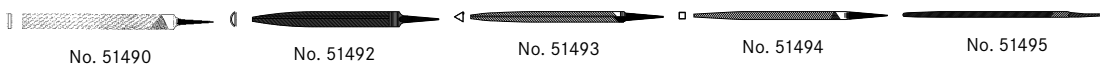


# ORION® Flat hand engineer's files

DIN 7261 A/E/C/D/F

## Application:

For manual material removal with steel materials.



File cut						1	2	3
	Form	File blade length (mm)	Width (mm)	Thickness (mm)	Ident. No.			
51490...	Equalling	100	12.0	3.0	Ident. No.	110	210	310
51490...	Equalling	150	16.0	4.0	Ident. No.	115	215	315
51490...	Equalling	200	20.0	5.0	Ident. No.	120	220	320
51490...	Equalling	250	25.0	6.3	Ident. No.	125	225	325
51490...	Equalling	300	30.0	7.0	Ident. No.	130	230	330
51490...	Equalling	350	35.0	7.5	Ident. No.	135	235	335
51490...	Equalling	400	39.0	9.0	Ident. No.	140	-	-
51492...	Half-round	100	11.0	4.0	Ident. No.	110	-	310
51492...	Half-round	150	16.0	5.0	Ident. No.	115	215	315
51492...	Half-round	200	21.0	6.0	Ident. No.	120	220	320
51492...	Half-round	250	25.0	7.0	Ident. No.	125	225	325
51492...	Half-round	300	30.0	9.0	Ident. No.	130	230	330
51493...	Triangle	150	12.0		Ident. No.	115	215	315
51493...	Triangle	200	15.0		Ident. No.	120	220	320
51493...	Triangle	250	18.0		Ident. No.	125	225	325
51493...	Triangle	300	21.0		Ident. No.	130	230	-
51493...	Triangle	100	8.7		Ident. No.	-	-	310
51494...	Square-cut	100	4.0		Ident. No.	110	-	-
51494...	Square-cut	150	6.3		Ident. No.	115	215	315
51494...	Square-cut	200	8.0		Ident. No.	120	220	320
51494...	Square-cut	250	10.0		Ident. No.	125	225	325
51494...	Square-cut	300	12.5		Ident. No.	130	230	-
51495...	Round	100		4	Ident. No.	110	210	310
51495...	Round	150		6.3	Ident. No.	115	215	315
51495...	Round	200		7.1	Ident. No.	120	220	320
51495...	Round	250		9.2	Ident. No.	125	225	325
51495...	Round	300		12.5	Ident. No.	130	230	-

Prod. Gr. 6AF

## ORION® File brush

For cleaning

## Execution:

- File brush band, stuck on
- Brush strip size: 115 x 40 mm

## Technical data:

- Length: 250 mm

56720... | Ident. No. 500

Prod. Gr. 598



## DICK File and rasp sets

### Application:

For general and rough filing work on steel, iron and non-ferrous metals in industry, skilled trades and hobby use.

### Execution:

- **Ident. No. 002:** Cut 2, shapes: flat blunt-ended, half-round, round, triangular, square, with beech handle.
- **Ident. No. 010:** Cut 1, shapes: flat blunt-ended, half-round, round, with plastic handle.

- **Ident. No. 020:** Cut 2, shapes: flat blunt-ended, half-round, round, triangular, square, with plastic handle.

### Delivery:

**Ident. No. 002:** 1 x flat blunt-ended, half-round, round, triangular and square flat hand engineer's file with beech handle, in robust textile tool roll

**Ident. No. 010:** 1 x flat blunt-ended, half-round and round flat hand engineer's file, with plastic handle, in plastic pouch

**Ident. No. 020:** 1 x flat blunt-ended, half-round, round, triangular and square flat hand engineer's file, with plastic handle, in plastic pouch



Ident. No. 010



Ident. No. 020

File blade length (mm)		200	250	200
File cut		2	1	2
Material of the grip handle		Beechwood	Plastic	Plastic
Number of pieces in assortment/set (PCS)		5	3	5
<b>51507...</b>	Ident. No.	<b>002</b>	<b>010</b>	<b>020</b>

Prod. Gr. 6AD

## DICK File and rasp sets

### Application:

For general and rough filing and rasping work on steel, iron and non-ferrous metals in industry, skilled trades and hobby use.

### Execution:

- **Ident. No. 002:** Cut 2, shapes: flat blunt-ended, half-round, triangular, round, half-round rasp with beech handle.
- **Ident. No. 005:** Cut 2, shapes: flat blunt-ended, half-round, triangular, round, half-round rasp, with plastic handle.

### Delivery:

**Ident. No. 002:** 1 x flat blunt-ended, half-round, triangular, round flat hand engineer's file, half-round rasp, with beech handle, in robust textile tool roll

**Ident. No. 005:** 1 x flat blunt-ended, half-round, triangular, round flat hand engineer's file, half-round rasp, with plastic handle, in plastic pouch

### Technical data:

- File blade length: 200 mm
- File cut: 2
- Number of pieces in assortment/set: 5 PCS



Ident. No. 002

Material of the grip handle		Beechwood	Plastic
<b>51508...</b>	Ident. No.	<b>002</b>	<b>005</b>

Prod. Gr. 6AD

## DICK Flat universal file

### Application:

For rough and fine manual material removal on all materials.

### Execution:

- Rough face for preliminary filing, when removing particularly large amounts of metal

- Fine face for retouching work, for fine machining of surfaces

### Advantage:

- Ideal for universal use due to two different flat faces
- With special cut designed for cast iron, steel (also stainless steel), non-ferrous metals and soft metals, plastics and wood



File blade length (mm)		200	250
Width (mm)		20.0	25.0
Thickness (mm)		5.0	6.3
<b>51470...</b>	Ident. No.	<b>200</b>	<b>250</b>

Prod. Gr. 6AD

## DICK Hardness testing file

### Application:

For hardness testing on hardened material with a maximum hardness of 63 HRC.

### Execution:

- Faces with a special double cut
- Edges with a single cut

### Technical data:

- File blade length: 150 mm
- File cut: 2
- Width: 10.3 mm
- Thickness: 10.3 mm



<b>51516...</b>	Ident. No.	<b>250</b>
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Prod. Gr. 6AE

## DICK Milled flat blunt-ended file

### Application:

For manual material removal on light and soft metals (aluminium, lead, tin), synthetic resin, wood, leather, marble and horn.

- Made of chrome-alloy steel

### Advantage:

- High removal performance and favourable chip removal

### Execution:

- Helical toothing, uniform rough toothing on both faces
- Narrow faces uncut

### Technical data:

- File cut: 1
- Thickness: 6.3 mm

File blade length (mm)		250	300
Width (mm)		25.0	30.0
<b>51520...</b>	Ident. No.	<b>125</b>	<b>130</b>
		●	●

Prod. Gr. 6AD



## DICK Half-round wood rasp

### Application:

For manual material removal on steel with a strength of less than 800 N/mm<sup>2</sup>, steel casting, chilled casting, copper, brass and bronze.

### Advantage:

- High removal performance and favourable chip removal

### Execution:

- Made of chrome-alloy steel

### Technical data:

- File cut: 2

File blade length (mm)		200	250
Width (mm)		20.0	25.0
Thickness (mm)		5.5	7.0
<b>51533...</b>	Ident. No.	<b>220</b>	<b>225</b>
		●	●

Prod. Gr. 6AD



## DICK covered files and bodywork files

### Application:

**No. 51549 130-51550 135:** For manual material removal on light and soft metals (aluminium, lead, tin), synthetic resin, wood, leather, marble and horn.

**No. 51550 230-51550 235:** For manual material removal on steel with a strength of less than 800 N/mm<sup>2</sup>, steel casting, chilled casting, copper, brass and

bronze.

### Execution:

- Made of chrome-alloy steel
- Flat blunt-ended
- **No. 51549:** Milled, both faces with helical toothing
- **No. 51550:** Both faces with radial toothing

File blade length (mm)		300	350	300	350	300	350
File cut		1	1	1	1	2	2
Width (mm)		30.0	35.0	30.0	35.0	30.0	35.0
Thickness (mm)		4.5	4.5	5.0	5.0	5.0	5.0
<b>51549...</b>	Ident. No.	<b>130</b>	<b>135</b>	-	-	-	-
		●	●				
<b>51550...</b>	Ident. No.	-	-	<b>130</b>	<b>135</b>	<b>230</b>	<b>235</b>
				●	●	●	●

Prod. Gr. 6AD



No. 51549



No. 51550

Accessories for		51549 135	51550 135	51550 235
<b>51551...</b>	Adjustable holder	Ident. No. <b>035</b>	Ident. No. <b>035</b>	Ident. No. <b>035</b>
		●	●	●

## Hardwood file handles

### Execution:

- **No. 51580:** With embedded clamp
- **No. 51582:**
  - With pressed-in steel tube clamp
  - Especially powerful version

### Technical data:

- Material: Hardwood
- Colour: Brown



No. 51580



No. 51582

Length (mm)		80	90	100	110	120	130	140	160	60
Suitable for file length		100 mm	125 mm	150 mm	200 mm	250 mm	300 mm	350 mm	400 mm	100 mm
<b>51580...</b>	Ident. No.	<b>080</b>	<b>090</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>160</b>	-
		●	●	●	●	●	●	●	●	
<b>51582...</b>	Ident. No.	<b>080</b>	<b>090</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>160</b>	<b>060</b>
		●	●	●	●	●	●	●	●	●

Prod. Gr. 527

## Tool handle

### Swiss patent, plastic with a soft core insert

#### Execution:

- Swiss patent
- Made of plastic, with soft core insert

#### Advantage:

- The handle can be inserted cold. It has a firm seating and can be repeatedly used

#### Technical data:

- Material: Plastic



Length (mm)	90	100	110	120	130	90	100	110
Suitable for file length	125 mm	150 mm	200 mm	250 mm	300 mm	125 mm	150 mm	200 mm
Colour	Green	Green	Green	Green	Green	Blue	Blue	Blue
51586...	090	100	110	120	130	190	200	210
Ident. No.	●	●	●	●	●	●	●	●
Length (mm)	120	130	90	100	110	120	130	90
Suitable for file length	250 mm	300 mm	125 mm	150 mm	200 mm	250 mm	300 mm	125 mm
Colour	Blue	Blue	Red	Red	Red	Red	Red	Black
51586...	220	230	290	300	310	320	330	490
Ident. No.	●	●	●	●	●	●	●	●
Length (mm)	100	110	120	130				
Suitable for file length	150 mm	200 mm	250 mm	300 mm				
Colour	Black	Black	Black	Black				
51586...	500	510	520	530				
Ident. No.	●	●	●	●				

Prod. Gr. 527

## File handle

### Plastic

#### Execution:

- Made of plastic

#### Technical data:

- Material: Plastic
- Colour: Red



Length (mm)	90	105	120
Suitable for file length	125 mm	150-200 mm	250-300 mm
51587...	010	020	030
Ident. No.	●	●	●

Prod. Gr. 527

## DICK Precision needle files

### Round handle

#### Application:

**No. 51402 001–51402 109, 51402 201–51402 309, 51402 401–51402 409:** For precision processing in steel, steel alloys and non-greasy soft metals in tool manufacturing, precision engineering or in training facilities.

**No. 51402 110, 51402 310, 51403 002–51403 409:** For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

#### Execution:

- Sharp tips and edges
- **No. 51402:** Handle diameter 3.23 mm +/- 0.1 mm, except:
  - square/round file: handle diameter 2.92 mm +/- 0.1 mm
- **No. 51403:** Handle diameter 3.71 mm +/- 0.1 mm, except:
  - square/round file: handle diameter 3.53 mm +/- 0.1 mm



Form					Half-round	Equalling needle	Knife shape	Barett	Triangle
	Length (mm)	File cut	File blade length (mm)	Ident. No.					
51402...	160	00	80	Ident. No.	002	001	-	005	006
					●	●		●	●
51402...	160	1	80	Ident. No.	102	101	104	105	106
					●	●	●	●	●
51402...	160	2	80	Ident. No.	202	201	204	205	206
					●	●	●	●	●
51402...	160	3	80	Ident. No.	302	301	304	305	306
					●	●	●	●	●
51402...	160	4	80	Ident. No.	402	401	-	405	406
					●	●		●	●
51403...	200	00	100	Ident. No.	002	-	-	-	006
					●				●
51403...	200	1	100	Ident. No.	102	101	104	105	106
					●	●	●	●	●
51403...	200	2	100	Ident. No.	202	201	204	205	206
					●	●	●	●	●
51403...	200	3	100	Ident. No.	302	301	304	305	306
					●	●	●	●	●
51403...	200	4	100	Ident. No.	402	-	-	405	406
					●			●	●

Form					Square-cut	Round	Equalling	Crossing shape	Blade shape
	Length (mm)	File cut	File blade length (mm)						
51402...	160	00	80	Ident. No.	007	008	009	-	-
51402...	160	1	80	Ident. No.	107	108	109	103	110
51402...	160	2	80	Ident. No.	207	208	209	203	-
51402...	160	3	80	Ident. No.	307	308	309	303	310
51402...	160	4	80	Ident. No.	407	408	409	-	-
51403...	200	00	100	Ident. No.	007	008	009	-	-
51403...	200	1	100	Ident. No.	107	108	109	103	-
51403...	200	2	100	Ident. No.	207	208	209	-	-
51403...	200	3	100	Ident. No.	307	308	309	303	-
51403...	200	4	100	Ident. No.	407	408	409	-	-

Prod. Gr. 6AE

## DICK Precision needle files set in plastic pouch

### Round handle

**Application:**

For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

**Execution:**

- In 12 different types
- Handle diameter 3.23 mm ± 0.1 mm and 2.92 mm ± 0.1 mm

**Delivery:**

In plastic pouch

**Technical data:**

- Number of pieces in assortment/set: 12 PCS
- Form: Barrett | Triangle | Equalling needle | Equalling | Half-round | Knife shape | Round | Blade shape | Square-cut | Crossing shape | Flat end with round shape | Flat tip with round shape
- File cut: 2

Length (mm)		100	140	160	180	200
File blade length (mm)		60	80	80	90	100
51405...	Ident. No.	005	008	010	018	020

Prod. Gr. 6AE

## DICK Precision needle file set in plastic bag

### With handle

**Execution:**

- 6 different shapes
- Flat, triangular, square, half-round, round, barrette
- With securely attached two-component plastic handle with screw cap

**Technical data:**

- Number of pieces in assortment/set: 6 PCS
- Length: 140 mm
- File cut: 2

51405...	Ident. No.	100
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Prod. Gr. 6AE



## DICK Precision needle file set in plastic box

### With round handle

**Application:**

For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

**Execution:**

- In 12 different types
- Handle diameter 3.23 mm ± 0.1 mm and 2.92 mm ± 0.1 mm

**Delivery:**

In plastic box – for setting up at the work place for quick access

**Technical data:**

- Number of pieces in assortment/set: 12 PCS
- Form: Barrett | Triangle | Equalling needle | Equalling | Half-round | Knife shape | Round | Blade shape | Square-cut | Crossing shape | Flat end with round shape | Flat tip with round shape
- File cut: 2
- File blade length: 80 mm

Length (mm)		140	160
51406...	Ident. No.	010	016

Prod. Gr. 6AE



## DICK Precision flat file, normal blade

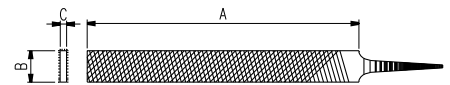
### Application:

For precise work in tool manufacturing, precision engineering, the jewellery industry or in training shops, for reworking and fine processing of pre-processed surfaces or to achieve fine and perfect surfaces.

- Uniform width
- File is thinner towards the pointed end

### Technical data:

- Form: Normal



### Execution:

- 2 flat faces and 1 small face cut

Length A (mm)	100	125	150	200	250	300	100	125
File cut	1	1	1	1	1	1	2	2
Width B (mm)	9.5	12.5	16.0	21.3	25.3	29.3	9.5	12.5
Dicke C (mm)	2.5	3.2	4.0	4.8	6.3	7.8	2.5	3.2
51411...	Ident. No.	110	112	115	120	125	130	210
Length A (mm)	150	200	250	300	100	125	150	200
File cut	2	2	2	2	3	3	3	3
Width B (mm)	16.0	21.3	25.3	29.3	9.5	12.5	16.0	21.3
Dicke C (mm)	4.0	4.8	6.3	7.8	2.5	3.2	4.0	4.8
51411...	Ident. No.	215	220	225	230	310	312	315
Length A (mm)	250	300	100	125	150	200	250	100
File cut	3	3	4	4	4	4	4	5
Width B (mm)	25.3	29.3	9.5	12.5	16.0	21.3	25.3	9.5
Dicke C (mm)	6.3	7.8	2.5	3.2	4.0	4.8	6.3	2.5
51411...	Ident. No.	325	330	410	412	415	420	425
Length A (mm)	150	200						
File cut	5	5						
Width B (mm)	16.0	21.3						
Dicke C (mm)	4.0	4.8						
51411...	Ident. No.	515	520					

Prod. Gr. 6AE

## DICK Precision half-round file, pointed

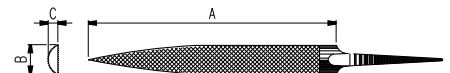
### Application:

For precise work in tool manufacturing, precision engineering, the jewellery industry or in training shops, for reworking and fine processing of pre-processed

surfaces or to achieve fine and perfect surfaces.

### Execution:

- Sharp tips and edges



Form	Half-round   Pointed   Normal	Half-round   Pointed   Normal	Half-round   Pointed   Narrow	Half-round   Pointed   Normal	Half-round   Pointed   Normal	Half-round   Pointed   Normal	Half-round   Pointed   Normal	Half-round   Pointed   Narrow
Length A (mm)	125	150	150	200	250	125	150	150
File cut	1	1	1	1	1	2	2	2
Width B (mm)	13.1	18.4	12.7	21.1	25.5	13.1	18.4	12.7
Dicke C (mm)	4.1	5.2	3.5	6.3	7.5	4.1	5.2	3.5
51415...	Ident. No.	112	115	150	120	125	212	215
Form	Half-round   Pointed   Normal	Half-round   Pointed   Narrow	Half-round   Pointed   Normal	Half-round   Pointed   Normal	Half-round   Pointed   Normal	Half-round   Pointed   Narrow	Half-round   Pointed   Normal	Half-round   Pointed   Normal
Length A (mm)	200	200	250	125	150	150	200	250
File cut	2	2	2	3	3	3	3	3
Width B (mm)	21.1	15.2	25.5	13.1	18.4	12.7	21.1	25.5
Dicke C (mm)	6.3	4.8	7.5	4.1	5.2	3.5	6.3	7.5
51415...	Ident. No.	220	260	225	312	315	350	320
Form	Half-round   Pointed   Normal	Half-round   Pointed   Normal						
Length A (mm)	150	200						
File cut	4	4						
Width B (mm)	18.4	21.1						
Dicke C (mm)	5.2	6.3						
51415...	Ident. No.	415	420					

Prod. Gr. 6AE

## DICK Precision round file

### Application:

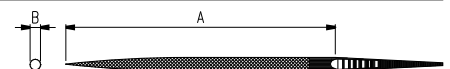
For precise work in tool manufacturing, precision engineering, the jewellery industry or in training shops, for reworking and fine processing of pre-processed surfaces or to achieve fine and perfect surfaces.

### Execution:

- Sharp tips and edges

### Technical data:

- Form: Round



Length A (mm)		100	125	150	200	250	100	125	150
File cut		1	1	1	1	1	2	2	2
Ø B (mm)		3.85	4.8	5.8	7.8	9.4	3.85	4.8	5.8
514 18...	Ident. No.	110	112	115	120	125	210	212	215
		●	●	●	●	●	●	●	●
Length A (mm)		200	250	100	125	150	200	250	
File cut		2	2	3	3	3	3	3	
Ø B (mm)		7.8	9.4	3.85	4.8	5.8	7.8	9.4	
514 18...	Ident. No.	220	225	310	312	315	320	325	
		●	●	●	●	●	●	●	

Prod. Gr. 6AE

## DICK Precision files – knife, lenticular crossing and Baret form

### Application:

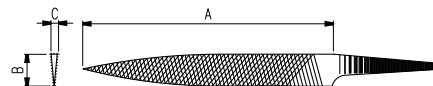
For precise work in tool manufacturing, precision engineering, the jewellery industry or in training shops, for reworking and fine processing of pre-processed surfaces or to achieve fine and perfect surfaces.

### Execution:

- Sharp tips and edges

### Technical data:

- Form: Knife shape



Length A (mm)		150	200	150	200	150	200
File cut		1	1	2	2	3	3
Width B (mm)		17.9	22.0	17.9	22.0	17.9	22.0
Dicke C (mm)		3.5	4.2	3.5	4.2	3.5	4.2
51419...	Ident. No.	115	120	215	220	315	320

Prod. Gr. 6AE

## DICK Key file set

### Application:

For precise manual material removal with all metal materials.

### Execution:

- Ergonomically shaped wooden handle

### Delivery:

6-piece, in plastic pouch, with handle, in the following shapes: flat blunt-ended, flat pointed, half-round,

triangular, square and round

### Technical data:

- File blade length: 100 mm
- File cut: 2
- Material of the grip handle: Wood
- Number of pieces in assortment/set: 6 PCS



51452...	Ident. No.	010
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Prod. Gr. 6AD

## ORION Key file set

### Application:

For precise manual material removal with all metal materials.

### Delivery:

6-piece, in sheet metal box, with handle, in the following shapes: flat blunt-ended, flat pointed,

half-round, triangular, square and round

### Technical data:

- File blade length: 100 mm
- File cut: 2
- Number of pieces in assortment/set: 6 PCS



51451...	Ident. No.	010
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Prod. Gr. 6AF

## DICK Precision riffling file sets

### Application:

For machining of hard-to-reach surfaces and contours on steel, plastic, copper, etc.

### Execution:

- Central handle with two (mostly curved) file ends

- Types – round, oval, flat, square, triangular, half-round

### Technical data:

- Number of pieces in assortment/set: 6 PCS
- File cut: 2
- Length: 150 mm



51457...	Ident. No.	150
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Prod. Gr. 6AE

## Thread files

### Application:

For reworking of inner and outer threads.

### Execution:

- Combined

- No. 51458: For metric ISO coarse-pitch thread DIN 13
- No. 51459: For Whitworth thread

### Technical data:

- Length: 230 mm





Composition of set		51458... Ident. No.	51459... Ident. No.
0.8 / 1 / 1.25 / 1.5 / 1.75 / 2 / 2.5 / 3 mm		010	-
3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4 inch		-	010

Prod. Gr. 527



## 5-piece diamond needle file set in case

Galvanic bond

### Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

### Technical data:

- Length: 140 mm
- Lining length: 70 mm
- Shaft diameter: 3 mm

### Execution:

- Types included: flat hand file, triangular, square, half-round and round

	Range of applications	Grain size (µm)	Ident. No.	
62300...	Smoothing	91	Ident. No.	205
62300...	Universal	126	Ident. No.	305
62300...	Roughing	181	Ident. No.	405

Prod. Gr. 6AC



## Diamond needle files set, 11-pieces in case

Galvanic bond

### Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

flat-pointed, knife-edge, sword, lenticular crossing and barrette

### Technical data:

- Length: 140 mm
- Lining length: 70 mm
- Shaft diameter: 3 mm

### Execution:

- Types included: flat blunt-ended, standard and round edges, triangular, square, half-round, round,



	Range of applications	Grain size (µm)	Ident. No.	
62300...	Smoothing	91	Ident. No.	211
62300...	Universal	126	Ident. No.	311
62300...	Roughing	181	Ident. No.	411

Prod. Gr. 6AC



## Diamond needle files

Galvanic bond

### Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

- Medium grain size D 126 for universal use
- Rough grain size D 181 for roughing

### Technical data:

- Length: 140 mm
- Lining length: 70 mm
- Shaft diameter: 3 mm

### Execution:

- Fine grain size D 91 for finishing



Form			Equalling	Equalling needle	Triangle	Square-cut	Half-round	Round	Knife shape	Blade shape	Barrett
Width (mm)			5.5	5.5	3.5	2.6	5.5	3.2	5.0	5.0	5.0
Thickness (mm)			1.6	1.6	-	2.6	1.6	-	1.8	2.4	2.0
	Grain size (µm)										
62300...	91	Ident. No.	010	020	030	040	050	060	070	080	090
62300...	126	Ident. No.	110	120	130	140	150	160	170	180	190
62300...	181	Ident. No.	210	220	230	240	250	260	270	280	290

Prod. Gr. 6AC





## Diamond file set in case with galvanic bond

### Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

### Advantage:

- With forged shaft for use without file handle

### Technical data:

- Length: 215 mm
- Lining length: 100 mm



### Execution:

- Types included: flat blunt-ended, triangular, square, half-round and round

	Range of applications	Grain size (µm)	Ident. No.	
62400...	Universal	126	Ident. No.	300
62400...	Roughing	181	Ident. No.	310

Prod. Gr. 6AC



## Diamond files Galvanic bond

### Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

### Advantage:

- With forged shaft for use without file handle

### Technical data:

- Length: 215 mm
- Lining length: 100 mm



Form			Equalling	Triangle	Square-cut	Half-round	Round	Half-round
Width (mm)			10.3	10.0	5.5	12.5	6.7	12.5
Thickness (mm)			2.8	10.0	5.5	3.8	6.7	3.5
	Grain size (µm)							
62400...	126	Ident. No.	110	120	130	140	150	-
62400...	181	Ident. No.	210	220	230	-	250	240

Prod. Gr. 6AC



## Needle file and diamond file handle Plastic

### Application:

**Ident. No. 010:** For needle and diamond files, 140-200 mm long.

**Ident. No. 020:** For needle and diamond files, 100-200 mm long.

### Execution:

- With closed end
- With collet chuck

### Technical data:

- Material: Plastic



Ident. No. 010



Ident. No. 020

Min./max. clamping Ø			2.8-4.0 mm	2.0-5.0 mm
Length (mm)			80	95
51408...	Ident. No.		010	020

Prod. Gr. 6AE



## Needle file and diamond file handle Plastic, with spring-action collet chuck and clamping knob

### Application:

For needle and diamond files, scrapers, reamers and countersinks.

### Advantage:

- Fast, easy tool change with secure fastening

### Technical data:

- Length: 95 mm
- Material: Plastic



Min./max. clamping Ø		1.1-2.1 mm	2.0-3.1 mm	3.0-4.0 mm
51409...	Ident. No.	010	015	020

Prod. Gr. 6AE