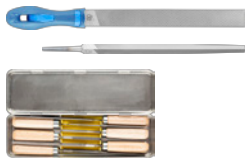




# Files

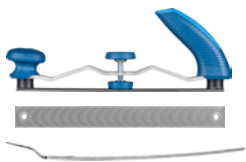
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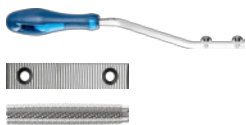
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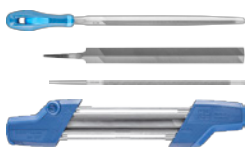
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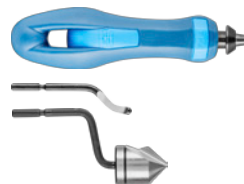
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- Hand deburrer 68



### Car body files

PFERD car body files are not just used for automotive body work. They are ideal for any surface work on sheet metal, non-ferrous metals and plastics requiring a particularly high surface quality and scratch-free finish. Scan the QR code to find out more about PFERD's range of car body files.



**Advantages:**

- Versatile application.
- Ideal tooth shape.
- Convex shape prevents scratches.

### 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, users who do not have as much experience can also achieve precise and uniform sharpening results.



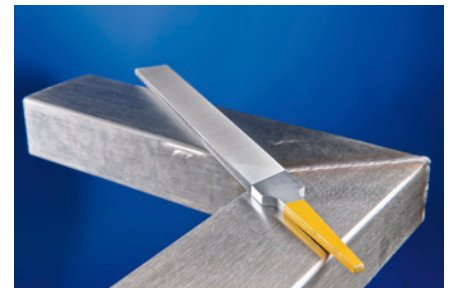
The CHAIN SHARP CS-X chain saw sharpener combines the functions of a depth gauge file and chain saw file in one. It allows the saw tooth to be sharpened whilst the depth gauge is adjusted at the same time. Scan the QR code to find out more about PFERD's range of chain saw sharpeners.

**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.

### CORINOX files

CORINOX files are characterized by an exceptional surface hardness grade of 1,200 HV (Vickers scale). They are ideal for precisely filing components made of materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP). Scan the QR code to find out more about PFERD's range of CORINOX files and needle files.



**Advantages:**





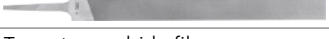


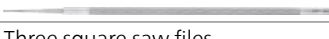












- Extremely wear-resistant and sturdy thanks to high surface hardness.
- Low tendency to cause chip adhesion.

# Files

The quick way to find the perfect tool



1

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



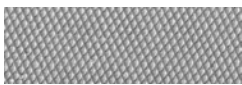
## Files for the workshop



- 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.

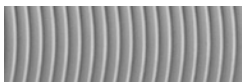
## Car body files



- Cut 00**
- Radial cut for very coarse stock removal and roughing.
  - Creates score-free surfaces.



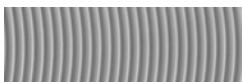
- Cut 0**
- Radial cut for coarse stock removal and roughing.
  - Creates score-free surfaces.



- Cut 1**
- Radial cut for coarse stock removal and roughing.
  - Creates score-free surfaces.

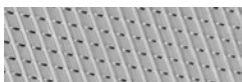


- Cut 2**
- Radial cut for general roughing and finishing.
  - Creates score-free surfaces.

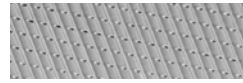


- Cut 3**
- Radial cut for fine stock removal and finishing.
  - Creates score-free surfaces.

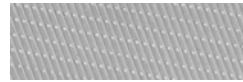
## Milled tooth files



- 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.

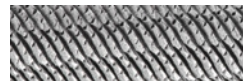


- Cut 3**
- Straight cut for fine stock removal on soft metals.
  - Because of its milled tooth shape with large flutes, the teeth do not clog up.

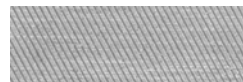
## Sharpening files



- 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.

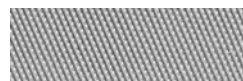


- Cut 2**
- Rasp cut for coarse stock removal.



- Cut 3**
- Rasp cut for coarse stock removal.

## Precision files



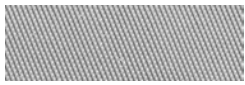
- Cut 00**
- Cross cut for very coarse precision work.

# Files

## The most common PFERD cuts



1



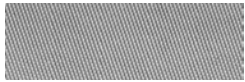
### Cut 0

- Cross cut for coarse precision work.



### Cut 3

- Cross cut for fine precision work.



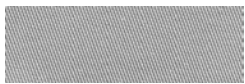
### Cut 1

- Cross cut for medium precision work.



### Cut 4

- Cross cut for very fine precision work.



### Cut 2

- Cross cut for medium-fine precision work.



**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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>										
1112	100	1	12	2.5	FH 2	-	10	11101101	1112 100 H1	-
		2	12	2.5	FH 2	-	10	11101102	1112 100 H2	-
		3	12	2.5	FH 2	-	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	FH 5/1	-	5	11101302	1112 300 H2	-
		3	30	6.5	FH 5/1	-	5	11101303	1112 300 H3	-
	350	1	35	7.5	FH 5/1	-	5	11101351	1112 350 H1	-
		2	35	7.5	FH 5/1	-	5	11101352	1112 350 H2	-
	<b>POS packaging (with ergonomic file handle)</b>									
1112	150	1	16	4	-	FH 3	1	11210156	PF 1112 150 H1	-
		2	16	4	-	FH 3	1	11210157	PF 1112 150 H2	-
		3	16	4	-	FH 3	1	11210158	PF 1112 150 H3	-
	200	1	20	5	-	FH 4/1	1	11210206	PF 1112 200 H1	-
		2	20	5	-	FH 4/1	1	11210207	PF 1112 200 H2	-
		3	20	5	-	FH 4/1	1	11210208	PF 1112 200 H3	-
	250	1	25	6	-	FH 4/1	1	11210256	PF 1112 250 H1	-
		2	25	6	-	FH 4/1	1	11210257	PF 1112 250 H2	-
		3	25	6	-	FH 4/1	1	11210258	PF 1112 250 H3	-
	300	1	30	6.5	-	FH 5/1	1	11210306	PF 1112 300 H1	-
		2	30	6.5	-	FH 5/1	1	11210307	PF 1112 300 H2	-
		3	30	6.5	-	FH 5/1	1	11210308	PF 1112 300 H3	-

# Files for the workshop

Machinist's files, DIN series



1




## 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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>										
1122	100	1	12	2.5	FH 2	-	10	11103101	1122 100 H1	-
		2	12	2.5	FH 2	-	10	11103102	1122 100 H2	-
		3	12	2.5	FH 2	-	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	FH 5/1	-	5	11103351	1122 350 H1	-	
<b>POS packaging (with ergonomic file handle)</b>										
1122	150	1	16	4	-	FH 3	1	11216156	PF 1122 150 H1	-
		2	16	4	-	FH 3	1	11216157	PF 1122 150 H2	-
		3	16	4	-	FH 3	1	11216158	PF 1122 150 H3	-
	200	1	20	5	-	FH 4/1	1	11216206	PF 1122 200 H1	-
		2	20	5	-	FH 4/1	1	11216207	PF 1122 200 H2	-
		3	20	5	-	FH 4/1	1	11216208	PF 1122 200 H3	-
	250	1	25	6	-	FH 4/1	1	11216256	PF 1122 250 H1	-
		2	25	6	-	FH 4/1	1	11216257	PF 1122 250 H2	-
		3	25	6	-	FH 4/1	1	11216258	PF 1122 250 H3	-
	300	1	30	6.5	-	FH 5/1	1	11216306	PF 1122 300 H1	-
		2	30	6.5	-	FH 5/1	1	11216307	PF 1122 300 H2	-
		3	30	6.5	-	FH 5/1	1	11216308	PF 1122 300 H3	-





**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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>									
1132	100	1	8	FH 2	-	10	11108101	1132 100 H1	-
		2	8	FH 2	-	10	11108102	1132 100 H2	-
		3	8	FH 2	-	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	-	
<b>POS packaging (with ergonomic file handle)</b>									
1132	150	1	11	-	FH 3	1	11211156	PF 1132 150 H1	-
		2	11	-	FH 3	1	11211157	PF 1132 150 H2	-
		3	11	-	FH 3	1	11211158	PF 1132 150 H3	-
	200	1	13	-	FH 4	1	11211206	PF 1132 200 H1	-
		2	13	-	FH 4	1	11211207	PF 1132 200 H2	-
		3	13	-	FH 4	1	11211208	PF 1132 200 H3	-
	250	1	15.5	-	FH 5	1	11211256	PF 1132 250 H1	-
		2	15.5	-	FH 5	1	11211257	PF 1132 250 H2	-

# Files for the workshop

Machinist's files, DIN series



1




## 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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>									
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	-
<b>POS packaging (with ergonomic file handle)</b>									
1142	150	1	6	-	FH 3	1	11212156	PF 1142 150 H1	-
		2	6	-	FH 3	1	11212157	PF 1142 150 H2	-
	200	1	8	-	FH 4	1	11212206	PF 1142 200 H1	-
		2	8	-	FH 4	1	11212207	PF 1142 200 H2	-
	250	1	10	-	FH 4	1	11212256	PF 1142 250 H1	-
		2	10	-	FH 4	1	11212257	PF 1142 250 H2	-




### 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 spiral cut.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>										
1152	150	1	16	4.5	FH 3	-	10	11105151	1152 150 H1	-
		2	16	4.5	FH 3	-	10	11105152	1152 150 H2	-
		3	16	4.5	FH 3	-	10	11105153	1152 150 H3	-
	200	1	20	6	FH 4/1	-	10	11105201	1152 200 H1	-
		2	20	6	FH 4/1	-	10	11105202	1152 200 H2	-
		3	20	6	FH 4/1	-	10	11105203	1152 200 H3	-
	250	1	25	7	FH 4/1	-	10	11105251	1152 250 H1	-
		2	25	7	FH 4/1	-	10	11105252	1152 250 H2	-
		3	25	7	FH 4/1	-	10	11105253	1152 250 H3	-
	300	1	30	8.5	FH 5/1	-	5	11105301	1152 300 H1	-
		2	30	8.5	FH 5/1	-	5	11105302	1152 300 H2	-
		3	30	8.5	FH 5/1	-	5	11105303	1152 300 H3	-
350	1	35	10	FH 5/1	-	5	11105351	1152 350 H1	-	
<b>POS packaging (with ergonomic file handle)</b>										
1152	150	1	16	4.5	-	FH 3	1	11213156	PF 1152 150 H1	-
		2	16	4.5	-	FH 3	1	11213157	PF 1152 150 H2	-
		3	16	4.5	-	FH 3	1	11213158	PF 1152 150 H3	-
	200	1	20	6	-	FH 4/1	1	11213206	PF 1152 200 H1	-
		2	20	6	-	FH 4/1	1	11213207	PF 1152 200 H2	-
		3	20	6	-	FH 4/1	1	11213208	PF 1152 200 H3	-
	250	1	25	7	-	FH 4/1	1	11213256	PF 1152 250 H1	-
		2	25	7	-	FH 4/1	1	11213257	PF 1152 250 H2	-
		3	25	7	-	FH 4/1	1	11213258	PF 1152 250 H3	-
	300	1	30	8.5	-	FH 5/1	1	11213306	PF 1152 300 H1	-




### 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 spiral cut.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>										
1152 SP	100	1	10.4	2.5	FH 2	-	10	11105101	1152 SP 100 H1	-
		2	10.4	2.5	FH 2	-	10	11105102	1152 SP 100 H2	-
		3	10.4	2.5	FH 2	-	10	11105103	1152 SP 100 H3	-


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	Price/unit EUR
1152 SP	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	-	

### POS packaging (with ergonomic file handle)

1152 SP	150	1	16	4.5	-	FH 3	1	11235156	PF 1152 SP 150 H1	-
		2	16	4.5	-	FH 3	1	11235157	PF 1152 SP 150 H2	-
		3	16	4.5	-	FH 3	1	11235158	PF 1152 SP 150 H3	-
	200	1	20	6	-	FH 4/1	1	11235206	PF 1152 SP 200 H1	-
		2	20	6	-	FH 4/1	1	11235207	PF 1152 SP 200 H2	-
		3	20	6	-	FH 4/1	1	11235208	PF 1152 SP 200 H3	-
	250	1	25	7	-	FH 4/1	1	11235256	PF 1152 SP 250 H1	-
		2	25	7	-	FH 4/1	1	11235257	PF 1152 SP 250 H2	-
		3	25	7	-	FH 4/1	1	11235258	PF 1152 SP 250 H3	-
	300	1	30	8.5	-	FH 5/1	1	11235306	PF 1152 SP 300 H1	-
		2	30	8.5	-	FH 5/1	1	11235307	PF 1152 SP 300 H2	-
		3	30	8.5	-	FH 5/1	1	11235308	PF 1152 SP 300 H3	-




### 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 spiral cut.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	∅ [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>									
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	-

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Profile	Length [mm]	Cut	ø [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
1162	250	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	-

**POS packaging (with ergonomic file handle)**

1162	150	1	6	-	FH 3	1	11214156	PF 1162 150 H1	-
		2	6	-	FH 3	1	11214157	PF 1162 150 H2	-
		3	6	-	FH 3	1	11214158	PF 1162 150 H3	-
	200	1	7.5	-	FH 4	1	11214206	PF 1162 200 H1	-
		2	7.5	-	FH 4	1	11214207	PF 1162 200 H2	-
		3	7.5	-	FH 4	1	11214208	PF 1162 200 H3	-
	250	1	9.5	-	FH 4	1	11214256	PF 1162 250 H1	-
		2	9.5	-	FH 4	1	11214257	PF 1162 250 H2	-
		3	9.5	-	FH 4	1	11214258	PF 1162 250 H3	-
	300	1	12	-	FH 5	1	11214306	PF 1162 300 H1	-




### 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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
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**Industrial packaging (without handle)**

1172	150	2	16	5.2 x 1.25	FH 3	10	11109152	1172 150 H2	-
		3	16	5.2 x 1.25	FH 3	10	11109153	1172 150 H3	-
	200	1	20	6.4 x 1.5	FH 4/1	10	11109201	1172 200 H1	-
		2	20	6.4 x 1.5	FH 4/1	10	11109202	1172 200 H2	-
		3	20	6.4 x 1.5	FH 4	10	11109203	1172 200 H3	-
	250	1	25	7.9 x 1.75	FH 4/1	10	11109251	1172 250 H1	-
2		25	7.9 x 1.75	FH 4/1	10	11109252	1172 250 H2	-	

# Files for the workshop

Machinist's files, DIN series

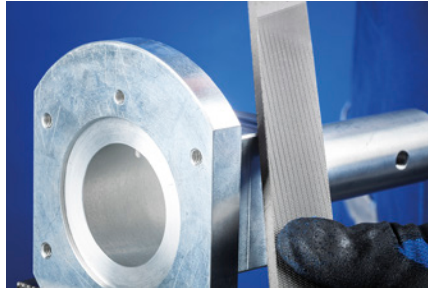


1




## PFERD-PLUS files, hand type (1112)

Rectangular file, cut on three sides, one edge uncut. Tanged design. Shape A in accordance with DIN 7261. Excellent filing performance thanks to the special PFERD-PLUS cut. Suitable for work on rectangular geometries.



### Special features:

- Easy and energy-saving working due to spade-like filing teeth.
- No clogging whilst processing soft materials thanks to a wide chip breaker.
- Can be used generally for all hobby and DIY purposes.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation	Price/unit EUR
<b>POS packaging (with ergonomic file handle)</b>									
1112	200	PLUS-cut	20	5	FH 4/1	1	11215206	PF 1112 PLUS 200	-
	250	PLUS-cut	25	6	FH 4/1	1	11215256	PF 1112 PLUS 250	-
	300	PLUS-cut	30	6.5	FH 5/1	1	11215306	PF 1112 PLUS 300	-




## Machinist's files in plastic pouch WR, machinist's files in plastic pouch with cardboard box WRU


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.
- Available on request with matching plastic pouch to save space when stored. Available in the versions WR (plastic pouch) and WRU (plastic pouch with cardboard box).
- PFERD also provides the plastic pouches with files that are 200 and 250 mm in length in attractive packaging with a transparent window.

Length [mm]	Contents		Item no.	Designation	Price/unit EUR
<b>WR design = Machinist's files in plastic pouch</b>					
200	1112 200 H1, 1142 200 H1, 1152 200 H1, 1162 200 H1, 1552 200 H2	1	11800520	520 WR 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	-
	1112 200 H3, 1132 200 H3, 1142 200 H3, 1152 SP 200 H3, 1162 200 H3	1	11800533	533 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	-
300	1112 300 H1, 1132 300 H1, 1142 300 H1, 1152 SP 300 H1, 1162 300 H1	1	11800551	551 WR 300	-
	1112 300 H2, 1132 300 H2, 1142 300 H2, 1152 SP 300 H2, 1162 300 H2	1	11800552	552 WR 300	-
200 / 300	1112 200 H1, 1112 300 H1, 1112 200 H2, 1112 300 H2, 1112 200 H3, 1112 300 H3	1	11800555	555 WR 200/300	-

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Length [mm]	Contents		Item no.	Designation	Price/unit EUR
<b>WRU design = Machinist's files in plastic pouch with cardboard box</b>					
200	1112 200 H1, 1142 200 H1, 1152 200 H1, 1162 200 H1, 1552 200 H2	1	11801520	520 WRU 200	-
	1112 200 H1, 1132 200 H1, 1142 200 H1, 1152 SP 200 H1, 1162 200 H1	1	11801531	531 WRU 200	-
	1112 200 H2, 1132 200 H2, 1142 200 H2, 1152 SP 200 H2, 1162 200 H2	1	11801532	532 WRU 200	-
	1112 200 H3, 1132 200 H3, 1142 200 H3, 1152 SP 200 H3, 1162 200 H3	1	11801533	533 WRU 200	-
250	1112 250 H1, 1132 250 H1, 1142 250 H1, PF 1152 SP 250 H1, PF 1162 250 H1	1	11801541	541 WRU 250	-
	1112 250 H2, 1132 250 H2, 1142 250 H2, 1152 SP 250 H2, 1162 250 H2	1	11801542	542 WRU 250	-
	1112 250 H3, 1132 250 H3, 1142 250 H3, 1152 SP 250 H3, 1162 250 H3	1	11801543	543 WRU 250	-




### File set

Quality files designed to meet the needs of DIY users in a protective cardboard box. Precise versions with a high stock removal rate and a long tool life. Also suitable for sharpening. Each file comes with an ergonomic file handle.

#### Contents:

The set consists of a PF 1512 VZ 200 H1/1 (file rasp), a PF 1152 200 H1 (half-round file) and a PF 1212 VZ 200 H1/2 (hobby file).

Length [mm]	Contents		Item no.	Designation	Price/unit EUR
200	PF 1152 200 H1, PF 1212 VZ 200 H1/2, PF 1512 VZ 200 H1/1	1	11202300	PF-Set 300 200	-

## Special files




### Hobby file (1212)

Rectangular file with different cuts on three sides. Version with tang and ergonomic file handle. Cross cut 1 on front side for roughing, single cut 2 on back side and edge for sharpening.

#### Special features:

- For roughing and sharpening using the same tool.
- Versatile.
- Suitable for use on steel and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation	Price/unit EUR
<b>POS packaging (with ergonomic file handle)</b>									
1212	200	Cross cut 1 / single cut 2	25	4.5	FH 4/1	1	11273207	PF 1212 VZ 200 H1/2	-




### File rasp (1512)

Rectangular file with different cuts on both flat sides. Version with tang and ergonomic file handle. Cross cut 1 on front side for roughing, rasp cut 1 on back side for rasping and one cut edge.

#### Special features:

- For roughing and sharpening using the same tool.
- Versatile.
- Suitable for use on soft non-ferrous metals, wood, plastics and steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation	Price/unit EUR
<b>POS packaging (with ergonomic file handle)</b>									
1512	200	Cross cut 1 / rasp cut 1	20	5	FH 4/1	1	11232206	PF 1512 VZ 200 H1/1	-

1



### Universal sharpening file (1212)

Rectangular file, tanged and single cut 2 on two sides, with rounded, uncut narrow edges and ergonomic file handle. Often referred to as a lawnmower file. Suitable for sharpening cutting tools.



#### Special features:

- Long tool life.
- High surface quality with optimum cutting performance.
- Suitable for use on steel and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation	Price/unit EUR
<b>POS packaging (with ergonomic file handle)</b>									
1212	200	Single cut 2	25	4.5	FH 4/1	1	11272207	PF 1212 ruk 200 H2	-



### Fitter's file (611)

Rectangular file with different milled cuts, tanged and with ergonomic file handle. Straight cut with chip breaker on front side, radial cut on rear, uncut edges.

#### Special features:

- Extremely robust design.
- Versatile.
- Suitable for use on aluminium, soft non-ferrous metals, wood, plastics, steels up to 1,200 N/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation	Price/unit EUR
<b>POS packaging (with ergonomic file handle)</b>									
611	250	Radial 1/straight 2	24	5.3	FH 4/1	1	11273256	PF 611 250 Z1/2	-



### Files for aluminium, hand (1612 w)

Rectangular file, tanged and special cut on three sides, one edge uncut. Shape A according to DIN 7261. Particularly suitable for work on soft metals.



#### Special features:

- Special tooth geometry prevents the file from clogging.
- Good surfaces and labour-saving work.
- Suitable for use on aluminium, soft non-ferrous metals and plastics.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
1612 w	250	0	25	6	FH 4/1	10	11102250	1612 w 250 H0	-
	300	0	30	6.5	FH 5/1	5	11102300	1612 w 300 H0	-






### Files for aluminium, half-round (1652 w)

Half-round file, tanged with cut on two sides. Shape E according to DIN 7261. Excellent filing performance thanks to the PFERD spiral cut on the half-round side. Particularly suitable for work on soft metals.

**Special features:**

- Special tooth geometry prevents the file from clogging.
- Good surfaces and labour-saving work.
- Suitable for use on aluminium, soft non-ferrous metals and plastics.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
1652 w	250	0	25	7	FH 4/1	10	11106250	1652 w 250 H0	-
	300	0	30	8.5	FH 5/1	5	11106300	1652 w 300 H0	-




### Deburring files

Rectangular file, tanged and cross cut on three sides, one edge uncut. The cross cut is characterized by a particularly high stock removal rate. Also well suited to work on plastics, particularly thermosetting plastics.

**Special features:**

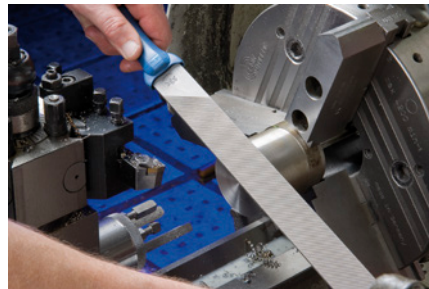
- Exceptionally high stock removal rate.
- Suitable for use on soft non-ferrous metals and plastics.
- Versatile.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
1312	150	Cross cut	16	2.8	FH 3	10	11110150	1312 150	-
	200	Cross cut	20	3.5	FH 4/1	10	11110200	1312 200	-




### 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	Price/unit EUR
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	-

# Files for the workshop

## Key files



1



### 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:

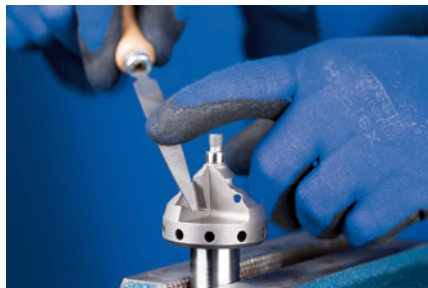
- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>										
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	-
<b>POS packaging (with wooden handle)</b>										
1117	100	2	10	1.4	-	Wooden handle	1	11251102	PF 1117 100 H2	-



### 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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle		Item no.	Designation	Price/unit EUR
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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>									
1147	100	2	3	FH 2	-	10	11506102	1147 100 H2	-
<b>POS packaging (with wooden handle)</b>									
1147	100	2	3	-	Wooden handle	1	11254102	PF 1147 100 H2	-




### Half-round (1157)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Half-round file, cut on two 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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>										
1157	100	2	9	3	FH 2	-	10	11503102	1157 100 H2	-
<b>POS packaging (with wooden handle)</b>										
1157	100	2	9	3	-	Wooden handle	1	11255102	PF 1157 100 H2	-




### Round (1167)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Round file with circumferential cut. 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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	ø [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>									
1167	100	2	3	FH 2	-	10	11504102	1167 100 H2	-
<b>POS packaging (with wooden handle)</b>									
1167	100	2	3	-	Wooden handle	1	11256102	PF 1167 100 H2	-

# Files for the workshop

## Key file sets



1



### Key file set 265 A


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

#### Contents:

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

#### Special features:

- Suitable for a wide range of delicate and light filing tasks.
- Supplied with quick-mounting handle no. 210 in a plastic pouch to protect against dirt and damage. Handle is only available in a set and not individually.

Length [mm]		Item no.	Designation	Price/unit EUR
100	1	11702100	265 A 100 H2	-



### Key file set 265 B


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).

#### Special features:

- Suitable for a wide range of delicate and light filing tasks.
- Supplied with mounted wooden handles in a plastic pouch to protect against dirt and damage. Key files are only available in a set and not individually.

Length [mm]		Item no.	Designation	Price/unit EUR
100	1	11706100	265 B 100 H2	-



### 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).

#### Special features:

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

Length [mm]		Item no.	Designation	Price/unit EUR
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	Price/unit EUR
1118 A	100	2	8	1.2	10	11509150	1118 A 100 H2	-



## Adjustable holders for car body files

This light ergonomic holder with plastic handles without plasticizer allows individual tensioning of car body file blades to match the surface contour of the workpiece.

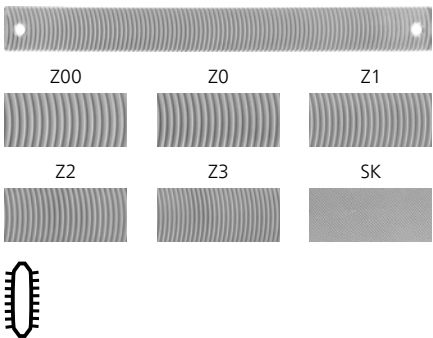


### Special features:

- The bending radius of the file can be steplessly adjusted via the tensioning system.
- Can be used in a focused manner or over a wide area as the car body file can be used curved as well as straight.
- Enables work with low levels of fatigue thanks to vibration-damping rubber pad.

Suitable for file length [mm]		Item no.	Designation	Price/unit EUR
300	1	14000167	KFH 300	-
350	1	14203350	KFH 350	-

## Car body file blades



### Car body file blades

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 (type 299 b) prevents unwanted scratches.
- Suitable for use on aluminium and steels up to 1,200 N/mm<sup>2</sup>.

Profile	Length [mm]	Cut	Version	Width [mm]	Height [mm]	Teeth per inch		Item no.	Designation	Price/unit EUR
299 b	300	1	coarse	31	4.7	9	1	14101301	299 b 300 Z1	-
		2	medium	31	4.7	10	1	14101302	299 b 300 Z2	-
		3	fine	31	4.7	12	1	14101303	299 b 300 Z3	-
	350	0	very coarse	36	5.2	8	1	14101350	299 b 350 Z0	-
		00	extra-coarse	36	5.8	7	1	14101357	299 b 350 Z00	-
		1	coarse	36	4.7	9	1	14101351	299 b 350 Z1	-
		2	medium	36	4.7	10	1	14101352	299 b 350 Z2	-
		3	fine	36	4.7	12	1	14101353	299 b 350 Z3	-
299 e	350	Special cross cut (SK)	-	36	4.7	-	1	14107359	299 e 350	-

# Car body files

## Car body files tanged

1




### 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/mm<sup>2</sup>.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
299 c	350	1	34.5	7.6	FH 5/1	5	14103351	299 c 350 H1	-
		3	34.5	7.6	FH 5/1	5	14103353	299 c 350 H3	-



### Paint peeler

Small paint peeler with file blade that can be used on both sides, for finishing of very small painted surfaces thanks to precisely adjustable plastic holder. For levelling and correction of painting faults, and for removal of extremely thin paint layers.

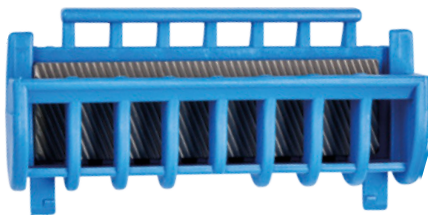


#### Special features:

- Convex shape prevents unwanted scratches.
- Precision-cut, razor-sharp teeth provide a very high-quality, score-free surface finish.
- Surfaces can be painted or processed immediately.

Length [mm]	Cut	Width [mm]	Height [mm]	Replacement file		Item no.	Designation	Price/unit EUR
<b>Paint peeler (including file)</b>								
50	3	36	4.7	LAHF 50 Z3	1	14302001	LAH Z3	-
<b>Replacement file for paint peeler</b>								
50	3	36	4.7	-	10	14131053	LAHF 50 Z3	-

## Universal chamfer file



UKF



KF 110

### Universal chamfer file

Rectangular file in a special plastic holder, angled cut on two sides. Ideal for quick and easy deburring work.



#### Special features:

- The special holder enables easy tool control and exact, right-angled positioning of the chamfer file on the guide rail.
- Outstandingly well suited for sharpening ski edges and repairing guide rails on motor saws.
- Suitable for use on aluminium, grey cast iron and steels up to 1,200 N/mm<sup>2</sup>.

Length [mm]	Cut	Width [mm]	Height [mm]	Replacement file		Item no.	Designation	Price/unit EUR
<b>Universal chamfer file (including file blade)</b>								
110	2	-	-	KF 110 Z2	1	13217110	UKF Z2	-
<b>Spare file blade</b>								
110	2	31	4.7	-	10	13215112	KF 110 Z2	-

# Milled tooth files

## Milled tooth files, tanged



1




### Hand

Rectangular file with cuts on three sides. Tanged version. Angled cut with chip breaker 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/mm<sup>2</sup>, cast steel, copper and brass.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
290	250	1	25	5.5	FH 4/1	10	13101251	290 250 Z1	-
		2	25	5.5	FH 4/1	10	13101252	290 250 Z2	-
	300	1	30	6	FH 5/1	5	13101301	290 300 Z1	-
		2	30	6	FH 5/1	5	13101302	290 300 Z2	-
		3	30	6	FH 5/1	5	13101303	290 300 Z3	-
	350	1	36	7	FH 5/1	5	13101351	290 350 Z1	-
2		36	7	FH 5/1	5	13101352	290 350 Z2	-	




### Half-round, hollow

Half-round file, hollow and tapered. Tanged version. With chip breaker on the half-round side, angled cut on one side. Suitable for work on radii and for filing of half-round shapes.



#### 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/mm<sup>2</sup>, cast steel, copper and brass.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
295	250	1	23	7	FH 4/1	10	13103251	295 250 Z1	-
	300	1	27	9	FH 5/1	5	13103301	295 300 Z1	-

## Milled tooth file blades




### Hand

Rectangular file with two holes for mounting on the file holder, angled cut with chip breaker on the flat sides.



#### Special features:

- Very aggressive.
- No clogging thanks to the large flutes.
- Suitable for use on aluminium, grey cast iron, cast steel and steels up to 1,200 N/mm<sup>2</sup>.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Suitable holders		Item no.	Designation	Price/unit EUR
296	300	1	31	4.7	296a/300	5	13201301	296 300 Z1	-
		2	31	4.7	296a/300	5	13201302	296 300 Z2	-
	350	1	36	4.7	296a/350	5	13201351	296 350 Z1	-
		2	36	4.7	296a/350	5	13201352	296 350 Z2	-






## Holder for file blades

This reusable file holder gives optimum file control and optimum filing results. It can also easily be used for car body file blades. Available in two sizes for all PFERD milled file blades.

**Special features:**

- Quick tool changes without special tools.

- Practical design.

Suitable for file length [mm]	Matching handle		Item no.	Designation	Price/unit EUR
300	FH 5/1	1	13203300	296a/300	-
350	FH 5/1	1	13203350	296a/350	-

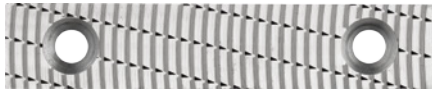
# Tungsten carbide files

## Tungsten carbide files

1



HMF 5010/1  
HMF 13220/1



HMF 5010/2  
HMF 13220/2


### Tungsten carbide files flat

Flat tungsten carbide files for working on flat and convex surfaces. Optimum work results achieved thanks to radial and convex cut pattern. Tungsten carbide file holders (HMFH) must be ordered separately.

#### Special features:

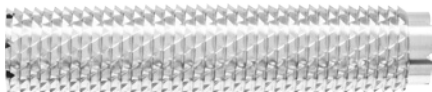
- **HMF 5010/1, HMF 13220/1:** Rectangular files, convex in transverse and longitudinal direction, cut on one side for a high surface quality.
- **HMF 5010/2, HMF 13220/2:** Rectangular file, convex in transverse direction, cut on two sides, one side with chip breakers for high stock removal.

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

Length [mm]	Teeth per cm	Height [mm]	Width [mm]	Chip breaker	Suitable holders		Item no.	Designation	Price/unit EUR
50	10	10	5	-	HMFH 50	1	14403041	HMF 5010/1	-
	6.5	10	5	1 side without, 1 side with	HMFH 50	1	14403042	HMF 5010/2	-
132	5	20	7	-	HMFH 132	1	14410131	HMF 13220/1	-
				1 side without, 1 side with	HMFH 132	1	14410132	HMF 13220/2	-



HMF 1050



HMF 1250


### Round tungsten carbide files

Round tungsten carbide files with circumferential cut for working on concave shapes and for reworking internal radii. Please order holders for tungsten carbide files (HMFH 51 R) separately.

#### Special features:

- The unique tooth geometry ensures optimum results.

- For 360° use: Mounting in the HMFH 51 R file holder enables the files to be moved about their own axis in 60° increments.
- Suitable for use on steel and steel materials with hardness > 54 HRC.

Length [mm]	Teeth per cm	ø [mm]	Suitable holders		Item no.	Designation	Price/unit EUR
50	8	10	HMFH 51 R	1	14405040	HMF 1050	-
		12	HMFH 51 R	1	14406040	HMF 1250	-

## Holder for tungsten carbide files



HMFH 50



HMFH 132




HMFH 51 R

### Holder for tungsten carbide files

Reusable and ergonomically shaped file holder with ergonomic file handle. Please order tungsten carbide files separately.

#### Special features:

- Optimal file control is guaranteed.
- The best results.
- Quick tool changes.

Suitable tungsten carbide files		Item no.	Designation	Price/unit EUR
HMF 5010/2, HMF 5010/1	1	14203050	HMFH 50	-
HMF 13220/2, HMF 13220/1	1	14204132	HMFH 132	-
HMF 1050, HMF 1250	1	14203051	HMFH 51 R	-




### Saw files, normal (1232)

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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>									
1232	125	2	10	FH 3	-	10	11401122	1232 125 H2	-
	150	2	12	FH 3	-	10	11401152	1232 150 H2	-
	250	2	18	FH 4	-	10	11401252	1232 250 H2	-
<b>POS packaging (with ergonomic file handle)</b>									
1232	125	2	10	-	FH 3	1	11274127	PF 1232 125 H2	-
	150	2	12	-	FH 3	1	11274157	PF 1232 150 H2	-




### 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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>									
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	-
<b>POS packaging (with ergonomic file handle)</b>									
1237	125	2	7	-	FH 2	1	11275127	PF 1237 125 H2	-
	150	2	8.5	-	FH 3	1	11275157	PF 1237 150 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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>									
1238	100	2	5	FH 2	-	10	11403102	1238 100 H2	-
	150	2	7	FH 2	-	10	11403152	1238 150 H2	-
<b>POS packaging (with ergonomic file handle)</b>									
1238	150	2	7	-	FH 2	1	11277157	PF 1238 150 H2	-

# Sharpening files

## Three square saw files

1



### 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/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle		Item no.	Designation	Price/unit EUR
1239	125	2	4.7	FH 2	10	11404122	1239 125 H2	-
	200	2	8	FH 3	10	11404202	1239 200 H2	-



### Fine saw file

Triangular file with knife profile, tanged. Cut on two sides and the narrow edge.

**Special features:**

- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>										
340	110	2	6.5	4.8	FH 2	-	10	11630113	340 110 H2	-
<b>POS packaging (with ergonomic file handle)</b>										
340	110	2	6.5	4.8	-	FH 2	1	11279118	PF 340 110 H2	-



### Cantsaw file (1230)

Triangular file, tanged. Cut on three sides, non-equilateral triangular shape.

**Special features:**

- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup> and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
1230	200	2	22.4	12.5	FH 4	10	11633202	1230 200 H2	-



### Band saw files (1231)

Triangular file, tapered with tang. Cut on three sides, round cut edges. Shape D according to DIN 7262. Suitable for sharpening saw blades.

**Special features:**

- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup> and cast steel.


Profile	Length [mm]	Cut	Width [mm]	Matching handle		Item no.	Designation	Price/unit EUR
1231	150	2	14.6	FH 3	10	11621152	1231 150 H2	-
	175	2	15.5	FH 4	10	11621182	1231 175 H2	-
	200	2	17	FH 4	10	11621202	1231 200 H2	-



**Knife sharpening files (1272)**

Triangular file with knife profile, tanged. Cut on two sides and the narrow edge. Shape G according to DIN 7262.




Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>										
1272	200	2	20	6.4 x 1.5	FH 4/1	-	10	11604203	1272 200 H2	-
	250	2	25	7.9 x 1.75	FH 4/1	-	10	11604253	1272 250 H2	-
<b>POS packaging (with ergonomic file handle)</b>										
1272	200	2	20	6.4 x 1.5	-	FH 4/1	1	11276208	PF 1272 200 H2	-

**Featheredge file**



**Featheredge file**

File with rhomboid cross section with feather edge profile, tanged. Cut on four sides.

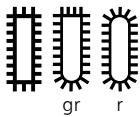
Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
305	200	2	30	5	FH 5/1	10	11605203	305 200 H2	-

# Sharpening files

## Mill saw files



1



### Mill saw files (1212)

Rectangular file, tanged. Available in three designs: With two straight edges (1212), one round and one straight edge (1212 gr), with two round edges (1212 r) and cut on four sides. Shape E in accordance with DIN 7276.



Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>										
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	-
<b>Industrial packaging (without handle) – gr</b>										
1212 gr	150	2	16	3	FH 3	-	10	11608153	1212 gr 150 H2	-
	200	2	20	3.5	FH 4/1	-	10	11608203	1212 gr 200 H2	-
	250	2	25	4.5	FH 4/1	-	10	11608253	1212 gr 250 H2	-
	300	2	30	5	FH 5/1	-	10	11608303	1212 gr 300 H2	-
<b>POS packaging (with ergonomic file handle) – gr</b>										
1212 gr	200	2	20	3.5	-	FH 4/1	1	11270208	PF 1212 gr 200 H2	-
<b>Industrial packaging (without handle) – r</b>										
1212 r	200	2	20	3.5	FH 4/1	-	10	11609203	1212 r 200 H2	-
	250	2	25	4.5	FH 4/1	-	10	11609253	1212 r 250 H2	-
	300	2	30	5	FH 5/1	-	10	11609303	1212 r 300 H2	-
<b>POS packaging (with ergonomic file handle) – r</b>										
1212 r	200	2	20	3.5	-	FH 4/1	1	11271208	PF 1212 r 200 H2	-
	250	2	25	4.5	-	FH 4/1	1	11271258	PF 1212 r 250 H2	-



### 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	Price/unit EUR
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, round

Round 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. LP = Low Profile.



#### Special features:

- Precise spiral cut for extreme sharpness and exceptionally long tool life.
- **Classic Line:** Optimum combination of tool life and stock removal rate, aggressive filing for quick sharpening.
- **Premium Line:** Perfect sharpness thanks to innovative spiral cut. Fine tooth surfaces for maximum cutting performance and gentler filing.

Profile	Length [mm]	∅ [mm]	∅ [inch]	Performance Line	Chain pitch [inch]	Matching handle		Item no.	Designation	Price/unit EUR
412 200	200	3.5	9/64	Classic Line	1/4 LP	SH 220	6	11004153	412 200 x 3,5 Classic	-
		4	5/32	Classic Line	1/4, 3/8 LP	FH 2	6	11016203	412 200 x 4,0 Classic	-
				Premium Line	1/4, 3/8 LP	FH 2	6	11037203	412 200 x 4,0 Premium	-
		4.5	11/64	Classic Line	.325	FH 2	6	11017203	412 200 x 4,5 Classic	-
				Premium Line	.325	FH 2	6	11038203	412 200 x 4,5 Premium	-
		4.8	3/16	Classic Line	.325	FH 2, FH 3	6	11018203	412 200 x 4,8 Classic	-
				Premium Line	.325	FH 2, FH 3	6	11039203	412 200 x 4,8 Premium	-
		5.16	13/64	Classic Line	3/8	FH 3	6	11020203	412 200 x 5,16 Classic	-
				Premium Line	3/8	FH 3	6	11040203	412 200 x 5,16 Premium	-
		5.5	7/32	Classic Line	3/8, .404	FH 3	6	11022203	412 200 x 5,5 Classic	-
				Premium Line	3/8, .404	FH 3	6	11041203	412 200 x 5,5 Premium	-
		6.3	1/4	Classic Line	-	FH 3	6	11024203	412 200 x 6,3 Classic	-
		7	9/32	Classic Line	-	FH 3	6	11026203	412 200 x 7,0 Classic	-
7.9	5/16	Classic Line	3/4	FH 3	6	11028203	412 200 x 7,9 Classic	-		




### Chain saw files in plastic pouch, pack of 3

Three round files with spiral cut in promotional plastic packaging to protect against dirt and damage. The opening on the front of the packaging makes it easier to remove and return the files. A packaging unit contains four packs, each containing three files. LP = Low Profile.

#### Special features:

- The chain saw files 412, file diameter 3.2 mm, are supplied with a round cylindrical tang.
- **Classic Line:** Optimum combination of tool life and stock removal rate, aggressive filing for quick sharpening.
- **Premium Line:** Perfect sharpness thanks to innovative spiral cut. Fine tooth surfaces for maximum cutting performance and gentler filing.

Profile	Length [mm]	∅ [mm]	∅ [inch]	Performance Line	Chain pitch [inch]	Matching handle		Item no.	Designation	Price/unit EUR
<b>POS packaging</b>										
412 4x3	200	3.2	1/8	Classic Line	1/4 LP	SH 220	12	18600740	412 4x3 200 x 3,2 Classic	-
				Classic Line	1/4, 3/8 LP	FH 2	12	11071203	412 4x3 200 x 4,0 Classic	-
		4	5/32	Premium Line	1/4, 3/8 LP	FH 2	12	18600759	412 4x3 200 X 4,0 Premium	-
				Classic Line	.325	FH 2	12	18600763	412 4x3 200 x 4,5 Classic	-
		4.5	11/64	Premium Line	.325	FH 2	12	18600764	412 4x3 200 X 4,5 Premium	-
				Classic Line	.325	FH 2, FH 3	12	11073203	412 4x3 200 x 4,8 Classic	-
		4.8	3/16	Premium Line	.325	FH 2, FH 3	12	18600760	412 4x3 200 X 4,8 Premium	-
				Classic Line	3/8	FH 3	12	18600758	412 4x3 200 x 5,16 Classic	-
		5.16	13/64	Premium Line	3/8	FH 3	12	18600761	412 4x3 200 x 5,16 Premium	-
				Classic Line	3/8, .404	FH 3	12	11075203	412 4x3 200 x 5,5 Classic	-
5.5	7/32	Premium Line	3/8, .404	FH 3	12	18600762	412 4x3 200 x 5,5 Premium	-		

# Sharpening files

## Chain saw files



1




### Chain saw files in plastic pouch, pack of 2

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.
- **Classic Line:** Optimum combination of tool life and stock removal rate, aggressive filing for quick sharpening.

Profile	Length [mm]	ø [mm]	ø [inch]	Performance Line	Chain pitch [inch]	Matching handle		Item no.	Designation	Price/unit EUR
<b>POS packaging</b>										
4122 SK	200	4	5/32	Classic Line	1/4, 3/8 LP	FH 2	40	11081203	4122 SK-4,0 200 Classic	-
		4.8	3/16	Classic Line	.325	FH 2, FH 3	40	11083203	4122 SK-4,8 200 Classic	-
		5.16	13/64	Classic Line	3/8	FH 3	40	18600757	4122 SK-5,16 200 Classic	-
		5.5	7/32	Classic Line	3/8, .404	FH 3	40	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 ø [mm]	Total length [mm]		Item no.	Designation	Price/unit EUR
4,8 / 5,16 / 5,5 / 6,3 / 7,0 / 7,9	100	10	12611010	HKSF 100/10	-
		100	12610010	HKSF 100/100	-



FH 1 KSF



KSSL


### Ergonomic file handle, chain saw gauge

The chain saw gauge supports consistent sharpening results by providing the correct sharpening angle. It is attached to the pin of the FH 1 KSF ergonomic file handle. Please order the FH 1 KSF ergonomic file handle separately.



#### Special features:

- The chain saw gauge is available in two designs: angle 25°/30° and angle 30°/35°.

Suitable for chain saw file ø [mm]	Total length [mm]		Item no.	Designation	Price/unit EUR
<b>Ergonomic file handle</b>					
4,0 / 4,5 / 4,8 / 5,16 / 5,5	120	10	12617110	FH 1 KSF	-
<b>Chain saw gauge</b>					
4,0 / 4,5 / 4,8 / 5,16 / 5,5	-	10	12600020	KSSL 25/30	-
			12600010	KSSL 30/35	-





### Set of ergonomic file handles, chain saw gauge

Set of one ergonomic file handle for chain saw files and two chain saw gauges. The chain saw gauge is attached to the pin of the FH 1 KSF ergonomic file handle.




#### Contents:

The set consists of an FH 1 KSF ergonomic file handle, a KSSL 25/30 chain saw gauge (angle 25°/30°) and a KSSL 30/35 chain saw gauge (angle 30°/35°).

#### Special features:

- The chain saw gauge supports consistent sharpening results by providing the correct sharpening angle.
- The set is provided in sales-boosting individual packaging.

	Item no.	Designation	Price/unit EUR
1	12600030	SET FH1 KSSL 25/30-30/35	-

## CHAIN SHARP chain saw sharpeners



CS-X-3,2



CS-X-4,0 / CS-X-4,8  
CS-X-5,16 / CS-X-5,5

### 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:

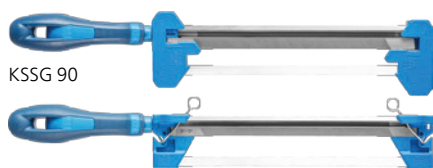
- Turn the device over to change from the right to the left tooth, no conversion work required.
- Improved shape makes it easy to replace the files.
- The chain saw sharpener provides a sharpening angle of 30°.

Suitable for chain saw file ø [mm]	Suitable for chain saw file ø [inch]	Chain pitch [inch]	Depth gauge distance [inch]	Suitable depth gauge file		Item no.	Designation	Price/unit EUR
<b>POS packaging</b>								
3,2	1/8	1/4 LP	0.45	4132	1	18600742	CS-X-3,2	-
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	-

# Sharpening files

## CHAIN SHARP chain saw sharpeners

1

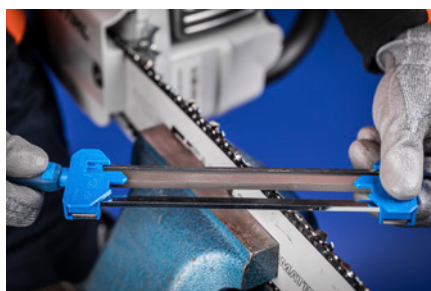


KSSG 90

KSSG 91

### CHAIN SHARP KSSG chain saw sharpeners

You can convert the device for sharpening the right and left cutting teeth in a few steps.




#### Contents:

The chain saw sharpener consists of a sharpener, a Classic Line chain saw file, a depth gauge file and an FH 1 KSF ergonomic file handle.

#### Special features:

- Maximum precision for optimal sharpening results.
- For simultaneously sharpening the saw teeth and adjusting the depth gauge.
- Available in three designs that are adapted to different chain pitches.

Suitable for chain saw file ø [mm]	Suitable for chain saw file ø [inch]	Chain pitch [inch]	Depth gauge distance [inch]	Suitable depth gauge file		Item no.	Designation	Price/unit EUR
<b>POS packaging</b>								
4,0	5/32	3/8 LP	0.65	4131	1	11099092	KSSG 91-4,0	-
4,8	3/16	.325	0.65	4130	1	11098090	KSSG 90-4,8	-
5,5	7/32	.404	0.65	4130	1	11099090	KSSG 90-5,5	-



### CHAIN SHARP CS-MT chain saw sharpeners

Compact sharpener made up of chain saw file and depth gauge file in a single ergonomic tool. The defined elevation of the chain saw file makes sharpening the saw teeth easier and prevents the connecting links of the saw chain from being damaged.




#### Contents:

The chain saw sharpener consists of a sharpener, a Classic Line chain saw file, a depth gauge file, an ergonomic file handle and a depth gauge.

#### Special features:

- Depth gauge can be individually adjusted. Gauge supplied gives depth gauge distances of 0.65 mm (.025") for harder wood or 0.75 mm (.030") for softer wood.
- Suitable for all commercially available chain saw files.
- Long tool life with PFERD files.

Suitable for chain saw file ø [mm]	Suitable for chain saw file ø [inch]	Chain pitch [inch]	Depth gauge distance [inch]	Suitable depth gauge file		Item no.	Designation	Price/unit EUR
<b>POS packaging</b>								
4,0	5/32	3/8 LP	0.65	1213 ruk 150	1	11091040	CS-MT-4,0	-
4,8	3/16	.325	0.65	1213 ruk 150	1	11091048	CS-MT-4,8	-
5,16	13/64	3/8	0.65	1213 ruk 150	1	11091051	CS-MT-5,16	-
5,5	7/32	.404	0.65	1213 ruk 150	1	11091055	CS-MT-5,5	-



### CHAIN SHARP CS-SL chain saw sharpeners

The handy and compact sharpening gauge combines a chain saw file and a gauge in one ergonomic tool. The gauge supports consistent sharpening results by providing the correct sharpening angle. PFERD files allow a long usage period.



**Contents:**

The sharpening gauge comprises a Classic Line chain saw file with an ergonomic file handle and a gauge.

**Special features:**

- Precise and uniform sharpening result, even for semi-professional users.
- Different designs adapted to different chain pitches. Suitable for all commercially available saw chains.
- A defined chain saw file elevation makes it easier to sharpen the saw tooth and prevents damage to the connecting links of the saw chain.

Suitable for chain saw file ø [mm]	Suitable for chain saw file ø [inch]	Chain pitch [inch]	Depth gauge distance [inch]		Item no.	Designation	Price/unit EUR
<b>POS packaging</b>							
4,0	5/32	3/8 LP	0.65	1	11099040	CS-SL-4,0	-
4,8	3/16	.325	0.65	1	11099048	CS-SL-4,8	-
5,16	13/64	3/8	0.65	1	11099051	CS-SL-5,16	-
5,5	7/32	.404	0.65	1	11099055	CS-SL-5,5	-



### CHAIN SHARP CS-SLS chain saw sharpener set

CHAIN SHARP CS-SLS Set for maintaining saw chains and guide rails. The compact and ergonomic sharpener enables saw chains to be sharpened in a targeted way. The defined elevation of the chain saw file makes sharpening the saw teeth easier and prevents the connecting links of the saw chain from being damaged.

**Contents:**

The chain saw sharpener set consists of a sharpener, two Classic Line chain saw files, a depth gauge file with an ergonomic file handle and a depth gauge. The set is supplied in a belt pouch which protects against damage and dirt.

**Special features:**

- Depth gauge can be individually adjusted. Gauge supplied gives depth gauge distances of 0.65 mm (.025") for harder wood or 0.75 mm (.030") for softer wood.
- Long tool life and precise and uniform sharpening results with PFERD files. Even for semi-professional users.
- The set enables saw chains and guide rails to be maintained.

	Item no.	Designation	Price/unit EUR
1	11099140	SET CS-SLS-4.0	-
	11099148	SET CS-SLS-4.8	-
	11099151	SET CS-SLS-5.16	-
	11099155	SET CS-SLS-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	Price/unit EUR
4132	200	2	9	6	CS-X	10	11692202	4132 200	-
						1	11692203	4132 200 (1)	-



### Depth gauge files for CHAIN SHARP KSSG

Rectangular file with cut on two sides. Available in two different cross sections. Suitable for the CHAIN SHARP KSSG 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	Price/unit EUR
4130	200	2	9	6	KSSG 90-4,8, KSSG 90-5,5	10	11690202	4130 200	-
4131	200	2	7	4.5	KSSG 91-4,0	10	11691202	4131 200	-



### Flat chain saw files for depth gauge

Rectangular file, tanged 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	Price/unit EUR
1213 ruk	150	2	16	3	FH 3	10	11610153	1213 ruk 150 H2	-
						1	11610154	1213 ruk 150 H2 (1)	-
	200	2	20	3.5	FH 4/1	10	11610203	1213 ruk 200 H2	-
						1	11610204	1213 ruk 200 H2 (1)	-



### Chisel bit files

For repairing and sharpening saw chains with angular tooth base. For edge grinding saw chains. Available as three square or flat file.

**Special features:**

- The three square version is especially well-suited for sharpening 3/8" chains.
- The flat version can be used for sharpening the cutting edge and for lowering the depth gauge. Highly recommended for beginners.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
1215	175	2	12.4	3.3	FH 3, FH 3-1	1	18801226	1215 FLST 175 (1)	-
1250	175	2	-	4.6	FH 3, FH 3-1	1	18801225	1250 DKT 175 (1)	-



### Half-round files for wood

Half-round file with special file cut on two sides. Shape C in accordance with DIN 7263. Tanged design. Particularly suitable for cutting wood.

**Special features:**

- High stock removal rate.
- Good chip removal.
- Suitable for use on wood and plastics.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/ unit EUR
1159	200	2	20	6	FH 4/1	10	11106202	1159 200 H2	-
	250	2	25	7	FH 4/1	10	11106252	1159 250 H2	-



### Cabinet files for wood

Half-round file, tapered with special cut on two sides. Flatter and wider design in comparison to the half-round file. Shape F in accordance with DIN 7263. Tanged design. Particularly suitable for cutting wood.

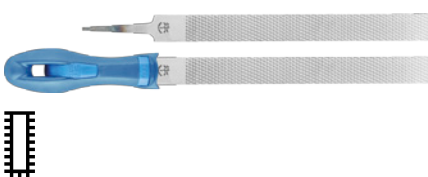


**Special features:**

- High stock removal rate.
- Good chip removal.
- Suitable for use on wood and plastics.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/ unit EUR
1158	200	1	23	4.7	FH 4/1	5	11310201	1158 200 H1	-
	250	1	29	6	FH 4/1	5	11310251	1158 250 H1	-

## Wood rasps



### Hand wood rasps

Rectangular file with cut on three sides, flat sides with rasp cut, one edge with file cut, one edge uncut. Shape A in accordance with DIN 7263. Tanged design. Particularly suitable for coarse cutting of wood.



**Special features:**

- High stock removal rate.
- Good chip removal.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/ unit EUR
<b>Industrial packaging (without handle)</b>										
1512	200	2	20	6.5	FH 4/1	-	10	11306202	1512 200 H2	-
	250	1	25	7.5	FH 4/1	-	10	11306251	1512 250 H1	-
		2	25	7.5	FH 4/1	-	10	11306252	1512 250 H2	-


*Continued on next page*

# Files and rasps for wood

## Wood rasps



1

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>POS packaging (with ergonomic file handle)</b>										
1512	200	2	20	6.5	-	FH 4/1	1	11231207	PF 1512 200 H2	-
	250	2	25	7.5	-	FH 4/1	1	11231257	PF 1512 250 H2	-




### Half-round wood rasps

Half-round file, tapered with rasp cut on two sides. Shape C in accordance with DIN 7263. Tanged design. Particularly suitable for coarse cutting of wood.



#### Special features:

- High stock removal rate.
- Good chip removal.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>										
1552	150	2	16	6	FH 3	-	10	11307152	1552 150 H2	-
		1	21	7.5	FH 4/1	-	10	11307201	1552 200 H1	-
	200	2	21	7.5	FH 4/1	-	10	11307202	1552 200 H2	-
		1	25	8.5	FH 4/1	-	10	11307251	1552 250 H1	-
		2	25	8.5	FH 4/1	-	10	11307252	1552 250 H2	-
		3	25	8.5	FH 4/1	-	10	11307253	1552 250 H3	-
		1	30	10	FH 5/1	-	5	11307301	1552 300 H1	-
	2	30	10	FH 5/1	-	5	11307302	1552 300 H2	-	

<b>POS packaging (with ergonomic file handle)</b>										
1552	150	2	16	6	-	FH 3	1	11233157	PF 1552 150 H2	-
		1	21	7.5	-	FH 4/1	1	11233206	PF 1552 200 H1	-
	200	2	21	7.5	-	FH 4/1	1	11233207	PF 1552 200 H2	-
		2	25	8.5	-	FH 4/1	1	11233257	PF 1552 250 H2	-




### Round wood rasps (1562)

Round file, tapered with circumferential rasp cut. Shape E according to DIN 7263. Tanged version. Suitable for work on radii and for filing profiles with inner radii.



**Special features:**

- High stock removal rate.
- Good chip removal.

Profile	Length [mm]	Cut	ø [mm]	Matching handle	Incl. handle		Item no.	Designation	Price/unit EUR
<b>Industrial packaging (without handle)</b>									
1562	200	2	9.5	FH 4	-	10	11308202	1562 200 H2	-
	250	2	11.5	FH 4	-	10	11308252	1562 250 H2	-
<b>POS packaging (with ergonomic file handle)</b>									
1562	200	2	9.5	-	FH 4	1	11234207	PF 1562 200 H2	-
	250	2	11.5	-	FH 4	1	11234257	PF 1562 250 H2	-




### Cabinet rasps (1558)

Half-round file, tapered with rasp cut on two sides. Shape D according to DIN 7263. Tanged version. Wider and flatter than a half-round wood rasp. Suitable for work on surfaces, radii, half-round profiles and edges (chamfering and rounding).



**Special features:**

- High stock removal rate.
- Good chip removal.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
1558	200	2	25	6	FH 4/1	5	11309202	1558 200 H2	-
		3	29	7	FH 4/1	5	11309252	1558 250 H2	-
	250	2	29	7	FH 4/1	5	11309253	1558 250 H3	-
		3	29	7	FH 4/1	5	11309255	1558 250 H5	-
		2	34	8	FH 5/1	5	11309302	1558 300 H2	-

# 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]	Matching handle		Item no.	Designation	Price/unit EUR
3515	350	milled	44	6	FH 5	1	13180350	3515 350	-




### Hoof rasp

Rectangular file, tanged and cut on four sides, one flat side with a rasp cut, one flat side with a cross cut, two edges with a file cut. Shape B according to DIN 7263.

#### Special features:

- Very robust tool.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
3510	350	Rasp/filing cut 1	40	6	FH 5	5	11313351	3510 350 H1	-

## Special rasps




### Sculptor's file rasp

Half-round file rasp with two curved ends, each with different cuts (file cut and rasp cut). They are used for the processing of carved woodwork, plastics, relief ornaments, casting patterns and areas which are hard to reach.

#### Special features:

- Suitable for use on wood, soft stone, plastics and horn.

Profile	Length [mm]	Cut		Item no.	Designation	Price/unit EUR
3553	200	2	5	11316202	3553 200 H2	-





### Staircase maker's file rasp

File rasp with two half-round, curved ends with rasp cut on the outer radius and file cut on the inner radius. They are used for the processing of carved woodwork, plastics, relief ornaments, casting patterns and areas which are hard to reach.



**Special features:**

- Suitable for use on wood, soft stone, plastics and horn.

Profile	Length [mm]	Cut		Item no.	Designation	Price/unit EUR
3554	250	2	5	11303252	3554 250 H2	-



### Staircase maker's rasp

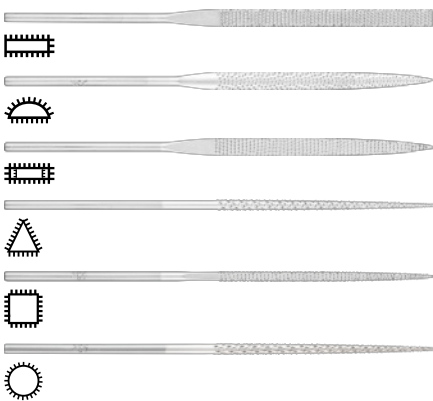
Half-round, curved file body with rasp cut on the half-round side. Strongly curved, half-round profile allows you to work on various radii. Suitable for reworking handrails, embellishments, carved woodwork, plastics and casting patterns.

**Special features:**

- Suitable for use on wood, soft stone, plastics and horn.

Profile	Length [mm]	Cut		Item no.	Designation	Price/unit EUR
3556	250	2	2	11302252	3556 250 H2	-

## Needle rasps



### Needle rasps

Needle rasps are excellent for working on hard-to-reach areas, e.g. ornaments, casting patterns, carved woodwork and sculptures.

**Special features:**

- Can be used with or without a file handle thanks to the forged shanks.
- Suitable for use on wood, soft stone, plastics and horn.

Profile	Length [mm]	Swiss cut	Tang ø [mm]		Item no.	Designation	Price/unit EUR
2501	140	2	3	12	12551142	2501 140 H2	-
2502	140	2	3	12	12552142	2502 140 H2	-
2506	140	2	3	12	12556142	2506 140 H2	-
2507	140	2	3	12	12557142	2507 140 H2	-
2508	140	2	3	12	12558142	2508 140 H2	-
2510	140	2	3	12	12559142	2510 140 H2	-

# Files and rasps for wood

## Needle rasp set



1



### Needle rasp set


Contains an application-oriented selection of needle rasps for work in hard-to-reach areas.

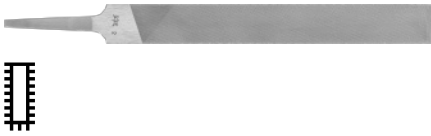
#### Contents:

The set contains six needle rasps. The set consists of one each of flat, hand, three square, square and half-round files.

#### Special features:

- Can be used with or without a file handle thanks to the forged shanks.
- Supplied in a clearly structured plastic pouch to protect against dirt and damage.
- Suitable for use on wood, soft stone, plastics and horn.

Profile	Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation	Price/unit EUR
2527	140	2	6	1	12799020	2527 140 H2	-



**Pottance files, hand**

Small and handy hand pottance files, cut on three sides, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.



**Special features:**

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
800	100	00	13	3	FH 2, FH 2-1	12	19300101	800 100 H00	-
		0	13	3	FH 2, FH 2-1	12	19300102	800 100 H0	-
		1	13	3	FH 2, FH 2-1	12	19300103	800 100 H1	-
		2	13	3	FH 2, FH 2-1	12	19300104	800 100 H2	-
		3	13	3	FH 2, FH 2-1	12	19300105	800 100 H3	-
		4	13	3	FH 2, FH 2-1	12	19300106	800 100 H4	-
	150	00	18	4	FH 3, FH 3-1	12	19300151	800 150 H00	-
		0	18	4	FH 3, FH 3-1	12	19300152	800 150 H0	-
		1	18	4	FH 3, FH 3-1	12	19300153	800 150 H1	-
		2	18	4	FH 3, FH 3-1	12	19300154	800 150 H2	-
		3	18	4	FH 3, FH 3-1	12	19300155	800 150 H3	-
		4	18	4	FH 3, FH 3-1	12	19300156	800 150 H4	-
	200	00	22	5	FH 4/1	12	19300201	800 200 H00	-
		0	22	5	FH 4/1	12	19300202	800 200 H0	-
		1	22	5	FH 4/1	12	19300203	800 200 H1	-
		2	22	5	FH 4/1	12	19300204	800 200 H2	-
		3	22	5	FH 4/1	12	19300205	800 200 H3	-
		4	22	5	FH 4/1	12	19300206	800 200 H4	-



**Pillar files, regular**

Small and handy pillar files, cut on two sides, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

**Special features:**

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
810	150	00	13	4	FH 3, FH 3-1	12	19302151	810 150 H00	-
		0	13	4	FH 3, FH 3-1	12	19302152	810 150 H0	-
		2	13	4	FH 3, FH 3-1	12	19302154	810 150 H2	-
	200	00	15	5	FH 4/1	12	19302201	810 200 H00	-
		0	15	5	FH 4/1	12	19302202	810 200 H0	-
		2	15	5	FH 4/1	12	19302204	810 200 H2	-
	250	00	18	6	FH 4/1	12	19302251	810 250 H00	-
		0	18	6	FH 4/1	12	19302252	810 250 H0	-
		2	18	6	FH 4/1	12	19302254	810 250 H2	-



### Pillar files, slim

Small and handy slim pillar files, cut on two sides, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

**Special features:**

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
815	150	00	8	3.5	FH 2, FH 2-1	12	19303151	815 150 H00	-
		0	8	3.5	FH 2, FH 2-1	12	19303152	815 150 H0	-
		2	8	3.5	FH 2, FH 2-1	12	19303154	815 150 H2	-
	200	00	10	4.5	FH 3, FH 3-1	12	19303201	815 200 H00	-
		0	10	4.5	FH 3, FH 3-1	12	19303202	815 200 H0	-
		2	10	4.5	FH 3, FH 3-1	12	19303204	815 200 H2	-
	250	0	12	5	FH 3, FH 3-1	12	19303252	815 250 H0	-
		2	12	5	FH 3, FH 3-1	12	19303254	815 250 H2	-



### Pillar files, extra slim

Small and handy very slim pillar files, cut on two sides, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

**Special features:**

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
820	150	00	6	3	FH 2, FH 2-1	12	19304151	820 150 H00	-
		0	6	3	FH 2, FH 2-1	12	19304152	820 150 H0	-
		2	6	3	FH 2, FH 2-1	12	19304154	820 150 H2	-
	200	00	8	3.5	FH 2, FH 2-1	12	19304201	820 200 H00	-
		0	8	3.5	FH 2, FH 2-1	12	19304202	820 200 H0	-
		2	8	3.5	FH 2, FH 2-1	12	19304204	820 200 H2	-



### Flat, thin

Small and handy rectangular files, tapered and cut on three sides, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

**Special features:**

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
830	150	0	16	2	FH 3, FH 3-1	12	19306152	830 150 H0	-
		2	16	2	FH 3, FH 3-1	12	19306154	830 150 H2	-



**Half-round**

Small and handy half-round files, cut on two sides, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.



**Special features:**

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR	
835	100	00	12	3.5	FH 2, FH 2-1	12	19307101	835 100 H00	-	
		0	12	3.5	FH 2, FH 2-1	12	19307102	835 100 H0	-	
		1	12	3.5	FH 2, FH 2-1	12	19307103	835 100 H1	-	
		2	12	3.5	FH 2, FH 2-1	12	19307104	835 100 H2	-	
		4	12	3.5	FH 2, FH 2-1	12	19307106	835 100 H4	-	
	150	00	16	4.5	FH 3, FH 3-1	12	19307151	835 150 H00	-	
		0	16	4.5	FH 3, FH 3-1	12	19307152	835 150 H0	-	
		1	16	4.5	FH 3, FH 3-1	12	19307153	835 150 H1	-	
		2	16	4.5	FH 3, FH 3-1	12	19307154	835 150 H2	-	
		3	16	4.5	FH 3, FH 3-1	12	19307155	835 150 H3	-	
	200	00	21	6	FH 4/1	12	19307201	835 200 H00	-	
		0	21	6	FH 4/1	12	19307202	835 200 H0	-	
		1	21	6	FH 4/1	12	19307203	835 200 H1	-	
		2	21	6	FH 4/1	12	19307204	835 200 H2	-	
		3	21	6	FH 4/1	12	19307205	835 200 H3	-	
	250	00	0	25	7	FH 4/1	12	19307251	835 250 H00	-
			0	25	7	FH 4/1	12	19307252	835 250 H0	-
			1	25	7	FH 4/1	12	19307253	835 250 H1	-



**Half-round, slim**

Small and handy slim, half-round files, cut on two sides, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

**Special features:**

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
840	150	00	12	3.5	FH 3, FH 3-1	12	19308151	840 150 H00	-
		0	12	3.5	FH 3, FH 3-1	12	19308152	840 150 H0	-
		1	12	3.5	FH 3, FH 3-1	12	19308153	840 150 H1	-
		2	12	3.5	FH 3, FH 3-1	12	19308154	840 150 H2	-




### Round

Small and handy round files with circumferential cut for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

#### Special features:

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Ø [mm]	Matching handle		Item no.	Designation	Price/unit EUR	
845	100	2	4	FH 2, FH 2-1	12	19309104	845 100 H2	-	
		0	6	FH 3, FH 3-1	12	19309152	845 150 H0	-	
	150	1	6	FH 3, FH 3-1	12	19309153	845 150 H1	-	
		2	6	FH 3, FH 3-1	12	19309154	845 150 H2	-	
		3	6	FH 3, FH 3-1	12	19309155	845 150 H3	-	
		200	1	8	FH 4	12	19309203	845 200 H1	-
			2	8	FH 4	12	19309204	845 200 H2	-



### Three square

Small and handy triangular files, tapered and cut on three sides, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

#### Special features:

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Matching handle		Item no.	Designation	Price/unit EUR
855	100	1	6	FH 2, FH 2-1	12	19311103	855 100 H1	-
		2	6	FH 2, FH 2-1	12	19311104	855 100 H2	-
	150	0	10	FH 3, FH 3-1	12	19311152	855 150 H0	-
		1	10	FH 3, FH 3-1	12	19311153	855 150 H1	-
		2	10	FH 3, FH 3-1	12	19311154	855 150 H2	-
	200	0	14	FH 4	12	19311202	855 200 H0	-
		1	14	FH 4	12	19311203	855 200 H1	-
		2	14	FH 4	12	19311204	855 200 H2	-
		3	14	FH 4	12	19311205	855 200 H3	-




### Square

Small and handy square files, tapered and cut on four sides, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

#### Special features:

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Matching handle		Item no.	Designation	Price/unit EUR
860	150	0	6	FH 3, FH 3-1	12	19312152	860 150 H0	-
		2	6	FH 3, FH 3-1	12	19312154	860 150 H2	-
	200	3	8	FH 4	12	19312205	860 200 H3	-




### Crossing oval

Small and handy crossing oval files for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

**Special features:**

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
865	150	2	16	4.5	FH 3, FH 3-1	12	19313154	865 150 H2	-




### Knives

Small and handy triangular files with knife profile, cut on two sides, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

**Special features:**

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
870	150	0	18	4	FH 3, FH 3-1	12	19314152	870 150 H0	-
		2	18	4	FH 3, FH 3-1	12	19314154	870 150 H2	-
	200	0	22	5	FH 4/1	12	19314202	870 200 H0	-
		2	22	5	FH 4/1	12	19314204	870 200 H2	-



### Barrette

Small and handy barette files, cut on one side, for use on delicate steel components up to 1,200 N/mm<sup>2</sup>. For all precision files, the cross section is measured at the uncut part of the file.

**Special features:**

- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

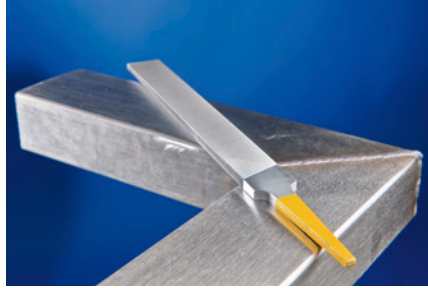
Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
875	150	0	16	4	FH 3, FH 3-1	12	19315152	875 150 H0	-
		2	16	4	FH 3, FH 3-1	12	19315154	875 150 H2	-
	200	0	21	5	FH 4/1	12	19315202	875 200 H0	-
		2	21	5	FH 4/1	12	19315204	875 200 H2	-

1




### Pottance files, hand

Hand pottance files, cut on three sides. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).



#### Special features:

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
COR 800	150	00	18	4	FH 3	12	19600151	COR 800 150 H00	-
		0	18	4	FH 3	12	19600152	COR 800 150 H0	-
	200	00	22	5	FH 4/1	12	19600201	COR 800 200 H00	-
		0	22	5	FH 4/1	12	19600202	COR 800 200 H0	-
		2	22	5	FH 4/1	12	19600204	COR 800 200 H2	-
	250	00	25	6	FH 4/1	12	19600251	COR 800 250 H00	-
		0	25	6	FH 4/1	12	19600252	COR 800 250 H0	-
		2	25	6	FH 4/1	12	19600254	COR 800 250 H2	-




### Pillar files, regular

Pillar files, cut on two sides. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).



#### Special features:

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
COR 810	150	00	13	4	FH 3	12	19602151	COR 810 150 H00	-
		0	13	4	FH 3	12	19602152	COR 810 150 H0	-
	200	00	15	5	FH 4/1	12	19602201	COR 810 200 H00	-
		0	15	5	FH 4/1	12	19602202	COR 810 200 H0	-
		2	15	5	FH 4/1	12	19602204	COR 810 200 H2	-






### Tang files, half-round

Half-round tang files, cut on two sides. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).

**Special features:**

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation	Price/unit EUR
COR 835	150	0	16	4.5	FH 3	12	19607152	COR 835 150 H0	-
		0	21	6	FH 4/1	12	19607202	COR 835 200 H0	-
	2	21	6	FH 4/1	12	19607204	COR 835 200 H2	-	




### Round

Round files with circumferential cut. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).

**Special features:**

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Ø [mm]	Matching handle		Item no.	Designation	Price/unit EUR
COR 845	200	0	8	FH 4	12	19609202	COR 845 200 H0	-
		2	8	FH 4	12	19609204	COR 845 200 H2	-




### Three square

Triangular files, tapered and cut on three sides. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).

**Special features:**

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Width [mm]	Matching handle		Item no.	Designation	Price/unit EUR
COR 855	200	0	14	FH 4	12	19611202	COR 855 200 H0	-
		2	14	FH 4	12	19611204	COR 855 200 H2	-




### Square

Square files, tapered and cut on four sides. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).

**Special features:**

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Width [mm]	Matching handle		Item no.	Designation	Price/unit EUR
COR 860	150	0	6	FH 3	12	19612152	COR 860 150 H0	-
		2	6	FH 3	12	19612154	COR 860 150 H2	-

1




### Flat

Rectangular files, tapered and cut on four sides. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.



#### Special features:

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang $\varnothing$ [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
COR 2306	180	0	3.5	6	1.5	12	12471182	COR 2306 180 H0	-
		2	3.5	6	1.5	12	12471184	COR 2306 180 H2	-




### Hand

Hand files, cut on three sides. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.

#### Special features:

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).

- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang $\varnothing$ [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
COR 2301	180	0	3.5	6	1.5	12	12472182	COR 2301 180 H0	-
		2	3.5	6	1.5	12	12472184	COR 2301 180 H2	-




### Three square

Triangular files, tapered and cut on three sides. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.

#### Special features:

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).

- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang $\varnothing$ [mm]	$\varnothing$ [mm]		Item no.	Designation	Price/unit EUR
COR 2307	180	0	3.5	4.1	12	12474182	COR 2307 180 H0	-
		2	3.5	4.1	12	12474184	COR 2307 180 H2	-



### Square

Square files, tapered and cut on four sides. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.

**Special features:**

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).

- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	ø [mm]		Item no.	Designation	Price/unit EUR
COR 2308	180	0	3.5	2.7	12	12475182	COR 2308 180 H0	-
		2	3.5	2.7	12	12475184	COR 2308 180 H2	-



### Round

Round files with circumferential cut. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.



**Special features:**

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	ø [mm]		Item no.	Designation	Price/unit EUR
COR 2310	180	0	3.5	3.5	12	12476182	COR 2310 180 H0	-
		2	3.5	3.5	12	12476184	COR 2310 180 H2	-



### Half-round

Half-round files, cut on two sides. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.



**Special features:**

- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
COR 2302	180	0	3.5	6	2	12	12478182	COR 2302 180 H0	-
		2	3.5	6	2	12	12478184	COR 2302 180 H2	-



### Flat




The rectangular, tapered files, cut on four sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

#### 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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
<b>Flat</b>									
2406	140	0	3	5.1	1.3	12	12505061	2406 140 H0	-
		1	3	5.1	1.3	12	12505062	2406 140 H1	-
		2	3	5.1	1.3	12	12505063	2406 140 H2	-
	160	0	3.25	5.5	1.4	12	12505081	2406 160 H0	-
		1	3.25	5.5	1.4	12	12505082	2406 160 H1	-
		2	3.25	5.5	1.4	12	12505083	2406 160 H2	-
		3	3.25	5.5	1.4	12	12505084	2406 160 H3	-
	180	00	3.5	6	1.5	12	12505091	2406 180 H00	-
		0	3.5	6	1.5	12	12505092	2406 180 H0	-
		2	3.5	6	1.5	12	12505094	2406 180 H2	-



### Hand




The rectangular files, cut on four sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

#### 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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
<b>Hand</b>									
2401	140	0	3	5.1	1.3	12	12501061	2401 140 H0	-
		1	3	5.1	1.3	12	12501062	2401 140 H1	-
		2	3	5.1	1.3	12	12501063	2401 140 H2	-
		3	3	5.1	1.3	12	12501064	2401 140 H3	-
	160	0	3.25	5.5	1.4	12	12501081	2401 160 H0	-
		1	3.25	5.5	1.4	12	12501082	2401 160 H1	-
		2	3.25	5.5	1.4	12	12501083	2401 160 H2	-
		3	3.25	5.5	1.4	12	12501084	2401 160 H3	-
	180	00	3.5	6	1.5	12	12501091	2401 180 H00	-
		0	3.5	6	1.5	12	12501092	2401 180 H0	-
		1	3.5	6	1.5	12	12501093	2401 180 H1	-
		2	3.5	6	1.5	12	12501094	2401 180 H2	-
	200	00	3.75	6.4	1.6	12	12501101	2401 200 H00	-
		0	3.75	6.4	1.6	12	12501102	2401 200 H0	-
		1	3.75	6.4	1.6	12	12501103	2401 200 H1	-
		2	3.75	6.4	1.6	12	12501104	2401 200 H2	-




### Crossing oval

The crossing oval files, cut on two sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

**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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
<b>Crossing oval shape</b>									
2403	140	0	3	4.5	1.8	12	12504061	2403 140 H0	-
		1	3	4.5	1.8	12	12504062	2403 140 H1	-
		2	3	4.5	1.8	12	12504063	2403 140 H2	-
	160	0	3.25	5.2	2.3	12	12504081	2403 160 H0	-
		1	3.25	5.2	2.3	12	12504082	2403 160 H1	-
		2	3.25	5.2	2.3	12	12504083	2403 160 H2	-
		3	3.25	5.2	2.3	12	12504084	2403 160 H3	-
	180	0	3.5	5.7	2.5	12	12504092	2403 180 H0	-
		1	3.5	5.7	2.5	12	12504094	2403 180 H1	-
2		3.5	5.7	2.5	12	12504093	2403 180 H2	-	
2409	180	0	3.5	4	2.9	12	12510092	2409 180 H0	-




### Three square

Triangular, tapered files, cut on three sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

**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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]		Item no.	Designation	Price/unit EUR
<b>Three square</b>								
2407	140	0	3	3.5	12	12508061	2407 140 H0	-
		1	3	3.5	12	12508062	2407 140 H1	-
		2	3	3.5	12	12508063	2407 140 H2	-
		3	3	3.5	12	12508064	2407 140 H3	-
	160	0	3.25	3.7	12	12508081	2407 160 H0	-
		1	3.25	3.7	12	12508082	2407 160 H1	-
		2	3.25	3.7	12	12508083	2407 160 H2	-
		3	3.25	3.7	12	12508084	2407 160 H3	-
	180	00	3.5	4.1	12	12508091	2407 180 H00	-
		0	3.5	4.1	12	12508092	2407 180 H0	-
		2	3.5	4.1	12	12508093	2407 180 H2	-
		3	3.5	4.1	12	12508094	2407 180 H3	-
	200	00	3.75	4.4	12	12508101	2407 200 H00	-
		0	3.75	4.4	12	12508102	2407 200 H0	-
		2	3.75	4.4	12	12508103	2407 200 H2	-
		3	3.75	4.4	12	12508104	2407 200 H3	-




### Square

Square, tapered files, cut on four sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

**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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]		Item no.	Designation	Price/unit EUR
<b>Square</b>								
2408	140	0	3	2.4	12	12511061	2408 140 H0	-
		1	3	2.4	12	12511062	2408 140 H1	-
		2	3	2.4	12	12511063	2408 140 H2	-
		3	3	2.4	12	12511064	2408 140 H3	-
	160	0	3.25	2.5	12	12511081	2408 160 H0	-
		1	3.25	2.5	12	12511082	2408 160 H1	-
		2	3.25	2.5	12	12511083	2408 160 H2	-
		3	3.25	2.5	12	12511084	2408 160 H3	-
	180	00	3.5	2.7	12	12511091	2408 180 H00	-
		0	3.5	2.7	12	12511092	2408 180 H0	-
		2	3.5	2.7	12	12511093	2408 180 H2	-
	200	00	3.75	3	12	12511101	2408 200 H00	-
0		3.75	3	12	12511102	2408 200 H0	-	
2		3.75	3	12	12511103	2408 200 H2	-	




### Knives

Triangular files with knife profile, cut on two sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

**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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
<b>Knife shape</b>									
2405	140	0	3	5.5	1.5	12	12506061	2405 140 H0	-
		1	3	5.5	1.5	12	12506062	2405 140 H1	-
		2	3	5.5	1.5	12	12506063	2405 140 H2	-
	160	0	3.25	5.8	1.7	12	12506081	2405 160 H0	-
		1	3.25	5.8	1.7	12	12506082	2405 160 H1	-
		2	3.25	5.8	1.7	12	12506083	2405 160 H2	-
	180	00	3.5	6.2	1.8	12	12506091	2405 180 H00	-
		0	3.5	6.2	1.8	12	12506092	2405 180 H0	-
		2	3.5	6.2	1.8	12	12506093	2405 180 H2	-




**Round**

Round files with circumferential cut are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.



**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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]		Item no.	Designation	Price/unit EUR
<b>Round</b>								
2410	140	0	3	3	12	12512061	2410 140 H0	-
		1	3	3	12	12512062	2410 140 H1	-
		2	3	3	12	12512063	2410 140 H2	-
		4	3	3	12	12512064	2410 140 H4	-
	160	0	3.25	3.25	12	12512081	2410 160 H0	-
		1	3.25	3.25	12	12512082	2410 160 H1	-
		2	3.25	3.25	12	12512083	2410 160 H2	-
		4	3.25	3.25	12	12512084	2410 160 H4	-
	180	00	3.5	3.5	12	12512090	2410 180 H00	-
		0	3.5	3.5	12	12512091	2410 180 H0	-
		1	3.5	3.5	12	12512092	2410 180 H1	-
		2	3.5	3.5	12	12512093	2410 180 H2	-
		3	3.5	3.5	12	12512094	2410 180 H3	-
	200	00	3.75	3.75	12	12512100	2410 200 H00	-
		0	3.75	3.75	12	12512101	2410 200 H0	-
		1	3.75	3.75	12	12512102	2410 200 H1	-
		2	3.75	3.75	12	12512103	2410 200 H2	-
		3	3.75	3.75	12	12512104	2410 200 H3	-




**Half-round**


Half-round files, cut on two sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

**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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
<b>Half-round</b>									
2402	140	0	3	5	1.7	12	12509061	2402 140 H0	-
		1	3	5	1.7	12	12509062	2402 140 H1	-
		2	3	5	1.7	12	12509063	2402 140 H2	-
		3	3	5	1.7	12	12509064	2402 140 H3	-
	160	0	3.25	5.7	1.8	12	12509081	2402 160 H0	-
		1	3.25	5.7	1.8	12	12509082	2402 160 H1	-
		2	3.25	5.7	1.8	12	12509083	2402 160 H2	-
		3	3.25	5.7	1.8	12	12509084	2402 160 H3	-
	180	00	3.5	6	2	12	12509091	2402 180 H00	-

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Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
2402	180	0	3.5	6	2	12	12509092	2402 180 H0	-
		2	3.5	6	2	12	12509093	2402 180 H2	-
		3	3.5	6	2	12	12509094	2402 180 H3	-
	200	00	3.75	6.4	1.8	12	12509101	2402 200 H00	-
		0	3.75	6.4	1.8	12	12509102	2402 200 H0	-
		2	3.75	6.4	1.8	12	12509103	2402 200 H2	-
		3	3.75	6.4	1.8	12	12509104	2402 200 H3	-




### Barrette

Barrette files, cut on one side, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

#### 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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
<b>Barrette shape</b>									
2411	140	0	3	5	2.1	12	12503061	2411 140 H0	-
		1	3	5	2.1	12	12503062	2411 140 H1	-
		2	3	5	2.1	12	12503063	2411 140 H2	-
	160	0	3.25	5.3	2.1	12	12503081	2411 160 H0	-
		1	3.25	5.3	2.1	12	12503082	2411 160 H1	-
		2	3.25	5.3	2.1	12	12503083	2411 160 H2	-
	180	3	3.25	5.3	2.1	12	12503084	2411 160 H3	-
		0	3.5	5.6	2.3	12	12503092	2411 180 H0	-
		1	3.5	5.6	2.3	12	12503093	2411 180 H1	-
		2	3.5	5.6	2.3	12	12503094	2411 180 H2	-




### Flat with round edges

The tapered files with round edges and circumferential cut are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

#### 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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
<b>Flat with round edges</b>									
2415	160	2	3.25	5.5	1.4	12	12515083	2415 160 H2	-
	180	0	3.5	6	1.5	12	12515092	2415 180 H0	-





### Hand with round edges



The files with round edges and circumferential cut are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

**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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
<b>Hand with round edges</b>									
2416	140	1	3	5.1	1.3	12	12502062	2416 140 H1	-
	160	0	3.25	5.5	1.4	12	12502081	2416 160 H0	-
		1	3.25	5.5	1.4	12	12502082	2416 160 H1	-
		2	3.25	5.5	1.4	12	12502083	2416 160 H2	-
	180	0	3.5	6	1.5	12	12502092	2416 180 H0	-



### Crossing oval round oval



The round-oval crossing oval files, cut on two sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

**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/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
<b>Crossing oval round oval</b>									
2409	160	2	3.25	3.8	2.5	12	12510083	2409 160 H2	-

## Needle file sets



266



NFB

### 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.

Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation	Price/unit EUR
140	1	12	1	12703062	266/14 P 140 H1	-
160	1	12	1	12704082	266/16 P 160 H1	-
180	0	12	1	12705092	266/18 P 180 H0	-
200	0	12	1	12706102	266/20 P 200 H0	-
140	1	12	1	12712003	NFB 2492 140 H1	-
	2	12	1	12712004	NFB 2492 140 H2	-
160	1	12	1	12799009	NFB 2493 160 H1	-
	2	12	1	12799010	NFB 2493 160 H2	-

# Precision files

## Needle file sets



1



### Needle file handle set


Contains an application-oriented selection of PFERD needle files.

#### Contents:

The set contains six needle files. The set comprises one each of the following needle files: flat (101), hand (102), three square (104), half-round (108), square (105), round (106).

#### Special features:

- Supplied in a handy box to protect against dirt and damage.

Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation	Price/unit EUR
160	1	6	1	11260162	PF 263 160 H1	-

## Handy files




### Hand

Rectangular precision files similar to needle files, cut on three sides, in a slim, fine design. Suitable for work on the smallest areas of metals and plastics that are hard to reach, e.g. in tool and mould-making for reworking jobs.

#### Special features:

- The sturdy design enables a higher operating pressure.
- Can be used without a file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup> and plastics.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
2601	215	00	10.3	2.8	12	12463011	2601 215 H00	-
		1	10.3	2.8	12	12463013	2601 215 H1	-




### Three square

Triangular, highly tapered precision files similar to needle files, cut on three sides, in a slim, fine design. Suitable for work on the smallest areas of metals and plastics that are hard to reach, e.g. in tool and mould-making for reworking jobs.

#### Special features:

- The sturdy design enables a higher operating pressure.
- Can be used without a file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup> and plastics.

Profile	Length [mm]	Swiss cut	Width [mm]		Item no.	Designation	Price/unit EUR
2607	215	00	10	12	12463021	2607 215 H00	-
		1	10	12	12463023	2607 215 H1	-



**Square**

Square, highly tapered precision files similar to needle files, cut on four sides, in a slim, fine design. Suitable for work on the smallest areas of metals and plastics that are hard to reach, e.g. in tool and mould-making for reworking jobs.

**Special features:**

- The sturdy design enables a higher operating pressure.
- Can be used without a file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup> and plastics.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
2608	215	00	6	6	12	12463031	2608 215 H00	-
		1	6	6	12	12463033	2608 215 H1	-



**Half-round**

Half-round, highly tapered precision files similar to needle files, cut on two sides, in a slim, fine design. Suitable for work on the smallest areas of metals and plastics that are hard to reach, e.g. in tool and mould-making for reworking jobs.

**Special features:**

- The sturdy design enables a higher operating pressure.
- Can be used without a file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup> and plastics.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
2602	215	00	12.8	3.7	12	12463051	2602 215 H00	-
		1	12.8	3.7	12	12463053	2602 215 H1	-

**Handy file sets**



**Handy file sets**

Contain an application-oriented selection of handy files for work on the smallest areas that are hard to reach.

**Contents:**

The set contains five handy files. The set comprises one each of the following handy files: hand (2601), three square (2607), square (2608), round (2610), half-round (2602).

**Special features:**

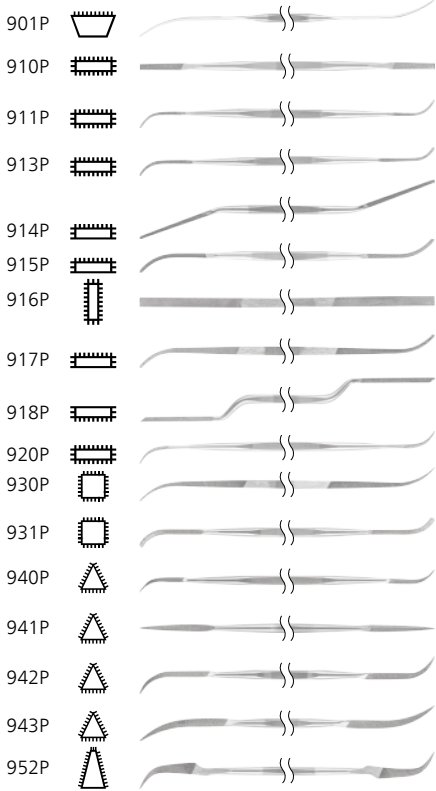
- Supplied in a plastic pouch to protect against dirt, corrosion and damage.

Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation	Price/unit EUR
215	00	5	1	12732001	2627 215 mm H00	-
	1	5	1	12732003	2627 215 mm H1	-

# Precision files

## Riffler files, riffler rasps

1



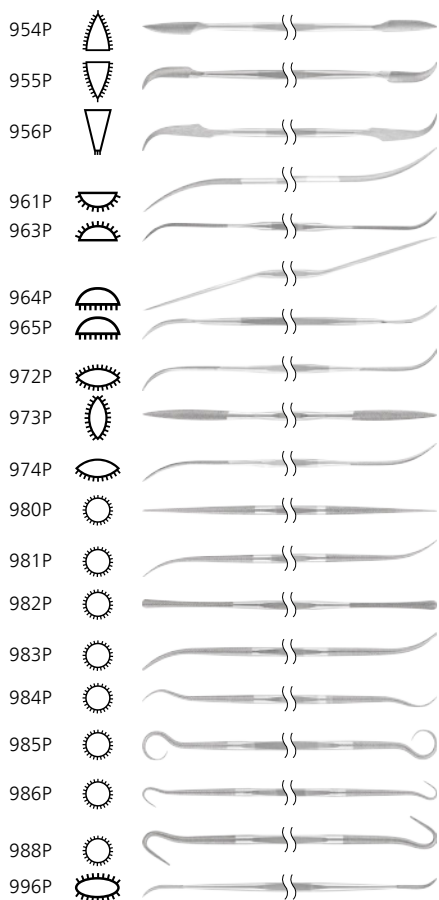
### Riffler files series 901P–952P

Riffler files in length 150 mm (smallest version).

#### Special features:

- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Suitable arbors		Item no.	Designation	Price/unit EUR
901P	150	2	4	1.3	RFH 150	12	12409012	901P 150 H2	-
910P	150	4	2.3	1.2	RFH 150	12	12409104	910P 150 H4	-
911P	150	2	2.3	1.2	RFH 150	12	12409112	911P 150 H2	-
913P	150	2	2.7	1.5	RFH 150	12	12409132	913P 150 H2	-
914P	150	2	3.5	1.5	RFH 150	12	12409142	914P 150 H2	-
915P	150	2	3.5	1.5	RFH 150	12	12409152	915P 150 H2	-
916P	150	2	3.2	1.5	RFH 150	12	12409162	916P 150 H2	-
917P	150	2	3.2	1.5	RFH 150	12	12409172	917P 150 H2	-
918P	150	2	3.8	1.7	RFH 150	12	12409182	918P 150 H2	-
920P	150	2	4.9	1.5	RFH 150	12	12409202	920P 150 H2	-
930P	150	2	3.2	3.2	RFH 150	12	12409302	930P 150 H2	-
931P	150	2	1.7	1.7	RFH 150	12	12409312	931P 150 H2	-
940P	150	2	1.7	-	RFH 150	12	12409402	940P 150 H2	-
941P	150	2	2.2	-	RFH 150	12	12409412	941P 150 H2	-
942P	150	2	2.6	-	RFH 150	12	12409422	942P 150 H2	-
		4	2.6	-	RFH 150	12	12409424	942P 150 H4	-
943P	150	2	3	-	RFH 150	12	12409432	943P 150 H2	-
		4	3	-	RFH 150	12	12409434	943P 150 H4	-
952P	150	2	1.4	4.2	RFH 150	12	12409522	952P 150 H2	-
		4	1.4	4.2	RFH 150	12	12409524	952P 150 H4	-




## Riffler files series 954P–996P

Riffler files in length 150 mm (smallest version).

### Special features:

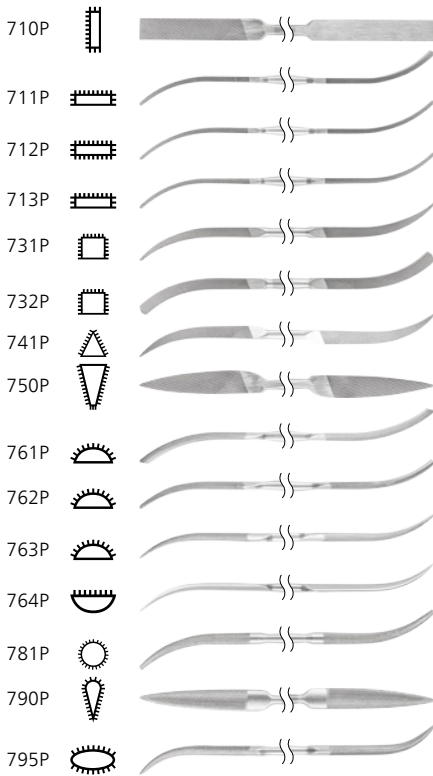
- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Suitable arbors		Item no.	Designation	Price/unit EUR
954P	150	2	1.5	4	RFH 150	12	12409542	954P 150 H2	-
955P	150	4	1.5	4	RFH 150	12	12409554	955P 150 H4	-
956P	150	2	1.6	4.1	RFH 150	12	12409562	956P 150 H2	-
961P	150	2	4.1	2.4	RFH 150	12	12409612	961P 150 H2	-
963P	150	2	4.6	1.3	RFH 150	12	12409632	963P 150 H2	-
964P	150	2	4.5	1.4	RFH 150	12	12409642	964P 150 H2	-
965P	150	2	5.2	1.5	RFH 150	12	12409652	965P 150 H2	-
972P	150	2	3.6	2.1	RFH 150	12	12409722	972P 150 H2	-
973P	150	2	3.6	2.1	RFH 150	12	12409732	973P 150 H2	-
974P	150	2	3.6	2.1	RFH 150	12	12409742	974P 150 H2	-
980P	150	2	3.5	-	RFH 150	12	12409802	980P 150 H2	-
981P	150	2	3.5	-	RFH 150	12	12409812	981P 150 H2	-
		4	3.5	-	RFH 150	12	12409814	981P 150 H4	-
982P	150	2	3	-	RFH 150	12	12409822	982P 150 H2	-
983P	150	2	3.2	-	RFH 150	12	12409832	983P 150 H2	-
984P	150	2	3.2	-	RFH 150	12	12409842	984P 150 H2	-
985P	150	2	3.2	-	RFH 150	12	12409852	985P 150 H2	-
		4	3.2	-	RFH 150	12	12409854	985P 150 H4	-
986P	150	2	2.6	-	RFH 150	12	12409862	986P 150 H2	-
988P	150	2	3.2	-	RFH 150	12	12409882	988P 150 H2	-
996P	150	2	2.2	1.4	RFH 150	12	12409962	996P 150 H2	-

# Precision files

## Riffler files, riffler rasps

1




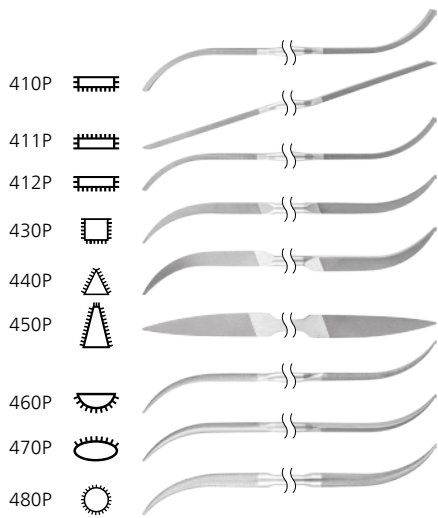
### Riffler files series 710P–795P

Riffler files in length 180 mm (medium version).

#### Special features:

- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Suitable arbors		Item no.	Designation	Price/unit EUR
710P	180	0	8.5	2.5	RFH 180	12	12407100	710P 180 H0	-
		2	8.5	2.5	RFH 180	12	12407102	710P 180 H2	-
711P	180	0	8.5	2.5	RFH 180	12	12407110	711P 180 H0	-
		2	8.5	2.5	RFH 180	12	12407112	711P 180 H2	-
712P	180	0	8.2	2.5	RFH 180	12	12407120	712P 180 H0	-
		2	8.2	2.5	RFH 180	12	12407122	712P 180 H2	-
713P	180	0	8.2	2.5	RFH 180	12	12407130	713P 180 H0	-
		2	8.2	2.5	RFH 180	12	12407132	713P 180 H2	-
731P	180	0	4.5	4.5	RFH 180	12	12407310	731P 180 H0	-
		2	4.5	4.5	RFH 180	12	12407312	731P 180 H2	-
732P	180	0	4.5	4.5	RFH 180	12	12407320	732P 180 H0	-
		2	4.5	4.5	RFH 180	12	12407322	732P 180 H2	-
741P	180	0	6.5	-	RFH 180	12	12407410	741P 180 H0	-
		2	6.5	-	RFH 180	12	12407412	741P 180 H2	-
750P	180	0	9.5	2.5	RFH 180	12	12407500	750P 180 H0	-
		2	9.5	2.5	RFH 180	12	12407502	750P 180 H2	-
761P	180	0	9.2	3.2	RFH 180	12	12407610	761P 180 H0	-
		2	9.2	3.2	RFH 180	12	12407612	761P 180 H2	-
762P	180	2	9.3	3.2	RFH 180	12	12407622	762P 180 H2	-
763P	180	0	9.5	3.3	RFH 180	12	12407630	763P 180 H0	-
		2	9.5	3.3	RFH 180	12	12407632	763P 180 H2	-
764P	180	2	9.5	3.3	RFH 180	12	12407642	764P 180 H2	-
781P	180	0	5	-	RFH 180	12	12407810	781P 180 H0	-
		2	5	-	RFH 180	12	12407812	781P 180 H2	-
790P	180	2	8.5	4	RFH 180	12	12407902	790P 180 H2	-
795P	180	2	8	4.3	RFH 180	12	12407952	795P 180 H2	-




### Riffler files series 410P–480P

Riffler files in length 300 mm (longest version).

**Special features:**

- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]		Item no.	Designation	Price/unit EUR
410P	300	0	15	4	6	12404100	410P 300 H0	-
		2	15	4	6	12404102	410P 300 H2	-
411P	300	0	15	4.4	6	12404110	411P 300 H0	-
		2	15	4.4	6	12404112	411P 300 H2	-
412P	300	0	15	4.4	6	12404120	412P 300 H0	-
430P	300	0	8	8	6	12404300	430P 300 H0	-
		2	8	8	6	12404302	430P 300 H2	-
440P	300	0	12	12	6	12404400	440P 300 H0	-
		2	12	12	6	12404402	440P 300 H2	-
450P	300	0	15	12	6	12404500	450P 300 H0	-
460P	300	0	15	6	6	12404600	460P 300 H0	-
470P	300	0	14	7	6	12404700	470P 300 H0	-
780P	300	0	10	-	6	12404800	480P 300 H0	-
480P	300	2	10	-	6	12404802	480P 300 H2	-




### Riffler file set PF 900

Contains an application-oriented selection of riffler files. Matching arbor = RFH 150.

**Special features:**

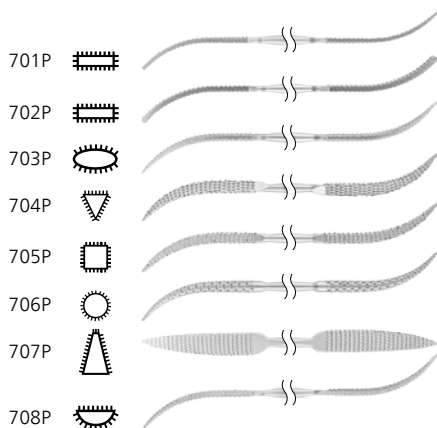
- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation	Price/unit EUR
PF 900	150	2	4	1	11261900	PF 900	-

# Precision files

## Riffler files, riffler rasps

1




### Riffler rasp series 701P–708P

190 mm long riffler rasps with precise Swiss rasp cut.

#### Special features:

- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup>.

Profile	Length [mm]	Swiss rasp cut	Width [mm]	Height [mm]	Suitable arbors		Item no.	Designation	Price/unit EUR
701P	190	0	8.2	3.3	RFH 180	12	12457190	701P 190 H0	-
702P	190	0	8.1	3.5	RFH 180	12	12457290	702P 190 H0	-
703P	190	0	7.6	4.4	RFH 180	12	12457390	703P 190 H0	-
704P	190	0	6.4	-	RFH 180	12	12457490	704P 190 H0	-
705P	190	0	4.9	-	RFH 180	12	12457590	705P 190 H0	-
706P	190	0	5.5	-	RFH 180	12	12457690	706P 190 H0	-
707P	190	0	9.2	3.6	RFH 180	12	12457790	707P 190 H0	-
708P	190	0	9.3	3.8	RFH 180	12	12457890	708P 190 H0	-




### Riffler rasp set 720P

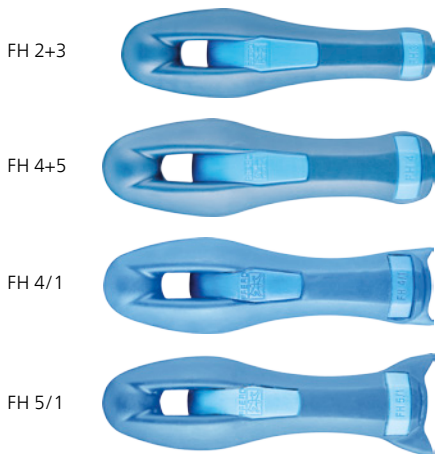
Contains an application-oriented selection of riffler rasps. Matching arbor = RFH 180.

#### Special features:

- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm<sup>2</sup>.

Profile	Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation	Price/unit EUR
720P	190	0	8	1	12707202	720P	-






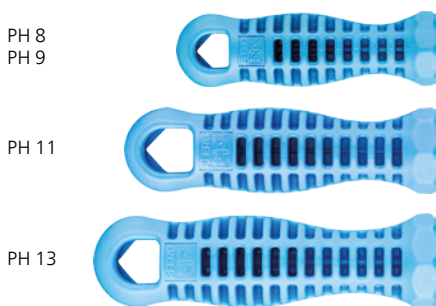
### Ergonomic file handles

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.

Suitable for file length [mm]	Total length [mm]	Suitable for		Item no.	Designation	Price/unit EUR
100, 125, 150	110	Key files	10	12617120	FH 2-10	-
			100	12617220	FH 2-100	-
		all tangs	10	12617130	FH 3-10	-
			100	12617230	FH 3-100	-
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	-
			100	12617240	FH 4-100	-
		Profiles hand, flat, half-round	10	12617141	FH 4/1-10	-
			100	12617241	FH 4/1-100	-
300, 350	115	Profiles three square, square, round, special shapes	10	12617150	FH 5-10	-
			100	12617250	FH 5-100	-
		Profiles hand, flat, half-round	10	12617151	FH 5/1-10	-
			100	12617251	FH 5/1-100	-




### Plastic file handles

Stable plastic file handles for good guidance and power transmission.

**Special features:**

- Wide collar guarantees work with low levels of fatigue and increases safety.
- Good power transmission and control of the file.
- Air chambers help absorb hand moisture.

Suitable for file length [mm]	Total length [mm]	Suitable for		Item no.	Designation	Price/unit EUR
100, 125, 150	90	Key files	10	12616108	PH 08/10	-
			100	12616208	PH 08/100	-
		all tangs	10	12616109	PH 09/10	-
			100	12616209	PH 09/100	-
200, 250	110	all tangs	10	12616111	PH 11/10	-
			100	12616211	PH 11/100	-
300, 350	120	all tangs	10	12616113	PH 13/10	-
			100	12616213	PH 13/100	-

# File handles, file sleeves, file brush

## Quick-mounting handles



1




### 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	Price/unit EUR
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.



Suitable for tang diameter [mm]	Total length [mm]		Item no.	Designation	Price/unit EUR
3,0 / 3,25 / 3,5 / 3,75	100	10	12299004	NFH 211-3 K	-
	92	10	12299010	NFH 212	-

## Riffler file holder




### Riffler file holder

Riffler file holder without plasticizer for files in 150 and 180 mm lengths.

**Special features:**

- Safe and optimum file control.
- One of the file points is always covered safely by the file handle.
- Quick and easy tool changes.

Suitable for file length [mm]		Item no.	Designation	Price/unit EUR
150	10	12602172	RFH 150	-
180	10	12604224	RFH 180	-

## Empty plastic sleeves




### Empty plastic sleeves

Plastic sleeves for storing individual files without a handle.

**Special features:**

- Enables the file to be hung up by the eyelet.
- Protects against damage, dirt and corrosion.

Suitable for file length [mm]		Item no.	Designation	Price/unit EUR
150	25	12621150	KH 150	-
200	25	12622200	KH 200	-
250	25	12623250	KH 250	-
300	25	12624300	KH 300	-




## 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.

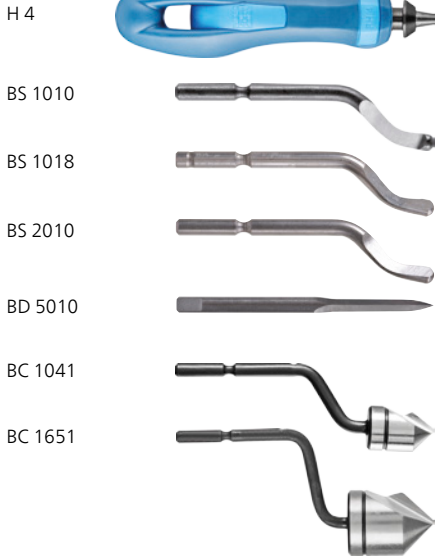
Length [mm]		Item no.	Designation	Price/unit EUR
232	5	12601000	HBF 10 ST 0,15	-

# Hand deburrer

## Hand deburrer



1




### Hand deburrer

Easy change blades and countersinks for efficient deburring, chamfering and reworking of different materials and contours. Hard-to-reach areas, bores, inner and outer diameters, thread and grooves can be worked on effortlessly by hand.



#### Special features:

- Easy to control and use with the special holder.
- The pivot-mounted adapter system makes handling and changing the deburrer very easy.
- Ergonomic file handle protects hands against sharp edges and prevents the tool from rolling away.

∅ [mm]	Use for	Countersink dia. [mm]		Item no.	Designation	Price/unit EUR
<b>Holder for hand deburrer</b>						
-	all types	-	1	12605005	H 4	-
<b>Deburring blades</b>						
3	Steel, aluminium	-	10	14300010	BS 1010	-
	Plastics, other soft materials	-	10	14300020	BS 1018	-
	Non-ferrous metals, cast iron	-	10	14300030	BS 2010	-
<b>Mini blade</b>						
3	general use	-	1	14300040	BD 5010	-
<b>Deburring countersink</b>						
3	general use	10.4	1	14300050	BC 1041	-
		16.5	1	14300060	BC 1651	-