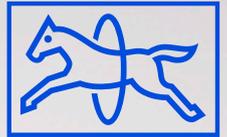


PFERD



TOOLS

1



Files

Files

Table of contents

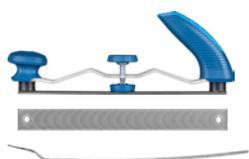
Files

- Highlights from the PFERD TOOLS range 3
- The quick way to find the perfect tool 4
- The most common PFERD TOOLS cuts 5

Files for the workshop

- 
- 
- Machinist's files, DIN series 6
 - Special files 13
 - Key files 13
 - Key file sets 15
 - Tungsten point file 15

Car body files

- 
- 
- Car body file blades 16
 - Car body files tanged 16

Milled tooth files

- 
- 
- 
- Milled tooth files, tanged 17

Sharpening files

- 
- 
- 
- 
- Three square saw files 18
 - Mill saw files 19
 - Chain saw files 20
 - CHAIN SHARP chain saw sharpeners 22
 - Depth gauge files 23

Files and rasps for wood

- 
- 
- Hoof rasps 24

Precision files

- 
- 
- 
- 
- Needle files 25
 - Needle file sets 27

File handles, file sleeves, file brush

- 
- 
- 
- 
- 
- File handles 28
 - Quick-mounting handles 28
 - File brush 29

Files

Highlights from the PFERD TOOLS range



Precision files

PFERD TOOLS precision files are expected to deliver nothing less than outstanding geometric accuracy, cutting performance and tool life.



Due to their exact geometry, precision files are also suitable for installation tasks and for working on complex devices and machines in line with the highest precision standards.

Advantages:

- Particularly suitable for work on small and delicate workpieces.
- Exact geometry.
- Wide range of highly precise cuts for numerous applications in precision machining.

CHAIN SHARP CS-X chain saw sharpener

Sharpening using chain saw files and depth gauge files requires you to have a lot of experience. Thanks to the chain saw sharpeners from PFERD TOOLS, users who do not have as much experience can also achieve precise and uniform sharpening results. The CHAIN SHARP CS-X chain saw sharpener combines the functions of a depth gauge file and chain saw file in one. It allows the saw tooth to be sharpened whilst the depth gauge is adjusted at the same time. Scan the QR code to find out more about PFERD TOOLS' range of chain saw sharpeners.



Advantages:

- Turn the device over to change from the right to the left tooth, no conversion work required.
- Optimized shape for precise guidance and optimal sharpening results.
- Improved shape makes it easy to replace the files.

Tungsten carbide files

PFERD TOOLS' tungsten carbide files impress with their extremely high degree of hardness, wear resistance and long service life.



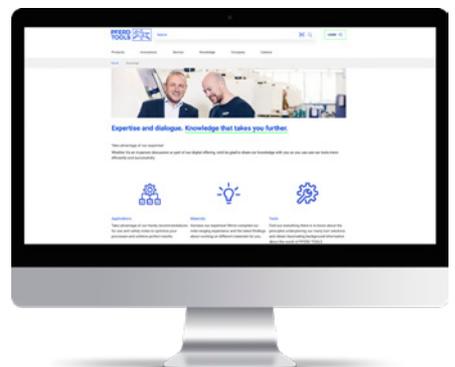
PFERD TOOLS offers tungsten carbide files in a flat version with radial and convex cut pattern for working on flat and convex surfaces, and in a round version for working on concave shapes and for reworking internal radii. For optimum file control, optimum filing results and a rapid tool change, PFERD TOOLS recommends the use of tungsten carbide files on the specially developed, reusable and ergonomically shaped file holders with ergonomic file handle. Scan the QR code to find out more about PFERD TOOLS' range of tungsten carbide files.

Advantages:

- Suitable for use on steel and steel materials with hardness > 54 HRC.

More expert information online

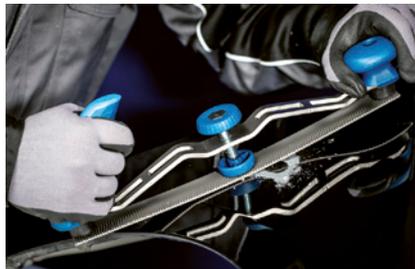
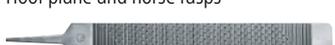
Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



Files

The quick way to find the perfect tool

1

Use	Material	Applications	Tool
Filing 	<ul style="list-style-type: none"> Steel Stainless steel (INOX) Cast iron Cast steel Non-ferrous metals Copper Bronze Brass Zinc 	<ul style="list-style-type: none"> Chamfering Deburring Roughing Finishing Surface work Filing of breakthroughs 	Files for the workshop  Files for aluminium  Milled tooth files  Precision files  Tungsten carbide files  Brake calliper files 
Sharpening 	<ul style="list-style-type: none"> Saw chains Saw blades Band saw blades Knives Machetes 	<ul style="list-style-type: none"> Sharpening of saw chains, blades, and band saw blades 	Chain saw files  Three square saw files  Mill saw files  CHAIN SHARP chain saw sharpeners 
Car body work 	<ul style="list-style-type: none"> Sheet metal Non-ferrous metals Plastics 	<ul style="list-style-type: none"> Surface work Deburring Removal of solder spots Removal of weld spots 	Car body files  Paint peeler 
Soft material work 	<ul style="list-style-type: none"> Wood Plastics Soft stone Horn 	<ul style="list-style-type: none"> Roughing Finishing Surface work Deburring Chamfering 	Wood files  Wood rasps  Hoof plane and horse rasps  Special rasps 

Files

The most common PFERD TOOLS cuts

Files for the workshop



Cut 1

- Cross cut for coarse stock removal and roughing.



Cut 2

- Cross cut for universal roughing and finishing.



Cut 3

- Cross cut for precision processing and finishing.

Car body files



Cut 00

- Radial cut for very coarse stock removal and roughing.
- Creates score-free surfaces.



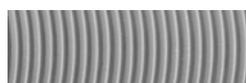
Cut 0

- Radial cut for coarse stock removal and roughing.
- Creates score-free surfaces.



Cut 1

- Radial cut for coarse stock removal and roughing.
- Creates score-free surfaces.



Cut 2

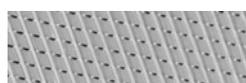
- Radial cut for general roughing and finishing.
- Creates score-free surfaces.



Cut 3

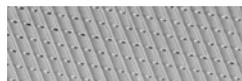
- Radial cut for fine stock removal and finishing.
- Creates score-free surfaces.

Milled tooth files



Cut 1

- Straight cut for coarse stock removal on soft metals.
- Because of its milled tooth shape with large flutes, the teeth do not clog up.



Cut 2

- Straight cut for general roughing and finishing on soft metals.
- Because of its milled tooth shape with large flutes, the teeth do not clog up.



Cut 3

- Straight cut for fine stock removal on soft metals.
- Because of its milled tooth shape with large flutes, the teeth do not clog up.

Sharpening files



Classic

- Classic spiral cut for users who prefer a softer filing action.



Premium

- Innovative spiral cut for users who prefer a softer filing action.



Single cut Cut 2

- Single cut.
- Universally suited to sharpening.

Rasps



Cut 1

- Rasp cut for very coarse stock removal.



Cut 2

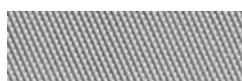
- Rasp cut for coarse stock removal.



Cut 3

- Rasp cut for coarse stock removal.

Precision files



Cut 00

- Cross cut for very coarse precision work.

Files

The most common PFERD TOOLS cuts



1



Cut 0

- Cross cut for coarse precision work.



Cut 3

- Cross cut for fine precision work.



Cut 1

- Cross cut for medium precision work.



Cut 4

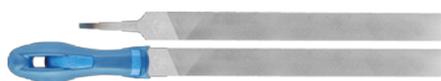
- Cross cut for very fine precision work.



Cut 2

- Cross cut for medium-fine precision work.

Machinist's files, DIN series



Hand (1112)

Rectangular files, cut on three sides, one side uncut. Tanged design. Shape A in accordance with DIN 7261. Suitable for work on rectangular geometries.



Special features:

- Uniformly high stock removal rate.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
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Industrial packaging (without handle)

1112	100	1	12	2.5	FH 3	-	10	11101101	1112 100 H1
		2	12	2.5	FH 3	-	10	11101102	1112 100 H2
		3	12	2.5	FH 3	-	10	11101103	1112 100 H3
	150	1	16	4	FH 3	-	10	11101151	1112 150 H1
		2	16	4	FH 3	-	10	11101152	1112 150 H2
		3	16	4	FH 3	-	10	11101153	1112 150 H3
	200	1	20	5	FH 4/1	-	10	11101201	1112 200 H1
		2	20	5	FH 4/1	-	10	11101202	1112 200 H2
		3	20	5	FH 4/1	-	10	11101203	1112 200 H3
	250	1	25	6	FH 4/1	-	10	11101251	1112 250 H1
		2	25	6	FH 4/1	-	10	11101252	1112 250 H2
		3	25	6	FH 4/1	-	10	11101253	1112 250 H3
	300	1	30	6.5	FH 5/1	-	5	11101301	1112 300 H1
		2	30	6.5	-	-	5	11101302	1112 300 H2
		3	30	6.5	-	-	5	11101303	1112 300 H3
	350	1	35	7.5	-	-	5	11101351	1112 350 H1
		2	35	7.5	-	-	5	11101352	1112 350 H2

Continued on next page

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Blister packaging (with handle)									
1112	150	1	16	4	-	FH 3	1	18800677	PF-CS 1112 150 Z1
		2	16	4	-	FH 3	1	18800679	PF-CS 1112 150 Z2
		3	16	4	-	FH 3	1	18800681	PF-CS 1112 150 Z3
	200	1	20	5	-	FH 4/1	1	18800683	PF-CS 1112 200 Z1
		2	20	5	-	FH 4/1	1	18800685	PF-CS 1112 200 Z2
		3	20	5	-	FH 4/1	1	18800687	PF-CS 1112 200 Z3
	250	1	25	6	-	FH 4/1	1	18800689	PF-CS 1112 250 Z1
		2	25	6	-	FH 4/1	1	18800691	PF-CS 1112 250 Z2
		3	25	6	-	FH 4/1	1	18800693	PF-CS 1112 250 Z3
	300	1	30	6.5	-	FH 5/1	1	18800695	PF-CS 1112 300 Z1
		2	30	6.5	-	FH 5/1	1	18800697	PF-CS 1112 300 Z2
		3	30	6.5	-	FH 5/1	1	18800699	PF-CS 1112 300 Z3



Flat (1122)

Rectangular file, tapered and cut on four sides. Tanged version. Shape B according to DIN 7261. Suitable for work on rectangular geometries.



Special features:

- Uniformly high stock removal rate.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)									
1122	100	1	12	2.5	FH 3	-	10	11103101	1122 100 H1
		2	12	2.5	FH 3	-	10	11103102	1122 100 H2
		3	12	2.5	FH 3	-	10	11103103	1122 100 H3
	150	1	16	4	FH 3	-	10	11103151	1122 150 H1
		2	16	4	FH 3	-	10	11103152	1122 150 H2
		3	16	4	FH 3	-	10	11103153	1122 150 H3
	200	1	20	5	FH 4/1	-	10	11103201	1122 200 H1
		2	20	5	FH 4/1	-	10	11103202	1122 200 H2
		3	20	5	FH 4/1	-	10	11103203	1122 200 H3
	250	1	25	6	FH 4/1	-	10	11103251	1122 250 H1
		2	25	6	FH 4/1	-	10	11103252	1122 250 H2
		3	25	6	FH 4/1	-	10	11103253	1122 250 H3
	300	1	30	6.5	FH 5/1	-	5	11103301	1122 300 H1
		2	30	6.5	FH 5/1	-	5	11103302	1122 300 H2
		3	30	6.5	FH 5/1	-	5	11103303	1122 300 H3
	350	1	35	7.5	-	-	5	11103351	1122 350 H1

Blister packaging (with handle)									
1122	150	1	16	4	-	FH 3	1	18800300	PF-CS 1122 150 Z1
		2	16	4	-	FH 3	1	18800718	PF-CS 1122 150 Z2
		3	16	4	-	FH 3	1	18800301	PF-CS 1122 150 Z3
	200	1	20	5	-	FH 4/1	1	18800302	PF-CS 1122 200 Z1

Continued on next page

Files for the workshop

Machinist's files, DIN series

1

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
1122	200	2	20	5	-	FH 4/1	1	18800722	PF-CS 1122 200 Z2
		3	20	5	-	FH 4/1	1	18800303	PF-CS 1122 200 Z3
		1	25	6	-	FH 4/1	1	18800304	PF-CS 1122 250 Z1
	250	2	25	6	-	FH 4/1	1	18800726	PF-CS 1122 250 Z2
		3	25	6	-	FH 4/1	1	18800305	PF-CS 1122 250 Z3
		1	30	6.5	-	FH 5/1	1	18800306	PF-CS 1122 300 Z1
	300	2	30	6.5	-	FH 5/1	1	18800327	PF-CS 1122 300 Z2
		3	30	6.5	-	FH 5/1	1	18800307	PF-CS 1122 300 Z3



Three square (1132)

Triangular file, tapered and cut on three sides. Tanged version. Shape C according to DIN 7261. Suitable for filing angular profiles.

Special features:

- Uniformly high stock removal rate.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation
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Industrial packaging (without handle)

1132	100	1	8	FH 3	-	10	11108101	1132 100 H1
		2	8	FH 3	-	10	11108102	1132 100 H2
		3	8	FH 3	-	10	11108103	1132 100 H3
	150	1	11	FH 3	-	10	11108151	1132 150 H1
		2	11	FH 3	-	10	11108152	1132 150 H2
		3	11	FH 3	-	10	11108153	1132 150 H3
	200	1	13	FH 4	-	10	11108201	1132 200 H1
		2	13	FH 4	-	10	11108202	1132 200 H2
		3	13	FH 4	-	10	11108203	1132 200 H3
	250	1	15.5	FH 5	-	10	11108251	1132 250 H1
		2	15.5	FH 5	-	10	11108252	1132 250 H2
		3	15.5	FH 5	-	10	11108253	1132 250 H3
	300	1	18	FH 5	-	5	11108301	1132 300 H1
		2	18	FH 5	-	5	11108302	1132 300 H2

Blister packaging (with handle)

1132	150	1	11	-	FH 3	1	18800801	PF-CS 1132 150 Z1
		2	11	-	FH 3	1	18800803	PF-CS 1132 150 Z2
		3	11	-	FH 3	1	18800805	PF-CS 1132 150 Z3
	200	1	13	-	FH 4	1	18800809	PF-CS 1132 200 Z1
		2	13	-	FH 4	1	18800813	PF-CS 1132 200 Z2
		3	13	-	FH 4	1	18800815	PF-CS 1132 200 Z3
	250	1	15.5	-	FH 5	1	18800817	PF-CS 1132 250 Z1
		2	15.5	-	FH 5	1	18800819	PF-CS 1132 250 Z2



Square (1142)

Square file, tapered and cut on four sides. Tanged version. Shape D according to DIN 7261. Suitable for filing angular profiles.



Special features:

- Uniformly high stock removal rate.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation
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Industrial packaging (without handle)

1142	100	1	4	FH 2	-	10	11104101	1142 100 H1
		2	4	FH 2	-	10	11104102	1142 100 H2
		3	4	FH 2	-	10	11104103	1142 100 H3
	150	1	6	FH 3	-	10	11104151	1142 150 H1
		2	6	FH 3	-	10	11104152	1142 150 H2
		3	6	FH 3	-	10	11104153	1142 150 H3
	200	1	8	FH 4	-	10	11104201	1142 200 H1
		2	8	FH 4	-	10	11104202	1142 200 H2
		3	8	FH 4	-	10	11104203	1142 200 H3
	250	1	10	FH 4	-	10	11104251	1142 250 H1
		2	10	FH 4	-	10	11104252	1142 250 H2
		3	10	FH 4	-	10	11104253	1142 250 H3
	300	1	12	FH 5	-	5	11104301	1142 300 H1
		2	12	FH 5	-	5	11104302	1142 300 H2

Blister packaging (with handle)

1142	150	1	6	-	FH 3	1	18800841	PF-CS 1142 150 Z1
		2	6	-	FH 3	1	18800843	PF-CS 1142 150 Z2
	200	1	8	-	FH 4	1	18800847	PF-CS 1142 200 Z1
		2	8	-	FH 4	1	18800849	PF-CS 1142 200 Z2
	250	1	10	-	FH 5	1	18800853	PF-CS 1142 250 Z1
		2	10	-	FH 5	1	18800855	PF-CS 1142 250 Z2

Files for the workshop

Machinist's files, DIN series

1



Half-round (1152)

Half-round file, cut on two sides. Tanged version. Shape E according to DIN 7261. Suitable for work on radii and for filing of half-round shapes.



Special features:

- Excellent filing performance thanks to PFERD TOOLS spiral cut.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation
---------	-------------	-----	------------	-------------	--------------	---	----------	-------------

Blister packaging (with handle)

1152	150	1	16	4.5	FH 3	1	18800766	PF-CS 1152 150 Z1
		2	16	4.5	FH 3	1	18800768	PF-CS 1152 150 Z2
		3	16	4.5	FH 3	1	18800770	PF-CS 1152 150 Z3
	200	1	20	6	FH 4/1	1	18800772	PF-CS 1152 200 Z1
		2	20	6	FH 4/1	1	18800774	PF-CS 1152 200 Z2
		3	20	6	FH 4/1	1	18800776	PF-CS 1152 200 Z3
	250	1	25	7	FH 4/1	1	18800328	PF-CS 1152 250 Z1
		2	25	7	FH 4/1	1	18800779	PF-CS 1152 250 Z2
	250	2	25	7	FH 4/1	1	18800781	PF-CS 1152 250 Z3
		3	25	7	FH 4/1	1	18800783	PF-CS 1152 250 Z3
	300	1	30	8.5	FH 5/1	1	18800783	PF-CS 1152 300 Z1



Half-round pointed (1152 SP)

Half-round pointed file, cut on two sides. Tanged version. Shape E according to DIN 7261. Suitable for work on radii and for filing of half-round shapes.

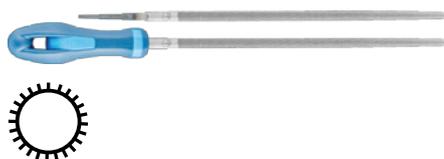
Special features:

- Excellent filing performance thanks to PFERD TOOLS spiral cut.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
---------	-------------	-----	------------	-------------	-----------------	---	----------	-------------

Industrial packaging (without handle)

1152 SP	100	1	10.4	2.5	FH 3	10	11105101	1152 SP 100 H1
		2	10.4	2.5	FH 3	10	11105102	1152 SP 100 H2
		3	10.4	2.5	FH 3	10	11105103	1152 SP 100 H3
	150	1	16	4.5	FH 3	10	11125151	1152 SP 150 H1
		2	16	4.5	FH 3	10	11125152	1152 SP 150 H2
		3	16	4.5	FH 3	10	11125153	1152 SP 150 H3
	200	1	20	6	FH 4/1	10	11125201	1152 SP 200 H1
		2	20	6	FH 4/1	10	11125202	1152 SP 200 H2
		3	20	6	FH 4/1	10	11125203	1152 SP 200 H3
	250	1	25	7	FH 4/1	10	11125251	1152 SP 250 H1
		2	25	7	FH 4/1	10	11125252	1152 SP 250 H2
		3	25	7	FH 4/1	10	11125253	1152 SP 250 H3
	300	1	30	8.5	FH 5/1	5	11125301	1152 SP 300 H1
		2	30	8.5	FH 5/1	5	11125302	1152 SP 300 H2
		3	30	8.5	FH 5/1	5	11125303	1152 SP 300 H3
	350	1	35	10	FH 5/1	5	11125351	1152 SP 350 H1



Round (1162)

Round file with circumferential cut. Tanged version. Shape F according to DIN 7261. Suitable for work on radii and for filing profiles with inner radii.



Special features:

- Excellent filing performance thanks to PFERD TOOLS spiral cut.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Diameter [mm]	Matching handle	Incl. handle		Item no.	Designation
---------	-------------	-----	---------------	-----------------	--------------	---	----------	-------------

Industrial packaging (without handle)

1162	100	1	4	FH 2	-	10	11107101	1162 100 H1
		2	4	FH 2	-	10	11107102	1162 100 H2
		3	4	FH 2	-	10	11107103	1162 100 H3
	150	1	6	FH 3	-	10	11107151	1162 150 H1
		2	6	FH 3	-	10	11107152	1162 150 H2
		3	6	FH 3	-	10	11107153	1162 150 H3
	200	1	7.5	FH 4	-	10	11107201	1162 200 H1
		2	7.5	FH 4	-	10	11107202	1162 200 H2
		3	7.5	FH 4	-	10	11107203	1162 200 H3
	250	1	9.5	FH 4	-	10	11107251	1162 250 H1
		2	9.5	FH 4	-	10	11107252	1162 250 H2
		3	9.5	FH 4	-	10	11107253	1162 250 H3
	300	1	12	FH 5	-	5	11107301	1162 300 H1
		2	12	FH 5	-	5	11107302	1162 300 H2
		3	12	FH 5	-	5	11107303	1162 300 H3
	350	1	15	FH 5	-	5	11107351	1162 350 H1

Blister packaging (with handle)

1162	150	1	6	-	FH 3	1	18800308	PF-CS 1162 150 Z1	
		2	6	-	FH 3	1	18800878	PF-CS 1162 150 Z2	
	150	3	6	-	FH 3	1	18800309	PF-CS 1162 150 Z3	
		200	1	7.5	-	FH 4	1	18800310	PF-CS 1162 200 Z1
			2	7.5	-	FH 4	1	18800882	PF-CS 1162 200 Z2
	200	3	7.5	-	FH 4	1	18800311	PF-CS 1162 200 Z3	
		250	1	9.5	-	FH 4	1	18800312	PF-CS 1162 250 Z1
			2	9.5	-	FH 4	1	18800886	PF-CS 1162 250 Z2
	250	3	9.5	-	FH 4	1	18800313	PF-CS 1162 250 Z3	
	300	1	12	-	FH 5	1	18800889	PF-CS 1162 300 Z1	



Knife files (1172)

Triangular file with knife profile, cut on two sides and the narrow edge. Tanged version. Shape G according to DIN 7261. For work on very acute-angled and narrow geometries.

Special features:

- Uniformly high stock removal rate.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.



Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
---------	-------------	-----	------------	-------------	-----------------	---	----------	-------------

Industrial packaging (without handle)

1172	200	2	20	6.4 x 1.5	FH 4/1	10	11109202	1172 200 H2
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Machinist's files in plastic pouch WR

Quality files for industry and trade in a protective and climate-resistant PVC pouch for storage in a toolbox or on a workbench. Each file comes with an ergonomic file handle.

Special features:

- Suitable for a wide range of applications.

Length [mm]	Contents		Item no.	Designation
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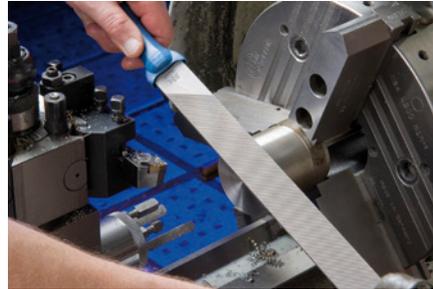
WR design = Machinist's files in plastic pouch

200	1112 200 H1, 1132 200 H1, 1142 200 H1, 1152 SP 200 H1, 1162 200 H1	1	11800531	531 WR 200
	1112 200 H2, 1132 200 H2, 1142 200 H2, 1152 SP 200 H2, 1162 200 H2	1	11800532	532 WR 200
250	1112 250 H1, 1132 250 H1, 1142 250 H1, 1152 SP 250 H1, 1162 250 H1	1	11800541	541 WR 250
	1112 250 H2, 1132 250 H2, 1142 250 H2, 1152 SP 250 H2, 1162 250 H2	1	11800542	542 WR 250
	1112 250 H3, 1132 250 H3, 1142 250 H3, 1152 SP 250 H3, 1162 250 H3	1	11800543	543 WR 250



Lathe files

Rectangular file, tanged and cut on two sides, two edges uncut. Shape H according to DIN 7261. Suitable for deburring parts turned on a lathe.



Special features:

- Opposed direction of the cut on the front and back side causes the file to move away from the chuck during lathe work. This improves safety.
- Suitable for use on aluminium, hard non-ferrous metals, plastics, steel and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1612 DE	250	Single cut	25	6	FH 4/1	10	12119253	1612 DE 250 H1
	300	Single cut	30	6.5	FH 5/1	5	12119303	1612 DE 300 H1

Key files



Hand (1117)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Rectangular file that is cut on three sides and uncut on one side. Tanged design.



Special features:

- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
---------	-------------	-----	------------	-------------	-----------------	---	----------	-------------

Industrial packaging (without handle)

1117	100	2	10	1.4	FH 2	10	11502102	1117 100 H2
	150	2	16	1.8	FH 2	10	11502152	1117 150 H2

Files for the workshop

Key files

1



Flat (1127)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Rectangular file, tapered and cut on four sides. Tanged design.



Special features:

- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1127	100	2	10	1.4	FH 2	10	11501102	1127 100 H2
	150	2	16	1.8	FH 2	10	11501152	1127 150 H2



Three square (1137)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Triangular file, tapered and cut on three sides. Tanged design.

Special features:

- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle		Item no.	Designation
1137	100	2	5	FH 2	10	11505102	1137 100 H2



Square (1147)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Square file, tapered and cut on four sides. Tanged design.

Special features:

- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle		Item no.	Designation
1147	100	2	3	FH 2	10	11506102	1147 100 H2

Industrial packaging (without handle)

1147	100	2	3	FH 2	10	11506102	1147 100 H2
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Files for the workshop

Key file sets



Key file set 265 K

Contains an application-oriented selection of key files. Ideal for fine and delicate filing.

Contents:

The set contains six key files. The set comprises one each of the following files: hand (1117), flat (1127), three square (1137), square (1147), half-round (1157) and round (1167).

- Supplied with mounted wooden handles in a metal box to protect against dirt and damage. Key files are only available in a set and not individually.

Special features:

- Suitable for a wide range of delicate and light filing tasks.

Length [mm]		Item no.	Designation
100	1	11700265	265 K 100 H2

Tungsten point file



Tungsten point file

Rectangular file with flat handle and cut 2 on two sides. Shape A according to DIN 7283. Very thin file, which is particularly suitable for work on contacts, narrow grooves and cut holes.

Special features:

- The punched file handle eliminates the need for an additional handle.
- Practical design.
- Suitable for use on soft non-ferrous metals, steel and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]		Item no.	Designation
1118 A	100	2	8	1.2	10	11509150	1118 A 100 H2

Car body files

Car body file blades

1

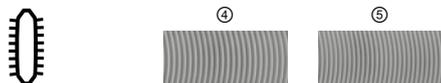
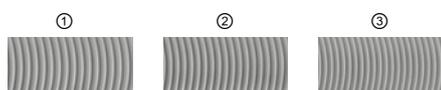


Image	Profile	Length [mm]	Cut	Version	Width [mm]	Height [mm]	Teeth per inch		Item no.	Designation
	299 b	350	00	extra-coarse	36	5.8	7	1	14101357	299 b 350 Z00
	299 b	350	0	very coarse	36	5.2	8	1	14101350	299 b 350 Z0
	299 b	350	1	coarse	36	4.7	9	1	14101351	299 b 350 Z1
	299 b	350	2	medium	36	4.7	10	1	14101352	299 b 350 Z2
	299 b	350	3	fine	36	4.7	12	1	14101353	299 b 350 Z3

Car body file blades 299 b

The car body file blades have razor-sharp tooth edges and, thanks to the individual clamping in the car body file holder, can be adjusted to the contour of the surface to be worked. The file blades can also be used at specific points.

Special features:

- The bending radius of the file can be steplessly adjusted via the tensioning system.
- Convex shape of the file blades prevents unwanted scratches.

- Suitable for use on aluminium and steels up to 1,200 N/mm².



Car body file blades 299 e

The car body file blades with special cross cut have can be adjusted to the contour of the surface to be worked as they are clamped individually in the car body file holder. The file blades can also be used at specific points.

Special features:

- The bending radius of the file can be steplessly adjusted via the tensioning system.

- Suitable for use on aluminium and steels up to 1,200 N/mm².

Profile	Length [mm]	Cut	Version	Width [mm]	Height [mm]		Item no.	Designation
299 e	350	Special cross cut (SK)	Extra fine	36	4.7	1	14107359	299 e 350

Car body files tanged



Car body files tanged

File curved in longitudinal and transverse direction (convex), tanged. Cut on one side.



Special features:

- Convex shape of the file prevents unwanted scratches.
- Can be used in a focused manner.
- Suitable for use on aluminium and steels up to 1,200 N/mm².

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
299 c	350	3	34.5	7.6	FH 5/1	1	14103353	299 c 350 H3

Milled tooth files

Milled tooth files, tanged



Hand

Rectangular file with cuts on three sides. Tanged version. Angled cut with chip divider on the flat sides, straight cut on the high edge. Suitable for work on rectangular geometries.

Special features:

- Very aggressive.
- No clogging thanks to the large flutes.
- Suitable for use on aluminium, grey cast iron, steels up to 1,200 N/mm², cast steel, copper and brass.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
290	350	1	36	7	FH 5/1	1	13101351	290 350 Z1



Sharpening files

Three square saw files

1



Saw files, slim (1237)

Triangular file, tapered with tang for a wide range of applications. Cut on three sides and three edges.

Special features:

- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle		Item no.	Designation
---------	-------------	-----	------------	-----------------	---	----------	-------------

Industrial packaging (without handle)

1237	100	2	6	FH 2	10	11402102	1237 100 H2
	125	2	7	FH 2	10	11402122	1237 125 H2
	150	2	8.5	FH 3	10	11402152	1237 150 H2
	175	2	10	FH 4	10	11402182	1237 175 H2
	200	2	12	FH 4	10	11402202	1237 200 H2



Saw files, extra slim (1238)

Triangular file, tapered with tang for a wide range of applications. Cut on three sides and three edges.

Special features:

- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation
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Industrial packaging (without handle)

1238	100	2	5	FH 2	-	10	11403102	1238 100 H2
	150	2	7	FH 2	-	10	11403152	1238 150 H2

Blister packaging (with handle)

1238	150	2	7	-	FH 2	1	18800412	PF-CS 1138 150 Z2
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Saw files, ultra-slim (1239)

Triangular file, tapered with tang for a wide range of applications. Cut on three sides and three edges.

Special features:

- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle		Item no.	Designation
1239	125	2	4.7	FH 2	10	11404122	1239 125 H2

Sharpening files

Mill saw files



Mill saw files (1212)

Rectangular file, tanged. With two straight edges and cut on four sides. Shape E according to DIN 7276.



Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
Industrial packaging (without handle)								
1212	200	2	20	3.5	FH 4/1	10	11607203	1212 200 H2
	250	2	25	4.5	FH 4/1	10	11607253	1212 250 H2
	300	2	30	5	FH 5/1	10	11607303	1212 300 H2



Mill saw files (1212 gr)

Rectangular file, tanged. With one round and one straight edge and cut on four sides. Shape E according to DIN 7276.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle) – gr									
1212 gr	250	2	25	4.5	FH 4/1	-	10	11608253	1212 gr 250 H2
POS packaging (with ergonomic file handle) – gr									
1212 gr	200	2	20	3.5	-	FH 4/1	1	11270208	PF 1212 gr 200 H2



Mill saw files (1212 r)

Rectangular file, tanged. With two round edges and cut on four sides. Shape E according to DIN 7276.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle) – r									
1212 r	250	2	25	4.5	FH 4/1	-	10	11609253	1212 r 250 H2
Blister packaging (with handle) – r									
1212 r	200	2	20	3.5	-	FH 4/1	1	18800437	PF-CS 1212r 200 Z2
	250	2	25	4.5	-	FH 4/1	1	18800441	PF-CS 1212r 250 Z3

Sharpening files

Mill saw files



1



Mill saw files, USA type 1212 SP ("mill file")

Rectangular file, tapered with tang, for sharpening, deburring and surface work. Cut on four sides. Shape E in accordance with DIN 7262.



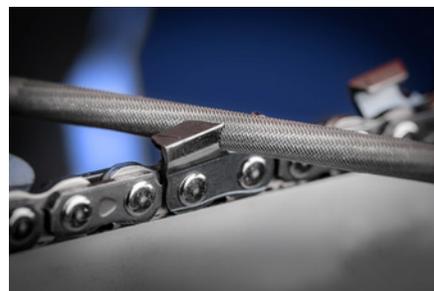
Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
Industrial packaging (without handle) – r								
1212 SP	150	1	16	3	FH 3	10	11904151	1212 SP 150 H1
		3	16	3	FH 3	10	11904153	1212 SP 150 H3
	200	1	20	3.5	FH 4/1	10	11904201	1212 SP 200 H1
		2	20	3.5	FH 4/1	10	11904202	1212 SP 200 H2
		3	20	3.5	FH 4/1	10	11904203	1212 SP 200 H3
	250	1	25	4.5	FH 4/1	10	11904251	1212 SP 250 H1
		2	25	4.5	FH 4/1	10	11904252	1212 SP 250 H2
		3	25	4.5	FH 4/1	10	11904253	1212 SP 250 H3
	300	1	30	5	FH 5/1	10	11904301	1212 SP 300 H1
		2	30	5	FH 5/1	10	11904302	1212 SP 300 H2
		3	30	5	FH 5/1	10	11904303	1212 SP 300 H3

Chain saw files



Chain saw files, round, Classic Line

Round Classic Line file for fast and score-free manual sharpening of saw chains. In comparison to machine sharpening, this file removes stock sparingly without thermal loads caused by friction on the metal.



Special features:

- Optimum combination of tool life and stock removal rate.
- Aggressive filing for quick sharpening.

Profile	Length [mm]	Diameter [mm]	Diameter [inch]	Chain pitch [inch]	Matching handle		Item no.	Designation
412 200	200	3.5	9/64	1/4 LP	SH 220	6	11004153	412 200 x 3,5 Classic
		4	5/32	1/4, 3/8 LP	FH 2	6	11016203	412 200 x 4,0 Classic
		4.5	11/64	.325	FH 2	6	11017203	412 200 x 4,5 Classic
		4.8	3/16	.325	FH 2, FH 3	6	11018203	412 200 x 4,8 Classic
		5.16	13/64	3/8	FH 3	6	11020203	412 200 x 5,16 Classic
		5.5	7/32	3/8, .404	FH 3	6	11022203	412 200 x 5,5 Classic
		6.3	1/4	-	FH 3	6	11024203	412 200 x 6,3 Classic
		7.9	5/16	3/4	FH 3	6	11028203	412 200 x 7,9 Classic

Sharpening files

Chain saw files



Chain saw files, round, Premium Line

Round Premium Line file for fast and score-free manual sharpening of saw chains. In comparison to machine sharpening, this file removes stock sparingly without thermal loads caused by friction on the metal.

Special features:

- Perfect sharpness thanks to innovative spiral cut.
- Fine tooth surfaces for maximum cutting performance and gentler filing.

Profile	Length [mm]	Diameter [mm]	Diameter [inch]	Chain pitch [inch]	Matching handle		Item no.	Designation
412 200	200	4	5/32	1/4, 3/8 LP	FH 2	6	11037203	412 200 x 4,0 Premium
		4.5	11/64	.325	FH 2	6	11038203	412 200 x 4,5 Premium
		4.8	3/16	.325	FH 2, FH 3	6	11039203	412 200 x 4,8 Premium
		5.16	13/64	3/8	FH 3	6	11040203	412 200 x 5,16 Premium
		5.5	7/32	3/8, .404	FH 3	6	11041203	412 200 x 5,5 Premium



Chain saw files in plastic pouch, pack of 2, Classic Line

Two round Classic Line files with spiral cut in promotional plastic packaging to protect against dirt and damage. One packaging unit contains twenty plastic packs, each containing two files. LP = Low Profile.



Special features:

- The overlapping opening on the rear ensures that no files can inadvertently slide out of the packaging.
- Optimum combination of tool life and stock removal rate.
- Aggressive filing for quick sharpening.

Profile	Length [mm]	Diameter [mm]	Diameter [inch]	Chain pitch [inch]	Matching handle		Item no.	Designation
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POS packaging

4122 SK	200	4	5/32	1/4, 3/8 LP	FH 2	2	11081203	4122 SK-4,0 200 Classic
		4.8	3/16	.325	FH 2, FH 3	2	11083203	4122 SK-4,8 200 Classic
		5.16	13/64	3/8	FH 3	2	18600757	4122 SK-5,16 200 Classic
		5.5	7/32	3/8, .404	FH 3	2	11085203	4122 SK-5,5 200 Classic



Wooden handles for chain saw files

The wooden handle for chain saw files has an angular contact surface which maintains a 35° filing angle for accurate, even sharpening of all chain saw teeth.

Special features:

- Optimized filing angle ensures precise, even filing.

Suitable for chain saw file diameter [mm]	Total length [mm]		Item no.	Designation
4.8 / 5.16 / 5.5 / 6.3 / 7.0 / 7.9	100	10	12611010	HKSF 100/10

Sharpening files

Chain saw files

1



Ergonomic file handle for chain saw files

Ergonomic file handle for chain saw files for comfortable and safe working. Soft plastic without plasticizer on the outside with a hard, stable inner part.



Special features:

- Protects hands against sharp edges and corners.
- Ergonomic shape with optimized handle.
- Files do not roll away.

Suitable for chain saw file diameter [mm]	Total length [mm]		Item no.	Designation
4.0 / 4.5 / 4.8 / 5.16 / 5.5	120	10	12617110	FH 1 KSF

CHAIN SHARP chain saw sharpeners



①



②

CHAIN SHARP CS-X chain saw sharpeners

The CHAIN SHARP CS-X chain saw sharpener enables the saw teeth to be sharpened and the depth gauge to be adjusted simultaneously. The optimized shape and excellent file position ensure precise guidance and optimum sharpening results.



Contents:

The chain saw sharpener consists of a sharpener, a depth gauge file and two Classic Line chain saw files.

Special features:

- Turn the device over to change from the right to the left tooth, no conversion work required.
- Improved shape makes it easy to replace the files.
- The chain saw sharpener provides a sharpening angle of 30°.

Image	Suitable for chain saw file diameter [mm]	Suitable for chain saw file diameter [inch]	Chain pitch [inch]	Depth gauge distance [mm]	Suitable depth gauge file		Item no.	Designation
①	3.2	1/8	1/4 LP	0.45	4132	1	18600742	CS-X-3,2
②	4.0	5/32	3/8 LP	0.65	4132	1	11098040	CS-X-4,0
	4.8	3/16	.325	0.65	4132	1	11098048	CS-X-4,8
	5.16	13/64	3/8	0.65	4132	1	11098051	CS-X-5,16
	5.5	7/32	.404	0.75	4132	1	11098055	CS-X-5,5

POS packaging

①	3.2	1/8	1/4 LP	0.45	4132	1	18600742	CS-X-3,2
②	4.0	5/32	3/8 LP	0.65	4132	1	11098040	CS-X-4,0
	4.8	3/16	.325	0.65	4132	1	11098048	CS-X-4,8
	5.16	13/64	3/8	0.65	4132	1	11098051	CS-X-5,16
	5.5	7/32	.404	0.75	4132	1	11098055	CS-X-5,5



Depth gauge files for CHAIN SHARP CS-X

Rectangular file with cut on two sides. Suitable for the CHAIN SHARP CS-X chain saw sharpener.

Special features:

- Stock removal rate is precisely tailored to the depth gauge.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Suitable for		Item no.	Designation
4132	200	2	9	6	CS-X	10	11692202	4132 200



Flat chain saw files for depth gauge

Rectangular file, tapered with two round uncut edges and cut on two sides. Shape F according to DIN 7262. Flat chain saw files are used to file the depth gauges of saw chains.



Special features:

- Stock removal rate is precisely tailored to the depth gauge.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1213 ruk	150	2	16	3	FH 3	10	11610153	1213 ruk 150 H2



Chisel bit files, hand

For repairing and sharpening saw chains with angular tooth base. For edge grinding saw chains. Can be used for sharpening the cutting edge and for lowering the depth gauge.

Special features:

- Highly recommended for beginners.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1215	175	2	12.4	3.3	FH 3	1	18801226	1215 FLST 175 (1)



Chisel bit files, three square

For repairing and sharpening saw chains with angular tooth base. For edge grinding saw chains.

Special features:

- Particularly suitable for sharpening 3/8" chains.

Profile	Length [mm]	Cut	Height [mm]	Matching handle		Item no.	Designation
1250	175	2	4.6	FH 3	1	18801225	1250 DKT 175 (1)

Files and rasps for wood

Hoof rasps

1



Hoof plane

Rectangular file, tanged and cut on four sides. One side fine, one side coarse. Suitable for straightening of the hoof surface, finishing the hoof wall, filing the toes and for work on the hoof nails after undercutting, conserving energy and easing back strain.



Special features:

- Long tool life.
- Very good surface quality.
- Comfortable filing for worker and animal alike.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]		Item no.	Designation
3515	350	milled	44	6	1	13180350	3515 350



Flat

The rectangular, tapered files, cut on four sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:

- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Flat								
2406	160	2	3.25	5.5	1.4	12	12505083	2406 160 H2



Hand

The rectangular files, cut on four sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:

- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Hand								
2401	160	2	3.25	5.5	1.4	12	12501083	2401 160 H2



Three square

Triangular, tapered files, cut on three sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:

- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Three square								
2407	160	2	3.25	3.7	12		12508083	2407 160 H2



Square

Square, tapered files, cut on four sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:

- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Square								
2408	160	2	3.25	2.5	12		12511083	2408 160 H2

Precision files

Needle files

1



Knives

Triangular, tapered files with knife profile, cut on two sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:

- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
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Knife shape

2405	160	2	3.25	5.8	1.7	12	12506083	2405 160 H2
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Round

Round, tapered files with circumferential cut are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.



Special features:

- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
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Round

2410	160	2	3.25	3.25	12	12	12512083	2410 160 H2
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Half-round

Half-round, tapered files, cut on two sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:

- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
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Half-round

2402	160	2	3.25	5.7	1.8	12	12509083	2402 160 H2
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Precision files

Needle file sets



① ②

Needle file sets

Contains an application-oriented selection of needle files.

Contents:

The set contains 12 needle files. The set comprises one each of the following needle files: flat (2406), hand (2401), crossing oval (2403), three square (2407), square (2408), round (2410), knife (2405), half-round (2402), barrette (2411), flat with round edges (2415), hand with round edges (2416), crossing oval round oval (2409).

Special features:

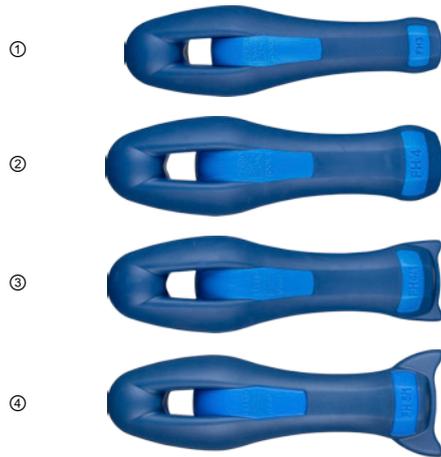
- Supplied in a PVC plastic pouch or a practical plastic box.

Image	Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation
PVC plastic pouch						
①	160	1	12	1	12704082	266/16 P 160 H1
Plastic box						
②	160	2	12	1	12799010	NFB 2493 160 H2

File handles, file sleeves, file brush

File handles

1



Ergonomic file handles

Ergonomic file handles for comfortable and safe work. Soft plastic without plasticizer on the outside with a hard, stable inner part.

Special features:

- Protects hands against sharp edges and corners.
- Ergonomic shape with optimized handle.
- Files do not roll away.

Image	Suitable for file length [mm]	Total length [mm]	Suitable for		Item no.	Designation
①	100, 125	110	Profiles: square, round, key files	10	12617120	FH 2-10
	100, 150	110	Profiles: hand, flat, half-round, half-round pointed, three square. Profiles: square, round; for file length 150 mm suitable file handle is FH 3.	10	12617130	FH 3-10
②	200, 250	115	Profiles: three square (file handle FH 5 is suitable for a file length of 250 mm), square, round, special shapes	10	12617140	FH 4-10
③	200, 250	115	Profiles hand, flat, half-round	10	12617141	FH 4/1-10
②	300, 350	115	Profiles three square, square, round, special shapes	10	12617150	FH 5-10
④	300, 350	115	Profiles hand, flat, half-round	10	12617151	FH 5/1-10

Quick-mounting handles



Quick-mounting handle

Quick-mounting handle for needle files, diamond files and smaller machinist's and precision files.

Special features:

- Reliably clamps the file tangs into the handle by simply twisting the two halves of the handle.

Suitable for file length [mm]	Suitable for tang diameter [mm]	Total length [mm]		Item no.	Designation
140, 160, 180, 200	3.0 / 3.25 / 3.5 / 3.75	90	10	12605004	SH 220



Needle file holder

Quick-mounting handles for needle files with 3–4.5 mm tang diameter.

Special features:

- Practical and lightweight.
- Available in two materials.

Image	Suitable for tang diameter [mm]	Total length [mm]		Item no.	Designation
①	3.0 / 3.25 / 3.5 / 3.75	100	10	12299004	NFH 211-3 K
②	3.0 / 3.25 / 3.5 / 3.75	92	10	12299010	NFH 212

File handles, file sleeves, file brush

File brush



File brush

The file brush effortlessly cleans chips from a clogged file. With robust wooden handle with wear-resistant steel wire filament.



Special features:

- Easy to clean.
- Long tool life.

Length [mm]		Item no.	Designation
Steel wire (ST)			
232	5	12601000	HBF 10 ST 0,30