154	2.75	-	1247	12
Screw-on plastic file handle	PH8	Carded	<b>21516</b>	037103215161	2.75	-	1247	12

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## Metal Ferruled Wooden Handles



- Made from close grain hardwood with nickel-plated ferrules
- Wax finish
- Handles have strong metal ferrules

### Selection Chart

Item	Size	4"	5"	6"	7"	8"	9"	10"
Taper		4	3	3	3	2	1	1
Slim		4	4	4	4	3	-	2
X Slim		4	4	4	4	4	-	-
XX Slim		-	4	4	4	4	-	-

Item	Size	8 x 3/16	8 x 7/32	8 x 1/4	8 x 5/16	8 x 3/8
Chainsaw		4	4	4	4	3

Item	Size	4"	6"	8"	10"	12"	14"
Mill		3	2	1	0	0	00
Flat		3	2	1	0	0	00
Hand		3	2	1	1	0	-
Half round		3	2	1	0	00	000
Warding		3	2	2	1	-	-
Knife		3	2	1	1	0	-
Round		4	3	2	3	1	0
Square		4	4	3	2	1	0
Cantsaw		-	2	1	1	-	-
Crosscut		-	-	1	0	-	-
Tanged horse rasp		-	-	-	-	000	000
Platers Special		-	-	-	-	-	000

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Handle No.	Type	Packed	Cat. No.	UPC No. 037103	Approximate size			Wt. per doz.			Shelf Pack		
					Inch	mm	x	Inch	mm	lb		oz	g
000	-	Boxed	21470N	221346	5 3/4	146	x	1 5/8	42	2	6	1179	12
00	-	Boxed	21471N	221247	5 3/4	146	x	1 5/8	42	2	3	1048	12
0	-	Boxed	21476N	221254	5 1/4	133	x	1 1/2	38	2	0	907	12
0	E	Carded	21528N	221537	5 1/4	133	x	1 1/2	38	2	3	1048	6
1	-	Boxed	21485N	221261	4 7/8	124	x	1 5/16	33	1	10	737	12
1	D	Carded	21526N	221339	4 7/8	124	x	1 5/16	33	1	14	851	6
2	-	Boxed	21494N	221278	4 1/2	114	x	1 3/16	30	1	4	567	12
2	C	Carded	21524N	221322	4 1/2	114	x	1 3/16	30	1	8	680	6
3	-	Boxed	21503N	221285	4 1/8	105	x	1 1/16	27	1	0	454	12
3	B	Carded	21522N	221315	4 1/8	105	x	1 1/16	27	1	4	567	6
4	-	Boxed	21511N	221292	3 3/4	95	x	1 5/16	24	0	12	340	12
4	A	Carded	21520N	221383	3 3/4	95	x	1 5/16	24	0	15	425	6

## Ergonomic File Handle



- Interchangeable cushion inserts are designed to fit most popular files
- Rubber-coated ergonomic shape for better comfort and control
- Rear taper, wide middle and flared neck increases push force

Description	Packed	Cat. No.	UPC No.	Wt. per Shelf Pack			Shelf Pack
				lb	oz	g	
Ergonomic File handle and inserts	Carded	21474H	037103186232	.8	12	340	6

## Carded File Handle - Plastic

- Interchangeable cushion inserts designed to fit most popular files for handyman
- Handle made of strong high-impact material, contoured to fit hand for straight, lathe and draw filing
- Non-slip textured finish for easier grip



Description	Packed	Cat. No.	UPC No.	Wt. per Shelf Pack			Shelf Pack
				lb	oz	g	
File handle and inserts	Carded	<b>21474</b>	037103214744	1	2	510	6

## File Cleaners

- Available in two styles - file card for general cleaning of file teeth and file card/brush especially for use on finer cut files



Length		Description	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
8	200	File Card #4	Carded	<b>21455</b>	037103214553	1	12	794	6
10	250	File Card	Boxed	<b>21458</b>	037103214584	3	11	1673	10
10	250	File Card & Brush	Boxed	<b>21467</b>	037103214676	5	0	2268	6

## Hoof Sharpening Steel

- Specially designed to sharpen hoof knives
- Sharpening steel is designed specially to hone the edge of Hoof Knives and similar tools



Cat. No.	UPC No.	Packed	lb	Pack Wt.		Shelf Pack
				oz	g	
<b>10627</b>	037103191274	Carded	1	0	454	6

## Hobby File Pack



- 6 miniature files with fine cut for intricate work
- Handy vinyl case vacuum packed on hang up card
- Ideal for handycrafts and hobbies

Contains 1 each of: Equaling, Half Round, Flat, Round, Square, and Three Square

Inch	Length		Description	Packed	Cat. No.	UPC No.	Pack Wt.			Shelf Pack
	mm						lb	oz	g	
5 1/2	140		Assorted	Carded	42030	037103420305	0	12	340	6

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## Handy Man's Home File Pack



- For home and professional use
- 8"/200mm mill bastard file
- 8"/200mm four-in-hand file
- 6"/150mm slim taper file
- 6"/150mm round bastard file
- Plastic pouch, or card, lists suggested uses for each file
- Pack measures 5"/125mm x 11 1/8"/293mm with hang up hole

Cat. No.	UPC No.	Packed	lb	Pack Wt.		Shelf Pack
				oz	g	
22017N	037103219145	Pouch	4	8	2041	5

## 3 File Pack



- For home and professional use
- Pack contains files for every purpose
- 6"/150mm slim taper file
- 6"/150mm round file
- 6"/150mm mill bastard file
- Plastic pouch lists suggested uses for each file

Cat. No.	UPC No.	Packed	lb	Pack Wt.		Shelf Pack
				oz	g	
22015N	037103218070	Pouch	0	5	142	5

## 4"/100mm American Pattern File Assortment

- 4" warding, half-round, round, hand, square and slim taper files
- All files come with handles
- Kit comes in bastard-cut only
- Six of the most popular 4" files packaged in an attractive plastic pouch



Length		Description	Packed	Cat. No.	UPC No.	Pack Wt.			Shelf Pack
Inch	mm					lb	oz	g	
4	100	Assortment-Bastard cut	Pouch	22062N	037103219213	0	12	340	2

## 8 Piece Machinist File Set

- 10"/250mm mill bastard file
- 10"/250mm half-round bastard file
- 10"/250mm flat bastard file
- 10"/250mm flat smooth file
- 10"/250mm square bastard file
- 10"/250mm round bastard file
- 7"/175mm slim taper file
- 10"/250mm file cleaner (card)
- Complete set of 7 files and file cleaner (card) fits easily and securely into a rugged, compact pouch



Cat. No.	UPC No.	Packed	lb	Pack Wt.		Shelf Pack
				oz	g	
22025N	037103219183	Pouch	3	8	1588	1

## 9 Piece Maintenance File Set

- For home and professional use
- 10"/250mm flat bastard file
- 10"/250mm flat smooth file
- 10"/250mm mill bastard file
- 10"/250mm half-round bastard file
- 10"/250mm round bastard file
- 8"/200mm flat smooth file
- 8"/200mm half-round bastard file
- 8"/200mm four-in-hand file
- 6"/150mm slim taper file
- Complete set of 9 files fits easily and securely into rugged, compact pouch



Cat. No.	UPC No.	Packed	lb	Pack Wt.		Shelf Pack
				oz	g	
22030N	037103218087	Pouch	3	10	1644	1



### 3 Piece Welder's Set



- For professional use, filing metals and other hard materials
- 14"/350mm half-round pipeliner file
- 12"/300mm half-round bastard file
- 10"/250mm mill smooth file
- Complete set of 3 files fits easily and securely into rugged, compact pouch

Cat. No.	UPC No.	Packed	Pack Wt.			Shelf Pack
			lb	oz	g	
22036N	037103219190	Pouch	2	14	1304	1

### 5 Piece General Purpose Set



- General purpose file kit for home and professional use
- 10"/250mm half-round bastard file
- 10"/250mm mill bastard file
- 8"/200mm mill bastard file
- 8"/200mm mill smooth file
- 6"/150mm slim taper file
- Set of 5 files fits easily and securely into rugged, compact pouch

Cat. No.	UPC No.	Packed	Pack Wt.			Shelf Pack
			lb	oz	g	
22040N	037103219206	Pouch	1	10	737	1

### 7 Piece Machinist File Set



- General purpose file kit for machine shop
- 10"/250mm flat bastard file
- 10"/250mm flat smooth file
- 10"/250mm half-round bastard file
- 10"/250mm mill bastard file
- 10"/250mm round bastard file
- 10"/250mm square bastard file
- 7"/175mm slim taper file

Cat. No.	UPC No.	Packed	Pack Wt.			Shelf Pack
			lb	oz	g	
22024N	037103219176	Pouch	3	8	1588	1

## Thread Restoring Files

- Used to restore damaged or worn external threads on bolts, pipes, etc.
- Each thread restoring file will work with 8 different thread sizes
- Available in 3 sizes and in a convenient 4-piece set
- Caps are color coded:  
#1=Black; #2=Red; #8=Blue
- Files are made in U.S.A.



33024

Cat. No.	UPC No.	Type	Description	Pack Wt.			Shelf Pack
				lb	oz	g	
33001	037103330017	1	Regular Bolt; 11, 12, 13, 14, 16, 18, 20, 24 TPI	-	6	170	1
33007	037103330079	2	Ex. Fine/Ex. Coarse Bolt; 9, 10, 12, 16, 20, 27, 28, 32 TPI	-	6	170	1
33016	037103330161	8	Metric Bolt; .80, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0 mm	-	6	170	1
33024	037103330246	-	1 Each of above files, and a #7 file, in pouch	1	10	737	1

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## 3 Piece Ergonomic File Set

- Rubber-coated ergonomic handles for better comfort and control
- Basic selection for home and professional use
- 6"/150mm mill bastard file
- 6"/150mm half-round bastard file
- 6"/150mm round bastard file
- Set of 3 files fits easily and securely into rugged compact pouch



Cat. No.	UPC No.	Packed	Pack Wt.			Shelf Pack
			lb	oz	g	
22015HN	037103219121	Pouch	0	11	312	1

## 5 Piece Ergonomic File Set

- Rubber-coated ergonomic handles for better comfort and control
- General purpose selection for home and professional use
- 6"/150mm slim taper file
- 8"/200mm flat bastard file
- 8"/200mm mill bastard file
- 10"/250mm mill bastard file
- 10"/250mm half-round bastard file
- Set of 5 files fits easily and securely into rugged compact pouch



Cat. No.	UPC No.	Packed	Pack Wt.			Shelf Pack
			lb	oz	g	
22040HN	037103218100	Pouch	2	4	1021	1



## 9 Piece Ergonomic File Set



- Rubber-coated ergonomic handles for better comfort and control
- Broad selection for home and professional use
- 6"/150mm XXslim taper file
- 6"/150mm slim taper file
- 8"/200mm half-round bastard file
- 8"/200mm flat bastard file
- 10"/250mm round bastard file
- 10"/250mm half-round bastard file
- 10"/250mm mill bastard file
- 10"/250mm flat bastard file
- 12"/300mm mill bastard file
- Set of 9 files fits easily and securely into rugged compact pouch

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Cat. No.	UPC No.	Packed	Pack Wt.			Shelf Pack
			lb	oz	g	
22030HN	037103218094	Pouch	4	12	2155	1

## Machetes



MP12722

- Fully polished high carbon steel blade for durability
- Laquer clear-coated blade resists corrosion
- High-impact handle with contour and texture to improve control

Cat No.	UPC No.	Description	Length		Pack Wt.		Shelf Pack
			Inch	mm	lb	g	
MP12718	037103169693	Machete	18	457	0.92	417	10
MP12722	037103169686	Machete	22	559	1.32	599	10
MP12724	037103190697	Machete	24	610	1.50	680	10

## 4-in-1 Pro Series Hacksaw Frame

- Cushioned rubber grip reduces slippage for better control and comfort
- Standard 90 degree for general use
- 45 degree angle for flush cuts
- Low profile position for tight spaces
- Jab saw configuration for a variety of inside cuts
- High tension technology for tightening the blade up to 30,000 psi
- Magnetic blade storage to store extra hacksaw or reciprocating blade
- Patents Pending
- The following Patents apply: D514,418 and 7,007,394



Cat. No.	UPC No.	Type	Blade		Pack Wt.		Shelf Pack
			Inch	mm	lb	g	
80975	037103809759	4-in-1 Pro Series	12	304	2.5	1133	4

Weight shown per shelf pack

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## Cushion Grip Hacksaw Frame

Professional and Industrial

- Unique cushioned rubber grip reduces slippage for better control and comfort
- Rugged, sturdy frame built for professional tool users
- High tension technology for tightening the blade to 30,000 PSI
- Blade can be positioned for 45° or 90° cutting
- Patented quick change blade design



Cat. No.	UPC No.	Type	Blade		Pack Wt.		Shelf Pack
			Inch	mm	lb	g	
80965	037103809650	Cushion Grip High Tension	12	304	14	6350	6

Weight shown per shelf pack

## High Tension Hacksaw Frame

- Quick changing blades
- Adjustable crank handle for tension up to 30,000 PSI torque and micro-adjustment
- Spare blades can be stored inside frame
- Blade can be positioned for 45° or 90° cutting
- End of frame can be used as a jab saw



Cat. No.	UPC No.	Type	Blade		Pack Wt.		Shelf Pack
			Inch	mm	lb	g	
80956	037103809568	High Tension Adjustable	12	254	12	5443	6

Weight shown per shelf pack

## Heavy Duty Hacksaw Frame



- High impact, contoured handle
- Adjust to 10" o 12"
- 45° blade adjustment

Cat. No.	UPC No.	Type	Blade		Pack Wt.		Shelf Pack
			Inch	mm	lb	g	
80952	037103809520	Adjustable	10	254	9	4082	6

Weight shown per shelf pack

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## General Purpose Hacksaw Frame



- Instantly adjustable for 10"/250mm to 12"/300mm blades
- Adjusts 90° for vertical or horizontal cuts

Cat. No.	UPC No.	Type	Blade		Pack Wt.		Shelf Pack
			Inch	mm	lb	g	
80951	037103809513	Adjustable	10	254	6.6	4196	6

Weight shown per shelf pack

## Economy Hacksaw Frame



- Adjustable from 10"/250mm to 12"/300mm
- Cuts to 2.75"/70mm in depth
- For DIY and home use

Cat. No.	UPC No.	Type	Blade		Pack Wt.		Shelf Pack
			Inch	mm	lb	g	
80950	037103809506	Adjustable	10/12	254	3.5	1587	5

Weight shown per shelf pack

## Little-Nic® Utility Hacksaw

- For professionals and homeowners
- Ergonomic cushioned handle
- Gets into small places, makes difficult cutting jobs easy
- Overall length 10"/254mm, will fit into any tool box
- Uses any standard size hacksaw blade
- Blister packed on attractive card with suggested uses on back



Cat. No.	UPC No.	Packed	Blade		Pack Wt.		Shelf Pack
			Inch	mm	lb	g	
80968	03710380968110	Carded	10	254	1.40	652	6

Weight shown per shelf pack

## Jab Saw with Sheath

- Non-slip, comfort grip handle
- Aggressive tooth design. Cuts on the push and pull stroke
- Sharpened tip makes cutting drywall easier
- Includes ballistic nylon sheath for safe storage
- Great for projects such as drywall, cement board, wood or plastic



Cat. No.	UPC No.	Packed	Blade		Pack Wt.		Shelf Pack
			Inch	mm	lb	g	
NS500	037103212269	Carded	6.5	165	2.88	1306	4

Weight shown per shelf pack

## Jab Saw

- Special saw always needed for the difficult jobs: those narrow, hard-to-read areas
- Jab saw will work with any standard size hacksaw blade
- Can replace worn blade easily: Untighten adjusting saw, remove worn blade and replace with a new Nicholson® blade, re-tighten the adjusting screw
- A must for all tool boxes



Cat. No.	UPC No.	Packed	Blade		Pack Wt.		Shelf Pack
			Inch	mm	lb	g	
80969	03710380809698	Carded	10	254	3.75	1701	12

Weight shown for shelf pack

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## Bi-Metalloy® Hand Hacksaw Blades



### Standard Packs

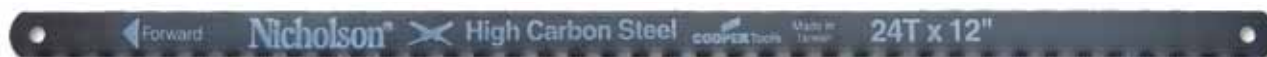
- Molybdenum alloy tool steel edge
- Tough flexible high carbon steel backing
- Lasts twice as long as high-speed steel
- Lasts up to ten times longer than carbon steel
- Operates 20% to 50% faster
- High tooth hardness and shock resistance

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Ref. No.	Set Type	** Boxed		* Carded		Length Inch mm	Teeth Per Inch	Width		Gauge		Wt. per 50 Carded		Wt. per 100 Boxed	
		Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103			Inch	mm	Inch	mm	Inch	mm	lb	kg
NF1018	Wavy	62635	626356	62811	628114	10 254	18	1/2	12.70	.025	.65	4.2	1.91	3.75	1.70
NF1024	Wavy	62659	626592	62830	628305	10 254	24	1/2	12.70	.025	.65	4.2	1.91	3.75	1.70
NF1214	Raker	62706	627063	--	--	12 304	14	1/2	12.70	.025	.65	4.8	2.18	4.5	2.05
NF1218	Wavy	62723	627230	62826	628268	12 304	18	1/2	12.70	.025	.65	4.8	2.18	4.5	2.05
NF1224	Wavy	62749	627490	62832	628329	12 304	24	1/2	12.70	.025	.65	4.8	2.18	4.5	2.05
NF1232	Wavy	62776	627766	62839	628398	12 304	32	1/2	12.70	.025	.65	4.8	2.18	4.5	2.05

\* Carded: 2 blades per card - 10 cards per bag - 40 bags per carton. \*\* Boxed: packaged 100 blades per box.

## Solid Flexible Carbon Steel



- Solid high carbon steel
- Tempered to provide hard edge with flexible back
- Specially hardened to induce toughness
- Economy blade for sawing light to medium-hard materials
- A good balance of wear resistance and mechanical shock absorbing properties
- Virtually unbreakable

Ref. No.	Set Type	** Boxed		* Carded		Length Inch mm	Width		Gauge		Teeth Per Inch	Wt. per 50 Carded		Wt. per 100 Boxed	
		Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103		Inch	mm	Inch	mm		Inch	mm	lb	kg
SS1018	Wavy	63103	631039	-	-	10 254	1/2	12.70	.025	.65	18	5.5	2.5	3.75	1.70
SS1024	Wavy	63112	631121	63220	632203	10 254	1/2	12.70	.025	.65	24	5.5	2.5	3.75	1.70
SS1218	Wavy	63145	631459	63256	632562	12 304	1/2	12.70	.025	.65	18	6	2.73	4.5	2.05
SS1224	Wavy	63158	631589	63268	632685	12 304	1/2	12.70	.025	.65	24	6	2.73	4.5	2.05
SS1232	Wavy	--	--	63280	632807	12 304	1/2	12.70	.025	.65	32	6	2.73	4.5	2.05

Packaged 100 blades per carton \* Carded: 2 blades per card - 10 cards per bag - 40 bags per carton. \*\* Boxed: Packaged 100 blades per box.

# Hand Hacksaw Blade – Care and Servicing

## Blade Breakage

1. Lack of tension. Tighten until taut.
2. Too much tension. Loosen slightly.
3. Cutting in awkward position. Use flexible type blades.
4. Jamming in cut. Hold work securely – stock should fall free after cut. In soft material teeth may be binding because they are too fine.

## Pinhole Breakage

1. Too much tension. Loosen slightly.
2. Worn pins causing pressure on eyeholes. Replace pins.

## Rounded Teeth - Premature Wear

1. Blade not cutting. Use slower stroke and apply heavier feed.
2. Dragging on return stroke. Lift saw.
3. Material too hard. Select proper blade.

## Crooked Cutting

1. Too much pressure. Reduce feed.
2. Blade out of alignment. Check frame and blade tension.
3. Blade worn out. Replace.

## Tooth Breakage

1. Teeth too coarse. Keep three teeth in the work.
2. Too much feed, teeth loading. Ease feed pressure.
3. Teeth too fine, clogging. Change to coarser tooth.
4. Starting cut on sharp corner. Reposition work.

## General Tooth Recommendations

**14 Tooth:** For cutting stock 1”/25.40mm or over in cross section.

For soft materials where maximum chip clearance is needed.

**18 Tooth:** For general shop use, when same blade is used on several jobs.

**24 Tooth:** For cross section 1/16”/1.58mm – 1/4”/6.35mm such as pipe, angles, small drill rod.

**32 Tooth:** To cut stock up to 1/16”/1.58mm such as light tubing, sheet metal, BX.

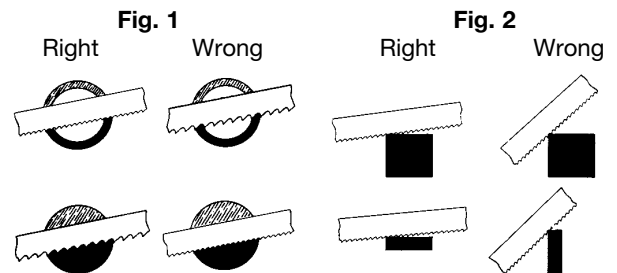
At least three teeth should be in contact with the work at all times.

## Choose the Right Number of Teeth Per Inch

The sketches below (figure 1) show how coarseness of teeth affects blade efficiency. Speed varies according to material being cut and saw blade coarseness.

## Starting the Cut

If possible, avoid starting cut on a sharp corner. When unavoidable, begin with light pressure and use a steady forward stroke. As many teeth as possible should be in contact with the cutting area and at least three teeth must be engaged. Note cutting angles shown below (figure 2).



## Predator® Handsaws



- Ergonomic handle with rubber-coated grip for comfort and control
- Razor sharp diamond ground teeth for easier cuts
- Induction hardened Hard Point (H.P.) teeth never need resharpening
- Handle features 45/90 degree shape for marking angles

Cat No.	UPC No.	Length		Points Per Inch	Tooth Style	Package Weight		Shelf Pack
		Inch	mm			lb	g	
NSP1	037103172358	24	608	8	Standard/H.P.	1.2	544	4
NSP2	037103172365	24	608	10	Standard/H.P.	1.2	544	4
NSP5	037103172396	15	381	8	Aggressive/H.P.	0.8	363	4

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## Professional Handsaws



NS1501

- Precision set teeth for smooth cuts
- Hardened and tempered polished steel blade with resharpenable teeth for long life
- Handles on 15" and 20" models features 40/90 degree shape for marking angles

Cat No.	UPC No.	Length		Points Per Inch	Tooth Style	Package Weight		Shelf Pack
		Inch	mm			lb	g	
NS1501	037103172310	24	608	8	Standard	2.5	1134	2
NS1502	037103172327	24	608	12	Standard	2.5	1134	2
NS1503	037103172334	20	508	8	Standard	2	907	2
NS1504	037103172341	15	381	8	Standard	2	907	2

## Quik-Cut Economy Handsaw



NS1501

- Precision set teeth for smooth cuts
- Hardened and tempered polished steel blade with resharpenable teeth for long life
- Handle features 40/90 degree shape for long life
- 15"/381mm length, 8 points per inch, standard tooth style

Cat No.	UPC No.	Length		Points Per Inch	Tooth Style	Package Weight		Shelf Pack
		Inch	mm			lb	g	
NS503N	037103227126	15	381	8	Standard	7	3175	10

## 4 1/4" Coping Saw

- Popular with carpenters and home craftsman
- Throat opening permits cuts up to 4 1/4"/114mm depth
- Spring steel, rounded edge frame with polished finish
- Adjustable angle blade
- Straight type wood handle



Cat. No.	UPC No.	Length		Blade Length		Blade Width		Points	Pack Weight		Shelf Pack
		Inch	mm	Inch	mm	Inch	mm		lb	g	
80170	037103801708	12 1/2	317	6 1/2	165	1/8	3.17	15	4.81	2183	10

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## 6 1/2" Coping Saw

- Used for cutting sharp angles and curves
- Throat opening permits cuts up to 6 1/2"/165mm
- Spring steel, rounded edge frame with polished finish
- Adjustable angle blade
- Straight type wood handle



Cat. No.	UPC No.	Length		Blade Length		Blade Width		Points	Pack Weight		Shelf Pack
		Inch	mm	Inch	mm	Inch	mm		lb	g	
80176	037103801760	12 3/4	324	6 1/2	165	1/8	3.17	15	7.00	3175	10

## Coping Saw Blades

- 6 1/2"/165mm long
- 15 points, pin end
- Fits Nicholson® model No. 50 and No. 60 frames
- Blister packed
- 5 blades per card



Cat. No.	UPC No.	Length		Blade Width		Points	Pack Weight		Shelf Pack
		Inch	mm	Inch	mm		lb	g	
80182N	037103801821	6 1/2	165	1/8	3.17	15	.56	255	1 card



## Predator® Compass/Keyhole Saw



- Ergonomic handle with rubber-coated grip for comfort and control
- Razor sharp diamond ground teeth for easier cuts
- Induction hardened Hard Point (H.P.) teeth never need resharping
- Blade tapered to a point for starting holes and cutting curves

Cat No.	UPC No.	Length		Points Per Inch	Tooth Style	Package Weight		Shelf Pack
		Inch	mm			lb	g	
NSP9	037103172426	12	305	8	Hard Point	0.4	181	4

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## BowHack® Combination Bowsaw and Hacksaw

**Black**



- Two saws in one! Comes with two blades: Hacksaw for metal and plastic, a bowsaw for wood and general yard work
- Built-in hand safety guard helps prevent injuries
- Hacksaw blade: Long-lasting high-speed steel
- Full 6" throat makes cutting plastic pipe easy
- Includes safety blade guard for storage
- Bowsaw blade cuts in both directions

Cat. No.	UPC No.	Description	Length		Pack Weight		Shelf Pack
			Inch	mm	lb	g	
80799	037103807991	Combination Bowsaw & Hacksaw	12	300	15.5	7031	10
80814	037103808141	12" Replacement Bowsaw Blade	-	-	10.9	4944	10

Weight shown is for shelf pack

## BowHack® Combination Bowsaw and Hacksaw

**Hi-Viz® Orange**



- Two saws in one! Comes with two blades: Hacksaw for metal and plastic, a bowsaw for wood and general yard work
- Built-in hand safety guard helps prevent injuries
- Hacksaw blade: Long-lasting high-speed steel
- Full 6" throat makes cutting plastic pipe easy
- Includes safety blade guard for storage
- Bowsaw blade cuts in both directions
- Shipped at a case-cut counter display

Cat. No.	UPC No.	Description	Length		Pack Weight		Shelf Pack
			Inch	mm	lb	g	
80777	0371038077791	Combination Bowsaw & Hacksaw	12	300	15.5	7031	5

Weight shown is for shelf pack

## Curved Pruner

- General-purpose pruner for fast cutting of small limbs
- A favorite in citrus groves and vineyards
- Silver Steel® constructed blade with polished finish
- Easy-to-grip knife-type wood handle trimmed with aluminum screws
- Full cardboard sleeve protects the blade



Cat. No.	UPC No.	Length		Reverse Rip Points	Pack Weight		Shelf Pack
		Inch	mm		lb	g	
80263	037103802637	14	354	6	3.19	1446	6

## Double Edge Pruner

- Lightweight, economy pruner
- Dual-purpose pruner
- Special steel constructed blade
- Fine teeth on one edge for light trimming, lightning teeth on opposite for heavier limbs
- Wood handle
- Plastic sleeve for blade protection



Cat. No.	UPC No.	Length		Points	Pack Weight		Shelf Pack
		Inch	mm		lb	g	
80269	037103802699	16	406	8 (fine edge)	5.00	2268	6

## Silver Flash Pruner

- Heavy-duty
- Preferred by utility crews and tree surgeons
- Silver Steel® constructed blade, flat ground
- Concave cutting edge has precision set and bevel filed teeth that cut fast on the pull stroke
- Extra large teeth and gullets for speed cutting large limbs
- Wood handle
- Full cardboard sleeve protects blade



Cat. No.	UPC No.	Length		Pack Weight		Shelf Pack
		Inch	mm	lb	g	
80299	037103802996	26	660	10	4536	6

## Tuttle Tooth Pruner

- All-purpose saw for general pruning
- Special steel constructed blade
- Teeth designed for fast cutting of large limbs and firewood
- Wood handle
- Full cardboard sleeve protects blade



Cat. No.	UPC No.	Length		Pack Weight		Shelf Pack
		Inch	mm	lb	g	
80309	037103803092	24	610	10.63	4822	6

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1891.....	116	6150.....	120	8704.....	123	16696.....	131	35982.....	138
1894.....	116	6198.....	120	8737.....	123	16729.....	131	36054.....	138
1974.....	116	6601.....	121	8768.....	123	16761.....	131	36126.....	138
2215.....	117	6602.....	121	8799.....	123	16794.....	131	36219.....	138
2244.....	117	6637.....	118	8832.....	123	16827.....	131	36227.....	138
2373.....	131	6649.....	118	8894.....	123	16859.....	131	36253.....	138
2375.....	131	6668.....	118	8922.....	118	16891.....	131	36281.....	138
3129.....	114	6686.....	121	8925.....	123	19846.....	136	36521.....	138
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3467.....	118	6836.....	121	10799.....	131	21493.....	147	36569.....	138
3500.....	118	6867.....	121	11118.....	124	21502.....	147	36755.....	139
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3534.....	119	6930.....	121	11904.....	125	21513.....	147	36987.....	139
3566.....	118	6961.....	121	11936.....	125	21514.....	147	37029.....	140
3599.....	118	6992.....	121	11969.....	125	21515.....	147	37035.....	140
3632.....	118	7023.....	121	12019.....	125	21516.....	147	37053.....	140
3633.....	119	7054.....	121	12051.....	125	21687.....	123	37060.....	140
3665.....	118	7085.....	121	12084.....	125	21694.....	123	37081.....	140
3698.....	118	7657.....	122	12131.....	125	21701.....	123	37088.....	140
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