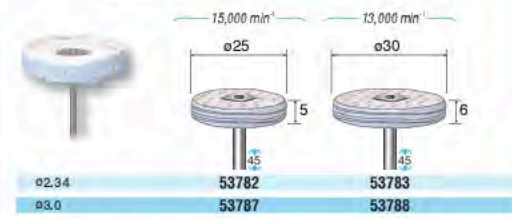


FELT BOBS

SHANK $\phi 2.34, \phi 3.0$

5 pcs./pack Cotton Bobs



3 pcs./pack



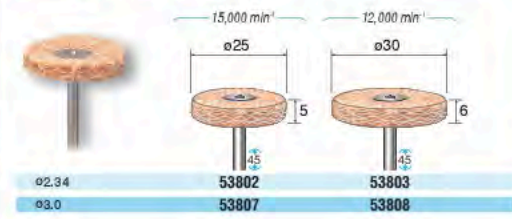
5 pcs./pack Dark Brown Cotton Bobs



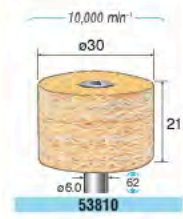
For metal semi-finishing. Using polishing materials.

SHANK $\phi 2.34, \phi 3.0$

5 pcs./pack Sisal Bobs



3 pcs./pack



SHANK $\phi 3.0$

7 pcs./pack Polishing Piled Bobs Assorted Set

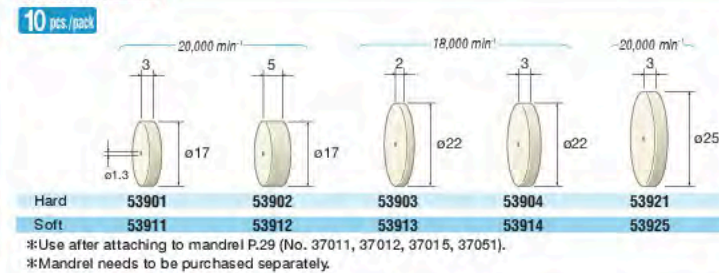


2 pcs./pack Polishing Compound (Solid Type)

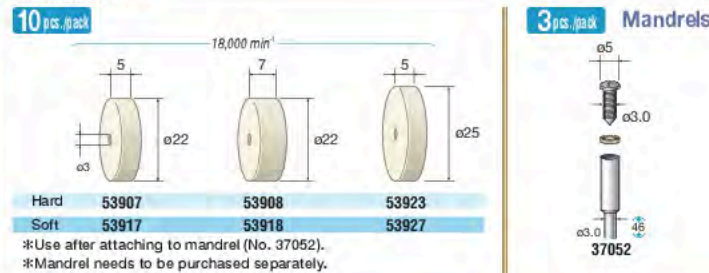
For Metals	Applications
Alumina for metal pre-finishing (white rouge) 55341	Aluminum, stainless steel, brass, chrome, etc.
Tripoli for metal pre-finishing (red rouge) 55342	Iron, aluminum, etc.
Chrome oxide for metal finishing (blue rouge) 55343	Precious metals, aluminum, stainless steel, brass, copper alloys, etc.

For Resins	Applications
For resin pre-finishing (white rouge) 55345	For synthetic resins and coated surfaces.
For resin finishing (white rouge) 55346	For synthetic resins and acrylics for coated surfaces.

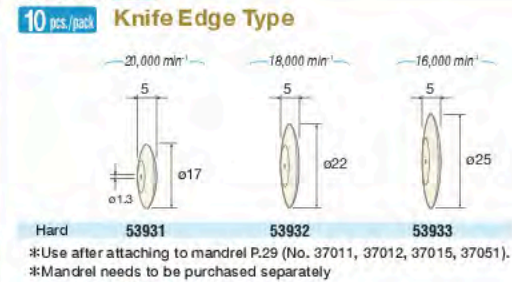
SHANK $\phi 1.3$



SHANK $\phi 3.0$



SHANK $\phi 1.3$



SHANK $\phi 3.0$



SHANK $\phi 2.34$

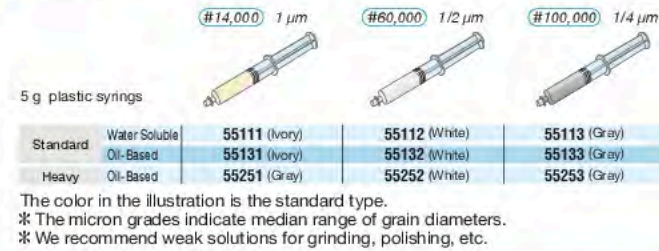


ABRASIVE COMPOUNDS & POLISHING TOOLS

1 pc./pack Diamond Compounds



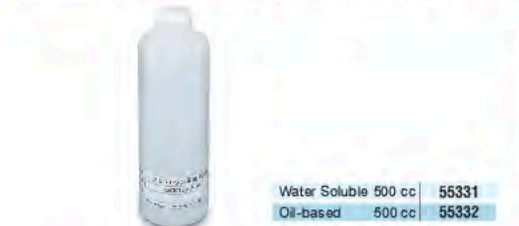
1 pc./pack Diamond Compounds



1 pc./pack Diamond Micron Powder

Micron Range μm (Grit)	10 Carats	50 Carats	Micron Range μm (Grit)	10 Carats	50 Carats
80-100 (#200)	55301	55311	6-12 (#1,800)	55306	55316
40-80 (#400)	55302	55312	4-6 (#3,000)	55307	55317
30-40 (#600)	55303	55313	2-4 (#6,000)	55308	55318
20-30 (#900)	55304	55314	0-2 (#14,000)	55309	55319
10-20 (#1,200)	55305	55315	0-1 (#28,000)	55310	55320

1 pc./pack Diamond Compound, Weak Solution



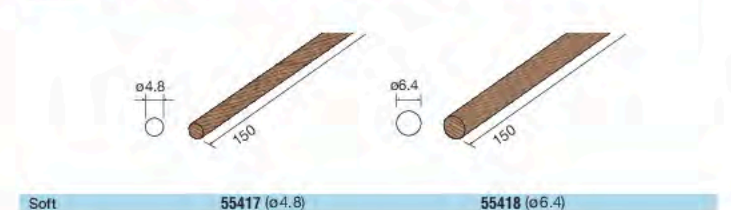
2 pcs./pack Polishing Compound (Solid Type)

For Metals	Applications
Alumina for metal pre-finishing (white rouge) 55341	Aluminum, stainless steel, brass, chrome, etc.
Tripoli for metal pre-finishing (red rouge) 55342	Iron, aluminum, etc.
Chrome oxide for metal finishing (blue rouge) 55343	Precious metals, aluminum, stainless steel, brass, copper alloys, etc.

For Resins	Applications
For resin pre-finishing (white rouge) 55345	For synthetic resins and coated surfaces.
For resin finishing (white rouge) 55346	For synthetic resins and acrylics for coated surfaces.



10 pcs./pack Wood Lapping Sticks (Total Length 150 mm)



1 pc./pack Diamond Ceramic Fiber Grindstone (Total Length 100 mm)

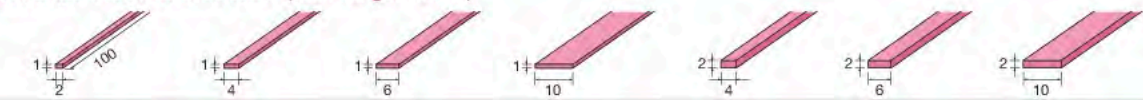
Grit	Color	55471	55481	55485	55491
#200	Black				
#400	Gray	55472	55482	55486	55492
#600	Green	55473	55483	55487	55493

1 pc./pack Ceramic Fiber Grindstone (Total Length 100 mm)

Grit	Color	55514	55524	55534	55554	55574	55584	55594	55604
#180	Ivory								
#300	Brown	55515	55525	55535	55555	55575	55585	55595	55605
#400	Orange	55516	55526	55536	55556	55576	55586	55596	55606
#600	Black	55517	55527	55537	55557	55577	55587	55597	55607
#800	Blue	55518	55528	55538	55558	55578	55588	55598	55608
#1000	White	55519	55529	55539	55559	55579	55589	55599	55609
#1200	Pink	55520	55530	55540	55560	55580	55590	55600	55610


ABRASIVE COMPOUNDS & POLISHING TOOLS

1 pc./pack Ceramic Fiber Grindstone (Total Length 100 mm)



Grit	Color	55614	55624	55654	55684	55724	55744	55764
#180	Ivory	55614	55624	55654	55684	55724	55744	55764
#300	Brown	55615	55625	55655	55685	55725	55745	55765
#400	Orange	55616	55626	55656	55686	55726	55746	55766
#600	Black	55617	55627	55657	55687	55727	55747	55767
#800	Blue	55618	55628	55658	55688	55728	55748	55768
#1000	White	55619	55629	55659	55689	55729	55749	55769
#1200	Pink	55620	55630	55660	55690	55730	55750	55770

2 pcs./pack Special Hand Holder For Ceramic Fiber Grindstones



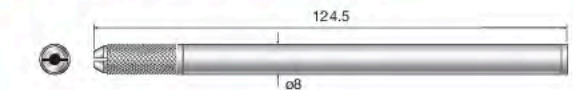
Flat (hold thickness 0.5~2 mm) Weight: 13 g

d	55461
For 2 mm width	55461
For 4 mm width	55462
For 6 mm width	55463
For 10 mm width	55464

4 Types (for 2, 4, 6 and 10 mm width) 55465



1 pc./pack Rounded Hand Holder (Pin Vice)

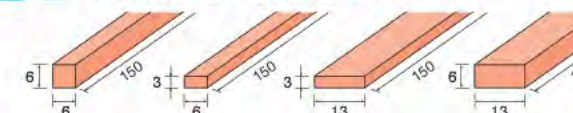


Weight: 22 g

o3 mm 57631

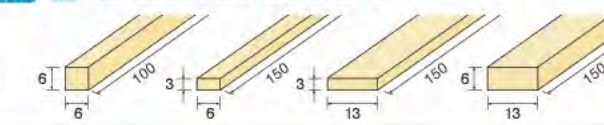
• Attachable shank diameter is $\phi 2.7\sim 3.0$ mm

6 pcs./pack WA Abrasive Fiber Grindstone



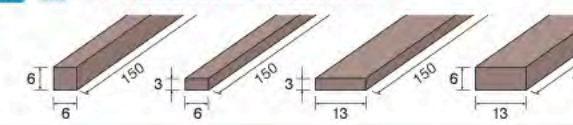
Grit	56156	56161	56166
#150	56156	56161	56166
#220	56122	56157	56162
#320	56123	56158	56163
#400	56124	56159	56164
#600	56125	56160	56165

6 pcs./pack WA Abrasive Fiber Grindstone



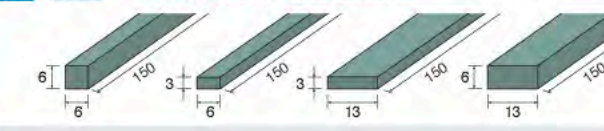
Grit	56231	56241	56245
#120	56231	56241	56245
#180	56217	56232	56246
#220	56218	56233	56247
#320	56219	56234	56248

6 pcs./pack WA Abrasive Fiber Grindstone




Grit	56341	56361	56371	56381
#100	56341	56361	56371	56381
#120	56342	56362	56372	56382
#180	56343	56363	56373	56383
#220	56344	56364	56374	56384
#300	56345	56365	56375	56385
#400	56346	56366	56376	56386

6 pcs./pack GC/Sic Abrasive Fiber Grindstone



Grit	56417	56432	56437	56442
#240	56417	56432	56437	56442
#320	56418	56433	56438	56443
#400	56419	56434	56439	56444
#600	56420	56435	56440	56445

1 pc./pack Electroplated Diamond Sheet (Dot-Pattern Electroplated Type)

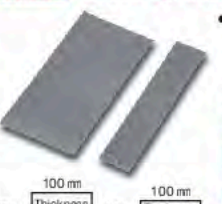


• Strongly bonded diamond-electroplated nickel alloy sheets.

Grit	Grain Diameter	Color	56701
# 60	250 μ	Green	56701
# 120	125 μ	Black	56702
# 200	74 μ	Red	56703
# 400	40 μ	Yellow	56704
# 800	20 μ	Gray	56705

Thickness 0.8 mm

1 pc./pack Electroplated Diamond Sheet (Fully Electroplated Type)




• Ultra-thin copper alloy is used for base material. Diamond abrasive is electroplated on the full sheet.

Grit	Size (mm)		Size (mm)	
	100 x 20	100 x 50	100 x 20	100 x 50
# 120	56731	56741	# 800	56736
# 150	56732	56742	# 800	56737
# 200	56733	56743	# 1,200	56738
# 300	56734	56744	# 1,800	56739
# 400	56735	56745		56749

Thickness 0.3 mm

ABRASIVE COMPOUNDS & POLISHING TOOLS

1 pc./pack Diamond Lapping Film (Film Coated Type)



• Fine grain diamond is coated on a strong polyester film.

Grit	Grain Diameter	Color	56802
# 400	40 μ	Ivory	56802
# 800	25 μ	Ivory	56804
# 1,000	15 μ	Ivory	56805
# 1,500	12 μ	Ivory	56806
# 3,000	6 μ	Ivory	56807

Thickness 0.2 mm

1 pc./pack Felt Sheet



• Ideal for fine finishing with various abrasive compounds.

Thickness	56901
1 mm	56901
2 mm	56902
3 mm	56903

Size: (A4) 210 mm x 300 mm

1 pc./pack Abrasive Embedded Felt Sheet




• Chrome oxide (green rouge) is embedded into the felt sheet.

Thickness	56911
1 mm	56911

Size: (A4) 210 mm x 300 mm

5 pcs./pack Lapping Film Sheet

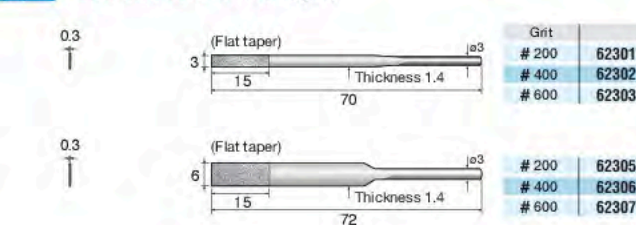


Grit	Grain Diameter	Color	56961
# 320	50 μ	Pink	56961
# 400	40 μ	Ivory	56962
# 600	30 μ	Green	56963
# 800	20 μ	Blue	56964
# 1,000	15 μ	Purple	56965
# 1,200	12 μ	Gley	56966
# 1,500	10 μ	Yellow Ochre	56967
# 3,000	5 μ	Yellow	56968
# 6,000	2 μ	Light Blue	56969
# 10,000	1 μ	Yellow	56970

Size: 280 mm x 220 mm



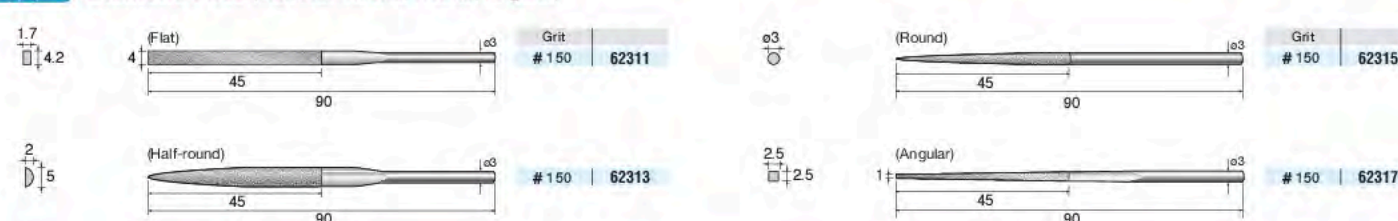
1 pc./pack SHANK $\phi 3.0$ Diamond Files (Flat Taper)



Grit	62301
# 200	62301
# 400	62302
# 600	62303

Thickness 1.4 mm

1 pc./pack SHANK $\phi 3.0$ Diamond Files (Flat, Half-Round, Round, Angular)



Grit	62311
# 150	62311

Thickness 1.4 mm

Grit	62315
# 150	62315

Thickness 1.4 mm

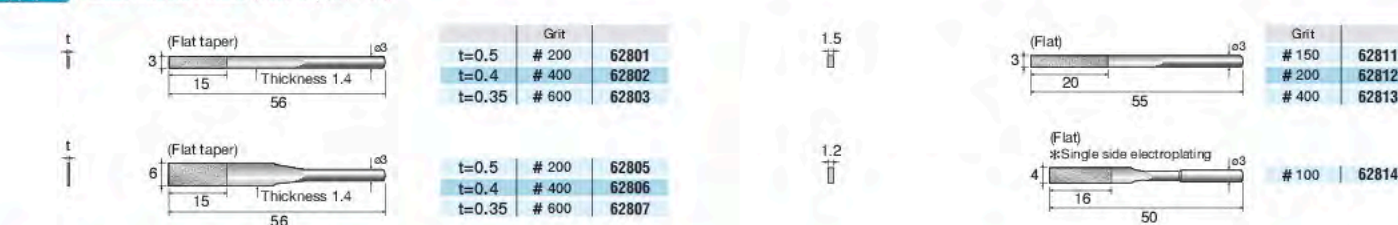
Grit	62313
# 150	62313

Thickness 1.4 mm

Grit	62317
# 150	62317

Thickness 1.4 mm

1 pc./pack SHANK $\phi 3.0$ Diamond Files (Flat Taper, Flat)



Grit	62801
# 200	62801
# 400	62802
# 600	62803

Thickness 1.4 mm

Grit	62805
# 200	62805
# 400	62806
# 600	62807

Thickness 1.4 mm

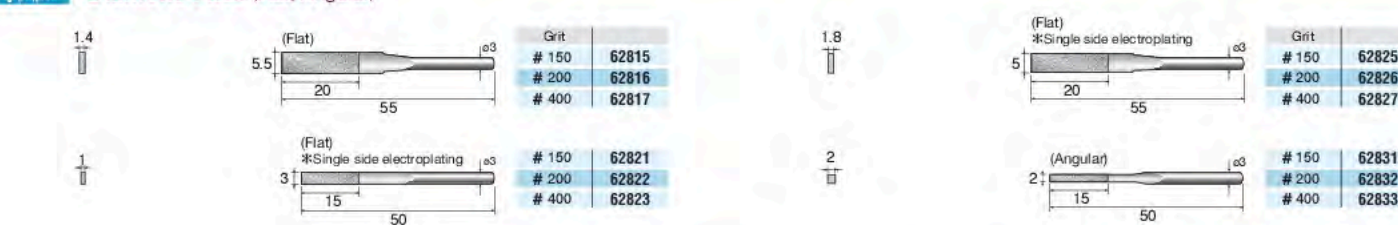
Grit	62811
# 150	62811
# 200	62812
# 400	62813

Thickness 1.4 mm

Grit	62814
# 100	62814

Thickness 1.4 mm

1 pc./pack SHANK $\phi 3.0$ Diamond Files (Flat, Angular)



Grit	62815
# 150	62815
# 200	62816
# 400	62817

Thickness 1.4 mm

Grit	62821
# 150	62821
# 200	62822
# 400	62823

Thickness 1.4 mm

Grit	62825
# 150	62825
# 200	62826
# 400	62827

Thickness 1.4 mm

Grit	62831
# 150	62831
# 200	62832
# 400	62833

Thickness 1.4 mm

ABRASIVE COMPOUNDS & POLISHING TOOLS

SHANK $\phi 3.0$
1 pc./pack **Diamond Files (Round, Round taper)**

$\phi 1$	(Round)	Grit	
		# 100	62840
		# 150	62841
		# 200	62842
$\phi 2$	(Round)	Grit	
		# 150	62845
		# 200	62846
		# 400	62847

$\phi 3$	(Round)	Grit	
		# 150	62851
		# 200	62852
		# 400	62853
$\phi 0.5$	(Round Taper)	Grit	
		# 150	62855
		# 200	62856
		# 400	62857

SHANK $\phi 3.0$
1 pc./pack **Diamond Files (Half-Round, Triangular)**

$\frac{1.5}{4}$	(Half-round)	Grit	
		# 150	62865
		# 200	62866
		# 400	62867
$\frac{2}{4}$	(Half-round)	Grit	
		# 150	62871
		# 200	62872
		# 400	62873

$\frac{2.6}{4}$	(Triangular)	Grit	
		# 150	62881
		# 200	62882
		# 400	62883



Diamond files for precise finishing. Highly durable, they retain sharpness even after long use.

SHANK $\phi 3.0$
1 pc./pack **Diamond Files (Flat Taper)**

$\frac{0.6}{2}$	(Flat taper)	Thickness 1.7	Grit	
			# 200	57101
			# 400	57102
			# 600	57103
$\frac{0.6}{4}$	(Flat taper)	Thickness 1.7	Grit	
			# 200	57104
			# 400	57105
			# 600	57106

SHANK $\phi 3.0$
1 pc./pack **Diamond Files (Flat Taper, Thin Flat, Flat)**

$\frac{0.6}{6}$	(Flat taper)	Thickness 1.7	Grit	
			# 200	57107
			# 400	57108
			# 600	57109
$\frac{0.5}{5.5}$	(Thin flat)		Grit	
			# 150	57110
			# 200	57111
			# 400	57112

$\frac{0.8}{5.5}$	(Thin flat)		Grit	
			# 150	57113
			# 200	57114
			# 400	57115
$\frac{1.4}{6}$	(Flat)		Grit	
			# 120	57116
			# 200	57117
			# 400	57118

SHANK $\phi 1.0, \phi 2.0, \phi 3.0, \phi 3.4$
1 pc./pack **Diamond Files (Round)**

$\phi 1$	(Round)	Grit	
		# 200	57131
		# 400	57132
$\phi 2$	(Round)	Grit	
		# 200	57133
		# 400	57134

$\phi 3$	(Round)	Grit	
		# 120	57135
		# 200	57136
		# 400	57137
$\phi 3.5$	(Round)	Grit	
		# 120	57138
		# 200	57139

SHANK $\phi 3.0, \phi 3.4$
1 pc./pack **Diamond Files (Half-Round)**

$\frac{2}{5}$	(Half-round)	Grit	
		# 120	57141
		# 200	57142
$\frac{2}{6}$	(Half-round)	Grit	
		# 120	57144
		# 200	57145

SHANK $\phi 3.0, \phi 3.4$
1 pc./pack **Diamond Files (Angular)**

$\frac{2.5}{2.5}$	(Angular)	Grit	
		# 120	57151
		# 200	57152
$\frac{3}{3}$	(Angular)	Grit	
		# 200	57154

ABRASIVE COMPOUNDS & POLISHING TOOLS

SHANK $\phi 3.0, \phi 3.4$
1 pc./pack **Diamond Files (Triangular, Elliptical, Blade)**

$\frac{3.5}{3.5}$	(Triangular)	Grit	
		# 120	57155
		# 200	57156
$\frac{4}{4}$	(Triangular)	Grit	
		# 100	57157
		# 200	57158

$\frac{2}{5}$	(Elliptical)	Grit	
		# 120	57160
		# 200	57161
$\frac{1.7}{6}$	(Blade)	Grit	
		# 120	57162
		# 200	57163

SHANK $\phi 3.0$
1 pc./pack **Diamond Files (Sickle Type)**
(Flat, Round, Half-Round, Angular, Triangular)

$\frac{6}{1.5}$	(Flat)	Grit	
		# 150	57171
$\frac{\phi 3}{\phi 3}$	(Round)	Grit	
		# 150	57173

$\frac{1.5}{5}$	(Half-round)	Grit	
		# 150	57175
$\frac{2.5}{2.5}$	(Angular)	Grit	
		# 150	57177
$\frac{3.5}{3.5}$	(Triangular)	Grit	
		# 150	57179

SHANK $\phi 3.0, \phi 3.5$
3 pcs./pack **Precision Finishing Files (Flat, Round, Angular, Triangular, Half-Round)**

Total length The length of file	140mm 70mm		180mm 90mm
	Standard	Fine	Standard
1.3(1.5) $\frac{5.1(6)}{2}$	57301	57311	57321
3(3.5) $\frac{\phi 3}{\phi 3}$	57302	57312	57322
2.5(2.7) $\frac{\phi 3}{\phi 3}$	57303	57313	57323

Total length The length of file	140mm 70mm		180mm 90mm
	Standard	Fine	Standard
3.3(4.1) $\frac{2}{5.6}$	57304	57314	57324
2 $\frac{2}{5.6}$	57305	57315	57325

5 files-pack set
 • Standard (total length 140mm) set (No.57301~No.57305: 1 pc. each) 57309
 • Fine (total length 140mm) set (No.57311~No.57315: 1 pc. each) 57319
 • Standard (total length 180mm) set (No.57321~No.57325: 1 pc. each) 57329

SHANK $\phi 3.0$
3 pcs./pack **Rasps for plastics and wood working (Flat, Round, Angular, Triangular, Half-Round)**

$\frac{2.2}{5.7}$	(Flat)	57401
$\frac{3.8}{5.7}$	(Round)	57402
$\frac{3.3}{5.7}$	(Angular)	57403

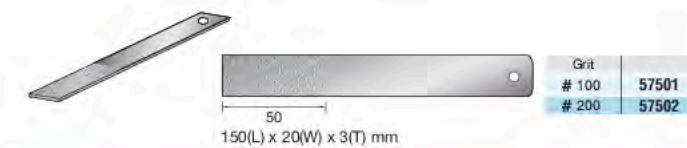
$\frac{3.8}{5.7}$	(Triangular)	57404
$\frac{2.3}{5.7}$	(Half-round)	57405

5 files-pack set
 • Rasps set for plastics and wood working (No.57401~No.57405: 1 pc. each) 57410

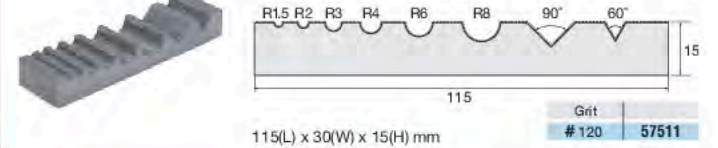
SHANK $\phi 3.0$
1 pc./pack **Special Grip Handle**
 • Attachable shank diameter is $\phi 2\sim 4$ mm



SHANK $\phi 3.0$
1 pc./pack **Diamond Hand Dresser**
 • Light weight, electroplated diamond dresser. Ideally suited to a wide variety of applications.



SHANK $\phi 3.0$
1 pc./pack **Diamond Block Dresser**
 • Can be molded for purpose use, by turning a work with axis, or by vibrating and pushing a stick abrasive material.



ABRASIVE COMPOUNDS & POLISHING TOOLS

1 pc./pack Grindstone Dresser

• Used for dressing diamond / CBN wheels, metal or resin bond.



Handy Type	Size	WA	GC
	Flat Plate Type 75(W) x 25(D) x 8(H) mm	57521 (#80)	57526 (#80)
Stick Type	Mini Type 50(W) x 7(D) x 7(H) mm	57531 (#200)	57536 (#360)
	100(W) x 20(D) x 15(H) mm	57541 (#200)	57546 (#360)

1 pc./pack Natural Diamond Single Stone Dresser

• Used for dressing or shaping standard grindstones.

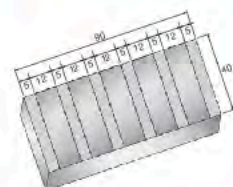


* Shank diameter : $\phi 11$ mm
Length : 100 mm

No. of Carats	Recommended Grindstone Outer Diameter	
1/4 (0.25ct)	$\phi 7.5$ mm	57551
1/2 (0.5ct)	$\phi 1.50 \sim 2.00$ mm	57552
3/4 (0.75ct)	$\phi 2.55 \sim 3.00$ mm	57553
1ct	$\phi 3.00 \sim 3.55$ mm	57554

1 pc./pack Tooling Block Dresser

• Dresser with electroplated diamonds on a block metal surface.



Size	Grit	
90(L) x 40(W) x 20(H) mm	# 80	57571

1 pc./pack Imprint Dresser For Truing

• Used to adjust the grinding surface of diamond, CBN foil and standard grindstones.



Grit	
# 100	57581

NAKANISHI's EXCLUSIVE TOOLS

Exclusive Tools of Ultrasonic Polisher "SHEENUS NEO"



Special electroplated diamond files of Nakanishi's ultrasonic polisher "SHEENUS NEO". Ideal for fine burr removal and rough finishing.

1 pc./pack Electroplated Diamond File

Shape	Thickness	Grit	
Flat taper	0.4	# 200	60101
		# 320	60102
		# 600	60103
Flat	1*	# 200	60105
		# 320	60106
		# 600	60107
Flat bent	1/4	# 200	60111
		# 320	60112
		# 600	60113
Column with the rounded edge	1	# 200	60151
		# 320	60152
		# 600	60153
Column with the rounded edge	2	# 200	60155
		# 320	60156
		# 600	60157
Round taper (cone-shaped)	3	# 200	60181
		# 320	60182
		# 600	60183
Triangular taper (Triangular pyramid)	3	# 200	60185
		# 320	60186
		# 600	60187
Oval taper	2	# 200	60191
		# 320	60192
		# 600	60193
Flat long	1	# 200	60115
		# 320	60116
		# 600	60117
Flat long taper	1	# 200	60231
		# 320	60232
		# 600	60233
Flat long taper	1	# 200	60235
		# 320	60236
		# 600	60237

2 pcs./pack Ceramic Fiber Grindstone (Total Length 50 mm)

• Alumina fiber abrasive with the strength and the flexibility for rough or fine finishing.

Shape	Thickness	Grit	Color	W = 4 mm	W = 6 mm	W = 10 mm	Grit	Color	$\phi 3$ mm
Flat	0.8	# 180	Ivory	60701	60711		# 180	Ivory	63101
		# 300	Brown	60702	60712		# 300	Red	63102
		# 400	Orange	60703	60713		# 400	Orange	63103
		# 600	Black	60704	60714		# 600	Black	63104
		# 800	Blue	60705	60715		# 800	Blue	63105
		# 1,000	White	60706	60716		# 1,000	White	63106
Round	1.0	# 1,200	Pink	60707	60717		# 1,200	Pink	63107

5 pcs./pack Brass Lapping Tip (Total Length 40 mm)

• Lapping tools for finishing using diamond or abrasive compounds.

Shape	Grind diameter	
Round	d = $\phi 2$ mm	60801
	d = $\phi 3$ mm	60802
Flat		60805

*Use after clamping in Special Tip Holder

10 pcs./pack Wood Lapping Tip (Total Length 40 mm)

• Lapping tools for finishing using diamond or abrasive compounds.

Shape	Grind diameter	
Round	$\phi 3$	60811
	$\phi 6$	60815

*Use after clamping in Special Tip Holder

2 pcs./pack Special Tip Holder • Choose by tip size and shape.

Shape	Grind diameter	
Round	d = $\phi 2.0$ mm	60901
	d = $\phi 3.0$ mm	60902
	d = $\phi 3.3$ mm	60903
	d = $\phi 3.2$ mm	60904
Round	d = $\phi 2.0$ mm	60911
	d = $\phi 3.0$ mm	60912
	d = $\phi 3.2$ mm	60913

• Used for round tip (Ceramic Fiber Grindstone, Wood Lapping Tip). Best for soft materials.

• Used for round tip (Brass Lapping Tip, Electroplated Diamond File: ● marked products on P.59). Best for hard materials.

Shape	Grind diameter	
Flat	t = 0.8 mm	60921
	t = 1.0 mm	60922
	t = 2.0 mm	60923
	t = 3.0 mm	60924
	t = 3.3 mm	60925
Flat	t = 1.0 mm	60927

• Used for flat tip (Ceramic Fiber Grindstone, Wood Lapping Tip). Best for both hard and soft materials.

• Used for flat tip (Ceramic Fiber Grindstone).