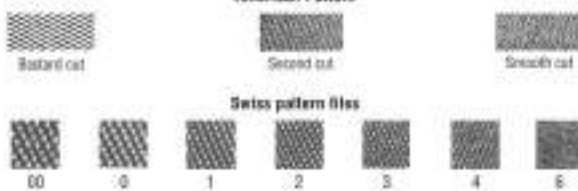


The Nicholson logo is displayed in a large, white, serif font with a registered trademark symbol (®) to the upper right of the word. The background of the entire advertisement is a dark, blue-tinted photograph of a construction site. In the foreground, a hand is shown holding a Nicholson hand saw, with its blade angled across the frame. Below the saw, a Nicholson hand tool with a black handle and a metal shaft lies on a surface. In the background, a construction worker wearing a white hard hat and a light-colored t-shirt is working at a workbench supported by sawhorses. The overall scene is industrial and professional.

WWW.HERRAMIENTASINDUSTRIALESAS.COM

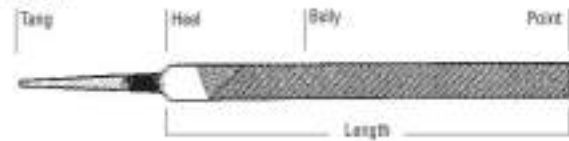
File Terminology

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

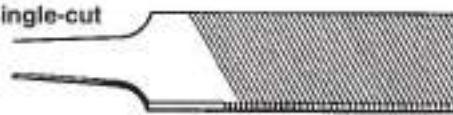
Shape



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

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

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

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

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

Nicholson

Length		Diameter		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
Inch	mm	Inch	mm				lb	oz	g	
Flat										
8	200	-	-	Carded	21748H	037103167903	3	3	1446	6
10	250	-	-	Carded	21858H	037103167910	4	5	1956	6
Half Round										
6	150	-	-	Carded	04798HN	037103218957	2	2	946	6
8	200	-	-	Carded	21745HN	037103219039	2	13	1276	6
10	250	-	-	Carded	21746HN	037103219046	4	5	1956	6
Mill										
6	150	-	-	Carded	21687H	037103167729	1	14	851	6
8	200	-	-	Carded	21694H	037103167736	2	13	1276	6
10	250	-	-	Carded	21701H	037103167743	4	4	1928	6
12	300	-	-	Box	21842H	037103167750	0	14	397	1
Round										
8	200	-	-	Carded	21715H	037103167828	2	1	936	6
Slim Taper										
6	150	-	-	Carded	21729HN	037103217882	1	7	652	6
Half Round Wood Rasp										
8	200	-	-	Carded	21749HN	037103219053	2	13	1276	6
Sets										
3 Piece Set				Pouch	22015HN	037103219121	0	11	312	1
5 Piece Set				Pouch	22040HN	037103218100	2	4	1021	1
9 Piece Set				Pouch	22030HN	037103218094	4	12	2155	1
Handles Only										
w/2 inserts/adapters				Card	21474H	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	6

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

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

Aluminum Files - Type "A" Half Round



- Special tooth construction eliminates clogging when filing aluminum
- Half-round 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	00113N	037103218452	1	9	765	12
8	200		Boxed	00136N	037103218797	3	0	361	12
10	250		Boxed	00161N	037103218834	5	12	2608	6
12	300		Boxed	00187N	037103218919	10	7	4734	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

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	mm					lb	oz	g	
7	175		Boxed	00250	037103002587	0	11	312	12

Nicholson

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

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

- All "flat" files have teeth on both sides
- D/C refers to double-cut, S/C refers to single-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.	Bend "R"		Wt. per doz.			Shell Pack
						Inch	mm	lb	oz	g	
50-210 D/C	10	1 11/32" x 5/16" -14 Flat Bent	Boxed	03129	031297	50	1271	16	10	7541	6
50-404 D/C*	20	1 11/32" x 5/16" -14 Flat Bent	Boxed	03184	031846	196	4981	16	10	7541	6
50-407 D/C	13	1 11/32" x 5/16" -14 Flat Bent	Boxed	03212	032126	80	2033	16	10	7541	6
50-416 D/C**	20	1 11/32" x 5/16" -14 Flat Bent	Boxed	03278	032782	196	4981	16	10	7541	6

Cabinet Files



- Used by cabinetmakers and woodworkers
- Files are half-round in section
- Teeth are slightly finer than those of wood files

- Radius is larger and thinner than regular half-round files

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shell Pack
					lb	oz	g	
8	200	Boxed	01232N	037103219565	3	0	1361	12
10	250	Boxed	01260N	037103219589	5	7	2486	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

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shell Pack
					lb	oz	g	
Cut back								
6	150	Boxed	01327	037103013279	1	7	652	12
8	200	Boxed	01367	037103013873	3	3	1446	12
10	250	Boxed	01418	037103014184	5	9	2523	12

Chain Saw Files - Round - Carded



01530



01574

- 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.			Shell 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	6
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	6
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

Nicholson

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.			Shell 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	5/32	3.96	Boxed	02228N	037103221704	0	11	312	6
8	200	3/16	4.76	Boxed	02229N	037103221711	0	13	369	6
8	200	7/32	5.55	Boxed	02230N	037103221728	1	2	510	6
8	200	1/4	6.35	Boxed	02147N	037103221698	1	6	624	6

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	02215	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	02244	037103022448	1	8	680	12

Crosscut - Great American



- Used for sharpening saws of Great American type and varieties of crosscut saws
- Triangular shape
- Single-cut
- Rounded back and thin edge are cut
- Same number of teeth per inch as mill bastard files of equivalent length
- Rounded back used to deepen rounded gullets of saw teeth

Code No.	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	Inch	mm				lb	oz	g	
2	8	200	Boxed	02435	037103024350	3	4	1474	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	02884M	037103028846	0	11	312	12
7	175		Boxed	02905M	037103029058	0	13	369	12
8	200		Boxed	02926M	037103029263	1	4	567	12

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	06637	037103066374	3	8	1588	6
8	200		Boxed	06649	037103066497	4	12	2155	12
8	200		Carded	08922	037103089229	5	2	2381	6
10	250		Boxed	06668	037103066688	8	2	4508	12

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. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	lb	oz	g	
4	100	03367	033673	03401	034014	03434	034342	0	9	255	12
6	150	03467	034670	03500	035004	03533	035332	1	9	709	12
8	200	03566	035660	03599	035998	03632	036322	3	12	1701	12
10	250	03665	036650	03698	036988	03731	037312	7	3	3261	6
12	300	03764	037640	03797	037978	03830	038302	11	4	5103	6
14	350	03863	038630	03896	038968	03929	039293	16	10	7541	6
16	400	03980	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		Wt. per Shelf Pack			Shelf Pack
			Cat. No.	UPC No.	Cat. No.	UPC No.	lb	oz	g	
6	150	No	21867	037103218674	03534	037103035349	1	5	595	6
8	200	No	21862	037103218629	03633	037103036339	2	7	1106	6
8	200	Ergonomic	21748H	037103187903	-	-	3	3	1446	6
10	250	No	21868	037103218681	03732	037103037329	3	9	1616	6
10	250	Ergonomic	21868H	037103167910	-	-	4	5	1956	6
12	300	No	03762	037103037626	-	-	5	14	2667	6

Half Round Files - Boxed



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

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	04695N	218513	04729N	218407	04762N	218414	0	10	284	12
6	150	04795N	218520	04828N	218438	04861N	218445	1	0	709	12
8	200	04896N	218551	04927N	218568	04960N	218728	3	5	1503	12
10	250	04995N	218803	05026N	218612	05059N	218827	6	1	2750	6
12	300	05094N	218850	05125N	218841	05158N	218889	10	8	4763	6
14	350	05194N	218926	05225N	218933	05258N	218711	16	4	7371	6
14	350	05190N	218940	Pipeliner	-	-	-	16	4	7371	6
16	400	05307N	219018	-	-	-	-	23	14	10830	6

Half Round Files - Carded



- Used on concave, convex and flat surfaces
- Rounded on 1 side, flat on opposite
- Backs of all half-round bastard files are double-cut
- Backs of all half-round second-cut files longer than 6" are double-cut
- Backs of all 4 and 6" files are single-cut
- Backs of all half-round smooth files are single-cut
- Flat sides of all half-round files are double-cut
- Carded

Length		Handled	Bastard Cut		Second Cut		Wt. Per Shell Pack			Shell Pack
Inch	mm		Cat. No.	UPC No.	Cat. No.	UPC No.	lb	oz	g	
6	150	No	21881N	037103219114	-	-	1	6	624	6
6	150	Yes	-	-	04832N	037103218964	1	9	709	6
6	150	Ergonomic	04798HN	037103218957	-	-	2	2	964	6
8	200	No	21857N	037103219077	-	-	2	1	936	6
8	200	Yes	21745N	037103219022	04832N	037103218995	2	7	1106	6
8	200	Ergonomic	21745HN	037103219039	-	-	2	13	1276	6
10	250	No	21858N	037103219001	-	-	3	9	1616	6
10	250	Ergonomic	21746HN	037103219046	-	-	4	5	1956	6
12	300	No	05090N	037103219015	-	-	11	8	5216	6

Hand Files

Nicholson



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

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

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
					lb	oz	g	
8	200	Carded	06601	037103066015	2	5	1048	6
8	200	Boxed	06602	037103066022	5	9	2581	12
12	300	Boxed	06606	037103066062	11	6	7768	6

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

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
					lb	oz	g	
10	250	Carded	11408	037103114084	2	4	1020	6

Nicholson

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. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	lb	oz	g	
4	100	06711	067111	06742	067425	06773	067739	0	6	170	12
6	150	06804	068040	06836	068361	06867	068675	1	3	539	12
8	200	06898	068989	06930	069306	06961	069610	2	8	1134	12
10	250	06992	069924	07023	070234	07054	070548	4	10	2098	12
12	300	07085	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	07657	037103076571	7	3	3260	6
12	300	Boxed	07668	037103076895	11	4	5103	6
14	350	Boxed	07719	037103077195	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	07835	037103078353	4	1	1860	12
10	250	Boxed	07842	037103078421	3	8	1730	6
12	300	Boxed	07851	037103078513	5	8	2638	6
14	350	Boxed	07863	037103078636	8	8	3998	6

Nicholson

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	07894	037103078940	3	12	1701	12
10	250	Boxed	07917	037103079176	3	7	3260	6
12	300	Boxed	07941	037103079411	11	4	5103	6
14	350	Boxed	07965	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		lb	Wt. Per Doz.		Shell Pack
		Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103		oz	g	
4	100	08243	082435	-	-	08308	083067	0	8	227	12
6	150	08354	083548	08385	083852	08416	084163	1	3	539	12
6	150	21687H*	167729	-	-	-	-	1	14	851	6
8	200	08497	084972	08529	085290	08568	085683	2	12	1247	12
10	250	08642	086426	08673	086730	08704	087041	5	7	2466	12
12	300	08737	087379	08768	087683	08799	087997	9	1	4111	6
12	300	21842H*	167750	-	-	-	-	0	14	397	1
14	350	08832	088321	-	-	08894	088949	14	0	6350	6
16	400	08925	089250	-	-	-	-	21	0	9528	6

*Indicates ergonomic handle

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		lb	Wt. per Shell Pack		Shell Pack
			Cat. No.	UPC No.	Cat. No.	UPC No.		oz	g	
6	150	No	21825	037103218254	-	-	1	2	510	6
6	150	Yes	21687	037103216878	-	-	1	5	595	6
6	150	Ergonomic	21687H	037103167729	-	-	1	13	851	6
8	200	No	21832	037103218322	08559	037103085597	2	1	906	6
8	200	Yes	21694	037103216946	-	-	2	4	1021	6
8	200	Ergonomic	21694H	037103167736	-	-	2	13	1276	6
10	250	No	21839	037103218391	08702	037103087027	3	8	1588	6
10	250	Yes	21701	037103217011	-	-	3	14	1758	6
10	250	Ergonomic	21701H	037103167743	-	-	4	4	1928	6
12	300	No	21842	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		Packed	Type Cut	One Round Edge		Two Round Edge		WT. per doz.			Shell Pack
Inch	mm			Cat. No.	UPC No.	Cat. No.	UPC No.	lb	oz	g	
8	200	Boxed	Bastard	09090	037103000997	09389	037103093899	2	13	1276	12
10	250	Boxed	Bastard	09179	037103091796	09469	037103094698	5	1	2296	12
12	300	Boxed	Bastard	09227	037103092274	-	-	9	1	4111	6

Mill Western Cut Files



- For those who desire fast cutting mill files
- Rectangular shape
- Western cut

Length		Packed	Cat. No.	UPC No.	WT. per doz.			Shell Pack
Inch	mm				lb	oz	g	
12	300	Boxed	09677	037103096777	9	1	4111	6

Nicholson

Pillar Files



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

Length		Packed	Type Cut	Cat. No.	UPC No.	WT. per doz.			Shell Pack
Inch	mm					lb	oz	g	
8	200	Boxed	Bastard	11118	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		Diameter		Bastard Cut		Second Cut		Smooth Cut		Wt. per doz.			Shell
Inch	mm	Inch	mm	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	lb	oz	g	Pack
4	100	5/32	4	12790	127907	-	-	12857	128577	0	4	113	12
6	150	1/4	6	12967	129673	13000N	130006	13033	130334	1	1	482	12
8	200	5/16	8	13081	130815	13114	131140	13147	131478	1	15	879	12
10	250	3/8	10	13196	131966	13229	132291	13262	132628	3	14	1758	12
12	300	1/2	13	13310	133106	13343	133434	13376	133762	8	6	3709	6
14	350	5/8	16	13425	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.			Shell
Inch	mm	Inch	mm	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	lb	oz	g	Pack
4	100	1/8	3	11526	115263	11559N	100009	11592N	115928	0	4	113	12
5	125	3/16	5	11637	116376	-	-	-	-	0	9	255	12
6	150	1/4	6	11716	117168	11748	117489	11781	117816	0	14	397	12
8	200	5/16	8	11904	119048	11936	119360	11969	119698	1	6	824	12
10	250	3/8	10	12019	120199	12051	120510	12084	120847	3	3	1446	12
12	300	1/2	13	12134	121349	12166	121660	12199	121998	6	13	3090	6
14	350	5/8	16	12248	122483	-	-	-	-	11	15	5415	6

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	Cat. No.	Bastard cut UPC No.	Wt. per Shell Pack			Shell Pack
Inch	mm	Inch	mm				lb	oz	g	
6	150	1/4	6	No	21846	037103218469	0	15	425	6
6	150	1/4	8	Yes	21768	037103217680	1	0	454	6
8	200	5/16	8	No	21853	037103218537	1	5	595	6
8	200	5/16	8	Yes	21715	037103217158	1	6	624	6
8	200	5/16	8	Ergonomic	21715H	037103167828	2	1	936	6
10	250	3/8	10	No	21854	037103218544	2	1	936	6
12	300	1/2	13	No	12131	037103121318	3	6	1531	6

Taper (Triangular) Saw Files

Number of Saw Points	Files Recommended
5	7"178mm Taper Regular
5 1/2	7"178mm Taper Regular
6	7"178mm or 8"200mm Slim
7	6"150mm or 7"178mm Slim
8	6"150mm Slim
	7"178mm Extra Slim
	8"200mm Double Extra Slim
9	6"150mm Extra Slim
	7"178mm Double Extra Slim
10	5"127mm or 6"150mm Extra Slim
11	5"127mm Extra Slim
	6"150mm Double Extra Slim
12	5"127mm Extra Slim
13,14	5"127mm Double Extra Slim
15,16	4"102mm Double Extra 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	14048M	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	13692M	037103162526	0	5	142	12
3 1/2	90		Boxed	13710M	037103162533	0	8	227	12
4	100		Boxed	13727M	037103162540	0	11	311	12
5	125		Boxed	13772M	037103162564	1	4	567	12
6	150		Boxed	13807M	037103143952	2	0	907	12
7	175		Boxed	13841M	037103162502	2	15	1332	12
8	200		Boxed	13875M	037103162596	4	5	1956	12
10	250		Boxed	13930M	037103218490	7	8	3402	12

Nicholson

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	08912M	037103162519	1	1	482	12
4 1/2	113		Boxed	08914M *	037103146823	1	1	482	12
6	150		Boxed	13811M	037103162496	2	0	907	12
6	150		Boxed	13814M **	037103162779	2	0	907	12
8	200		Boxed	13878M	037103162601	4	5	1956	12

* File manufactured for Royal branding

** Blunt file, not tapered

Taper Files - Slim - Boxed



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

Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shell Pack
Inch	mm				lb	oz	g	
4	100	Boxed	14105M	037103142511	0	6	170	12
4 1/2	113	Boxed	14139M	037103162625	0	8	226	12
5	125	Boxed	14162M	037103142528	0	9	255	12
6	150	Boxed	14224M	037103142535	1	1	482	12
7	175	Boxed	14255M	037103142610	1	11	785	12
8	200	Boxed	14299M	037103142894	2	10	1191	12
10	250	Boxed	14341N	037103218377	5	3	2353	12

Taper Files - Slim - Carded



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

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

Taper Files - Extra Slim - Boxed



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

Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shell Pack
Inch	mm				lb	oz	g	
4	100	Boxed	14547M	037103142580	0	4	113	12
5	125	Boxed	14599M	037103142931	0	6	170	12
6	150	Boxed	14665M	037103144034	0	11	312	12
7	175	Boxed	14598N	037103217707	1	3	539	12
8	200	Boxed	14729N	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.			Shell Pack
	mm					lb	oz	g	
4	100		No	21875M	037103218155	0	4	113	6
5	125		No	14600M	037103217906	0	6	624	6
6	150		No	21873M	037103217950	1	3	539	6
8	150		Yes	21736M	037103217899	1	6	624	6
7	175		No	14696M	037103217837	1	13	692	6

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.			Shell Pack
	mm					lb	oz	g	
4	100		Boxed	14942M	037103142599	0	3	82	12
5	125		Boxed	14902M	037103142603	0	6	170	12
6	150		Boxed	15024M	037103217721	0	9	255	12
7	175		Boxed	15056M	037103217745	0	12	340	12
8	200		Boxed	15087M	037103217752	1	1	482	12

Nicholson

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.			Shell Pack
	mm					lb	oz	g	
6	150		No	21874M	037103217974	0	15	425	6
6	150		Yes	21743M	037103217905	1	2	481	6

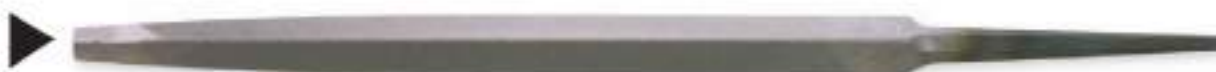
Improved Taper - No Tang



- 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

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

Taper Files - Double - Cut Saw Files (Machine File)



- Designed and recommended primarily for use in saw filing machines
- Triangular shape
- Double-cut

Length Inch	Length mm	Type	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
						lb	oz	g	
6	150	Taper	Boxed	15334N	037103218216	2	0	907	12
6	150	Slim taper	Boxed	15395N	037103217608	1	1	482	12
6	150	Extra slim taper	Boxed	15480N	037103217691	0	11	312	12
6	150	Dbl. extra slim taper	Boxed	15524M	037103162656	0	9	255	12

Nicholson

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

Length Inch	Length 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	
6	150	15925N	218223	15958N	218308	15991N	218247	1	15	879	12
8	200	16038N	218261	16069N	218278	16102N	218286	4	4	1928	12
10	250	16147N	218483	16180N	218339	16213N	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 1/8" x .044" x 1.10mm
- Available with attractive carded display
- Catalog No. 02381 contains 12 files

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
					lb	oz	g	
5 1/4	133	Boxed	02373	037103023735	2	8	1134	12
5 1/4	133	1/cd	02375	037103023759	1	4	567	6
5 1/4	133	12/cd	02381	037103023810	3	8	1588	12

Veneer Knife Files



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

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
					lb	oz	g	
10	250	Boxed	10799	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	Length mm	Bastard Cut		Second Cut		Smooth Cut		Wt. Per Doz.	g	Shelf Pack	
		Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103	Cat. No.	UPC No. 037103				
4	100	16507	165077	16540	165404	16573	165732	0	5	142	12
6	150	16663	166630	16696	166968	16729	167293	0	13	369	12
8	200	16761	167613	16794	167941	16827	168276	1	10	737	12
10	250	16859	168597	16891	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.			Shell Pack
	mm					lb	oz	g	
10	250		Boxed	17505N	037103219636	6	1	2750	6

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.			Shell 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

Nicholson

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.			Shell 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	1139	15	6322	6

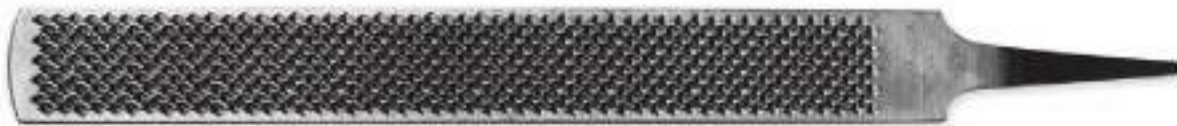
Farrier's Handy Rasps



- 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

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

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

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

Nicholson

Farrier Rasp - Double Extra Thin



- Primarily for race track and other horses with light shoes
- Both sides are safe 7/8"/22mm at point
- Rasp teeth on 1 side, file teeth on opposite
- Rasp cut is 6 teeth per row (other horse rasps have 5 teeth per row)
- Rectangular shape
- 18" rasp is specially designed for draft horses
- Sharper than regular horse rasps
- Double extra thin

Length Inch	Length mm	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
					lb	oz	g	
14	350	Boxed	18156NN*	037103219527	16	6	7428	6
14	350	Boxed	18157N	037103219497	16	6	7428	6
14	350	Boxed	HR14N	037103219510	16	6	7428	6

* Aggressive cut - Black Diamond® Brand

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)

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	Inch	mm				lb	oz	g	
14		350	Boxed	18130N	037103219534	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

Inch	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	18846N	037103219640	3	10	1644	6
10		250	50	Smooth cut	Boxed	18861N	037103219640	3	6	1531	6

Nicholson

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

Inch	Length		Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
	Inch	mm				lb	oz	g	
8		200	Boxed	18924N	037103219763	4	4	1871	6
8		200	Carded	21860N	037103219848	2	1	936	6
9		225	Boxed	19013N	037103219787	5	12	2608	6
9		225	Carded	21879N	037103219862	6	0	2290	6
10		250	Boxed	18962N	037103219794	7	9	3430	6
10		250	Carded	18960N	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 1/2" / 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	18617N	037103219749	4	1	1844	6
8	200		Carded	23859N	037103219879	4	1	1844	6

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	19138N	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	19394N	037103219633	3	7	1559	12
10	250		Boxed	19427N	037103219657	6	8	2948	6
12	300		Boxed	19460N	037103219664	10	8	4763	6
14	350		Boxed	19493N	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	Cat. No.	Bastard Cut UPC No.		Wt. Per Shelf Pack			Shelf Pack
	mm				lb	oz	g			
8	200		No	21878H	037103219718	2	1	936		6
8	200		Ergonomic	21749HH	037103219053	2	13	1276		6

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	19846	037103198464	1	6	624	12
10	250		3/8	10	Boxed	19875	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



- 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.			Shell Pack
Inch	mm					lb	oz	g	
4	100	Boxed	35025	037103350251	00	0	9	255	12
4	100	Boxed	35031	037103350312	0	0	9	255	12
6	150	Boxed	35061	037103350619	0	1	5	595	12
6	150	Boxed	35073	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.			Shell Pack
Inch	mm					lb	oz	g	
3	75	Boxed	35108	037103351081	00	0	3	85	12
4	100	Boxed	35114	037103351142	00	0	9	255	12

Crossing Files



- Used by tool and die makers, jewelers, model makers and home craftsman
- Double-cut on both sides
- Made of double circular section, 1 side having same radius as the half file, opposite having flatter curve or larger radius
- Taper to point in both width and thickness

Length		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shell Pack
Inch	mm					lb	oz	g	
6	150	Boxed	35748	037103357489	2	1	4	567	12

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

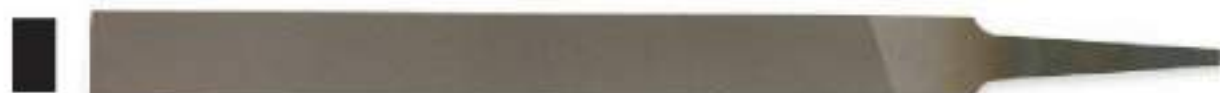
- Used by tool and die makers, jewelers, model makers and home craftsman
- Made in shapes as illustrated

- 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



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.	B&S Gauge	Cat. No.	UPC No. 037103	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	1003	6

Nicholson

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

- Cut numbers 00, 0, 1 and 2 are single-cut on 1 edge, other is safe
- Cut No. 4 has 2 safe edges
- Parallel in width but taper in thickness

Length		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
6	150	Boxed	36750	037103367506	2	2	5	1049	12

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		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
6	150	Boxed	36975	037103369756	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		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
5 1/2	140	Boxed	37752	037103377524	0	0	4	113	12
6 1/8	150	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 7/101mm lengths, oval is furnished instead of crossing
- Come with protective plastic pouches when purchased in assortments

Nicholson

Cat. No.	UPC No. 037103	Length Inch	mm	Cut
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
37118	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 Inch	mm	Cut
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 Inch	mm	Cut
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		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
4	100	Boxed	39855	037103398550	00	0	10	284	12
4	100	Boxed	39861	037103398611	0	0	10	284	12
4	100	Boxed	39873	037103398734	2	0	10	284	12
4	100	Boxed	39881	037103398819	4	0	10	284	12
6	150	Boxed	39893	037103398932	00	1	10	737	12
6	150	Boxed	39899	037103398994	0	1	10	737	12
6	150	Boxed	39905	037103399052	1	1	10	737	12
6	150	Boxed	39911	037103399113	2	1	10	737	12
6	150	Boxed	39923	037103399236	4	1	10	737	12
8	200	Boxed	39929	037103399298	00	3	8	1588	6
8	200	Boxed	39935	037103399359	0	3	8	1588	6
8	200	Boxed	39947	037103399472	2	3	8	1588	6
10	250	Boxed	39966	037103399656	00	6	3	2807	6
10	250	Boxed	39971	037103399717	0	6	3	2807	6
12	300	Boxed	39992	037103399922	00	9	12	4137	6

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		Packed	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm					lb	oz	g	
4	100	Boxed	40049	037103400499	2	0	8	227	12
6	150	Boxed	40076	037103400765	0	1	4	567	12
6	150	Boxed	40082	037103400826	1	1	4	567	12
6	150	Boxed	40088	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	40204	037103402042	00	0	5	142	12
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

Pillar and Pillar Narrow Testing Files



- Made for testing, not stock removal
- Width narrower than hand file
- Specially shaped teeth have been specially heat treated
- Similar to regular Nicholson® product in shape only

Nicholson

Length		Packed	Description	Cat. No.	UPC No.	Cut No.	Wt. per doz.			Shelf Pack
Inch	mm						lb	oz	g	
8	200	Boxed	Pillar Narrow Testing	40412	037103404121	0	2	10	1191	6
8	200	Boxed	Pillar Narrow Testing	40418	037103404183	1	2	10	1191	6

Hardness Testing With Pillar Testing Files

- Each file must bite this piece of steel in good shape
- Each file is tested on a certified prover that registers C63-65 Rockwell
- Nicholson® files are made to a standard and are uniform
- Good judgment will keep file from becoming dull
- Files are for testing only
- To preserve and prolong quality, file should be removed from work as soon as biting occurs
- If file does not bite, work is too hard for file
- Pieces of steel or samples of product with proper hardness and temper are often used as gauges for comparison
- Hardness testing files are used to a large extent by manufacturers of taps, drills, bits,reamers, ball bearings, gears

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.	lb	Wt. per doz.		Shell Pack
inch	mm						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.	lb	Wt. per doz.		Shell Pack
inch	mm	inch	mm						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	40795	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



3



10

Length		Packed	Cat. No.	UPC No.	Shape	Cut No.	Shell Pack
inch	mm						
7 1/2	190	Boxed	41018	037103410184	3	2	12
7 1/2	190	Boxed	41096	037103410962	10	0	12
7 1/2	190	Boxed	41102	037103411020	10	2	12

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 Inch	Length mm	Packed	Cat. No.	UPC No.	Cat No.	Wt. per doz.			Shelf Pack
						lb	oz	g	
6	150	Boxed	41498	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 Inch	Length mm	Packed	Cat. No.	UPC No.	Cat No.	Wt. per doz.			Shelf Pack
						lb	oz	g	
4	100	Boxed	41588N	037103415882	2	0	5	142	12
6	150	Boxed	41612	037103416124	0	0	13	369	12
6	150	Boxed	41618	037103416186	2	0	13	369	12
8	200	Boxed	41636	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

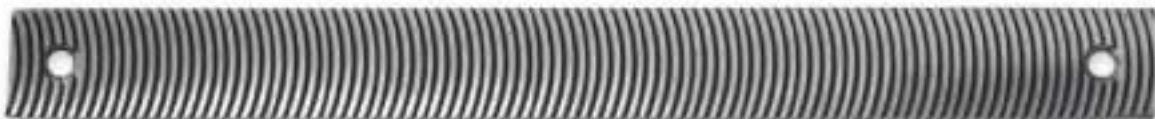
Flexible Files (Without Tang)



- 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.			Shell Pack
Inch	mm					lb	oz	g	
12	300	Boxed	20138N	037103219298	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.			Shell Pack
Inch	mm						lb	oz	g	
14	350	50-008	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	20230N	037103219411	14/Standard	2	12	1247	12
10	250	Boxed	20291N	037103219343	12/Standard	5	14	2665	6
12	300	Boxed	20342N	037103219367	10/Standard	9	5	4224	6
14	350	Boxed	20393N	037103219428	8/Standard	14	14	6747	6

Flat Babbitt 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	20479N	037103219381	8	9	4	4196	6
14	350	Boxed	20496N	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	20547N	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/Cat	Wt. per doz.			Shell Pack
Inch	mm					lb	oz	g	
8	200	Boxed	20582N	037103218599	14/Standard	3	8	1588	12

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/Cat	Wt. per doz.			Shell 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	21116N	037103219398	10/Standard	9	5	4224	6
14	350	Boxed	21169N	037103219442	8/Standard	17	0	7711	6

Nicholson

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.		Shell 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 Inch	mm	Dimensions				Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack	
		Inch	mm	x	Inch				mm	lb	oz		g
8	200	3 1/4	82	x	3/8	10	Boxed	21667N	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	PH8
Flat	PH3	-	PH4	PH5	PH5	PH6	PH7	PH8	PH8
Hand	PH3	-	PH4	PH5	PH6	PH7	PH8	-	-
Half round	PH3	-	PH4	PH5	PH6	PH7	PH8	PH8	PH8
Warding	PH3	-	PH4	PH4	PH5	-	-	-	-
Knife	PH3	-	PH4	PH5	PH5	PH6	-	-	-
Round	PH1	PH2	PH3	PH4	PH4	PH5	PH7	PH7	PH7
Square	PH1	PH2	PH3	PH4	PH4	PH5	PH6	PH6	-
Triangular	PH2	PH2	PH3	PH4	PH5	PH6	PH7	PH7	-
Cant saw	-	-	PH4	PH5	PH6	-	-	-	-
Crosscut	-	-	-	PH5	PH6	-	-	-	-
Tanged horse rasp	-	-	-	-	-	PH8	PH8	PH8	-
Platers Special	-	-	-	-	-	-	PH8	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	21484	037103214843	1.25	-	567	12
Screw-on plastic file handle	PH2	Carded	21493	037103214935	1.25	-	567	12
Screw-on plastic file handle	PH3	Carded	21502	037103215024	1.25	-	567	12
Screw-on plastic file handle	PH4	Carded	21512	037103215123	1.66	-	753	12
Screw-on plastic file handle	PH5	Carded	21513	037103215130	1.66	-	753	12
Screw-on plastic file handle	PH6	Carded	21514	037103215147	2.45	-	1111	12
Screw-on plastic file handle	PH7	Carded	21515	037103215154	2.75	-	1247	12
Screw-on plastic file handle	PH8	Carded	21516	037103215161	2.75	-	1247	12

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 -	Ø x 3/16	Ø x 7/32	Ø x 1/4	Ø x 5/16	Ø x 3/8
Chainsaw		4	4	4	4	3

Item	Size -	4"	6"	8"	10"	12"	14"
Mitl		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
Cant saw		-	2	1	1	-	-
Crosscut		-	-	1	0	-	-
Tanged horse rasp		-	-	-	-	000	000
Platers Special		-	-	-	-	-	000

Handle No.	Type	Packed	Cat. No.	UPC No. 037103	Inch	Approximate size		Wt. per doz.			Shell Pack		
						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	21326N	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	587	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

Nicholson

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 Shell Pack			Shell 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	21474	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 Inch	mm	Description	Packed	Cat. No.	UPC No.	Wt. per doz.			Shelf Pack
						lb	oz	g	
8	200	File Card #4	Carded	21455	037103214553	1	12	794	6
10	250	File Card	Boxed	21458	037103214584	3	11	1673	10
10	250	File Card & Brush	Boxed	21467	037103214676	5	0	2268	6

Nicholson

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	
10627	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



Length		Description	Packed	Cat. No.	UPC No.	Pack Wt.			Shelf Pack
Inch	mm					lb	oz	g	
5 1/2	140	Assorted	Carded	42030	037103420305	0	12	340	3

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

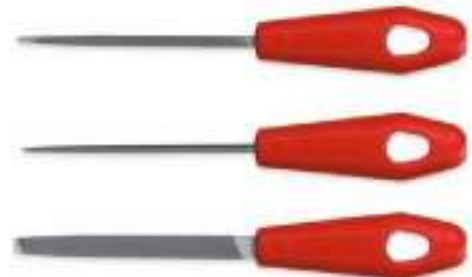


Cat. No.	UPC No.	Packed	lb	Pack Wt.		Shelf Pack
				oz	g	
22017N	037103219145	Pouch	4	8	2041	5

Nicholson

3 File Pack

- For home and professional use
- Pack contains files for every purpose
- 6"/150mm slim taper file with handle
- 6"/150mm round file with handle
- 6"/150mm mill bastard file with handle
- 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

Nicholson



- 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.			Shell 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.			Shell Pack
			lb	oz	g	
22040N	037103219206	Pouch	1	10	737	1

Nicholson

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.			Shell Pack
			lb	oz	g	
22024N	037103219176	Pouch	3	8	1588	1

Thread Restoring Files



33024

- 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.

Cat. No.	UPC No.	Type	Description	Pack Wt.			Shell 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; .75-1.0, 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

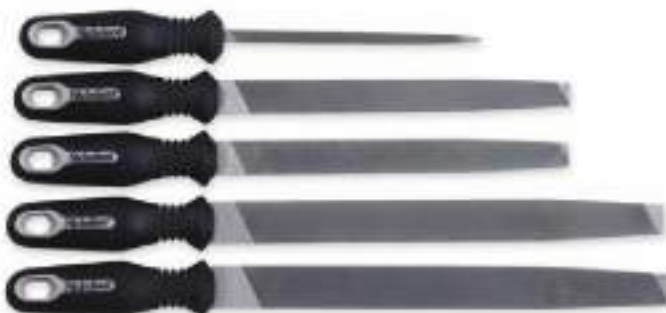
3 Piece Ergonomic File Set



- 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

Cat. No.	UPC No.	Packed	Pack Wt.			Shell 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

Cat. No.	UPC No.	Packed	Pack Wt.			Shell 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



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

Machetes



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

MP12722

Cat No.	UPC No.	Description	Length		Pack Wt.		Shell Pack
			Inch	mm	lb	g	
MP12718	037103169603	Machete	18	457	0.92	417	10
MP12722	037103169606	Machete	22	559	1.32	599	10
MP12724	037103190697	Machete	24	610	1.50	680	10

4-in-1 Pro Series Hacksaw Frame

Nicholson



- 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.		Shell Pack
			Inch	mm	lb	g	
80975	037103809759	4-in-1 Pro Series	12	304	2.5	1133	4

Weight shown per shell pack

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.		Shell Pack
			Inch	mm	lb	g	
80965	037103809650	Cushion Grip High Tension	12	304	14	6350	6

Weight shown per shell 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" or 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

Nicholson

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	037103809505	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

Nicholson

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	
N3500	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

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

Ref. No.	Set Type	** Boxed		* Carded		Length Inch mm	Teeth Per Inch	Width		Gauge Inch mm	Wt. per 50 Carded		Wt. per 100 Boxed	
		Cat. No.	UPC No.	Cat. No.	UPC No.			Inch	mm		lb	kg	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	62786	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.

Nicholson

Bi-Metalloy® Hand Hacksaw Blades



Special Packs

Ref. No.	Set Type	Carded		Blades Per Card	Length		Teeth per Inch	Width		Gauge Inch mm	Pack Wt.		Shelf Pack
		Cat. No.	UPC No.		Inch	mm		Inch	mm		lb	kg	
NF1218	Wavy	62836L	188076	10	12 304	18	1/2 12.70	.025 .65	4.5 2.05	4			
NF1224	Wavy	62835L	188069	10	12 304	24	1/2 12.70	.025 .65	4.5 2.05	4			
Assortment	Wavy	62838	628381	6	12 304	-	1/2 12.70	.025 .65	4.5 2.05	10			

Solid Flexible Carbon Steel

Nicholson® ONE OF THE BEST SAVING Special Shatterproof 24 TEETH ATTACH TO HANDLE

- 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 Inch mm	Gauge Inch mm	Teeth Per Inch	Wt. per 50		Wt. per 100	
		Cat. No.	UPC No.	Cat. No.	UPC No.					Carded lb kg	Boxed lb kg		
SS1018	Wavy	63103	631038	63208	632081	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	631458	63256	632562	12 304	1/2 12.70	.025 .65	18	6 2.73	4.5 2.05		
SS1224	Wavy	63158	631588	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 Teeth: For cutting stock 1/25.40mm or over in cross section.

For soft materials where maximum chip clearance is needed.

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

24 Teeth: For cross section 1/16"/1.58mm - 1/4"/6.35mm such as pipe, angles, small drill rod.

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

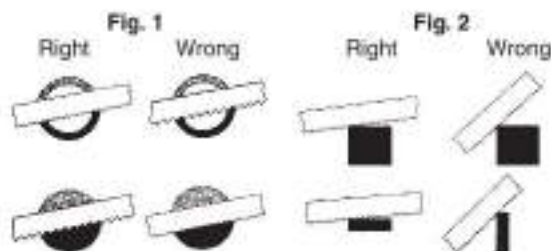
At least three teeth should be in contact with the work at all times.

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



HSP1

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	037103172385	24	608	10	Standard/H.P.	1.2	544	4
NSP5	037103172396	15	381	8	Aggressive/H.P.	0.8	363	4

Professional Handsaws

- 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



NS1501

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

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

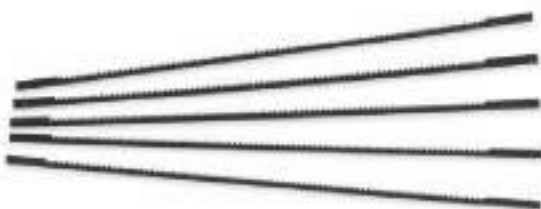
6 1/2" Coping Saw



- 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	037103801700	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

Nicholson

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 sharpening
- 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

BowHack® Combination Bowsaw and

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

- 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

Hi-Viz® Orange



Cat. No.	UPC No.	Description	Length		Pack Weight		Shelf Pack
			Inch	mm	lb	g	
80777	0371038077791	Combination Bowsaw & Hacksaw	12	300	15.5	7031	10

Weight shown is for shelf pack

Nicholson

Bowsaw

Black

- Durable all-purpose saw for pruning, gardening, construction work and farming
- Features "Hard Point" teeth that last up to 6 to 8 times longer than unhardened teeth
- Tension lever gives clearance to protect fingers when changing blades
- Recommended for quick cutting of wet or green wood



80810

Cat. No.	UPC No.	Description	Length		Pack Weight		Shelf Pack
			Inch	mm	lb	g	
80800	037103808004	Bow saw	21	533	6.4	2903	4
80810	037103808103	Bow saw	24	610	7.2	3266	4
80815	037103808158	Bow saw	30	762	8.0	3629	4
80817	037103808172	Replacement blade	21	533	0.7	318	5
80821	037103808219	Replacement blade	24	610	0.8	363	5
80825	037103808257	Replacement blade	30	762	1.0	453.8	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		Shell 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		Shell 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		Shell 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		Shell Pack
		inch	mm	lb	g	
80389	037103803092	24	610	10.63	4822	6



Nicholson®

Comercio:

asesorcomercio@herramientasindustrialesas.com
asesorind@herramientasindustrialesas.com
dircomercial@herramientasindustrialesas.com
ventascomercio@herramientasindustrialesas.com

Principal: Bucaramanga

Dirección: Carrera 17 # 17- 26
Teléfono: (7) 6716201
Telefax: 6715239 - 6719396
Cell: 3158657089 - 3162847736
ventas@herramientasindustrialesas.com
herramientasind@hotmail.com

Sucursal: Cúcuta

Dirección: Carrera 7N # 2 E-73, Ceiba II
Teléfonos: 5717835 - 5922262
Cell: 3187122342 - 3173002896 - 3102544280
ventasucuta@herramientasindustrialesas.com
ventascomercioh@gmail.com

Sucursal: Barrancabermeja

Cell: 310 253 0811 - 315 865 7089
ventasbarranca@herramientasindustrialesas.com
ventascomerciohiboyaca@gmail.com

WWW.HERRAMIENTASINDUSTRIALESAS.COM

