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## Precision Swiss-Pattern Files

Grit	File Length without Tang	File Width	Thickness	Includes Handle	Brand	Item No.
<b>Diamond-Coated Escapement Files</b>						
<b>Barrette</b>						
170, 200	1 1437/2500 in	3/16 in	3/64 in	Yes	Strauss	31LX40 *
<b>Equaling</b>						
120, 140	1 1437/2500 in	1/8 in	3/64 in	Yes	Strauss	31LX45 *
170, 200	1 1437/2500 in	3/16 in	3/64 in	Yes	Strauss	31LX46 *
<b>Half Round</b>						
80, 100	1 1437/2500 in	3/16 in	5/64 in	Yes	Strauss	31LX48 *
<b>Triangular</b>						
120, 140	1 1437/2500 in	1/8 in	1/8 in	Yes	Strauss	31LX55 *
170, 200	1 1437/2500 in	1/8 in	1/8 in	Yes	Strauss	31LX56 *
<b>Diamond-Coated Needle Files</b>						
<b>Half Round</b>						
80, 100	2 75591/100000 in	3/16 in	5/64 in	Yes	Strauss	31LY13 *
120, 140	2 75591/100000 in	3/16 in	5/64 in	Yes	Strauss	31LY17 *
170, 200	2 75591/100000 in	1/2 in	5/32 in	Yes	Strauss	31LY18 *
<b>Rectangular</b>						
120, 140	2 75591/100000 in	3/16 in	1/16 in	Yes	Strauss	31LY05 *
170, 200	2 75591/100000 in	3/16 in	1/16 in	Yes	Strauss	31LY09 *
<b>Round</b>						
120, 140	2 75591/100000 in	1/8 in	3/64 in	Yes	Strauss	31LY17 *
170, 200	2 75591/100000 in	1/8 in	3/64 in	Yes	Strauss	31LY18 *
<b>Square</b>						
120, 140	2 75591/100000 in	1/8 in	3/32 in	Yes	Strauss	31LY23 *
<b>Triangular</b>						
170, 200	2 75591/100000 in	3/16 in	5/32 in	Yes	Strauss	31LY27 *

No. of Pieces	Files Included	Brand	Item No.
<b>Diamond-Coated Escapement File Sets</b>			
5	Coarse - 140 mm Equaling File, Coarse - 140 mm Half Round File, Coarse - 140 mm Round File, Coarse - 140 mm Square File, Coarse - 140 mm Three Square File	Strauss	31LY44
	Smooth - 140 mm Equaling File, Smooth - 140 mm Half Round File, Smooth - 140 mm Round File, Smooth - 140 mm Square File, Smooth - 140 mm Three Square File	Strauss	31LY43
	Standard - 140 mm Equaling File, Standard - 140 mm Half Round File, Standard - 140 mm Round File, Standard - 140 mm Square File, Standard - 140 mm Three Square File	Strauss	31LY42
<b>Diamond-Coated Needle File Sets</b>			
5	Smooth - 140 mm Equaling File, Smooth - 140 mm Half Round File, Smooth - 140 mm Round File, Smooth - 140 mm Square File, Smooth - 140 mm Three Square File	Strauss	31LY36
	Standard - 140 mm Crossing File, Standard - 140 mm Equaling File, Standard - 140 mm Half Round File, Standard - 140 mm Round File, Standard - 140 mm Square File, Standard - 140 mm Three Square File	Strauss	31LY38
12	(2) 0.030 in Diamond Round Files, (2) 0.040 in Diamond Round Files, 0.050 in Diamond Round File, 0.060 in Diamond Round File, 0.070 in Diamond Round File, 0.080 in Diamond Round File, 0.090 in Diamond Round File, 0.100 in Diamond Round File, 0.110 in Diamond Round File, 0.120 in Diamond Round File	IPA	19RE91 *
<b>Needle File Sets</b>			
6	5 1/2 in Barrette, 5 1/2 in Crossing, 5 1/2 in Equaling (Mill), 5 1/2 in Half Round, 5 1/2 in Joint Round Edge, 5 1/2 in Knife, 5 1/2 in Oval, 5 1/2 in Round, 5 1/2 in Square, 5 1/2 in Three Square, 5 1/2 in Warding (Flat)	General Tools	23N601 *
	5 1/2 in Barrette, 5 1/2 in Crossing, 5 1/2 in Equaling, 5 1/2 in Flat, 5 1/2 in Half Round, 5 1/2 in Joint, 5 1/2 in Knife, 5 1/2 in Marking, 5 1/2 in Round, 5 1/2 in Slitting, 5 1/2 in Square, 5 1/2 in Three Square Files	Nicholson	6A632 *
12	5 1/2 in Equaling (Mill), 5 1/2 in Half Round, 5 1/2 in Round, 5 1/2 in Square, 5 1/2 in Three Square, 5 1/2 in Warding (Flat)	General Tools	23N602 *
	6 1/4 in Barrette, 6 1/4 in Crossing, 6 1/4 in Equaling, 6 1/4 in Flat, 6 1/4 in Half Round, 6 1/4 in Joint, 6 1/4 in Knife, 6 1/4 in Marking, 6 1/4 in Round, 6 1/4 in Slitting, 6 1/4 in Square, 6 1/4 in Three Square Files	Nicholson	1F957 *
	6 1/4 in Barrette, 6 1/4 in Crossing, 6 1/4 in Equaling with A Built-In Round Handle Needle Files, 6 1/4 in Flat, 6 1/4 in Half Round, 6 1/4 in Joint RE, 6 1/4 in Knife, 6 1/4 in Marking, 6 1/4 in Round, 6 1/4 in Slitting, 6 1/4 in Square, 6 1/4 in Three-Square	Simonds	38RK92 *

\* Includes handle.

Round Chain-Saw  
4PKE6

## Sharpening Files

These saw files can hone, shape, and debur saw teeth and cutting edges.

**Round Chain** can sharpen the cutting edge and shape the depth gauge of rounded, hooded chain-saw teeth. **Sharpening Field Kits** include files and tools for sharpening saw chains. **Triangular Cant** has a narrow-edged triangular body that fits into gaps between teeth angled at less than 60°, such as M-shaped teeth found on log saws and some circular saw blades. **Triangular Crosscut** can sharpen tooth edges and shape gullets on Great American saws and other crosscut saws. **Triangular Tapered** have corners that match with 60° angle teeth found on a variety of saw blades.

File Length without Tang	File Diameter	File Width	Includes Handle	Brand	Item No.	Pkg. Qty.
<b>Round Chain-Saw Files</b>						
8 in	3/16 in	3/16 in	No	Nicholson	4PKE6	3
8 in	3/16 in	3/16 in	No	Nicholson	4PKE7	3
8 in	1/4 in	1/4 in	No	Nicholson	4PKE8	3
<b>Sharpening Field Kits</b>						
10 1/4 in	3/16 in, 1/4 in	1 1/16 in	Yes	Trilink	39FY83	1
<b>Triangular Cant Saw Files</b>						
6 in	3/16 in	3/16 in	No	Westward	10Z677	1
<b>Triangular Crosscut-Saw Files</b>						
10 in	1/2 in	1/2 in	No	Westward	10Z681	1
<b>Triangular Tapered Saw Files</b>						
6 in	—	2 1/2 in	Yes	Nicholson	5LZ79	1
8 in	—	2 1/2 in	No	Simonds	38RK41	1
8 in	—	3/4 in	No	Simonds	38RK46	1



3MD30

## Thread-Restoring Files

Use to repair worn or slightly damaged external threads on bolts, screws, and pipe. They straighten and refine multiple threads at the same time rather than filing one thread at a time with a knife-edge or taper file. 1/2"W. Sets include various thread-restoring files to match different thread types or sizes.

For Threads Per Inch	File Thread Type	For Thread Pitch	Overall Length	Item No.
<b>Metric Thread-Restoring Files</b>				
0.8, 1, 1.25, 1.5, 1.75, 2, 2.5, 3	Metric Bolt	0.8 mm, 1 mm, 1.25 mm, 1.5 mm, 1.75 mm, 2 mm, 2.5 mm, 3 mm	9 1/2 in	3MD32
<b>SAE Thread-Restoring Files</b>				
11, 12, 13, 14, 16, 18, 20, 24	Regular Bolt	11 in, 12 in, 13 in, 14 in, 16 in, 18 in, 20 in, 24 in	9 1/2 in	3MD29
9, 10, 12, 16, 20, 27, 28, 32	Extra Coarse, Extra Fine	9 in, 10 in, 12 in, 16 in, 20 in, 27 in, 28 in, 32 in	9 1/2 in	3MD30
<b>Thread-Restoring File Sets</b>				
9, 10, 11, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32	Swiss Pattern File	1/4 in, 3/16 in, 1/8 in, 3/32 in, 1/4 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in, 7/8 in	8 3/8 in	3MD33



## File Cleaners

These cleaners have one side with short, closely spaced steel-wire bristles that dislodge stuck-on debris from file faces and edges. Wood handle. 1G492 adds long, loosely packed bristles on the reverse side for removing larger chips and cleaning off loose debris.

with Brush  
1G492

Overall Length	For Use With	Brand	Item No.
<b>File Card Cleaners with Brush</b>			
10 in	Files	Nicholson	1G492
<b>File Card Cleaners without Brush</b>			
8 1/2 in	Files	Simonds	38RK58
10 in	Files, Rasps	Nicholson	2A509



## Electrical Contact Files

Remove oxidation and refine metal contacts on switches and relays without leaving filings or debris. Suitable for general filing on small surfaces. Blade size: 1 1/2"L x 3/16"W. 40J744 has a flat blade that can access tight spaces. Kits use replaceable file blades (included).

No. of Pieces	File Blade Shape	Cut Type	Handle Length	Item No.
<b>Relay-Contact Burnisher Files</b>				
7	Flat	Fine	1 1/2 in	40J744
<b>Pen-Style Relay-Contact Burnisher Kits</b>				
7	Flat	Coarse, Fine, Medium	4 1/2 in	23Z404
13	Round	Coarse, Fine, Medium	4 1/2 in	23Z405

Pen-Style  
Relay-Contact  
23Z404

## File Holder and Handles

**File Holder** attaches to compatible, tangless auto body files that have mounting holes at each end. It allows flexible body files to sit flat or arc inward or outward to match workpiece contours. **File Handles** add a grip to the file that is more comfortable and provides better control than holding onto the tang or body.

Overall Length	For File Length	Brand	Item No.
<b>File Holders</b>			
15 in	14 in	Westward	10Z605
<b>Push-On Handles</b>			
<b>Wood Contoured Handle</b>			
4 1/2 in	8 in, 9 in, 10 in, 12 in	Nicholson	1G482
5 1/4 in	10 in, 12 in, 14 in	Nicholson	1G480
<b>Push-On Handles with Interchangeable Inserts</b>			
<b>Rubber Tapered Handle</b>			
4 9/16 in	10 in, 12 in	Westward	1NFW5
<b>Threaded-Insert Handles</b>			
<b>Plastic Contoured Handle</b>			
4 1/2 in	6 in, 8 in, 10 in	Nicholson	2H063

Push-On  
Handle  
1G480