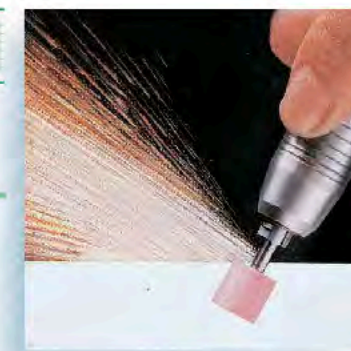


PRECISION PENCIL TYPE MICRO AIR GRINDER

IMPULSE Series

IMPULSE SERIES ◀◀



- ① 60,000 min⁻¹ NSP-601
- ② 40,000 min⁻¹ NA45-400 (60°)
- ③ 23,000 min⁻¹ NA45-230 (60°)
- ④ 23,000 min⁻¹ NA90-230 (90°)



- Best for high precision grinding, because IMPULSE has smooth rotational without the burs runout or vibration, even when motor speed is remarkable high.
- Incorporates a special vane air motor. Motor speed remains stable even under varying loads.
- Silencer on the exhaust air hose keeps the grinder very quiet.
- Use of high precision components in the IMPULSE provides excellent endurance to maintain micron specification.

Mounting & Dismounting Cutting Tool

Insert the spanner provided into the hole on the spindle and open or close the chuck with the Chuck Wrench to exchange the cutting tool.

Exchangeable Collet

Standard Size : $\phi 3.0$ mm (CHS-3.0)
Optional Collets : CHS group $\phi 0.8$ mm~ $\phi 3.175$ mm

Twist Free Hose

To prevent the twisting of hose, 360° Twist-Free Joint connects the motor and the hose.



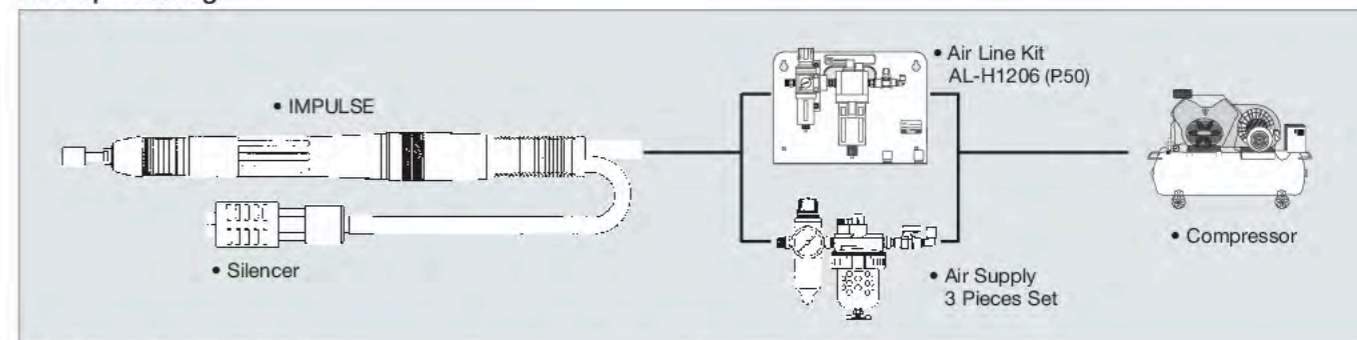
ON / OFF Ring

Easy to switch ON/OFF and to adjust motor speed, turning right & left.

Connecting Part To Air Line Kit

Built in air filter in air inlet coupling (the connection to air line kit).

Set-Up Drawing



■ Use Air Line Kit AL-H1206 or air supply 3 pieces set. (Air Filter, Air Regulator, Lubricator)

IMPULSE AIR GRINDER ◀◀

PRECISION AIR GRINDER

Straight/60° IMPULSE



Straight IMPULSE

60,000 min⁻¹

Code No.	1034
Model	NSP-601

Standard Size Collet

ø3.0 mm (CHS-3.0)

Optional Collets :
CHS group are shown in page (P.56)



- Straight type is designed for high speed precision grinding.
- The front part of the NSP-601 model is made of stainless steel ; the back portion of aluminum alloy.
- The safety design of clamping the chuck up to 29 mm maintains stable rotation of the cutting tool.
- The air motor is assembled with a special vane design which keeps constant speed under load providing stable grinding and polishing operation.

60° IMPULSE

40,000 min⁻¹

Code No.	1035
Model	NA45-400

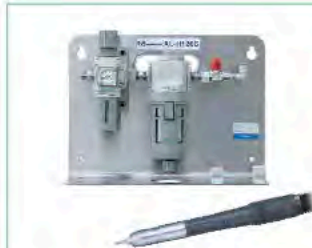
Standard Size Collet

ø3.0 mm (CHS-3.0)

Optional Collets :
CHS group are shown in page (P.56)

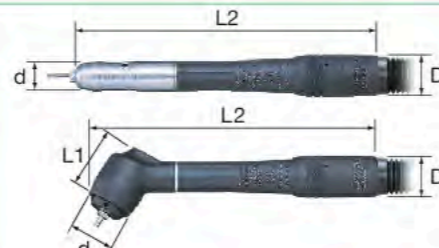


- Angled model housings are all aluminum alloy.
- Ideal for removing sharp edges at corners and surfaces difficult to reach with straight type.



Specifications
 Air Consumption : 165 NL/min
 Proper Air Pressure : 0.4~0.6 MPa
 Inlet Air Hose Length : 1.5 m
 Eraser Hose Length : 1.2 m

Standard Accessories
 • Collet ø3.0 mm (CHS-3.0) : 1 pc.
 • Hose (K-213) : 1.5 m • Silencer (K-208) : 1 pc.
 • Spanner (8 x 5) : 1 pc. • Bar Wrench (K-212) : 1 pc.



Code No.	d	D	L1	L2	Weight	Speed	Collet
1034	ø17	ø23.9	—	168	165 g	60,000 min ⁻¹	ø0.8~ø3.175 mm
1035	ø28.6	ø23.9	39.6	161	210 g	40,000 min ⁻¹	CHS Group (P.56)

IMPULSE AIR GRINDER ◀◀

PRECISION AIR GRINDER

Super Cut IMPULSE



Exclusive Tools P.69 ~72

90° Super Cut IMPULSE

23,000 min⁻¹

Code No.	1036
Model	NA90-230

Standard Size Collet

ø3.0 mm (CHS-3.0)

Optional Collets :
CHS group are shown in page (P.56)

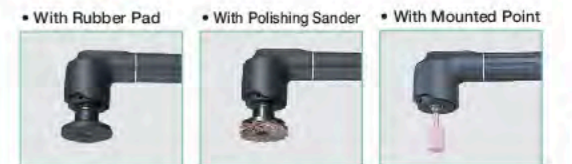


Standard Accessories

Code No.	Description	Package
42423	Mounted Points	1 pc.
64822	Rubber Pad	
64836	Cup Wheel	1 pc./pack
64837	Cup Wheel	
64172	Sand Paper Disk ø31 #120	
64176	Sand Paper Disk ø31 #320	2 pcs./pack
64177	Sand Paper Disk ø31 #600	
64179	Sand Paper Disk ø31 #1000	

▶ Mounted Points → NAKANISHI "POLISHING TOOLS" Catalog
 ▶ Disks → P.69-71

Exclusive Tools P.69 ~72



Please refer to next page.

60° Super Cut IMPULSE

23,000 min⁻¹

Code No.	1037
Model	NA45-230

Standard Size Collet

ø3.0 mm (CHS-3.0)

Optional Collets :
CHS group are shown in page (P.56)

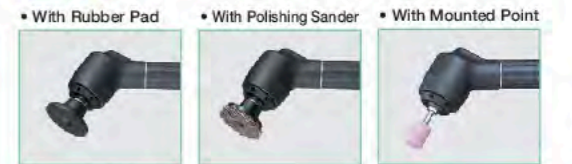


Standard Accessories

Code No.	Description	Package
42423	Mounted Points	1 pc.
64822	Rubber Pad	
64836	Cup Wheel	1 pc./pack
64837	Cup Wheel	
64172	Sand Paper Disk ø31 #120	
64176	Sand Paper Disk ø31 #320	2 pcs./pack
64177	Sand Paper Disk ø31 #600	
64179	Sand Paper Disk ø31 #1000	

▶ Mounted Points → NAKANISHI "POLISHING TOOLS" Catalog
 ▶ Disks → P.69-71

Exclusive Tools P.69 ~72



Please refer to next page.



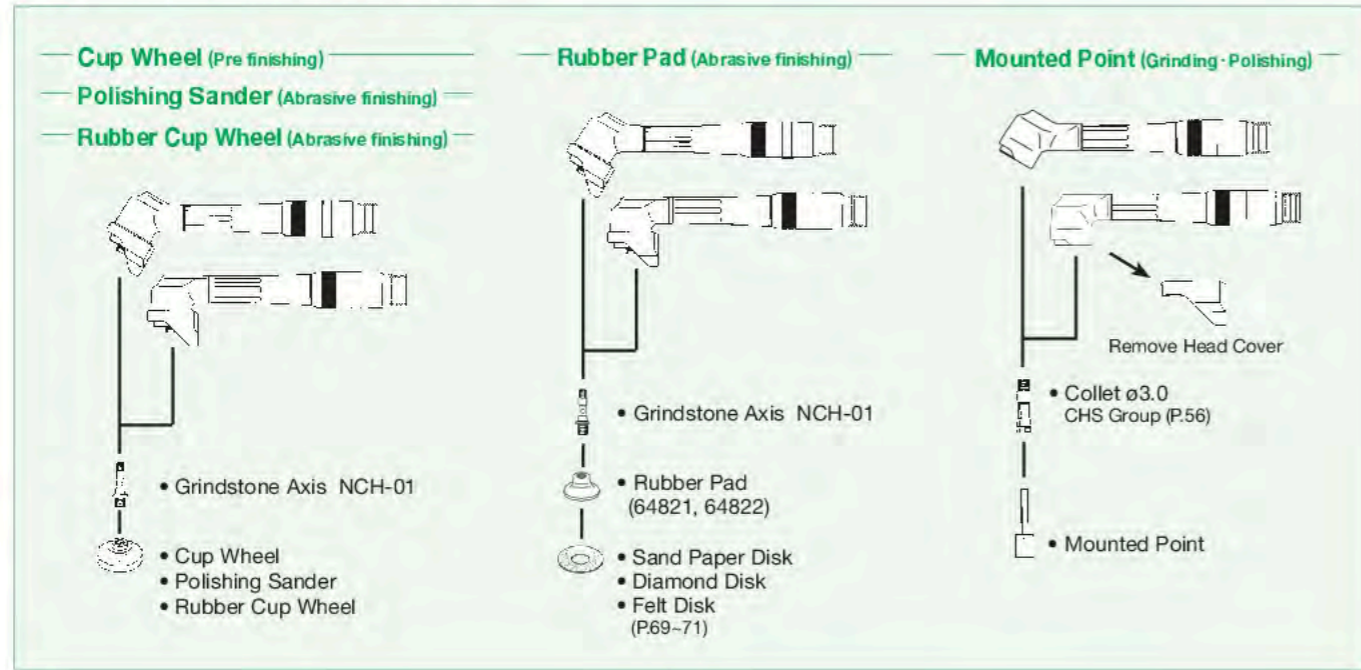
Specifications
 Air Consumption : 165 NL/min
 Proper Air Pressure : 0.4~0.6 MPa
 Inlet Air Hose Length : 1.5 m
 Eraser Hose Length : 1.2 m

Standard Accessories
 • Grindstone Axis (NCH-01) : 1 pc.
 • Silencer (K-208) : 1 pc. • Spanner (8x5) : 1 pc.
 • Bar Wrench (K-212) : 2 pcs. • Hose (K-213) : 1.5 m
 • Allen Wrench (1.5 mm) : 1 pc.



Code No.	d	D	L1	L2	Weight	Speed	Collet
1036	ø33.5	ø23.9	34	156	190 g	23,000 min ⁻¹	ø0.8~ø3.175 mm
1037	ø33.5	ø23.9	39.6	163	190 g	23,000 min ⁻¹	CHS Group (P.56)

The Exchangeable Attachment Chart



Rubber Pad

- Disks are pasted on the Rubber Pad. (P.69~71)



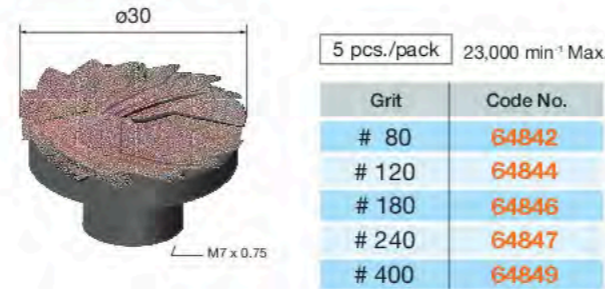
Cup Wheel

- For pre finishing.



Polishing Sander

- Abrasive Disk for high speed rotation is made from overlapping abrasive cloths.



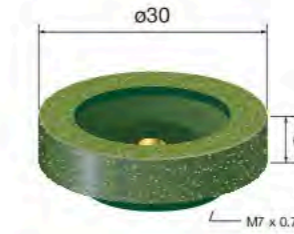
Convenient Assorted set for trial polishing
All grain size (5 types x each 1 pc.)
Total 5 pcs.-pack
Code No. **64850** 5 pcs./pack

Rubber Cup Wheel

- Rubber Cup Wheel with high elasticity for grinding & polishing.



NA90-230



10 pcs./pack 23,000 min⁻¹ Max.

Grit	Color	Code No.
# 60	Brown	64851
# 80	Red	64852
# 120	Blue	64853
# 180	Olive	64854
# 220	Green	64855
# 320	Brown	64856

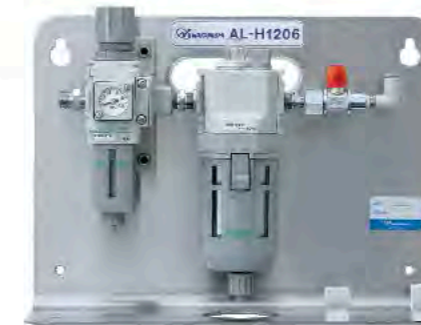
Convenient Assorted set for trial polishing
All grain size (6 types x each 2 pcs.)
Total 12 pcs.-pack
Code No. **64859** 12 pcs./pack

Air Line Kit (Automatic Lubricating Device)

Code No. **4506**

Model **AL-H1206**

- Standard Accessories
- Air Pressure Gauge
 - Air Regulator
 - Air Filter
 - Lubricator
 - Air ON-OFF Valve
 - Piping Hose (K-275) : 2 m
 - Lubricating Oil (K-211) : 1 pc.



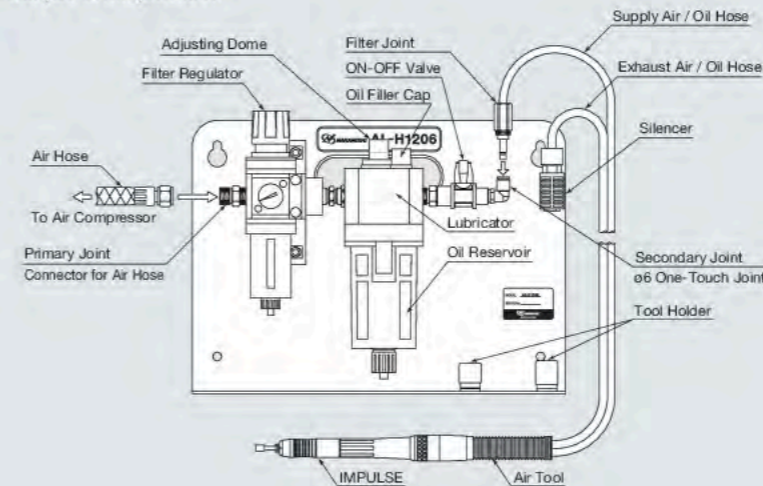
300(W) x 120(D) x 220(H) mm

- Supplies the smooth air flow and automatic lubrication for long life and the stable power.
- By adjustment of auto lubrication & air flow, this will extend the lifetime of air grinder.
- Best for grinding and polishing processes, AL-H1206 air line kit has a compact body with a carrying handle and holder to put the IMPULSE in.

Weight : 2.2 kg Filter Mesh : 5 μ m

Piping Connection Diagram

- Use Air Line Kit AL-H1206 or air supply 3 pieces set. (Air Filter, Air Regulator, Lubricator)
- Coupler is not provided.



IMPULSE Series Spare Parts

Product	Description	Code No.	Model	Fit to
	Grindstone Axis (for Cup Wheel & Rubber Pad)	1045	NCH-01	IMPULSE
	Head Cover	1043	CNA	IMPULSE
	Hose 1.5 m	1038	K-213	IMPULSE
	Silencer Small (w/Metal Fittings)	1061	K-208	IMPULSE
	Spanner 8 x 5	2012	—	IMPULSE
	Bar Wrench (72 mm)	2013	K-212	IMPULSE
	Allen Wrench (1.5 mm)	—	—	IMPULSE Available in the market
	Lubricating Oil (70cc)	1057	K-211	For Air Line Kit AL-H1206
	Lubricating Oil (1L)	1058	K-202	

PRESTO II AIR TURBINE GRINDER ◀◀

ULTRA-HIGH SPEED AIR TURBINE GRINDER

PRESTO II

320,000 min⁻¹ ø1.6 mm Bur Only

- Ultra high speed 320,000 min⁻¹ non-lube air turbine.
- It is most suitable for precision processing works such as small precision parts, ceramic, correction of printed circuit board, etc. due to its non-lube handpiece.
- Flexible tubing ensures excellent workability reducing fatigue to the operator's hand for long continuous use.



PRESTO II Standard Set

Code No. **1125**

Model **PR2-304S**

- Standard Equipment
- Presto Handpiece (PR-304) : 1 pc.
 - Air Line Kit (PR2-06) : 1 pc.
 - Foot Controller (AFC-40) : 1 pc.
 - Handpiece Holder (Z014) : 1 pc.



Specifications

Rotating Speed	: 320,000 min ⁻¹
Proper Air Pressure	: 0.25 MPa
Air Consumption	: 40 NL/min
Inside Diameter	: ø1.6 mm Bur Only
Filter Mesh	: 5 μm

PRESTO Handpiece

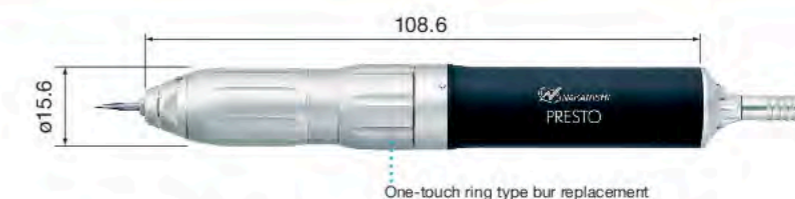
320,000 min⁻¹

Code No. **1122**

Model **PR-304**

- ◆ Weight : 71 g (w/o Hose)

- Standard Accessories
- 2 m Hose



- ◆ Ultra-high speed no lube air turbine handpiece ideal for delicate processing application.
- ◆ Built-in dust protect mechanism developed by NAKANISHI ensures long durability.
- ◆ Chip air blows away the cutting powder and cools the cutting tool.
- ◆ Flexible tubing ensures excellent workability reducing fatigue to the operator's hand for long continuous use.

PRESTO II Spare Parts

Product	Description / Specifications	Code No.	Model
	PRESTO II Air Line Kit (w/o Lubricator / Filter Mesh 5 μm)	1126	PR2-06
	PRESTO II Cartridge	1120	PR-03
	Foot Controller	1124	AFC-40
	Piping Hose (ø6.0) 2 m Long	2041	K-237
	Air Turbine Hose (ø5.1) 2 m Long	2042	K-238
	Pin Spanner	2002	T-751

ø1.6 mm tools for PRESTO II
Please see the NAKANISHI "POLISHING TOOLS" Catalog



Precautions for using Nakanishi Tools

For safe use of the tools



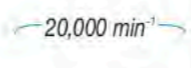

- Please read operation manuals before using any tools.
- Please keep all operation manuals on hand for reference whenever necessary.

Caution Incorrect use of the tools, or ignoring 'CAUTIONS for safety' described in the operating manuals, could cause fatal or serious bodily injury.

CAUTIONS

 Always use safety glasses, mask, face guard for your safety.	 Fasten the collet firmly. Make sure the tool is fully installed in the collet to avoid tool slippage.										
 Do not touch the tools when in operation. Make sure the work area is neat and there is sufficient light.	 Do not use damaged or broken electric cords and air hoses.										
 Do not use the tool where flammable liquids or gases exist.	 Start at low speed and increase gradually to insure safe work. This is particularly important for the use of new tools, large cutting tools and elastic tools such as rubber grindstone, sander and brush tools.										
 Do not leave operating tools. Confirm that the tool has stopped completely after switching off.	 Keep the tools and products in a cool, dry place.										
 Select proper tools and products for your application. Select tools carefully considering the performance of the tools, work procedure and type/shape of the material.	 Check the tools carefully before use. Confirm that the tools are free of chips, cracks, splits, scratches, irregular bondings, and out of round shanks, etc.										
 Fix the work material firmly in a vise and/or other clamping fixture.	 Stop grinding or polishing immediately whenever unusual sounds, vibrations, or wear are found. Restart the work only after the problem is found and corrected.										
 Do not wear loose clothing and/or accessories that may be caught in machinery. Long hair should be secured prior to machine operation.	 Only use attachments, parts, consumable articles and accessories produced by NAKANISHI.										
 Check all tools carefully before use. Clean the inside of the collet and tool shank, chips or fine metals inside the collet could cause tool slippage and result in damage to machinery or bodily injury.	 Do not apply high pressure to or pry with the tools. This can break and/or bend the tools. Use the tools within their design limitation. Excessive pressure will decrease the efficiency of your work and cause excessive wear of the tools.										
 The tools should be used by taking care of the overhang and below maximum allowable speed. The catalogue shows the maximum allowable speed at 13 mm overhang (distance between the face of the collet and the top of the tool shank).	Decrease the speed as shown in the table below, if you are using a longer overhang than 13 mm. <table border="1" data-bbox="771 1869 1305 1984"> <thead> <tr> <th>Overhang</th> <th>Maximum allowable speed (min⁻¹)</th> </tr> </thead> <tbody> <tr> <td>Less than 13 mm</td> <td>Shown in the catalogue (A)</td> </tr> <tr> <td>Less than 20 mm</td> <td>(A) x 0.5</td> </tr> <tr> <td>Less than 25 mm</td> <td>(A) x 0.3</td> </tr> <tr> <td>Less than 50 mm</td> <td>(A) x 0.1</td> </tr> </tbody> </table>	Overhang	Maximum allowable speed (min ⁻¹)	Less than 13 mm	Shown in the catalogue (A)	Less than 20 mm	(A) x 0.5	Less than 25 mm	(A) x 0.3	Less than 50 mm	(A) x 0.1
Overhang	Maximum allowable speed (min ⁻¹)										
Less than 13 mm	Shown in the catalogue (A)										
Less than 20 mm	(A) x 0.5										
Less than 25 mm	(A) x 0.3										
Less than 50 mm	(A) x 0.1										

Symbols used in NAKANISHI Tools Catalogue

	Shank Diameter Shows shank diameter of the tools. Nakanishi produces tools with several shank diameters. * Nakanishi micro grinders utilize a collet system, which insures maximum precision. Therefore, please use the collet that best corresponds to the tool shank diameter.
	Standard Package One package is the minimum shipping unit. This number shows the number of pieces in the standard package (bag, box and etc.). Please order the number of packages needed for the desired quantity.
	Maximum allowable speed Do not exceed the maximum allowable tool speed. For your safety, use the tools below the indicated allowable speed. Start at low speed and increase gradually to insure safety. The preceding is particularly important for the use of new tools and machines. * Maximum allowable speed assumes an overhang of less than 13mm. Decrease speed if the overhang is more than 13mm. Refer to "Precautions for using Nakanishi Tools" on the next page. * Check the tools and machinery for mechanical defects prior to each use.
	Grit This shows grain size of various grinding tools. Rough Cutting 46, 54, 60, 70, 80, 90 Medium Cutting 100, 120, 150, 180 Pre Finishing 220, 240, 280, 320, 400 Finishing 500, 600, 700, 800, 1000 Fine Finishing and Mirror Polishing 1200, 1500, 1800, 2000, 3000, 4000, 6000, 8000

Code No. **62801** — End Code number on each page

NAKANISHI's EXCLUSIVE TOOLS

1 pc. Electroplated Diamond File

Part	Thickness	Grain	Code	Angle
Part 1.4	0.2mm / 0.3mm	#200 / #400	62801 / 62802	45°
Part 1.4	0.2mm / 0.3mm	#200 / #400	62801 / 62802	90°
Part 1.5	0.2mm / 0.3mm	#100 / #200 / #400	62811 / 62812 / 62813	45°
Part 1.5	0.2mm / 0.3mm	#100 / #200 / #400	62811 / 62812 / 62813	90°
Part 1.4	0.2mm / 0.3mm	#100 / #200 / #400	62815 / 62816 / 62817	45°
Part 1.4	0.2mm / 0.3mm	#100 / #200 / #400	62821 / 62822 / 62823	90°
Part 1.6	0.2mm / 0.3mm	#100 / #200 / #400	62825 / 62826 / 62827	45°
Part 1.6	0.2mm / 0.3mm	#100 / #200 / #400	62825 / 62826 / 62827	90°

Exclusive Tools of "50° & 90° ANGLE"
Special tools for Nakanishi Micro-grinder "Angle Attachment". Highly efficient for grinding, polishing, finishing, etc.

15 pcs. Special Rubber Pad For Abrasive and ...

SHANK Ø3.0 — Shank diameter of the tool

20,000 min⁻¹ — Maximum allowable speed

130 — Total length of the tool (mm)

Note: Specifications may be changed without notice. Colors of the tools in this catalogue may not be the same as actual colors due to printing limitations.

NAKANISHI's EXCLUSIVE TOOLS

NAKANISHI's EXCLUSIVE TOOLS

Exclusive Tools of Electromotive Polisher **"LUSTER", "MINI-LUSTER", "SWING-LUSTER"**



LUSTER

Best for finishing large open work areas.

1 pc./pack Stone Holder



62502
Maximum clamping thickness 4.5 x Width 11 mm

62505
Maximum clamping thickness 11 x Width 13.5 mm
Angle can be freely set (90°)

SHANK ø3.0
1 pc./pack Electroplated Diamond File

Flat taper Thickness 1.4 # 200 62301 # 400 62302 # 600 62303	Half-round # 150 62313
Flat taper Thickness 1.4 # 200 62305 # 400 62306 # 600 62307	Round # 150 62315
Flat # 150 62311	Angular # 150 62317

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

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

Grit	Color	W = 4 mm	W = 6 mm	Grit	Color	W = 4 mm	W = 6 mm	W = 10 mm	Grit	Color	ø3 mm
# 180	Ivory	60701	60711	# 180	Ivory	60721	60731	62961	# 180	Ivory	63101
# 300	Brown	60702	60712	# 300	Brown	60722	60732	62962	# 300	Red	63102
# 400	Orange	60703	60713	# 400	Orange	60723	60733	62963	# 400	Orange	63103
# 600	Black	60704	60714	# 600	Black	60724	60734	62964	# 600	Black	63104
# 800	Blue	60705	60715	# 800	Blue	60725	60735	62965	# 800	Blue	63105
# 1,000	White	60706	60716	# 1,000	White	60726	60736	62966	# 1,000	White	63106
# 1,200	Pink	60707	60717	# 1,200	Pink	60727	60737	62967	# 1,200	Pink	63107

1 pc./pack Diamond File Flat Type

* Use with stone holder No.62502.

# 150 62351	# 150 62355
# 200 62352	# 200 62356
# 400 62353	# 400 62357
	# 150 62361
	# 200 62362
	# 400 62363

1 pc./pack Ceramic Fiber Grindstone Holder - Grindstone Holder

Maximum clamping thickness 1 x Width 4 mm 62506	Maximum clamping thickness 1 x Width 10 mm 62508	Grindstone Holder Maximum clamping thickness 3 x Width 6 mm 62509
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SHANK ø3.0, ø3.5
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	Fine
1(1.3) 5(6) (Flat)	57301	57311	57321	57324
3(3.5) (Round)	57302	57312	57322	57325
2.5(2.7) (Angular)	57303	57313	57323	

5 files-pack set

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

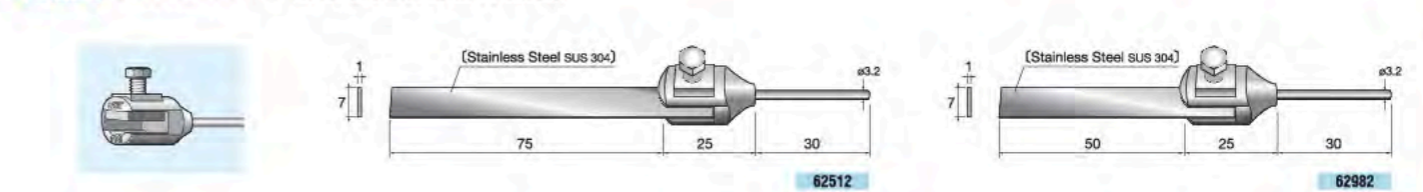
SHANK ø3.0
3 pcs./pack Rasps for plastics and wood working (Flat, Round, Angular, Triangular, Half-Round)

2.2 5.7 (Flat)	57401	3.8 (Triangular)	57404
3.8 (Round)	57402	2.3 5.7 (Half-round)	57405
3.3 (Angular)	57403		

5 files-pack set

- Rasps set for plastics and wood working for plastics and woodworking (No.57401~No.57405 : 1pc. each) **57410**

1 pc./pack Flat Holder • Tip for use with abrasive sheets.

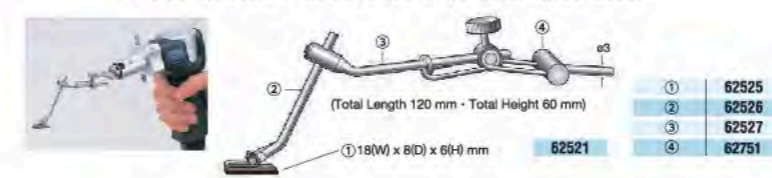


62512

62982

1 pc./pack Angular Pad Holder

• Holder for use with abrasive tips for polishing flat surfaces.



(Total Length 120 mm · Total Height 60 mm)

①	62525
②	62526
③	62527
④	62751

① 18(W) x 8(D) x 6(H) mm

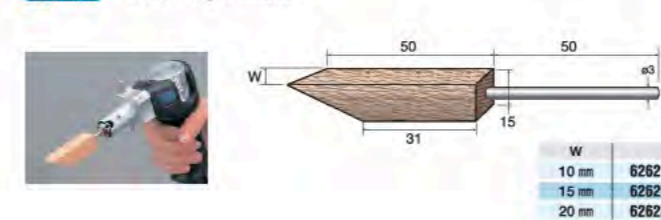
Abrasive Tip (For Flat Holder and Angular Pad Holder)

100 pcs./pack Sand Paper Tip

Grit	#	Grit	#
# 120	62552	# 600	62557
# 180	62553	# 1,000	62559
# 320	62555	# 1,500	62560

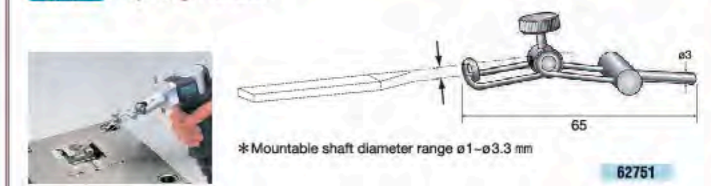
Adhesive Back

3 pcs./pack Wood Tip Holder



W	#
10 mm	62621
15 mm	62622
20 mm	62623

1 pc./pack Spring Holder



* Mountable shaft diameter range ø1~ø3.3 mm

62751

NAKANISHI's EXCLUSIVE TOOLS

SHANK $\phi 3.0$
1 pc./pack Electroplated Diamond File

Thickness	Grit	Part No.	Angular	Grit	Part No.
Flat taper	0.5 mm	# 200	Angular	# 150	62831
	0.4 mm	# 400		# 200	62832
	0.35 mm	# 600		# 400	62833
Flat taper	0.5 mm	# 200	Round	# 100	62840
	0.4 mm	# 400		# 150	62841
	0.35 mm	# 600		# 200	62842
Flat		# 150	Round	# 150	62845
		# 200		# 200	62846
		# 400		# 400	62847
Flat (Single side electroplating)		# 100	Round	# 150	62851
		# 200		# 200	62852
		# 400		# 400	62853
Flat		# 150	Round taper	# 150	62855
		# 200		# 200	62856
		# 400		# 400	62857
Flat (Single side electroplating)		# 150	Half-round	# 150	62865
		# 200		# 200	62866
		# 400		# 400	62867
Flat (Single side electroplating)		# 150	Half-round	# 150	62871
		# 200		# 200	62872
		# 400		# 400	62873
Flat (Single side electroplating)		# 150	Triangular	# 150	62881
		# 200		# 200	62882
		# 400		# 400	62883

NAKANISHI's EXCLUSIVE TOOLS

100 pcs./pack **Zirconium Disk**
• Best for finishing aluminum, stainless steel, copper alloy, brass, etc.

Grit	$\phi 11$	$\phi 21$	$\phi 31$
# 60	64251	64261	64271
# 80	64252	64262	64272
# 120	64253	64263	64273
# 150	64254	64264	64274

Adhesive Back

20 pcs./pack **Fiber Disk**
• Soft finishing can be done on flat & curved surfaces, due to superior flexibility.

Grit	Color	$\phi 11$	$\phi 21$	$\phi 31$
# 120	Brown	64281	64291	64301
# 240	Violet	64282	64292	64302
# 320	Red Brown	64283	64293	64303
# 600	Dark Blue	64284	64294	64304
# 800	Gray	64285	64295	64305
# 1,000	Orange	64286	64296	64306

*Thickness 3 mm Adhesive Back

20 pcs./pack **Felt Disk**
• Ideal for finishing using abrasives and diamond compounds.

Description	$\phi 11$	$\phi 21$	$\phi 31$
Soft Type Felt Disk (1mm thickness)	64331	64332	64333
Soft Type Felt Disk (2mm thickness)	64335	64336	64337

Adhesive Back

20 pcs./pack **Felt Disk Chromium Oxide (Blue Rouge) Embedded Type**
• Useful for speedy finishing because of Chromium Oxide (Blue Rouge) Embedded.

Description	$\phi 11$	$\phi 21$	$\phi 31$
Felt Disk Chromium Oxide (Blue Rouge) Embedded Type (2mm thickness)	64341	64342	64343

Adhesive Back

20 pcs./pack **Rubber Points Disk**
• Best for coarse finishing, pre-finishing with great polishing power.

Grit	Color	$\phi 20$	$\phi 30$
# 60	Brown	64391	64401
# 80	Red	64392	64402
# 120	Dark Green	64393	64403
# 180	Olive	64394	64404
# 220	Green	64395	64405
# 320	Brown	64396	64406

*Thickness 3 mm. Adhere to special rubber pads and use. Adhesive Back.

Exclusive Tools of "60° & 90° ANGLE"
Special tools for Nakanishi Micro-grinder "Angle Attachment". Highly efficient for grinding, polishing, finishing, etc.

SHANK $\phi 3.0$
5 pcs./pack **Special Rubber Pad For Abrasive and Felt Disks**

Part No.	Size
64101	$\phi 10$
64102	$\phi 20$
64103	$\phi 30$

SHANK $\phi 3.0$
5 pcs./pack **Mounted Rubber Disks (Rubber Pad Integration)**
• Moderately hard abrasive grain have great polishing ability.

For finishing	Grit	Color	WA	GC
# 80	Pink	64411	64421	
# 120	Blue	64412	64422	
# 180	Yellow	64413	64423	
# 220	Green	64414	64424	
# 320	Purple	64415	64425	
# 500	Brown	64416	64426	

For preliminary finishing (Fast grinding)

Grit	Color	WA
# 80	Black (Red Line)	64431
# 120	Black (Blue Line)	64432

100 pcs./pack **Sand Paper Disk**
Cloth Type
• For Metals ... Both for dry and wet finishing (Adhesive is resistant to water and oil)

Grit	$\phi 11$	$\phi 21$	$\phi 31$
# 60	64111	64121	64141
# 80	64112	64122	64142
# 120	64113	64123	64143
# 180	64114	64124	64144
# 240	64115	64125	64145
# 320	64116	64126	64146
# 400	64117	64127	64147
# 600	64118	64128	64148
# 800	64119	64129	64149
# 1,000	64120	64130	64150

Adhesive Back

Paper Type
• For Metals ... Both for dry and wet finishing (Adhesive is resistant to water and oil)

Grit	$\phi 11$	$\phi 21$	$\phi 31$
# 80	64131	64151	64171
# 120	64132	64152	64172
# 180	64133	64153	64173
# 240	64134	64154	64174
# 320	64135	64155	64175
# 400	64136	64156	64176
# 600	64137	64157	64177
# 800	64138	64158	64178
# 1,000	64139	64159	64179
# 1,500	64140	64160	64180

Adhesive Back

Paper Type
• Dry type ... For Metal, Woodwork, Paint, Putty polishing, Dry use

Grit	$\phi 11$	$\phi 21$	$\phi 31$
# 80	64201	64211	64221
# 120	64202	64212	64222
# 180	64203	64213	64223
# 240	64204	64214	64224
# 320	64205	64215	64225
# 400	64206	64216	64226
# 600	64207	64217	64227

Adhesive Back

1 pc./pack **Diamond Disk (Fully Electroplated Type)**
• Superior in sharpness and durability.

Grit	$\phi 11$	$\phi 21$	$\phi 31$
# 100	64451	64461	64471
# 140	64452	64462	64472
# 200	64453	64463	64473
# 280	64454	64464	64474
# 400	64455	64465	64475
# 600	64456	64466	64476
# 800	64457	64467	64477
# 1,000	64458	64468	64478

Adhesive Back

1 pc./pack **Diamond Disk (Dot Electroplated Type, Wet Type)**
• Electroplated nickel-alloy pellet is strongly adhered to resin base.

Grit	Color	$\phi 11$	$\phi 21$	$\phi 31$
# 60	Green	64501	64511	64521
# 120	Black	64502	64512	64522
# 200	Red	64503	64513	64523
# 400	Yellow	64504	64514	64524
# 800	Gray	64505	64515	64525

Adhesive Back

NAKANISHI's EXCLUSIVE TOOLS

3 pcs./pack Resin Bond Diamond Disk Star Pattern

Grit	ø11	ø21	ø31
# 80	64531	64541	64551
# 120	64532	64542	64552
# 180	64533	64543	64553
# 240	64534	64544	64554
# 400	64535	64545	64555
# 600	64536	64546	64556
# 800	64537	64547	64557
# 1,000	64538	64548	64558
# 2,000	64539	64549	64559

Adhesive Back

*Patterns maybe changed without notice

3 pcs./pack Lapping Film Disk Diamond Abrasive

Grit	Color	ø11	ø21	ø31
# 400	Ivory	64601	64606	64611
# 800	Ivory	64602	64607	64612
# 1,500	Ivory	64603	64608	64613
# 3,000	Ivory	64604	64609	64614

Adhesive Back

50 pcs./pack Lapping Film Disk WA Abrasive

Grit	Color	ø11	ø21	ø31
# 320	Pink	64621	64626	64631
# 600	Green	64622	64627	64632
# 1,000	Orange	64623	64628	64633
# 1,500	Olive	64624	64629	64634
# 3,000	Violet	64625	64630	64635

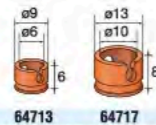
Adhesive Back

SHANK ø3.0



Plastic and brass lapping rings for use with abrasive and diamond compounds.

10 pcs./pack Replacement Plastic Ring



64713 64717

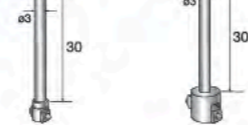
5 pcs./pack Replacement Brass Ring



64723 64727

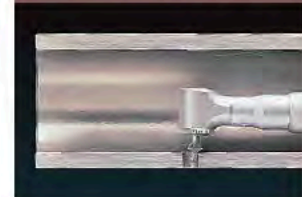
1 pc./pack Replacement Holder

For internal diameter ø6 mm For internal diameter ø10 mm



64731 64732

Exclusive Tools of "90° MINI ANGLE TYPE ATTACHMENT"



Steel cutters for radius grinding of deep cross holes for "Mini-Angle attachment". Ideal for radius grinding of holes or removing burrs from cross jigs, precision parts and inside surfaces of pipes.



MINI ANGLE TYPE Attachment (Very Small Head)
MINI ANGLE TYPE Attachment

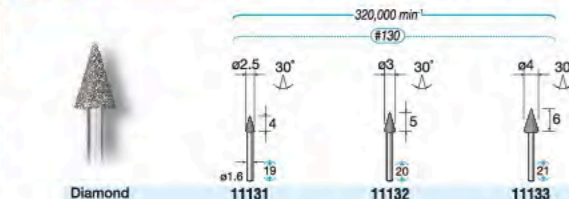
SHANK ø1.6

1 pc./pack Steel Cutters For Deep Cross Hole Finishing

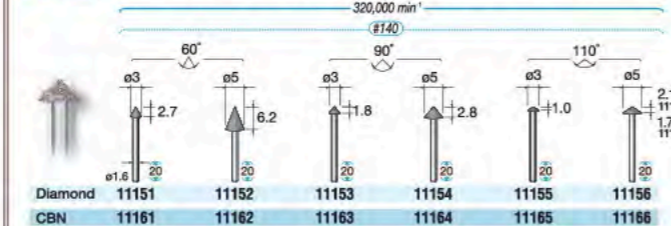


SHANK ø1.6

1 pc./pack Diamond Coated Burs For Deep Cross Hole Finishing



5 pcs./pack Diamond and CBN Coated Burs For Deep Cross Hole Finishing



NAKANISHI's EXCLUSIVE TOOLS

Exclusive Tools of "IMPULSE"

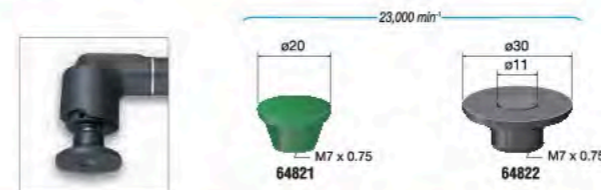


Special tools for Nakanishi Micro-grinder "IMPULSE". Excellent for grinding or polishing flat surfaces, edges with Nakanishi's high-power air grinder.

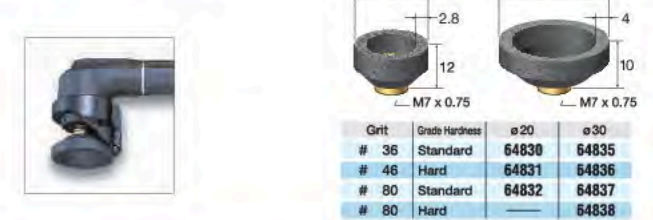


90° ANGLE IMPULSE · NA90-230
60° ANGLE IMPULSE · NA45-230

5 pcs./pack Special Rubber Pad for Disk Abrasives



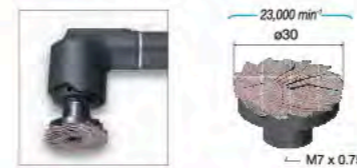
12 pcs./pack Cup Wheel



Grit	Grade Hardness	ø20	ø30
# 36	Standard	64830	64835
# 46	Hard	64831	64836
# 80	Standard	64832	64837
# 80	Hard	—	64838

5 pcs./pack Polishing Sander

Abrasive Disk for high speed rotation is made from overlapping abrasive cloths.

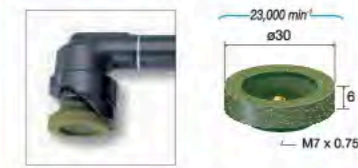


Grit	
# 80	64842
# 120	64844
# 180	64846
# 240	64847
# 400	64849

Convenient Assorted set for trial polishing
All grain size (5 types x each 1 pc.)
Total 5 pcs.-pack 64850

10 pcs./pack Rubber Cup Wheel

Rubber Cup Wheel with high elasticity for grinding & polishing.



Grit	Color	ø20	ø30
# 60	Brown	64851	—
# 80	Red	64852	—
# 120	Blue	64853	—
# 180	Olive	64854	—
# 220	Green	64855	—
# 320	Brown	64856	—

Convenient Assorted set for trial polishing
All grain size (6 types x each 2 pcs.)
Total 12 pcs.-pack 64859

Exclusive Tools of "FINE BELT SANDER"



FINE BELT SANDER Attachment

30 pcs./pack Abrasive Belts

High Quality Abrasive Belts are superior in grinding & durability.

For Grinding or Polishing of Metals (Length 300 mm)			
Grit	W = 4 mm	W = 6 mm	W = 8 mm
# 80	64901	64911	64921
# 120	64902	64912	64922
# 180	64903	64913	64923
# 240	64904	64914	64924
# 320	64905	64915	64925
# 400	64906	64916	64926
# 600	—	—	64927
# 800	—	—	64928

For Woodwork (Length 300 mm)	
Grit	8 mm Width
# 80	64941
# 120	64942
# 240	64943

Assorted set for preliminary finishing (● Mark)
Grain size (4 types x each 10 pcs.), W = 8 mm
Total 40 pcs.-pack 64931

Assorted set for finishing (● Mark)
Grain size (4 types x each 10 pcs.), W = 8 mm
Total 40 pcs.-pack 64932

Assorted set for woodwork
All grain size (3 types x each 10 pcs.)
Total 30 pcs.-pack 64955

NAKANISHI's EXCLUSIVE TOOLS

3 pcs./pack Diamond Belt


• For grinding and polishing of Carbide, Hardened steel, Steel, Special steels, Ceramic, FRP, etc.



Hard Type (Length 300 mm)

Grit	8 mm Width
# 80	65011
# 120	65012
# 240	65014
# 320	65015
# 600	65017

• **Assorted set**
All grain size (5 types x each 1 pc.)
Total 5 pcs.-pack **65019**



Soft Type (Length 300 mm)

Grit	8 mm Width	Grit	8 mm Width
# 120	65021	# 600	65025
# 180	65022	# 800	65026
# 240	65023	#1,000	65027
# 320	65024		
# 400	65028		

• **Assorted set**
All grain size (8 types x each 1 pc.)
Total 8 pcs.-pack **65030**

30 pcs./pack Zirconium Belt

• Best for polishing aluminum, stainless steel, brass



(Length 300 mm)

Grit	8 mm Width
# 80	64971
# 100	64972
# 120	64973

• **Assorted set**
All grain size (3 types x each 10 pcs.)
Total 30 pcs.-pack **64975**

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