

# NAKANISHI HAND-TOOL IMPULSE

SRS / head&tail



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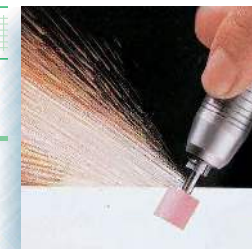
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Nature of Tochigi, Japan

PRECISION PENCIL TYPE MICRO AIR GRINDER

# IMPULSE Series

## IMPULSE SERIES ◀◀



- ① 60,000 min<sup>-1</sup> NSP-601
- ② 40,000 min<sup>-1</sup> NA45-400 (60°)
- ③ 23,000 min<sup>-1</sup> NA45-230 (60°)
- ④ 23,000 min<sup>-1</sup> 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 : ø3.0 mm (CHS-3.0)  
Optional Collets : CHS group ø0.8 mm~ø3.175 mm

### Twist Free Hose

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



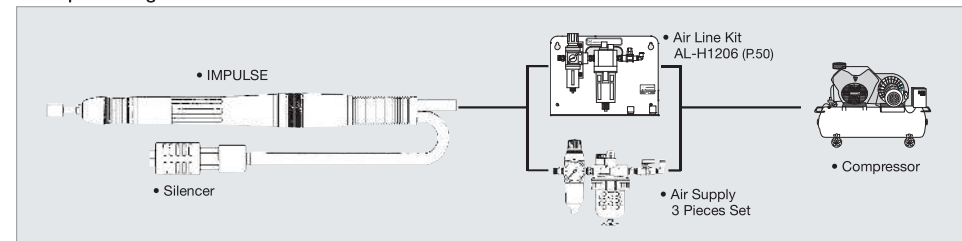
### ON / OFF Ring

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<sup>-1</sup>**

Code No.	<b>1034</b>
Model	<b>NSP-601</b>

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<sup>-1</sup>**

Code No.	<b>1035</b>
Model	<b>NA45-400</b>

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.

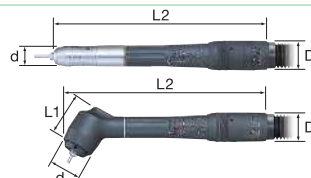


**Specifications**

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
<b>1034</b>	ø17	ø23.9	—	168	165 g	60,000 min <sup>-1</sup>	ø0.8~ø3.175 mm
<b>1035</b>	ø28.6	ø23.9	39.6	161	210 g	40,000 min <sup>-1</sup>	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<sup>-1</sup>**

Code No.	<b>1036</b>
Model	<b>NA90-230</b>

Standard Size Collet

ø3.0 mm (CHS-3.0)

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



Exclusive Tools P.69 - 72



Please refer to next page.

Standard Accessories

Code No.	Description	Package
42423	Mounted Points	1 pc.
64822	Rubber Pad	1 pc./pack
64836	Cup Wheel	1 pc./pack
64837	Cup Wheel	1 pc./pack
64172	Sand Paper Disk ø31 #120	2 pcs./pack
64175	Sand Paper Disk ø31 #320	2 pcs./pack
64177	Sand Paper Disk ø31 #600	2 pcs./pack
64179	Sand Paper Disk ø31 #1000	2 pcs./pack

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

60° Super Cut IMPULSE

**23,000 min<sup>-1</sup>**

Code No.	<b>1037</b>
Model	<b>NA45-230</b>

Standard Size Collet

ø3.0 mm (CHS-3.0)

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



Exclusive Tools P.69 - 72



Please refer to next page.

Standard Accessories

Code No.	Description	Package
42423	Mounted Points	1 pc.
64822	Rubber Pad	1 pc./pack
64836	Cup Wheel	1 pc./pack
64837	Cup Wheel	1 pc./pack
64172	Sand Paper Disk ø31 #120	2 pcs./pack
64175	Sand Paper Disk ø31 #320	2 pcs./pack
64177	Sand Paper Disk ø31 #600	2 pcs./pack
64179	Sand Paper Disk ø31 #1000	2 pcs./pack

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



**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

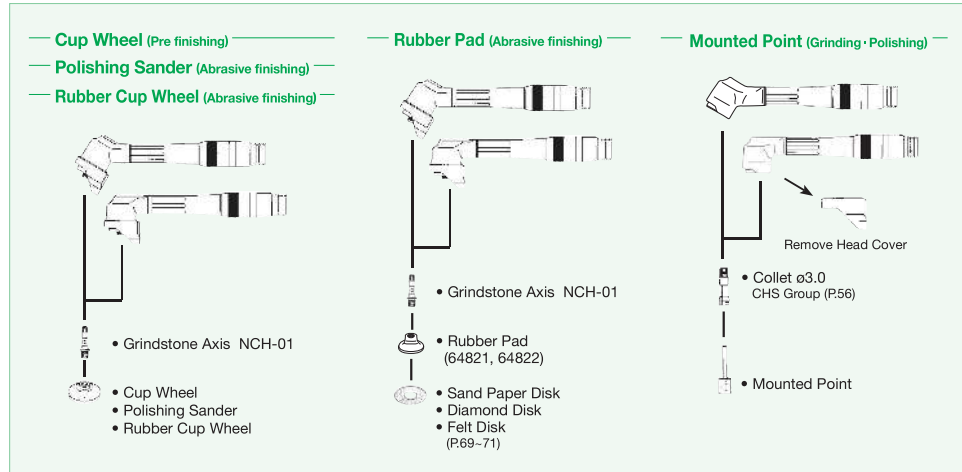
**Standard Accessories**

- Grindstone Axis (NGH-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.



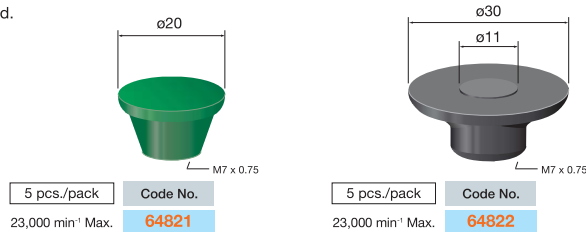
Code No.	d	D	L1	L2	Weight	Speed	Collet
<b>1036</b>	ø33.5	ø23.9	34	156	190 g	23,000 min <sup>-1</sup>	ø0.8~ø3.175 mm
<b>1037</b>	ø33.5	ø23.9	39.6	163	190 g	23,000 min <sup>-1</sup>	CHS Group (P.56)

The Exchangeable Attachment Chart



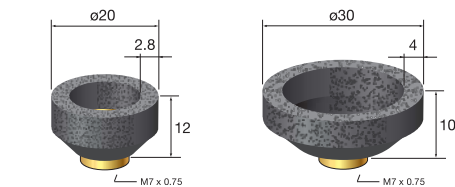
Rubber Pad

- Disks are pasted on the Rubber Pad. (P69-71)



Cup Wheel

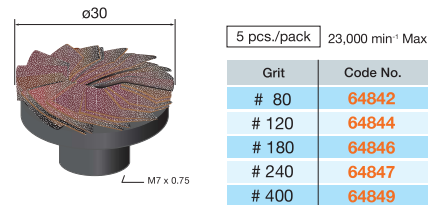
- For pre finishing.



12 pcs./pack		23,000 min <sup>1</sup> Max.	
Grit	Grade Hardness	Code No. ( $\phi 20$ )	Code No. ( $\phi 30$ )
# 36	Standard	64830	64835
# 46	Hard	64831	64836
# 80	Standard	64832	64837
# 80	Hard	—	64838

Polishing Sander

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



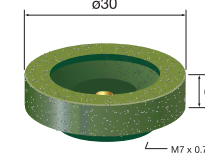
Convenient Assorted set for trial polishing  
All grain size (5 types x each 1 pc.)  
Total 5 pcs.-pack  
Code No. **64850** 5 pcs./pack

Rubber Cup Wheel

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



NA90-230



10 pcs./pack		23,000 min <sup>1</sup> 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.	<b>4506</b>
Model	<b>AL-H1206</b>

- 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  $\mu$ 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.

