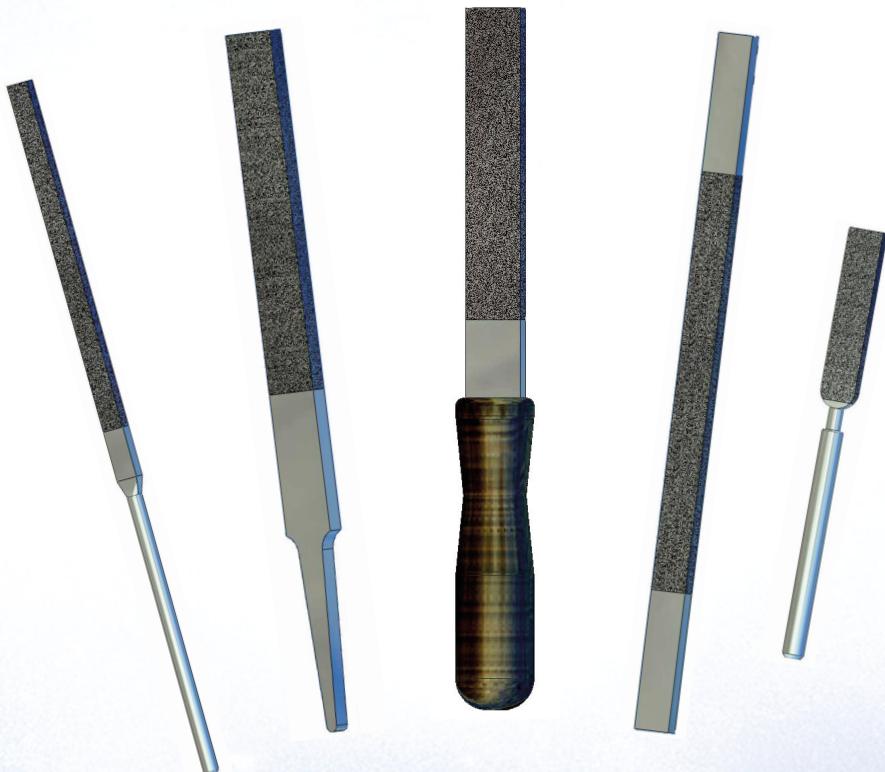


**90 YEARS**  
**1929-2019**



## Electro Plated Standard Diamond Files

Price List EF02/2022



**The QR-Codes lead you directly to our  
Online-Shop!**



All prices are per piece, ex works.

# Corporate History

Top quality at reasonable prices

Since 1929, this philosophy has determined our range of products and services.  
To celebrate our 90th anniversary, we would like to invite you to a journey through time.

During his training in a glass factory, the later co-founder Theodor Felix Kraus came into contact with glazier diamonds for the first time and learned how to repair them. The First World War forced him to interrupt his training, but after his time as a soldier in France and Russia, his way led him first to Sweden and back to France where he acquired further knowledge and techniques in the production of diamond tools. Upon his return to Germany, Theodor Felix Kraus was already considered a specialist in the field.

On October 1st, 1929, Theodor Felix Kraus and the businessman Willy Winter founded the Kraus & Winter company at Lindenstraße 5 in Hamburg. The entry into the commercial register took place only 8 days later on 9th October 1929. The first target groups were glass, laboratory and natural stone companies and supplied with the first diamond tools. In 1935, less than 10 years later, the partner Willy Winter retired and Theodor Felix Kraus continued the company as sole owner.

In 1938, the company moved to Hamburg-Lokstedt Lottestraße 9-11 in order to meet increased customer demands and broadening capacity. Over the years, production was expanded into more and more areas.

In 1956 the office was moved to its present location in Hamburg-Lemsahl, and extended in by an annex.

His son Felix-Gunter Kraus joined the company at a young age during his apprenticeship. As a result, the range of diamond tools for all areas was supplemented by his devices for optical glass processing. Thus the field of ophthalmic optics also became potential customers.

Theodor Felix Kraus died in 1974. His son took over the company in the same year and led it safely into the new age.

After 90 years of experience, our company still relies on sound know-how in the manufacture of diamond and later CBN tools, intensive research and development work, state-of-the-art production methods, as well as a team of motivated and qualified employees and recognizes them as an essential basis for consistently high quality, forward-looking production optimization and innovation in our company.

By using the latest technology in our company, such as CAD workstations, ERP systems for monitoring order, production and delivery processing, as well as careful final inspections, we can guarantee you on-time delivery and the highest quality standard, even for custom-made products.

Armed with these prerequisites, we look forward to a future far beyond 2019.

Be a part of our advancement.

We will be happy to advise you.

**KRAUS & WINTER  
90 YEARS  
DIAMOND TOOLS**

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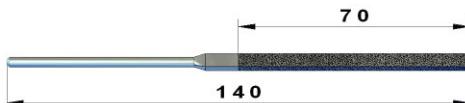
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Standard Grit Size for Diamond and CBN (Bornitride)

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Diamond Needle Files

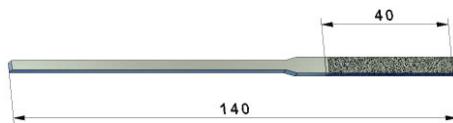
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Diamond Needle Files

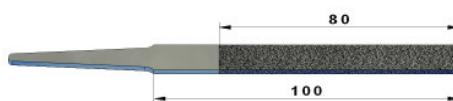
Type DV 40



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Diamond Files with Plastic Handle

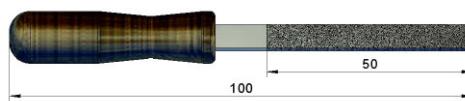
Type DA80 / DA90 / DA110 / DA160



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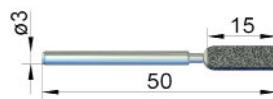
Type DS50 / DS80



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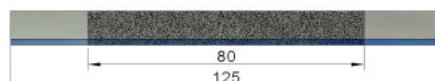
Type DHM15 / DHM25



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Diamond Machine Files

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# Informations about our Standard Programm of electro plated Diamond Tools

In this catalogue our standard tools with customary grain are listed. Since we offer them as standard with many different grains, they are not always in stock. Still we stock them as standard product with accordingly cheap prices.

Naturally all other measurements and grains are suppliable. To this, we ask for consignment of a drawing or exact specifications as well as the desired quantity.

Furthermore, your pieces can be coated. For this we, too need a detailed drawing or specifications as well as quantity for the creation of an offer.

You should consider this layer thicknesses for the manufacture of blanks, if these tools should later be provided with a electro plated diamant- or CBN-layer.

Grit Size FEPA	Coating Thickness mm	Coat Tolerance mm	Profil Tolerance mm
601	0,75	+/- 0,05	+/- 0,10
427	0,50	+/- 0,05	+/- 0,10
301	0,35	+/- 0,04	+/- 0,08
251	0,30	+/- 0,04	+/- 0,08
213	0,28	+/- 0,04	+/- 0,08
181	0,25	+/- 0,03	+/- 0,06
151	0,20	+/- 0,03	+/- 0,06
126	0,15	+/- 0,02	+/- 0,04
107	0,14	+/- 0,02	+/- 0,04
91	0,12	+/- 0,02	+/- 0,04
76	0,11	+/- 0,02	+/- 0,04
64	0,10	+/- 0,02	+/- 0,04
54	0,09	+/- 0,02	+/- 0,04
46	0,07	+/- 0,02	+/- 0,04
35	0,05	+/- 0,02	+/- 0,04
25	0,04	+/- 0,02	+/- 0,04
15	0,03	+/- 0,02	+/- 0,04

# Standard Grit Size for Diamond and CBN (Bornitride)

In the following grain table we not only have the FEPA but also the US-mesh designation, mesh opening in micron ( $\mu$ ) and conventional grain designations listed. You can then perform conversion yourself.

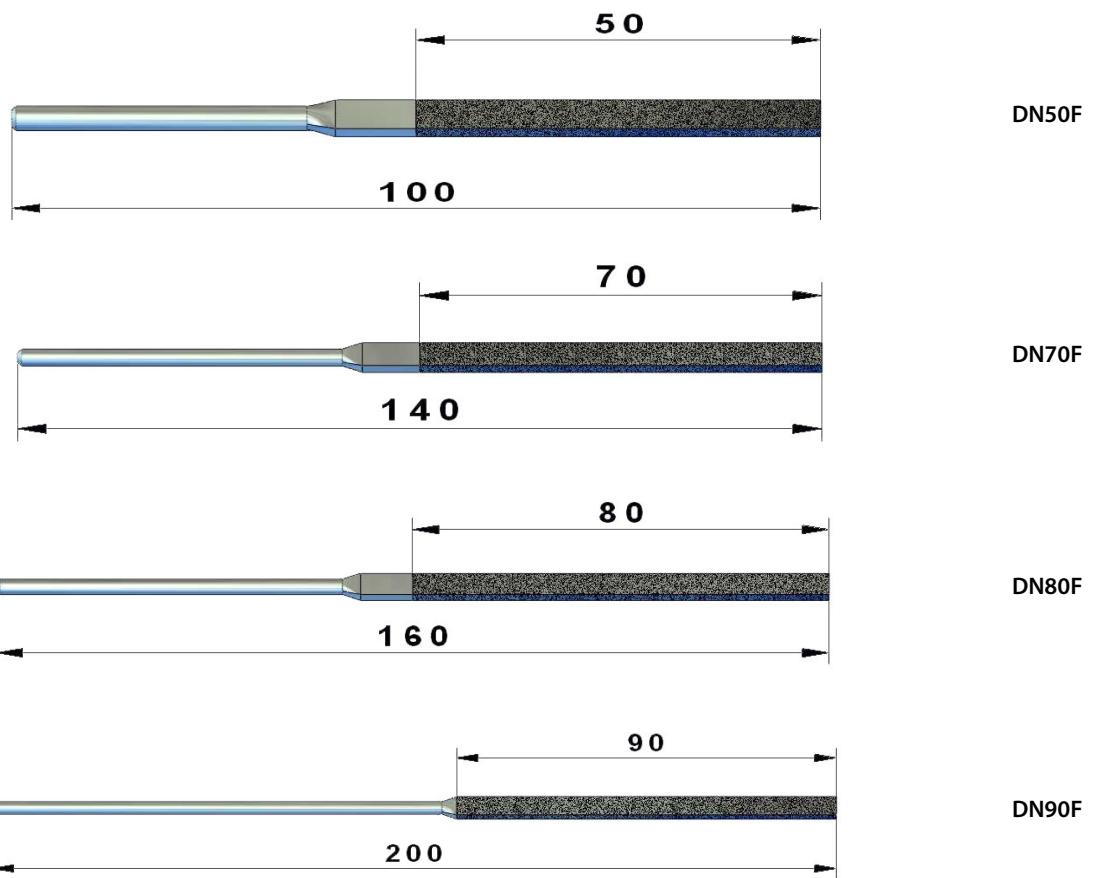
Diamond Standard FEPA		CBN Standard FEPA		US-Standard (US Mesh)		Mesh Size $\mu$	Grit Size Siliziumcarbide Corundum
narrow	wide	narrow	wide	narrow	wide		
D1181 D1001	D1182	-	-	16/18 18/20	16/20	1180-1000 1000-850	20
D851 D711	D852	-	-	20/25 25/30	20/30	850-710 710-600	24 30
D601 D501	D602	B501	-	30/35 35/40	30/40	600-500 500-425	36 40
D427 D356	D427	B426 B356	B427	40/45 45/50	40/50	425-355 355-300	46 50
D301	-	B301	-	50/60	-	300-250	60
D251 D213	D252	B251 B213	B252	60/70 70/80	-	250-212 212-180	70 80
D181	-	B181	-	80/100	-	180-150	90
D151	-	B151	-	100/120	-	150-125	100
D126	--	B126	-	120/140	-	125-106	120
D107	-	B107	-	140/170	-	106-90	150
D91	-	B91	-	170/200	-	90-75	180
D76	-	B76	-	200/230	-	75-63	200
D64	-	B64	-	230/270	-	63-53	220
D54	-	B54	-	270/325	-	53-45	250
D46	-	B46	-	325/400	-	45-38	280
D35	-	-	-	400/500	-	40-32	320
D30	-	B30	-	450/550	-	32-25	340
D25	-	-	-	600	-	30-20	380
D20	-	-	-	-	-	25-15	-
D15	-	B15	-	1200	-	20-10	600
D10	-	-	-	-	-	15-8	-
D7	-	-	-	2400	-	12-6	1000
D6	-	-	-	-	-	8-4	-
D3	-	-	-	6000	-	4-2	-
D1	-	-	-	8000	-	2-1	-

# Diamond Needle Files

## Type DN50 / DN70 / DN80 / DN90



On ordering please indicate whether diamond grain size!



## Diamond Needle Files Type DN50

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DN50F	flat		3,8 x 1,4 x 50	30-54-64-76-91-107-126	19,80
DN50FS	flat pointed		4,0 x 1,3 x 50		
DN50FR	flat round		3,8 x 1,4 x 50		
DN50D	triangular		3,0 x 3,0 x 50		
DN50Q	square		2,2 x 2,2 x 50		
DN50H	half round		4,0 x 1,5 x 50		
DN50R	round		2,4 - 1,0 x 50		
DN50M	knife		4,2 x 1,2 x 50		
DN50S	feather-edge		3,8 x 2,0 x 50		
DN50V	lenticular cross-section		3,5 x 1,2 x 50		
DN50B	barrette		4,0 x 1,5 x 50		

## Diamond Needle Files Type DN70

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DN70F	flat		5,0 x 1,5 x 70	30-54-64-76-91-107-126-181	12,60
DN70FS	flat pointed		5,2 x 1,5 x 70		
DN70FR	flat round		5,0 x 1,5 x 70		
DN70D	triangulare		3,7 x 3,7 x 70		
DN70Q	square		2,5 x 2,5 x 70		
DN70H	half round		5,3 x 2,0 x 70		
DN70R	round		3,0 - 1,5 x 70		
DN70M	knife		5,2 x 1,5 x 70		
DN70S	feather-edge		5,5 x 2,5 x 70		
DN70V	lenticular cross-section		5,0 x 2,5 x 70		
DN70B1	barrette		5,0 x 0,9 x 70		
DN70B2			5,0 x 1,1 x 70		
DN70B3			5,0 x 2,8 x 70		

## Diamond Needle Files Type DNS70

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DNS70F	flat		5,0 x 1,0 x 70	30-54-64-76-91-107-126	18,00
DNS70D	triangulare		2,0 x 2,0 x 70		
DNS70Q	square		2,1 x 2,1 x 70		
DNS70H	half round		3,0 x 1,5 x 70		
DNS70R	round		2,0-1,0 x 70		

## Diamond Needle Files Type DN80

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DN80F	flat		5,8 x 1,8 x 80	30-54-64-76-91-107-126	15,10
DN80FS	flat pointed		5,8 x 1,5 x 80		17,10
DN80FR	flat round		5,8 x 1,8 x 80		15,10
DN80D	triangular		4,0 x 4,0 x 80		17,10
DN80Q	square		2,7 x 2,7 x 80		15,10
DN80H	half round		6,0 x 2,2 x 80		17,10
DN80R	round		3,0 - 1,0 x 80		15,10
DN80M	knife		6,5 x 2,0 x 80		17,10
DN80S	feather-edge		6,0 x 3,0 x 80		17,10
DN80V	lenticular cross-section		5,5 x 2,5 x 80		17,10
DN80B	barrette		5,5 x 1,7 x 80		

## Diamond Needle Files Type DN90

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DN90F	flat		6,8 x 1,8 x 90	30-54-64-76-91-107-126-181	24,30
DN90FS	flat pointed		8,4 x 2,2 x 90		19,10
DN90FR	flat round		6,8 x 1,8 x 90		24,30
DN90D	triangular		4,5 x 4,5 x 90		
DN90Q	square		3,0 x 3,0 x 90		
DN90H	half round		6,5 x 2,5 x 90		
DN90R	round		4,0 - 1,0 x 90		
DN90M	knife		6,6 x 1,2 x 90		
DN90S	feather-edge		8,0 x 3,5 x 90		
DN90V	lenticular cross-section		6,4 x 2,5 x 90		
DN90B1	barrette		6,0 x 2,2 x 90		

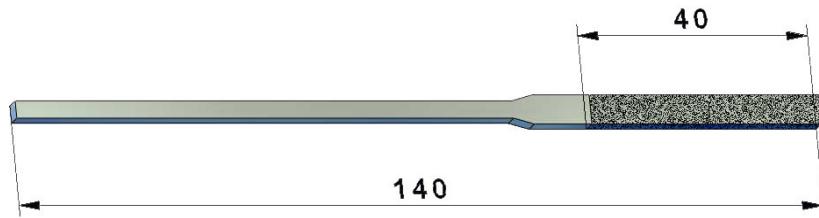
# Diamond Needle Files

## Type DV40



On ordering please indicate whether diamond grain size!

DV40F



# Diamond - Needle Files Type DV40 with square shank

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DV40F	flat		4,0 x 1,0 x 40	30-54-64-76-91-107-126	33,80
DV40D	triangular		3,0 x 3,0 x 40		31,60
DV40Q	square		2,0 x 2,0 x 40		30,30
DV40H	half round		3,5 x 1,5 x 40		30,70
DV40R	round		1,0 - 0,8 x 40		28,70



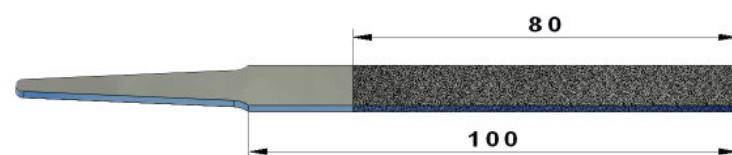
# **Diamond Files with Plastic Handle**

## **Type DA80 / DA90 / DA110 / DA160**

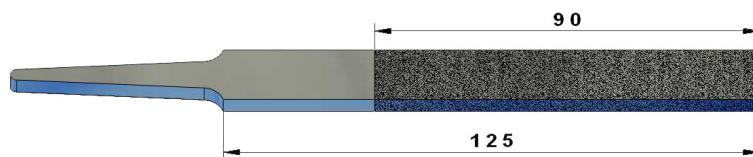


On ordering please indicate whether diamond grain size!

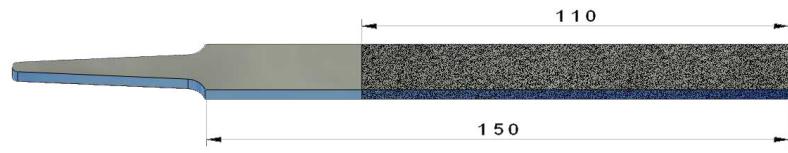
**DA80F**



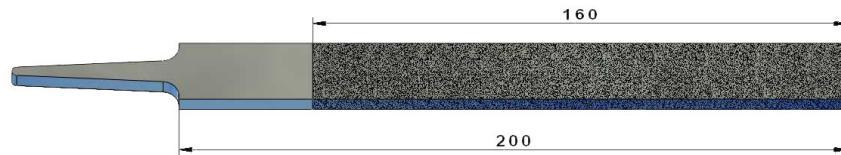
**DA90F**



**DA110F**



**DA160F**



## Diamond Files with Plastic Handle Type DA80

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DA80F	flat		10,5 x 1,5 x 80	30-54-64-76-91-107-126 - 151 - 181	36,00
DA80FS	flat pointed		10,5 x 1,5 x 80		25,10
DA80D	triangular		5,0 x 5,0 x 80		36,00
DA80Q	square		3,5 x 3,5 x 80		16,00
DA80H	half round		9,0 x 3,5 x 80		
DA80R	round		3,0 - 1,0 x 80		

## Diamond Files with Plastic Handle Type DA90

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DA90F	flat		12,0 x 3,5 x 90	30-54-64-76-91-107-126-181	45,00
DA90D	triangular		8,0 x 8,0 x 90		28,70
DA90Q	square		5,5 x 5,5 x 90		45,00
DA90H	half round		12,0 x 4,5 x 90		19,60
DA90R	round		5,0 - 2,0 x 90		45,00
DA90B3	barrette		12,0 x 3,5 x 90		

## Diamond Files with Plastic Handle Type DA110

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DA110F	flat		13,0 x 4,0 x 110	30-54-64-76-91-107-126-181	51,10
DA110D	triangular		9,5 x 9,5 x 110		48,00
DA110Q	square		6,0 x 6,0 x 110		54,00
DA110H	half round		16,0 x 5,5 x 110		28,70
DA110R	round		6,0 - 2,0 x 110		54,00
DA110B3	barrette		15,0 x 4,0 x 110		

# Diamond Files with Plastic Handle Type DA160 c

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DA160F10	flat		10,0 x 4,0 x 160	30-54-64-76-91-107- 126-181	80,20
DA160F12			12,0 x 4,0 x 160		90,00
DA160F15			15,0 x 4,0 x 160		95,10
DA160F20			20,0 x 4,0 x 160		107,00
DA160F25			25,0 x 4,0 x 160		135,00
DA160F30			30,0 x 4,0 x 160		150,00
DA160D	triangular		14,,0 x 14,0 x 160		85,10
DA160Q	square		8,0 x 8,0 x 160		108,00
DA160H	half round		21,0 x 6,0 x 160		65,50
DA160R	round		8,0 - 2,0 x 160		108,00
DA160B	barrette		21,0 x 5,0 x 160		

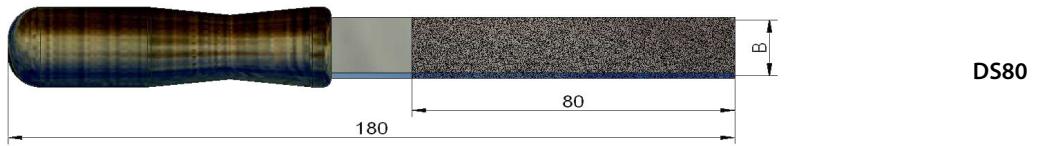
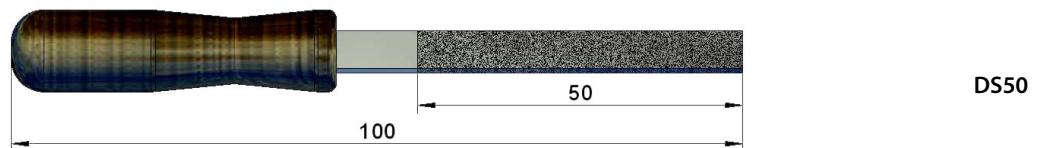


# Diamond Files with Wooden Handle

## Type DS50 / DS80



On ordering please indicate whether diamond grain size!



# Diamond Files with Wooden Handle Type DS50

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DS50.041			4,0 x 0,2** x 50		
DS50.042			4,0 x 0,3* x 50		
DS50.043			4,0 x 0,4 x 50		
DS50.044			4,0 x 0,5 x 50		
DS50.045			4,0 x 0,6 x 50		16,00
DS50.046			4,0 x 0,7 x 50		
DS50.047			4,0 x 0,8 x 50		
DS50.048			4,0 x 0,9 x 50		
DS50.049			4,0 x 1,0 x 50		
DS50.061			6,0 x 0,2** x 50		
DS50.062			6,0 x 0,3* x 50		
DS50.063			6,0 x 0,4 x 50		
DS50.064			6,0 x 0,5 x 50		
DS50.065			6,0 x 0,6 x 50		16,00
DS50.066			6,0 x 0,7 x 50		
DS50.067			6,0 x 0,8 x 50		
DS50.068			6,0 x 0,9 x 50		
DS50.069			6,0 x 1,0 x 50	30-54-64-76-91-107- 126 - 151 - 181	
DS50.081	flat		8,0 x 0,2** x 50		
DS50.082			8,0 x 0,3* x 50		
DS50.083			8,0 x 0,4 x 50		
DS50.084			8,0 x 0,5 x 50		
DS50.085			8,0 x 0,6 x 50		16,00
DS50.086			8,0 x 0,7 x 50		
DS50.087			8,0 x 0,8 x 50		
DS50.088			8,0 x 0,9 x 50		
DS50.089			8,0 x 1,0 x 50		
DS50.101			10,0 x 0,2** x 50		
DS50.102			10,0 x 0,3* x 50		
DS50.103			10,0 x 0,4 x 50		
DS50.104			10,0 x 0,5 x 50		
DS50.105			10,0 x 0,6 x 50		16,00
DS50.106			10,0 x 0,7 x 50		
DS50.107			10,0 x 0,8 x 50		
DS50.108			10,0 x 0,9 x 50		
DS50.109			10,0 x 1,0 x 50		

\*\* Coating only in D30 at all sides, D54+D64 possible only one side!

\* Coating only in D54-91 at all sides possible!

# Diamond Files with Wooden Handle Type DS80

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DS80.131	flat		13,0 x 0,2** x 80	30-54-64-76-91-107- 126 - 151 - 181	28,80
DS80.132			13,0 x 0,3* x 80		
DS80.133			13,0 x 0,4 x 80		
DS80.134			13,0 x 0,5 x 80		
DS80.135			13,0 x 0,6 x 80		
DS80.136			13,0 x 0,7 x 80		
DS80.137			13,0 x 0,8 x 80		
DS80.138			13,0 x 0,9 x 80		
DS80.139			13,0 x 1,0 x 80		

\*\* Coating only in D30 at all sides, D54+D64 possible only one side!

\* Coating only in D54-91 at all sides possible!



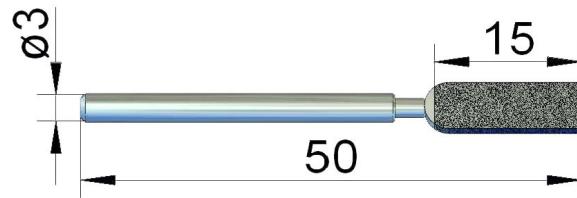
# Diamond Machine Files

## Type DHM15 / DHM25

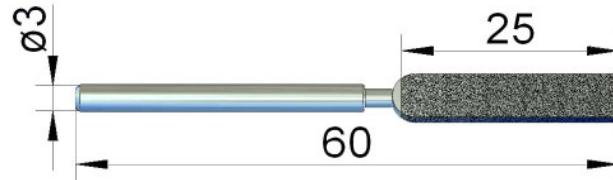


On ordering please indicate whether diamond grain size!

DHM15



DHM25



## Diamond Machine Files Type DHM15

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DHM15FE2	flat		2,0 x 1,0 x 15	30-54-64-76-91-107-126 - 151 - 181	14,60
DHM15FE3			3,0 x 1,0 x 15		
DHM15FE4			5,0 x 1,0 x 15		
DHM15FE5			5,0 x 2,0 x 15		
DHM15FB2			2,0 x 1,0 x 15		
DHM15FB3	flat		3,0 x 1,0 x 15	30-54-64-76-91-107-126 - 151 - 181	14,60
DHM15FB4			5,0 x 1,0 x 15		
DHM15FB5			5,0 x 2,0 x 15		
DHM15FS5			4,0 x 0,5 x 15		
DHM15FS7	flat		4,0 x 0,75 x 15	30-54-64-76-91-107-126 - 151 - 181	14,60
DHM15FS1			4,0 x 1,0 x 15		
DHM15R1	round		1,0 x 15		
DHM15R2			2,0 x 15		9,60
DHM15R3			3,0 x 15		
DHM15R4			4,0 x 15		

## Diamond Machine Files Type DHM25

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DHM25FE	flat		5,0 x 2,0 x 25	30-54-64-76-91-107-126 - 151 - 181	14,60
DHM25FB			5,0 x 2,0 x 25		
DHM25FS			4,0 x 1,0 x 25		
DHM25R2	round		2,0 x 25	30-54-64-76-91-107-126 - 151 - 181	9,60
DHM25R3			3,0 x 25		
DHM25R4			4,0 x 25		

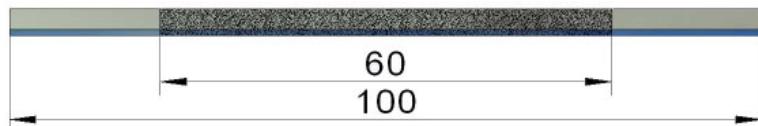
# Diamond Machine Files

## Type DM60 / DMK80 / DM80 / DM120

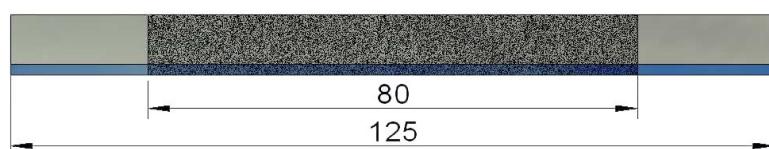


On ordering please indicate whether diamond grain size!

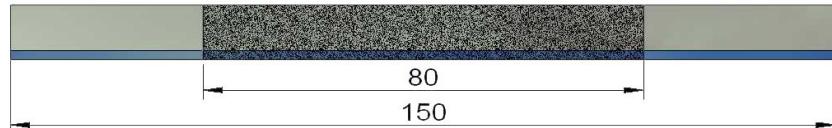
DM60F



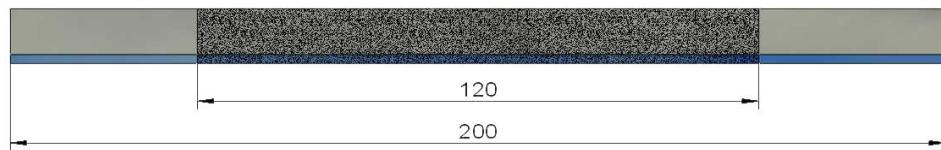
DMK80F



DM80F



DM120F



## Diamond Machine Files Type DM60

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DM60F	flat		2,0 x 1,5 x 60	30-54-64-76-91-107- 126 - 151 - 181	16,60
DM60Q	square		2,0 x 2,0 x 60		19,20
DM60R	round		2,0 x 60		14,80

## Diamond Machine Files Type DMK80

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DMK80F	flat		4,0 x 2,0 x 80	30-54-64-76-91-107- 126 - 151 - 181	22,30
DMK80D3	triangular		3,0 x 3,0 x 80		22,90
DMK80D4			4,0 x 4,0 x 80		25,70
DMK80Q3	square		3,0 x 3,0 x 80	30-54-64-76-91-107- 126 - 151 - 181	29,60
DMK80Q4			4,0 x 4,0 x 80		37,70
DMK80R3			3,5 x 80		22,30
DMK80R4	round		4,0 x 80		31,20
DMK80R5			5,0 x 80		34,40

## Diamond Machine Files Type DM80

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DM80F5	flat		5,0 x 2,0 x 80	30-54-64-76-91-107- 126 - 151 - 181	25,60
DM50F9			9,0 x 3,2 x 80		33,60
DM80F10			10,0 x 4,0 x 80		40,50
DM80D6	triangular		6,0 x 6,0 x 80	30-54-64-76-91-107- 126 - 151 - 181	29,60
DM80D8			8,0 x 8,0 x 80		36,50
DM80Q5	squaret		5,0 x 5,0 x 80	30-54-64-76-91-107- 126 - 151 - 181	31,90
DM80Q8			8,0 x 8,0 x 80		37,70
DM80H5	half round		5,0 x 2,5 x 80	30-54-64-76-91-107- 126 - 151 - 181	25,10
DM80H8			8,0 x 4,0 x 80		41,40
DM80R	round		6,5 x 80		36,60

## Diamond Machine Files Type DM120

Customs tariff number: 8203 10 00

Art.No.	Form	Profile	Measurement mm	Diamond Grit Size	Price €
DM120F	flat		11,0 x 4,0 x 120	30-54-64-76-91-107- 126 - 151 - 181	52,40
DM120D	triangular		10,0 x 10,0 x 120		76,50
DM120Q	square		10,0 x 10,0 x 120		51,90
DM120H	half round		10,0 x 5,0 x 120	30-54-64-76-91-107- 126 - 151 - 181	58,20
DM120R	round		10,0 x 120		

## Note

**Since 90 Years Production of Diamond Tools**



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