

# **NPK<sup>®</sup>**

## **PNEUMATIC TOOLS**

**PULSE WRENCHES & DRIVERS**

**IMPACT WRENCHES & DRIVERS**

**GRINDERS & SANDERS**

**RAMMERS & SCALERS**

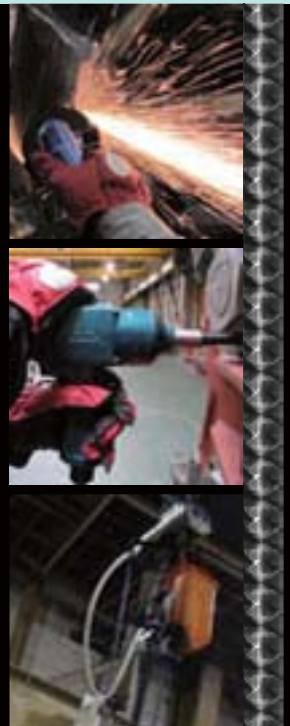
**AIR HOISTS**

**DRILLS & TAPPERS**

**BREAKERS**

**CLEANERS**

**VIBRATORS & MORE**



# **NPK<sup>®</sup>**

Nippon Pneumatic Mfg. Co., Ltd.  
11-5, 4-Chome, Kamiji, Higashinari-ku, Osaka, Japan  
TEL: 81-6-6973-9104  
FAX: 81-6-6974-5538  
E-mail: [tra.air@npk.co.jp](mailto:tra.air@npk.co.jp)  
Web: <http://www.npk.co.jp>

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**Nippon Pneumatic Mfg. Co., Ltd.**

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For tool selection, please consult NPK or your local dealer for technical references. Specifications on this catalogue are subject to change without notice.

## ■ Applications for Industries

Applications	Industries	Products & Page No.
<b>Fastening</b>	Assembly, Vehicle Servicing Primary Metal	Pulsus Wrench ..... 3-6 Impact Wrench ..... 9-14 Screw Driver ... 7-8, 15-16 Ratchet Wrench ..... 14
<b>Drilling &amp; Tapping</b>	Foundry, Molding Casting Air Craft Building	Drill ..... 29-30 Tapper ..... 29
<b>Grinding, Sanding &amp; Polishing</b>	Primary Metal Welding Ship Building	Die Grinder ..... 23 Straight Grinder ..... 17-18 Angle Grinder ..... 19-22 Vertical Grinder ..... 24 CNS Grinder ..... 25 Sander ..... 26 File ..... 27
<b>Cutting</b>	General Construction Vehicle servicing	Saw ..... 27 Dia Cutter ..... 27
<b>Lifting</b>	Primary Metal Assembly, Machining Ship Building	Hoist ..... 31-32
<b>Removing Paint, Rust &amp; Weld Flux</b>	General Construction	Wire Brush Sander ... 25 Flux Scaling Hammer .. 33 Auto Chiseler ..... 35 New Kelen ..... 37 Scaling Hammer ..... 38
<b>Foundry, Molding &amp; Casing</b>	Primary Metal Welding Ship Building	Die Grinder ..... 23 Straight Grinder ..... 17-18 Angle Grinder ..... 19-22 Tapper ..... 29 Flux Scaling Hammer . 33 Sand Rammer ..... 38
<b>Breaking, Shaving or Roughing Surfaces</b>	General Construction Quarry Mining	Chipping Hammer .... 34 Flux Scaling Hammer . 33 Stone Scraper ..... 37 Concrete Breaker ..... 39 Digger ..... 39
<b>Sucking</b>	Primary Metal Machining	Cleaner ..... 40
<b>Striking &amp; Vibrating</b>	Powder Processing	Vibrator ..... 41 One Punch Hammer ... 42
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<b>Lubricating</b>	-	Oil, Oiler ..... 44

# New Pulsus Wrenches

- Ergonomic design; reduced trigger pull & comfort grip.
- Patented pulse generation system.
- Adjustable torque setting.

## ■ Non Shut Off

● 9.5mm(3/8")Sq.



NPP-06



NPP-08

## ■ Shut Off

- Adjustable rotation speed.

● 9.5mm(3/8")Sq.



NPR-05A



NPR-06A



NPR-07A

The below figures of torque range are measured by the NPK torque tester.

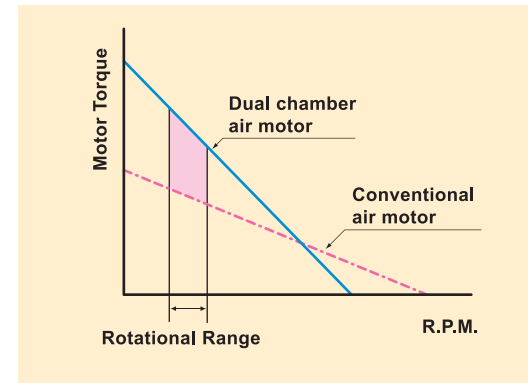
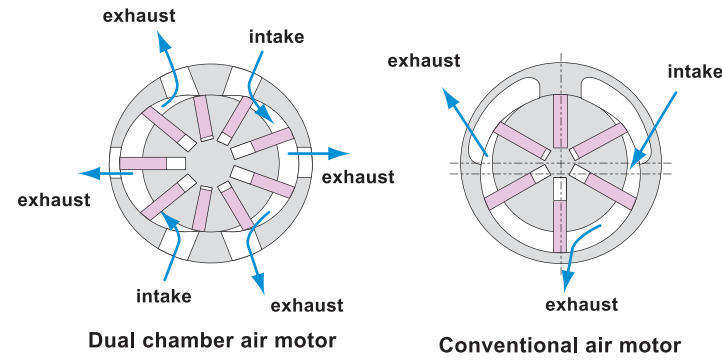
Model	Code	Capacity (Bolt size)		Torque range (Reference)		Free speed	Overall length		Mass		Spindle offset		Square shank size		Air inlet thread		Hose size		Average air consumption	
		mm	in	N · m	ft · lb		mm	in	kg	lb	mm	in	mm	in	Rc or NPT	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min	
NPP-06	25775	6	1/4	22~37	16~27	6500	146	5 <sup>3</sup> / <sub>4</sub>	0.85	1.87	22.5	7/8	9.5	3/8	1/4	6.3	1/4	0.3	10.6	
NPP-08	25777	8	5/16	35~50	26~37	6500	153	6	0.89	1.96	22.5	7/8	9.5	3/8	1/4	6.3	1/4	0.3	10.6	

Model	Code	Capacity (Bolt size)		Torque range (Hard joint)		Torque range (Soft joint)		Free speed	Overall length		Mass		Spindle offset		Square shank size		Air inlet thread		Hose size		Average air consumption	
		mm	in	N · m	ft · lb	N · m	ft · lb		mm	in	kg	lb	mm	in	mm	in	Rc or NPT	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min	
NPR-05A	25839	5	1/4	10~15	7~11	7~11	5~8	4000	165	6 <sup>1</sup> / <sub>2</sub>	1.0	2.2	23	7/8	9.5	3/8	1/4	6.3	1/4	0.35	12.4	
NPR-06A	25840	6	1/4	14~25	10~18	10~20	7~15	5000	171	6 <sup>3</sup> / <sub>4</sub>	1.1	2.4	23	7/8	9.5	3/8	1/4	6.3	1/4	0.35	12.4	
NPR-07A	25841	6~8	1/4~5/16	24~35	18~26	19~30	14~22	5000	171	6 <sup>3</sup> / <sub>4</sub>	1.1	2.4	23	7/8	9.5	3/8	1/4	6.3	1/4	0.35	12.4	

# NPK Pulse Wrenches

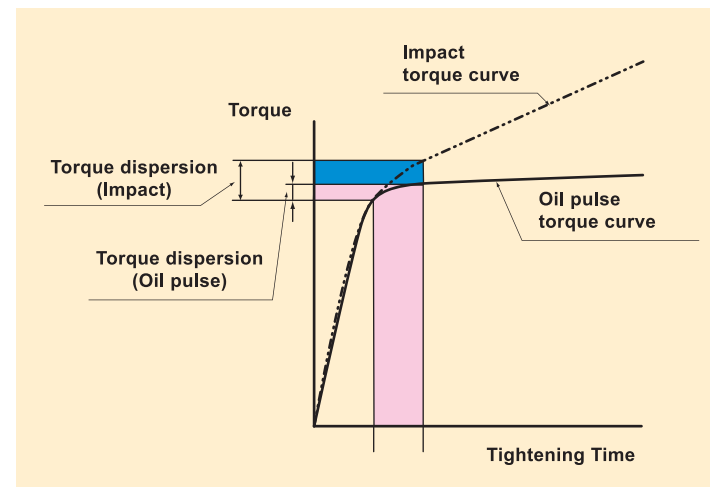
## 1 Light, Compact, & High-Performance

Due to the dual chamber, the pulsus motor weighs 30% less than that of the impact wrench, providing greater torque.



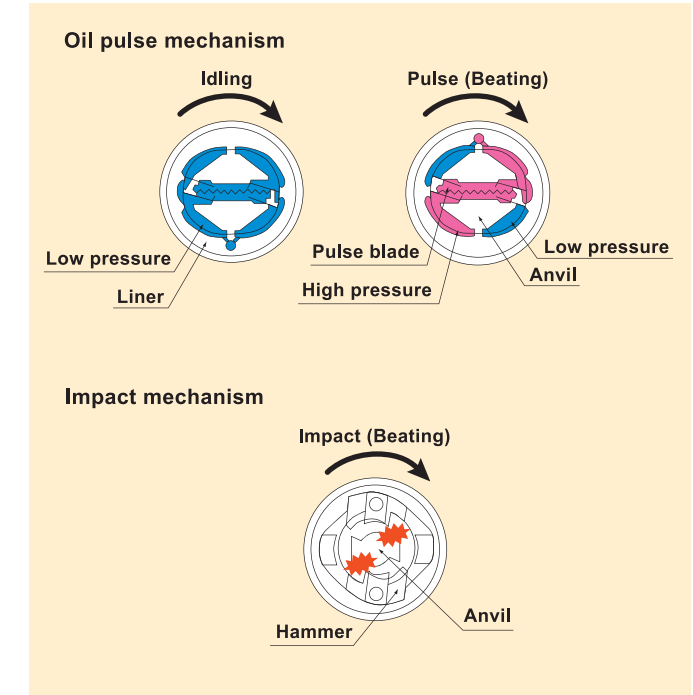
## 3 Accurate tightening torque

The NPK oil pulsus system delivers stable torque at low dispersion rate, and provides highly accurate tightening torque with easy torque adjustment.



## 2 Low Vibration, Low Noise and High Durability

- Low vibration, low noise, and high durability, as there is no direct impact between metal parts.



## 4 Operator Comfort

- Ergonomic grip.
- Right / Left changeable quick reverse for both right / left handed operation.



# Pulsus Wrenches

NPK "Pulsus", oil pulse wrenches provide highly accurate tightening, low vibration, low noise, and high durability.

## ■ Non Shut Off

### ● 9.5mm(3/8") Sq.



NPW-450A(P)-000  
NPW-450A(S)-000    NPW-550A(P)-000  
NPW-550A(S)-000    NPW-650A(P)-000  
NPW-650A(S)-000    NPW-800B(P)-000  
NPW-800B(S)-000    NPW-450EA(P)-000  
NPW-450EA(S)-000

### ● 12.7mm(1/2") Sq.



NPW-1000A(P)-000  
NPW-1000A(S)-000    NPW-1200A(P)-000  
NPW-1200A(S)-000    NPW-1400A(P)-000  
NPW-1400A(S)-000

### ● 19.05mm(3/4") Sq.



NPW-1600A(P)-000  
NPW-1600A(S)-000

- Accurate tightening of both soft joints and hard joints.
- Automatic shut off at a preset torque reduces operation hour, so as to increase productivity.
- Non-direct impact mechanism and reduced operation hour make the shut off type pulsus wrenches highly durable.

\*Torque range is based on values measured by NPK torque tester.

Model	Code	Capacity (Bolt size)		Torque range (Reference)		Free speed	Overall length		Mass		Spindle offset		Square shank size		Air inlet thread	Hose size		Average air consumption	
		mm	in	N · m	ft · lb		mm	in	kg	lb	mm	in	mm	in		Rc or NPT	mm	in	m³/min
NPW-450A(P)-000	25027	6	1/4	25-42	18-31	6500	154	6 <sup>1</sup> / <sub>16</sub>	0.93	2.05	23	7/8	9.5	3/8	1/4	6.3	1/4	0.3	10.6
NPW-450A(S)-000	25031																		
NPW-550A(P)-000	25029	8	5/16	27-52	20-38	6500	159	6 <sup>1</sup> / <sub>4</sub>	1.0	2.20	23	7/8	9.5	3/8	1/4	9.5	3/8	0.35	12.4
NPW-550A(S)-000	25049																		
NPW-650A(P)-000	25059	8-10	5/16-3/8	44-64	32-47	5500	172	6 <sup>3</sup> / <sub>4</sub>	1.06	2.33	23	7/8	9.5	3/8	1/4	9.5	3/8	0.45	15.9
NPW-650A(S)-000	25061																		
NPW-800B(P)-000	25067	10	3/8	64-93	47-69	5300	178	7	1.45	3.19	26	1	9.5	3/8	1/4	9.5	3/8	0.5	17.7
NPW-800B(S)-000	25069																		
NPW-450EA(P)-000	25299	6	1/4	21-34	15-25	6000	242	9 <sup>1</sup> / <sub>2</sub>	0.88	1.94	23	7/8	9.5	3/8	1/4	6.3	1/4	0.23	8.1
NPW-450EA(S)-000	25738																		
NPW-1000A(P)-000	25308	12	1/2	70-110	52-81	5300	192	7 <sup>9</sup> / <sub>16</sub>	1.9	4.18	32	1 <sup>1</sup> / <sub>4</sub>	12.7	1/2	1/4	9.5	3/8	0.55	19.4
NPW-1000A(S)-000	25307																		
NPW-1200A(P)-000	25312	12-14	1/2-9/16	90-137	66-101	4200	195	7 <sup>11</sup> / <sub>16</sub>	2.3	5.06	35	1 <sup>3</sup> / <sub>8</sub>	12.7	1/2	1/4	9.5	3/8	0.6	21.2
NPW-1200A(S)-000	25314																		
NPW-1400A(P)-000	25316	14	9/16	118-167	87-123	3500	218	8 <sup>9</sup> / <sub>16</sub>	2.8	6.16	36	1 <sup>7</sup> / <sub>16</sub>	12.7	1/2	1/4	9.5	3/8	0.8	28.3
NPW-1400A(S)-000	25328																		
NPW-1600A(P)-000	25318	16	5/8	129-210	95-155	3000	240	9 <sup>7</sup> / <sub>16</sub>	3.6	7.92	40	1 <sup>9</sup> / <sub>16</sub>	19.05	3/4	1/4	9.5	3/8	0.9	31.8
NPW-1600A(S)-000	25329																		

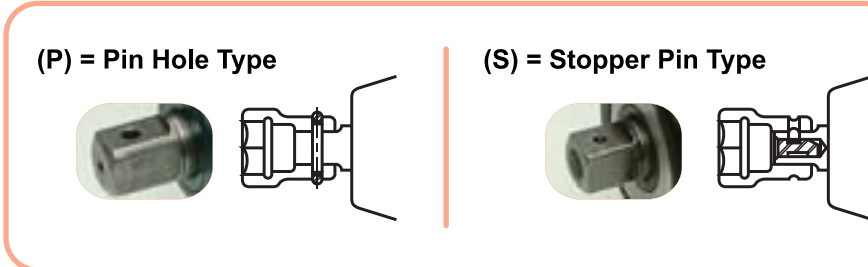
## ■ Shut Off

### ● 9.5mm(3/8") Sq.



NPW-450A(P)-T00  
NPW-450A(S)-T00    NPW-550A(P)-T00  
NPW-550A(S)-T00    NPW-650A(P)-T00  
NPW-650A(S)-T00    NPW-800B(P)-T00  
NPW-800B(S)-T00

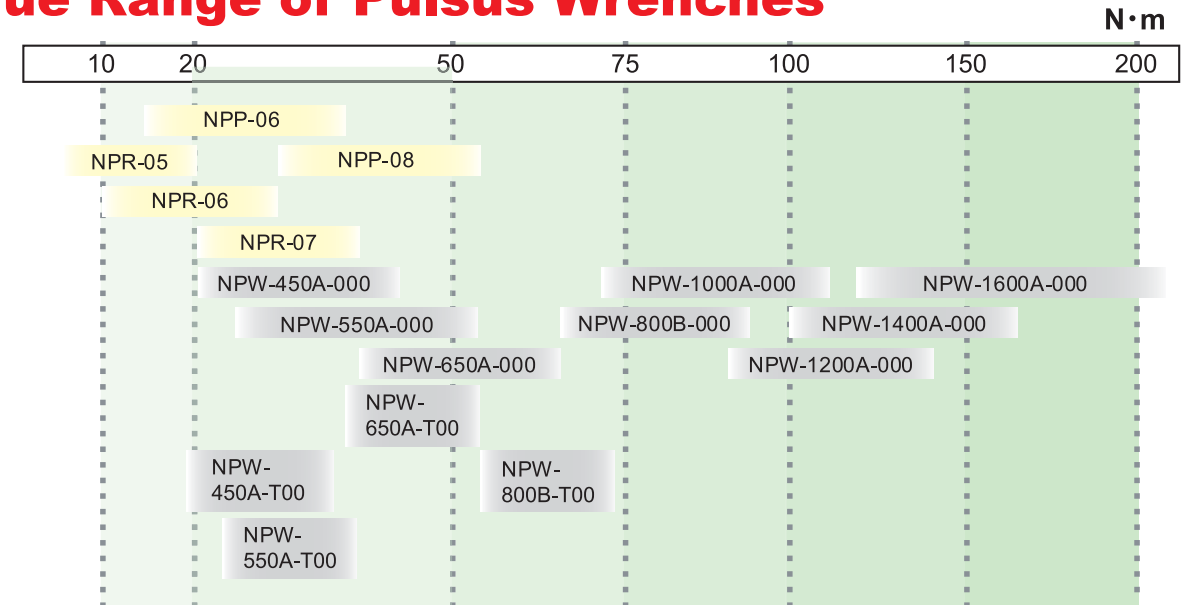
### Socket Retaining Type



\*Torque range is based on values measured by NPK torque tester.

Model	Code	Capacity (Bolt size)		Torque range (Hard joint)		Torque range (Soft joint)		Free speed	Overall length		Mass		Spindle offset		Square shank size		Air inlet thread	Hose size		Average air consumption	
		mm	in	N · m	ft · lb	N · m	ft · lb		min <sup>-1</sup>	mm	in	kg	lb	mm	in	mm		in	Rc or NPT	mm	in
NPW-450A(P)-T00	25033	6	1/4	20-29	15-21	10-20	7-15	6000	191	7 <sup>1</sup> / <sub>2</sub>	1.3	2.9	24	15/16	9.5	3/8	1/4	6.3	1/4	0.35	12.4
NPW-450A(S)-T00	25037																				
NPW-550A(P)-T00	25045	6-8	1/4-5/16	26-39	19-29	15-27	11-20	6000	191	7 <sup>1</sup> / <sub>2</sub>	1.3	2.9	24	15/16	9.5	3/8	1/4	6.3	1/4	0.35	12.4
NPW-550A(S)-T00	25051																				
NPW-650A(P)-T00	25063	8-10	5/16-3/8	39-54	29-40	25-44	18-32	5800	206	8 <sup>1</sup> / <sub>8</sub>	1.5	3.3	25	1	9.5	3/8	1/4	9.5	3/8	0.45	15.9
NPW-650A(S)-T00	25065																				
NPW-800B(P)-T00	25071	10	3/8	57-74	42-55	34-61	25-45	5500	212	8 <sup>3</sup> / <sub>8</sub>	1.7	3.7	26	1	9.5	3/8	1/4	9.5	3/8	0.5	17.7
NPW-800B(S)-T00	25073																				

## Torque Range of Pulsus Wrenches



# Pulsus Screw Drivers

## ■ Non Shut Off / Quick Change Chuck Type

● 6.35mm(1/4")Hex.



NPW-450A-DX0  
NPW-450A-DY0



NPW-550A-DX0  
NPW-550A-DY0



NPW-450EA-DX0  
NPW-450EA-DY0

## ■ Shut Off / Quick Change Chuck Type

● 6.35mm(1/4")Hex.



NPW-450A-TDX  
NPW-450A-TDY



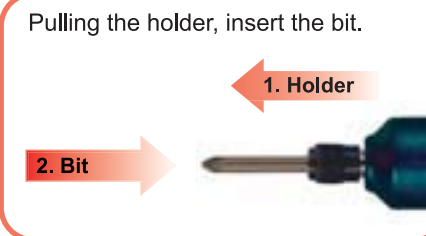
NPW-550A-TDX  
NPW-550A-TDY

- Accurate tightening of both soft joints and hard joints.
- Automatic shut off at a preset torque reduces operation hour, so as to increase productivity.
- Non-direct impact mechanism and reduced operation hour make the shut off type pulsus wrenches highly durable.

### Insert bits for screw drivers

Model	Bit Type	Shape
NPW-450A-DX0 NPW-550A-DX0 NPW-450EA-DX0 NPW-450A-TDX NPW-550A-TDX	X Type	
NPW-450A-DY0 NPW-550A-DY0 NPW-450EA-DY0 NPW-450A-TDY NPW-550A-TDY	Y Type	

### Installing Bit



\*Torque range is based on values measured by NPK torque tester.

Model	Code	Capacity (Bolt size)		Torque range (Reference)		Free speed	Overall length		Mass		Spindle offset		Hex. shank size		Air inlet thread	Hose size		Average air consumption	
		mm	in	N · m	ft · lb		min <sup>-1</sup>	mm	in	kg	lb	mm	in	mm		in	Rc or NPT	mm	in
NPW-450A-DX0	25039	6	1/4	25-31	18-23	6500	157	6 <sup>3</sup> / <sub>16</sub>	0.93	2.05	23	7/8	6.35	1/4	1/4	6.3	1/4	0.3	10.6
NPW-450A-DY0	25041																		
NPW-450A-DX0	25053	8	5/16	27-39	20-29	6500	160	6 <sup>5</sup> / <sub>16</sub>	1.0	2.20	23	7/8	6.35	1/4	1/4	9.5	3/8	0.35	12.4
NPW-550A-DY0	25055																		
NPW-450EA-DX0	25303	6	1/4	21-29	15-21	6000	244	9 <sup>5</sup> / <sub>8</sub>	0.88	1.94	23	7/8	6.35	1/4	1/4	6.3	1/4	0.23	8.1
NPW-450EA-DY0	25305																		

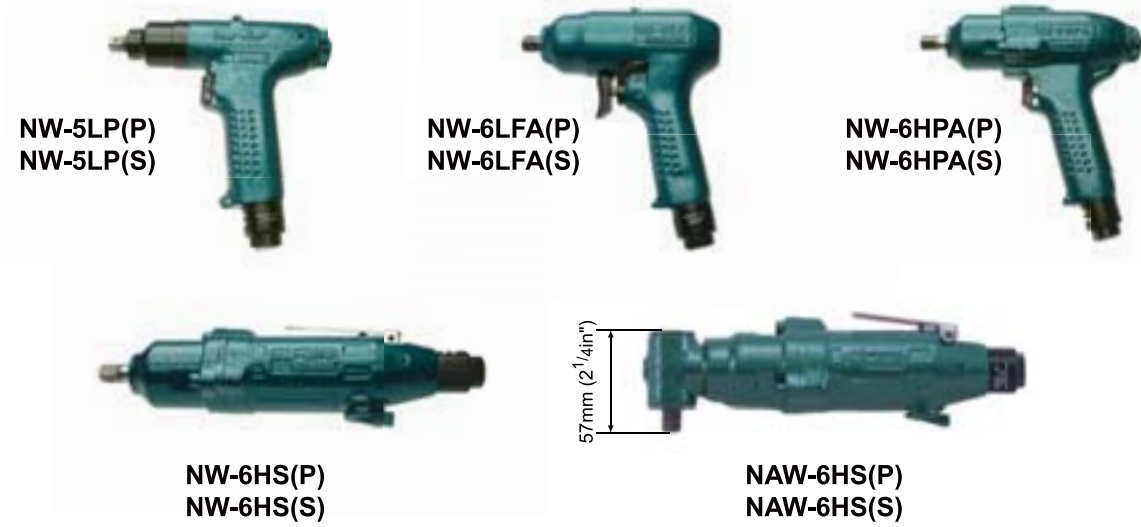
\*Torque range is based on values measured by NPK torque tester.

Model	Code	Capacity (Bolt size)		Torque range (Hard joint)		Torque range (Soft joint)		Free speed	Overall length		Mass		Spindle offset		Hex. shank size		Air inlet thread	Hose size		Average air consumption	
		mm	in	N · m	ft · lb	N · m	ft · lb		min <sup>-1</sup>	mm	in	kg	lb	mm	in	mm		in	Rc or NPT	mm	in
NPW-450A-TDX	25035	6	1/4	20-27	15-20	10-18	7-13	6000	197	7 <sup>3</sup> / <sub>4</sub>	1.3	2.9	24	15/16	6.35	1/4	1/4	6.3	1/4	0.35	12.4
NPW-450A-TDY	25043																				
NPW-550A-TDX	25047	8	5/16	26-33	19-24	15-26	11-19	6000	197	7 <sup>3</sup> / <sub>4</sub>	1.3	2.9	24	15/16	6.35	1/4	1/4	6.3	1/4	0.35	12.4
NPW-550A-TDY	25057																				

# Impact Wrenches (Two-Hammer)

- Two hammer impact design for efficient and speedy tightening operation.
- Ideal for assembly line work.

## ●9.5mm(3/8")Sq.



## ●12.7mm(1/2")Sq.



●Anvil Type

NW-○○HPA (P)

(P) = Pin Hole Type

(S) = Stopper Pin Type

(R) = Ring Type

9.5mm Sq

12.7mm Sq  
19.05mm Sq

Model	Code	Capacity (Bolt size)		Free speed min <sup>-1</sup>	Overall length		Mass		Spindle offset		Square shank size		Airinlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in		mm	in	kg	lb	mm	in	mm	in		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NW-5LP(P)	20097	6	1/4	12000	152	5 <sup>15</sup> / <sub>16</sub>	0.6	1.3	16.5	5/8	9.5	3/8	1/4	6.3	1/4	0.25	8.8
NW-5LP(S)	20652																
NW-6LFA(P)	20982	6~8	1/4~5/16	10000	136	5 <sup>3</sup> / <sub>8</sub>	0.8	1.8	23	7/8	9.5	3/8	1/4	6.3	1/4	0.25	8.8
NW-6LFA(S)	25025																
NW-6HPA(P)	20114	8	5/16	8000	163	6 <sup>3</sup> / <sub>8</sub>	0.9	2.0	24	15/16	9.5	3/8	1/4	6.3	1/4	0.25	8.8
NW-6HPA(S)	25097																
NW-6HS(P)	20108	8	5/16	9000	217	8 <sup>1</sup> / <sub>2</sub>	0.9	2.0	24	15/16	9.5	3/8	1/4	6.3	1/4	0.25	8.8
NW-6HS(S)	20859																
NAW-6HS(P)	20173	6	1/4	8000	239	9 <sup>3</sup> / <sub>8</sub>	1.5	3.3	14.5	9/16	9.5	3/8	1/4	6.3	1/4	0.25	8.8
NAW-6HS(S)	20315																
NW-8HPA(P)	20126	10	3/8	6500	165	6 <sup>1</sup> / <sub>2</sub>	1.5	3.3	28	1 <sup>1</sup> / <sub>8</sub>	12.7	1/2	1/4	6.3	1/4	0.3	10.6
NW-8HPA(S)	25098																
NW-10HPA(P)	20139	12	1/2	6000	169	6 <sup>5</sup> / <sub>8</sub>	1.7	3.7	31	1 <sup>1</sup> / <sub>4</sub>	12.7	1/2	1/4	9.5	3/8	0.35	12.4
NW-10HPA(S)	25099																
NW-14H(P)	20147	16	5/8	5500	196	7 <sup>11</sup> / <sub>16</sub>	3.0	6.6	34.5	1 <sup>3</sup> / <sub>8</sub>	12.7	1/2	1/4	9.5	3/8	0.35	12.4
NW-14H(S)	20677																

## ●19.05mm(3/4")Sq.



## ●25.4mm(1")Sq.



Model	Code	Capacity (Bolt size)		Free speed min <sup>-1</sup>	Overall length		Mass		Spindle offset		Square shank size		Airinlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in		mm	in	kg	lb	mm	in	mm	in		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NW-16S(P)	20149	18	11/16	4500	330	13	5.0	11	38	1 <sup>1</sup> / <sub>2</sub>	19.05	3/4	3/8	12.7	1/2	0.45	15.9
NW-16HP(P)	20737	18	11/16	5000	220	8 <sup>5</sup> / <sub>8</sub>	5.0	11	41.5	1 <sup>5</sup> / <sub>8</sub>	19.05	3/4	3/8	12.7	1/2	0.45	15.9
NW-16HP(R)	20738																
NW-16HS(P)	20151	18	11/16	4000	318	12 <sup>1</sup> / <sub>2</sub>	5.5	12.1	41.5	1 <sup>5</sup> / <sub>8</sub>	19.05	3/4	3/8	12.7	1/2	0.45	15.9
NW-19A(P)	20157	20	13/16	4500	346	13 <sup>5</sup> / <sub>8</sub>	6.5	14.3	45	1 <sup>3</sup> / <sub>4</sub>	19.05	3/4	3/8	12.7	1/2	0.55	19.4
NW-19A(S)	25718																
NW-22A(P)	20161	22	7/8	4500	383	15 <sup>1</sup> / <sub>16</sub>	7.4	16.3	45	1 <sup>3</sup> / <sub>4</sub>	19.05	3/4	3/8	12.7	1/2	0.6	21.2
NAW-16HS(P)	20362	16	5/8	3500	386	15 <sup>3</sup> / <sub>16</sub>	9.6	21.1	30	1 <sup>3</sup> / <sub>16</sub>	19.05	3/4	3/8	12.7	1/2	0.45	15.9
NAW-19A(P)	20178	18	11/16	4000	415	16 <sup>3</sup> / <sub>8</sub>	10.6	23.3	31	1 <sup>1</sup> / <sub>4</sub>	19.05	3/4	3/8	12.7	1/2	0.5	17.7
NW-16HSA(P)	20154	18	11/16	4000	339	13 <sup>3</sup> / <sub>8</sub>	5.8	12.8	41.5	1 <sup>5</sup> / <sub>8</sub>	19.05	3/4	3/8	12.7	1/2	0.45	15.9
NW-19AA(P)	20158	20	13/16	4500	390	15 <sup>3</sup> / <sub>4</sub>	7.0	15.4	45	1 <sup>3</sup> / <sub>4</sub>	19.05	3/4	3/8	12.7	1/2	0.55	19.4
NW-22AA(P)	20162	22	7/8	4500	399	15 <sup>11</sup> / <sub>16</sub>	8.0	17.6	45	1 <sup>3</sup> / <sub>4</sub>	19.05	3/4	3/8	12.7	1/2	0.6	21.2
NW-32LA(P)	20166	33	1 <sup>5</sup> / <sub>16</sub>	4000	383	15 <sup>1</sup> / <sub>16</sub>	10.7	23.5	55.5	2 <sup>3</sup> / <sub>16</sub>	25.4	1	1/2	12.7	1/2	0.85	30.0
NW-38(P)	20170	39	1 <sup>9</sup> / <sub>16</sub>	3000	463	18 <sup>1</sup> / <sub>4</sub>	15.3	33.7	62.5	2 <sup>7</sup> / <sub>16</sub>	25.4	1	1/2	12.7	1/2	0.9	31.8
NAW-32LA(P)	20180	22	7/8	3500	484	19 <sup>1</sup> / <sub>16</sub>	18.0	39.6	43	1 <sup>11</sup> / <sub>16</sub>	25.4	1	1/2	12.7	1/2	0.85	30

# Impact Wrenches (One-Hammer)

- One hammer impact wrench is widely used for repair and garage work.
- Powerful, light weight, and low air consumption.
- Built in power regulator.

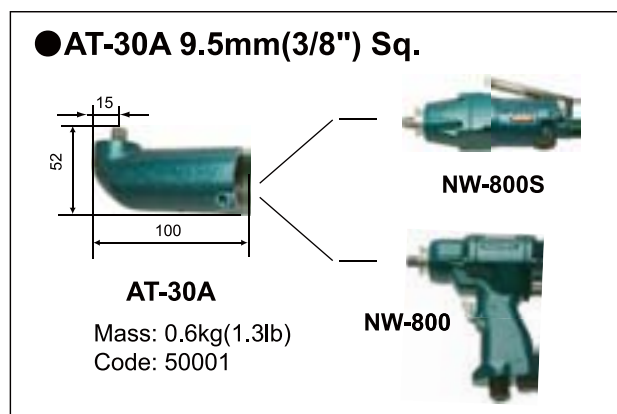
## ● 9.5mm(3/8")Sq.



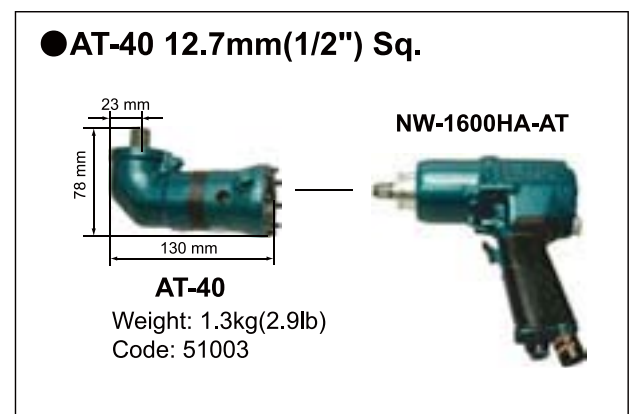
## ● 12.7mm(1/2")Sq. 4 Steps Power Control



### Angle Attachment for NW-800 / -800S



### Angle Attachment for NW-1600HA-AT



## ● 12.7mm(1/2")Sq. 4 Steps Power Control



## ● 19.05mm(3/4")Sq. 4 steps power control

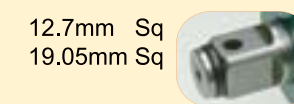
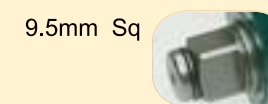
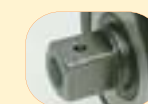


### ● Anvil Type

(P) = Pin Hole Type

(S) = Stopper Pin Type

(R) = Ring Type



Model	Code	Capacity (Bolt size)		Free speed	Overall length		Mass		Spindle offset		Square shank size		Airinlet thread	Hose size		Average air consumption	
		mm	in		mm	in	kg	lb	mm	in	mm	in		Rc or NPT	mm	in	m <sup>3</sup> /min
NW-800(S)	20007	10	3/8	7000	128	5 1/16	1.25	2.75	22.5	7/8	9.5	3/8	1/4	6.3	1/4	0.1	3.5
NW-800S(S)	20009	10	3/8	8000	178	7	1.1	2.4	25	1	9.5	3/8	1/4	6.3	1/4	0.1	3.5
SW-12(R)	20014	12	1/2	8000	124	4 7/8	1.26	2.9	27	1 1/16	9.5	3/8	1/4	6.3	1/4	0.1	3.5
NW-1200B(R)	25322	14	9/16	7000	174	6 7/8	1.8	4.0	28	1 1/8	12.7	1/2	1/4	6.3	1/4	0.1	3.5
NW-1200B(S)	25338																
NW-1200B(2R)	25340																
NW-1200B(2S)	25356	14	9/16	7000	224	8 13/16	2.1	4.6	28	1 1/8	12.7	1/2	1/4	6.3	1/4	0.1	3.5
NW-1600HA(R)	25362	16	5/8	5000	195	7 11/16	2.5	5.5	31.8	1 1/4	12.7	1/2	1/4	6.3	1/4	0.15	5.3
NW-1600HA(S)	25366																
NW-1600HA-AT(R)	25399	16	5/8	5000	195	7 5/8	2.5	5.5	32.5	1 1/4	12.7	1/2	1/4	6.3	1/4	0.15	5.3
NW-1600HA-AT(S)	25403																
NW-1600HA(2R)	25370	16	5/8	5000	245	9 5/8	2.6	5.7	31.8	1 1/4	12.7	1/2	1/4	6.3	1/4	0.15	5.3

Model	Code	Capacity (Bolt size)		Free speed	Overall length		Mass		Spindle offset		Square shank size		Airinlet thread	Hose size		Average air consumption	
		mm	in		mm	in	kg	lb	mm	in	mm	in		Rc or NPT	mm	in	m <sup>3</sup> /min
NW-1600SA(R)	25553	14	9/16	6500	165	6 1/2	1.6	3.5	26	1	12.7	1/2	1/4	6.3	1/4	0.15	5.3
NAW-1200(S)	20026	12	1/2	6500	364	14 5/16	3.0	6.6	23	7/8	12.7	1/2	1/4	6.3	1/4	0.1	3.5
NAW-1600HA(S)	25395	14	9/16	5000	282	11 1/8	3.6	7.9	23	7/8	12.7	1/2	1/4	6.3	1/4	0.15	5.3
NW-2000HA(R)	25405	20	13/16	4500	230	9 1/16	3.8	8.4	38	1 1/2	19.05	3/4	1/4	9.5	3/8	0.2	7.1
NW-2000HA(S)	25349																
NW-2000HA(4R)	25352	20	13/16	4500	330	13	4.2	9.2	38	1 1/2	19.05	3/4	1/4	9.5	3/8	0.2	7.1
NW-2800P(R)	20735	25	1	5000	225	8 7/8	5.0	11	41.5	1 5/8	19.05	3/4	3/8	9.5	3/8	0.25	8.8
NW-2800P(4R)	20748	25	1	5000	325	12 13/16	5.4	11.9	41.5	1 5/8	19.05	3/4	3/8	9.5	3/8	0.25	8.8

# Impact Wrenches (One-Hammer)

# Impact Wrenches / Ratchet Wrenches

## ●25.4mm(1") Sq. 4 Steps Power Control



NW-3500P(P)



NW-3500GA(P)

Long Anvil Type



NW-3500GA(6P)



NW-4300GA(P)

Long Anvil Type



NW-4300GA(6P)



NW-4300GAU(P)

Long Anvil Type



NW-4300GAU(6P)

NW-5000A(P)

Long Anvil Type



NW-5000A(7P)



NWH-500(P)

## Impact Wrenches (Clutch-hammer)

- Exceptionally high power.
- Primarily used in heavy manufacturing industries; shipyard and bridge construction.

### ●25.4mm(1") Sq.



NWH-320A(P)  
(3 steps power control)

### ●25.4mm(1") Sq.



NWH-320P(P)

### ●38.1mm(1 1/2") Sq. NWH-500(P)

### ●44.5mm(1 3/4") Sq. NWH-750(P)

### ●63.5mm(2 1/2") Sq. NWH-750-24(P)



Model	Code	Capacity (Bolt size)		Free speed min <sup>-1</sup>	Overall length		Mass		Spindle offset		Square shank size		Airinlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in		mm	in	kg	lb	mm	in	mm	in		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NWH-320A(P)	20181	39	1 <sup>9</sup> / <sub>16</sub>	4000	386	15 <sup>3</sup> / <sub>16</sub>	9.1	20	55	2 <sup>3</sup> / <sub>16</sub>	25.4	1	3/8	12.7	1/2	0.5	17.7
NWH-320P(P)	20183	39	1 <sup>9</sup> / <sub>16</sub>	4000	276	10 <sup>7</sup> / <sub>8</sub>	9.75	21.49	55	2 <sup>3</sup> / <sub>16</sub>	25.4	1	3/8	12.7	1/2	0.5	17.7
NWH-500(P)	20187	52	2 <sup>1</sup> / <sub>16</sub>	3500	567	22 <sup>5</sup> / <sub>16</sub>	29.0	63.8	77	3 <sup>1</sup> / <sub>16</sub>	38.1	1 <sup>1</sup> / <sub>2</sub>	G1	19.0	3/4	1.2	42.4
NWH-750(P)	20188	75	3	2200	637	25 <sup>1</sup> / <sub>16</sub>	52.5	115.5	95	3 <sup>3</sup> / <sub>4</sub>	44.5	1 <sup>3</sup> / <sub>4</sub>	G1	19.0	3/4	1.5	53
NWH-750-24(P)	20189	75	3	2200	649	25 <sup>9</sup> / <sub>16</sub>	52.6	115.7	95	3 <sup>3</sup> / <sub>4</sub>	63.5	2 <sup>1</sup> / <sub>2</sub>	G1	19.0	3/4	1.5	53

## Ratchet Wrenches

Suitable for tightening work in limited spaces.

### ●9.5mm(3/8") Sq.



NRR-8B



NRR-10B

Model	Code	Capacity (Bolt size)		Free speed min <sup>-1</sup>	Overall length		Mass		Spindle offset		Square shank size		Airinlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in		mm	in	kg	lb	mm	in	mm	in		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NW-3500P(P)	20074	36	1 <sup>7</sup> / <sub>16</sub>	4000	281	11 <sup>1</sup> / <sub>16</sub>	9.2	20.2	50	1 <sup>15</sup> / <sub>16</sub>	25.4	1	3/8	12.7	1/2	0.3	10.6
NW-3500GA(P)	20072	36	1 <sup>7</sup> / <sub>16</sub>	4000	388	15 <sup>1</sup> / <sub>4</sub>	9.5	20.9	50	1 <sup>15</sup> / <sub>16</sub>	25.4	1	3/8	12.7	1/2	0.3	10.6
NW-3500GA(6P)	20073	36	1 <sup>7</sup> / <sub>16</sub>	4000	551	21 <sup>11</sup> / <sub>16</sub>	10.5	23.1	50	1 <sup>15</sup> / <sub>16</sub>	25.4	1	3/8	12.7	1/2	0.3	10.6
NW-4300GA(P)	20087	42	1 <sup>5</sup> / <sub>8</sub>	4000	454	17 <sup>7</sup> / <sub>8</sub>	12.9	28.4	57	2 <sup>1</sup> / <sub>4</sub>	25.4	1	1/2	12.7	1/2	0.4	14.1
NW-4300GA(6P)	20088	42	1 <sup>5</sup> / <sub>8</sub>	4000	591	23 <sup>1</sup> / <sub>4</sub>	14.2	31.2	57	2 <sup>1</sup> / <sub>4</sub>	25.4	1	1/2	12.7	1/2	0.4	14.1
NW-4300GAU(P)	20089	42	1 <sup>5</sup> / <sub>8</sub>	4000	454	17 <sup>7</sup> / <sub>8</sub>	12.9	28.4	57	2 <sup>1</sup> / <sub>4</sub>	25.4	1	1/2	12.7	1/2	0.4	14.1
NW-4300GAU(6P)	20831	42	1 <sup>5</sup> / <sub>8</sub>	4000	591	23 <sup>1</sup> / <sub>4</sub>	14.2	31.2	57	2 <sup>1</sup> / <sub>4</sub>	25.4	1	1/2	12.7	1/2	0.4	14.1
NW-5000A(P)	25832	52	2 <sup>1</sup> / <sub>16</sub>	3000	464	18 <sup>1</sup> / <sub>4</sub>	16.5	36.3	62	2 <sup>7</sup> / <sub>16</sub>	25.4	1	1/2	12.7	1/2	0.45	15.9
NW-5000A(7P)	25833	52	2 <sup>1</sup> / <sub>16</sub>	3000	642	25 <sup>1</sup> / <sub>4</sub>	18.0	39.6	62	2 <sup>7</sup> / <sub>16</sub>	25.4	1	1/2	12.7	1/2	0.45	15.9

Model	Code	Capacity (Bolt size)		Free speed min <sup>-1</sup>	Overall length		Mass		Angle height		From center to outside		Airinlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in		mm	in	kg	lb	mm	in	mm	in		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NRR-8B	25021	8	5/16	200	169	6 <sup>5</sup> / <sub>8</sub>	0.54	1.1	33.1	1 <sup>5</sup> / <sub>16</sub>	15	9/16	1/4	6.3	1/4	0.1	3.5
NRR-10B	20813	10	3/8	160	263	10 <sup>3</sup> / <sub>8</sub>	1.1	2.4	40.6	1 <sup>5</sup> / <sub>8</sub>	20	13/16	1/4	6.3	1/4	0.1	3.5



# Impact Type Screw Drivers

- Compact and lightweight impact-type screw drivers.
- Quick change chuck bit holder.
- 2 types of bit holders: X (9mm) & Y (13mm) are available. Please select the right model.

## ● 6.35mm(1/4") Quick Change Chuck Type



ND-5LPX  
ND-5LPY



ND-6LFAX  
ND-6LFAY



ND-6HPAX  
ND-6HPAY



ND-6PDY  
(Built-in power regulator /  
6 steps power control)



ND-6HSX  
ND-6HSY



ND-6SDY  
(Built-in power regulator /  
stepless power control)



SD-4

- Cushion clutch type screw driver.
- Torque adjustable.
- Low torque reaction.
- Start running by pushing the bit against the screw.

Model	Code	Capacity (Bolt size)		Torque adjustment range(Reference)		Free speed min <sup>-1</sup>	Overall length		Mass		Spindle offset		Hex. shank size		Air inlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in	N · m	ft · lb		mm	in	kg	lb	mm	in	mm	in		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
SD-4	20241	4	3/16	1.0~3.4	0.7~2.5	2000	224	8 <sup>3</sup> / <sub>4</sub>	0.6	1.3	15	9/16	6.35	1/4	1/8	6.3	1/4	0.2	7.1

## Insert bits for screw drivers

### Installing Bit

Pulling the holder, insert the bit.



Model	Bit Type	Shape
ND-5LPX ND-6LFAX ND-6HPAX ND-6HSX	X Type	
ND-5LPY ND-6LFAY ND-6HPAY ND-6HSY ND-6SDY ND-6PDY SD-4	Y Type	

Model	Code	Capacity (Bolt size)		Free speed min <sup>-1</sup>	Overall length		Mass		Spindle offset		Hex. shank size		Air inlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in		mm	in	kg	lb	mm	in	mm	in		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
ND-5LPX	20243	6	1/4	12000	165	6 <sup>1</sup> / <sub>2</sub>	0.65	1.4	16.5	5/8	6.35	1/4	1/4	6.3	1/4	0.15	5.3
ND-5LPY	20244																
ND-6LFAX	20983	6	1/4	10000	147	5 <sup>13</sup> / <sub>16</sub>	0.8	1.8	24	15/16	6.35	1/4	1/4	6.3	1/4	0.25	8.8
ND-6LFAY	20984																
ND-6HPAX	20221	6~8	1/4~5/16	8000	170	6 <sup>11</sup> / <sub>16</sub>	1.0	2.2	24	15/16	6.35	1/4	1/4	6.3	1/4	0.25	8.8
ND-6HPAY	20222																
ND-6PDY	25102	6~8	1/4~5/16	6000	148	5 <sup>13</sup> / <sub>16</sub>	1.4	3.1	22.5	7/8	6.35	1/4	1/4	6.3	1/4	0.15	5.3
ND-6HSX	20219	6~8	1/4~5/16	9000	223	8 <sup>3</sup> / <sub>4</sub>	0.97	2.1	24	15/16	6.35	1/4	1/4	6.3	1/4	0.25	8.8
ND-6HSY	20220	6~8	1/4~5/16	9000	224	8 <sup>13</sup> / <sub>16</sub>	0.97	2.1	24	15/16	6.35	1/4	1/4	6.3	1/4	0.25	8.8
ND-6SDY	25106	6~8	1/4~5/16	6000	198	7 <sup>13</sup> / <sub>16</sub>	1.2	2.6	25	1	6.35	1/4	1/4	6.3	1/4	0.15	5.3

# Straight Grinders

- Heavy duty and powerful grinders with narrow aluminium housing.
- Ideal for operation in limited work space.

## ■ Safety Grip Type

### ● 65mm(2 1/2") Built-in governor



NHG-65D



NHG-65LD



NHG-65LD-75

### ● 32mm (1 1/4" ) Without governor



**NHG-65K-06** (6mm collet)  
**NHG-65K-20** (1/4" collet)  
\*3mm & 1/8" collets also available.



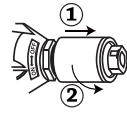
**NHG-65LK-06** (6mm collet)  
**NHG-65LK-20** (1/4" collet)  
\*3mm & 1/8" collets also available.



**NHG-65LK-75** (6mm collet)

## Safety Grip Type

- ① Pull back the sleeve, and
- ② Turn it anticlockwise to start.



### ● 100mm(4") Built-in governor



NHG-100A

### ● 125mm(5") Built-in governor



NHG-125

### ● 150mm(6") Built-in governor



NHG-150

## Rear exhaust type

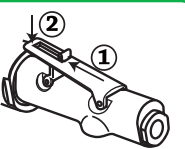


**NHG-65K-BE** (6mm collet)

# Straight Grinders

## Safety Lever Type

- ① Slide the stopper.
- ② Push down the lever.



## ■ Safety Lever Type

### ● 65mm(2 1/2") Built-in governor



NHG-65DLW



NHG-65LDLW

### ● 32mm (1 1/4" ) Non governor



**NHG-65KLW-06** (6mm collet)  
**NHG-65KLW-20** (1/4" collet)

\*3mm & 1/8" collets also available.

\*Rear exhaust type is also available.  
Model: **NHG-65KLW-BE** (6 mm collet)

### ● 100mm(4") Built-in governor



NHG-100ALW

### ● 125mm(5") Built-in governor



NHG-125LW

### ● 150mm(6") Built-in governor



NHG-150LW



**NHG-65LKLW-06** (6mm collet)  
**NHG-65LKLW-20** (1/4" collet)  
\*3mm & 1/8" collets also available.

Model	Code	Collet size	Capacity (Wheel size)		Max.free speed	Overall length		Mass		Max. output		Air inlet thread	Hose size		Average air consumption	
			mm/in	mm		in	mm	in	kg	lb	kw		ps	Rc or NPT	mm	in
NHG-65D	10053	-	65x13x9.5	2 <sup>9</sup> / <sub>16</sub> x1/2 x 3/8	14600	310	12 <sup>3</sup> / <sub>16</sub>	1.3	2.9	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-65LD	10054	-	65x13x9.5	2 <sup>9</sup> / <sub>16</sub> x1/2 x 3/8	14600	510	20 <sup>1</sup> / <sub>16</sub>	1.6	3.5	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-65LD-75	70427	-	65x13x9.5	2 <sup>9</sup> / <sub>16</sub> x1/2 x 3/8	14600	756	29 <sup>3</sup> / <sub>4</sub>	2.2	4.8	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-100A	10075	-	100x19x12.7	4 x 3/4 x 1/2	9500	366	14 <sup>5</sup> / <sub>16</sub>	2.3	5.1	0.88	1.2	3/8	12.7	1/2	0.65	23.0
NHG-125	10077	-	125x19x12.7	5 x 3/4 x 1/2	7500	405	15 <sup>15</sup> / <sub>16</sub>	3.2	7.0	1.04	1.42	3/8	12.7	1/2	0.9	31.8
NHG-150	10081	-	150x25x15.9	6 x 1 x 5/8	6200	440	17 <sup>3</sup> / <sub>16</sub>	4.6	10.1	1.32	1.8	3/8	12.7	1/2	1.1	38.8
NHG-65K-06	10650	6mm	32	1 1/4	18000	311	12 1/4	1.3	2.9	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-65K-20	10061	1/4"														
NHG-65K-BE	15321	6mm	32	1 1/4	18000	359	14 1/7	1.5	3.3	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-65LK-06	10066	6mm	32	1 1/4	18000	511	20 1/8	1.6	3.5	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-65LK-20	10069	1/4"														
NHG-65LK-75	70430	6mm	32	1 1/4	18000	756	29 <sup>3</sup> / <sub>4</sub>	2.2	4.8	0.58	0.79	1/4	9.5	3/8	0.55	19.4

Model	Code	Collet size	Capacity (Wheel size)		Max.free speed	Overall length		Mass		Max. output		Air inlet thread	Hose size		Average air consumption	
			mm/in	mm		in	mm	in	kg	lb	kw		ps	Rc or NPT	mm	in
NHG-65DLW	10055	-	65x13x9.5	2 <sup>9</sup> / <sub>16</sub> x1/2 x 3/8	14600	338	13 <sup>5</sup> / <sub>16</sub>	1.3	2.9	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-65LDLW	10056	-	65x13x9.5	2 <sup>9</sup> / <sub>16</sub> x1/2 x 3/8	14600	538	21 <sup>3</sup> / <sub>16</sub>	1.6	3.5	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-100ALW	10076	-	100x19x12.7	4 x 3/4 x 1/2	9500	411	16 <sup>3</sup> / <sub>16</sub>	2.3	5.1	0.88	1.2	3/8	12.7	1/2	0.65	23.0
NHG-125LW	10078	-	125x19x12.7	5 x 3/4 x 1/2	7500	452	17 <sup>13</sup> / <sub>16</sub>	3.2	7.0	1.04	1.42	3/8	12.7	1/2	0.9	31.8
NHG-150LW	10082	-	150x25x15.9	6 x 1 x 5/8	6200	486	19 <sup>1</sup> / <sub>8</sub>	4.6	10.1	1.32	1.8	3/8	12.7	1/2	1.1	38.8
NHG-65KLW-06	10062	6mm	32	1 1/4	18000	339	13 3/4	1.3	2.9	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-65KLW-20	10065	1/4"														
NHG-65KLW-BE	15334	6mm	32	1 1/4	18000	359	14 1/7	1.5	3.3	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-65LKLW-06	10070	6mm	32	1 1/4	18000	539	21 1/4	1.6	3.5	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-65LKLW-20	10073	1/4"														

# Angle Grinders

Longtime best selling NPK angle grinders for various industrial applications.

## Standard Model / Non Governor

### 100mm(4") / Grip



NAG-1F-04

### 100mm(4") / Safety Lever



NAG-1FLW-04

### 125mm(5") / Grip



NAG-1F-05

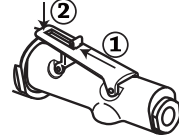
### 125mm(5") / Safety Lever



NAG-1FLW-05

#### Safety Lever Type

- ① Slide the stopper.
- ② Push down the lever.



## Full Spec Model / Non Governor

### 100mm(4") / Safety lever



NAG-11A-04




### 125mm(5") / Safety lever



NAG-11A-05

\* Inch spindle type is also available.

#### Features

- Rear exhaust. 
- Quick wheel change with spindle lock. 
- Right / left replaceable handle. 



## Heavy-duty / Build-in Governor

### 100mm(4") / Safety Grip

NGP-100



### 125mm(5") / Safety Grip

NGP-125



Wheel not included.

Model	Code	Capacity (Wheel size)		Spindle thread	Max.free speed	Overall length		Height		Mass		Max. output		Air inlet thread	Hose size		Average air consumption	
		mm	in			mm	in	mm	in	kg	lb	kw	ps		RC / NPT	mm	in	m <sup>3</sup> /min
NAG-1F-04	15324	100x6x15.9	4x <sup>1</sup> / <sub>4</sub> x <sup>9</sup> / <sub>16</sub>	-	12700	190	7 <sup>1</sup> / <sub>2</sub>	83	3 <sup>1</sup> / <sub>4</sub>	1.6	3.5	0.87	1.19	1/4	9.5	3/8	0.68	24
NAG-1FLW-04	15319	100x6x15.9	4x <sup>1</sup> / <sub>4</sub> x <sup>5</sup> / <sub>8</sub>	-	12700	232	9 <sup>1</sup> / <sub>8</sub>	79	3 <sup>1</sup> / <sub>8</sub>	1.5	3.3	0.87	1.19	1/4	9.5	3/8	0.68	24
NAG-1F-05	15331	125x6x22	5x <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	-	12700	187	7 <sup>3</sup> / <sub>8</sub>	77	3 <sup>1</sup> / <sub>16</sub>	1.5	3.3	0.87	1.19	1/4	9.5	3/8	0.68	24
NAG-1FLW-05	15326	125x6x22	5x <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	-	12000	232	9 <sup>1</sup> / <sub>8</sub>	83	3 <sup>1</sup> / <sub>4</sub>	1.6	3.5	0.87	1.19	1/4	9.5	3/8	0.68	24
NGP-100	15239	100x6x15	4x <sup>1</sup> / <sub>4</sub> x <sup>9</sup> / <sub>16</sub>	-	13600	225	7 <sup>7</sup> / <sub>8</sub>	97	3 <sup>13</sup> / <sub>16</sub>	1.8	3.7	1.2	1.63	3/8	9.5	3/8	1.0	35.3
NGP-125	15318	125x6x22	5x <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	-	10900	225	7 <sup>7</sup> / <sub>8</sub>	105	4 <sup>1</sup> / <sub>8</sub>	1.9	4.2	1.2	1.63	3/8	9.5	3/8	1.0	35.3

## Compact & Lightweight / Build-in Governor

### 100mm(4") / Safety Grip

NGS-100



## Build-in Governor

### 100mm(4") / Safety Grip

NAG-400A



Optional left handle.

Wheel not included.

Model	Code	Capacity (Wheel size)		Spindle thread	Max.free speed	Overall length		Height		Mass		Max. output		Air inlet thread	Hose size		Average air consumption	
		mm	in			mm	in	mm	in	kg	lb	kw	ps		RC / NPT	mm	in	m <sup>3</sup> /min
NAG-11A-04	10794	100x6x15.9	4 x <sup>1</sup> / <sub>4</sub> x <sup>5</sup> / <sub>8</sub>	-	12000	248	9 <sup>3</sup> / <sub>4</sub>	94	3 <sup>11</sup> / <sub>16</sub>	2.2	4.8	0.88	1.20	3/8	9.5	3/8	0.8	28.3
NAG-11A-05	10808	125x6x22	5 x <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	M14 x2.0	12000	248	9 <sup>3</sup> / <sub>4</sub>	98	3 <sup>7</sup> / <sub>8</sub>	2.3	5.1	0.88	1.20	3/8	9.5	3/8	0.8	28.3
NGS-100	15208	100x6x15	4 x <sup>1</sup> / <sub>4</sub> x <sup>9</sup> / <sub>16</sub>	-	13600	192	7 <sup>9</sup> / <sub>16</sub>	85	3 <sup>3</sup> / <sub>8</sub>	1.0	2.2	0.64	0.88	1/4	9.5	3/8	0.5	17.7
NAG-400A	15320	100x6x15	4 x <sup>1</sup> / <sub>4</sub> x <sup>9</sup> / <sub>16</sub>	-	13600	216	8 <sup>1</sup> / <sub>2</sub>	86	3 <sup>3</sup> / <sub>8</sub>	1.7	3.7	0.85	1.15	1/4	9.5	3/8	0.65	23

# Angle Grinders

Longtime best selling NPK angle grinders for various industrial applications.

## Build-in Governor

### ● 150mm(6") / Safety Grip



NAG-6XA

### ● 180mm(7") / Safety Grip / Lightweight



NAG-70S

(Compact Body)

NAG-70A

### ● 180mm(7") / Safety Lever / Lightweight



NAG-70ALW

### ● 180mm(7") / Safety Grip / Powerful



NAG-2

(Short Spindle Type)

NAG-2E

(Long Spindle Type)

### ● 180mm(7") / Safety Lever / Powerful



NAG-2ELW

(Long Spindle Type)

Wheel not included.

Model	Code	Capacity (Wheel size)		Spindle thread	Max.free speed	Overall length		Height		Mass		Max. output		Air inlet thread		Hose size		Average air consumption	
		mm	in			in	min <sup>-1</sup>	mm	in	mm	in	kg	lb	kw	ps	RC / NPT	mm	in	m <sup>3</sup> /min
NAG-6XA	10023	150x6x22	6 x 1/4 x 7/8	5/8" -11UNC	9000	229	9	110	4 5/16	2.5	5.5	0.87	1.10	1/4	12.7	1/2	0.65	23	
NAG-6XALW	10024	150x6x22	6 x 1/4 x 7/8	5/8" -11UNC	9000	250	9 13/16	110	4 5/16	2.5	5.5	0.81	1.10	1/4	12.7	1/2	0.65	23	
NAG-70S	10026	180x6x22	7 x 1/4 x 7/8	5/8" -11UNC	7600	238	9 3/8	109	4 5/16	2.8	5.5	1.30	1.70	3/8	12.7	1/2	1.1	38.8	
NAG-70A	10756	180x6x22	7 x 1/4 x 7/8	5/8" -11UNC	7600	260	10 1/4	107	4 3/16	3.1	6.1	1.20	1.60	3/8	12.7	1/2	1.2	42.4	
NAG-70ALW	10742	180x6x22	7 x 1/4 x 7/8	5/8" -11UNC	7600	279	11 1/32	107	4 3/16	3.1	6.8	1.20	1.60	3/8	12.7	1/2	1.2	42.4	
NAG-2	10037	180x6x22	7 x 1/4 x 7/8	5/8" -11UNC	7600	276	10 7/8	126	4 15/16	4.0	8.8	1.32	1.80	3/8	12.7	1/2	1.2	42.4	
NAG-2E	10038	180x6x22	7 x 1/4 x 7/8	5/8" -11UNC	7600	276	10 7/8	138	5 7/16	4.1	9.0	1.32	1.80	3/8	12.7	1/2	1.2	42.4	
NAG-2ELW	10039	180x6x22	7 x 1/4 x 7/8	5/8" -11UNC	7600	321	12 5/8	138	5 7/16	4.1	9.0	1.32	1.80	3/8	12.7	1/2	1.2	42.4	

## Build-in Governor

### ● 180mm(7") / Safety Grip

High Speed & Powerful



NAG-77HA

### ● 180mm(7") / Safety Lever

High Speed & Powerful



NAG-77HALW

### ● 230mm(9") / Safety Grip



NAG-230E

(Long Spindle Type)

### ● 230mm(9") / Safety Lever

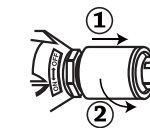


NAG-230ELW

(Long Spindle Type)

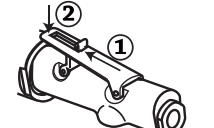
#### Safety Grip

- ① Pull back the sleeve.
- ② Turn it anticlockwise.



#### Safety Lever

- ① Slide the stopper.
- ② Push down the lever.



Wheel not included.

Model	Code	Capacity (Wheel size)		Spindle thread	Max.free speed	Overall length		Height		Mass		Max. output		Air inlet thread	Hose size		Average air consumption	
		mm	in			in	min <sup>-1</sup>	mm	in	mm	in	kg	lb		kw	ps	RC / NPT	mm
NAG-77HA	10032	180x6x22.2	7 x 1/4 x 7/8	5/8" -11UNC	8400	282	11 1/8	120	4 3/4	4.1	9.0	1.50	2.10	3/8	12.7	1/2	1.4	49.4
NAG-77HALW	10034	180x6x22.2	7 x 1/4 x 7/8	5/8" -11UNC	8400	324	12 3/4	120	4 3/4	4.1	9.0	1.50	2.10	3/8	12.7	1/2	1.4	49.4
NAG-230E	10040	230x6x22	9 x 1/4 x 7/8	5/8" -11UNC	5500	276	10 7/8	138	5 7/16	4.4	9.7	1.32	1.80	3/8	12.7	1/2	1.2	42.4
NAG-230ELW	10041	230x6x22	9 x 1/4 x 7/8	5/8" -11UNC	5500	321	12 5/8	138	5 7/16	4.3	9.5	1.32	1.80	3/8	12.7	1/2	1.2	42.4

# Die Grinders

For precise and delicate finishing, such as deburring and removing points.

## ■ Lever Type / Safety Lever Type



**RG-16AK-06** (6mm collet)  
Aluminium housing



Lever Type **RG-25-06** (6mm collet)  
**RG-25-20** (1/4" collet)  
Aluminium housing  
\*3mm & 1/8" collets also available.

## ■ Grip Type



**RG-38CA-06** (6mm collet)  
**RG-38CA-20** (1/4" collet)  
Composite plastic housing



**RG-382A-06** (6mm collet)  
**RG-382A-20** (1/4" collet)  
Aluminium housing

## ■ Safety Lever Type



**RG-38CX-06** (6mm collet)  
**RG-38CX-20** (1/4" collet)  
Composite plastic housing

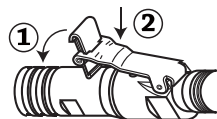


**RG-383-06** (6mm collet)  
**RG-383-20** (1/4" collet)  
Aluminium housing

\*Back exhaust type is also available.  
Model: RG-38BSLW

### Safety Lever

- ① Slide up the stopper.
- ② Push down the lever.



Option : 3 mm Collet Bushing

Code No.15000720



For changing 6 mm collet to 3 mm collet.  
Just insert this bushing to 6 mm collet chuck.

Model	Code	Collet size mm/in	Capacity (Wheel size)		Max.free speed min <sup>-1</sup>	Overall length		Mass		Max. output		Air inlet thread Rc or NPT	Hose size		Average air consumption	
			mm	in		mm	in	kg	lb	kw	ps		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
RG-16AK-06	10725	6mm	φ16	5/8	35000	178	7	0.4	0.88	0.30	0.41	1/4	6.3	1/4	0.25	8.8
RG-16AKLW-06	10731	6mm	φ16	5/8	35000	178	6 <sup>15</sup> / <sub>16</sub>	0.4	0.88	0.30	0.41	1/4	6.3	1/4	0.25	8.8
RG-16AKLW-20	10806	1/4"														
RG-25-06	10140	6mm	φ20	13/16	30000	174	6 <sup>7</sup> / <sub>8</sub>	0.52	1.1	0.41	0.56	1/4	6.3	1/4	0.4	14.1
RG-25-20	10484	1/4"														
RG-25LW-06	10143	6mm	φ20	13/16	30000	176	6 <sup>15</sup> / <sub>16</sub>	1.1	2.4	0.41	0.56	1/4	6.3	1/4	0.4	14.1
RG-25LW-20	10486	1/4"														
RG-38CA-06	15303	6mm	φ25	1	22000	189	7 <sup>7</sup> / <sub>16</sub>	0.5	1.1	0.42	0.57	1/4	9.5	3/8	0.5	17.7
RG-38CA-20	15305	1/4"														
RG-382A-06	15304	6mm	φ25	1	22000	184	7 <sup>1</sup> / <sub>4</sub>	0.5	1.1	0.42	0.57	1/4	9.5	3/8	0.5	17.7
RG-382A-20	15306	1/4"														
RG-38CX-06	15180	6mm	φ25	1	22000	183	7 <sup>3</sup> / <sub>16</sub>	0.6	1.3	0.42	0.57	1/4	9.5	3/8	0.5	17.7
RG-38CX-20	15302	1/4"														
RG-383-06	15179	6mm	φ25	1	22000	178	7	0.6	1.3	0.42	0.57	1/4	9.5	3/8	0.5	17.7
RG-383-20	15300	1/4"														

# Vertical Grinders

- Outstanding grinding power provided by durable vertical motor.
- Ideal for grinding large areas.

## ■ Build-in Governor

### ■ Lever Type

● 180mm(7")



NVG-180SL

● 230mm(9")



NVG-230SL

### ■ Safety Lever Type

● 180mm(7")



NVG-180SLW

● 230mm(9")



NVG-230SLW

Wheel not included.

Model	Code	Capacity (Wheel size)		Spindle thread in	Max.free speed min <sup>-1</sup>	Overall length		Mass		Max. output		Air inlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in			mm	in	kg	lb	kw	ps		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NVG-180SL	10119	180x6x22	7x <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	5/8"-11UNC	7100	187	7 <sup>3</sup> / <sub>8</sub>	3.8	8.4	1.87	2.54	3/8	12.7	1/2	1.1	38.8
NVG-180SLW	10120	180x6x22	7x <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	5/8"-11UNC	7100	187	7 <sup>3</sup> / <sub>8</sub>	3.8	8.4	1.87	2.54	3/8	12.7	1/2	1.0	35.3
NVG-230SL	10122	230x6x22	9x <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	5/8"-11UNC	5900	189	7 <sup>7</sup> / <sub>16</sub>	4.2	9.2	1.87	2.54	3/8	12.7	1/2	1.1	38.8
NVG-230SLW	10123	230x6x22	9x <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	5/8"-11UNC	5900	189	7 <sup>7</sup> / <sub>16</sub>	4.2	9.2	1.87	2.54	3/8	12.7	1/2	1.1	38.8

## CNS Grinders

- Ideal for fine finish work and removal of block scale, oxide layer, or paint.

### ■ Safety Grip Type



NHG-65G



NHG-75G

### ■ Optional CNC Grinding Wheels

Model	CNS Wheel / Size	Code No.
NHG-65G	Uni Wheel Type 65x13 (mm) 2 <sup>9</sup> / <sub>16</sub> x1/2 (inch)	24906005
	Disc Type 100x13 (mm) 4x1/2 (inch)	24906003

Model	Code	Capacity (Wheel size)		Max.free speed min <sup>-1</sup>	Overall length		Height		Mass		Max. output		Airinlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in		mm	in	mm	in	kg	lb	kw	ps		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NHG-65G	10044	65x26x9.5	2 <sup>1</sup> / <sub>2</sub> x1 x <sup>3</sup> / <sub>8</sub>	14000	310	12 <sup>3</sup> / <sub>16</sub>	-	-	1.3	2.9	0.58	0.79	1/4	9.5	3/8	0.55	19.4
NHG-75G	10074	100x26x9.5	4 x <sup>1</sup> / <sub>4</sub> x <sup>5</sup> / <sub>8</sub>	6000	328	12 <sup>15</sup> / <sub>16</sub>	-	-	1.7	3.7	0.77	1.05	1/4	9.5	3/8	0.45	15.9

## Wire Brush Sanders

- Ideal for removing rust and paint, and descaling beads after welding.

### ■ Safety Grip Type



NAG-70WA

### ■ Safety Lever Type



NAG-70WALW

Model	Code	Capacity (Wheel size)		Max.free speed min <sup>-1</sup>	Overall length		Height		Mass		Max. output		Airinlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in		mm	in	mm	in	kg	lb	kw	ps		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NAG-70WA	10744	120x22	4 <sup>3</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	6500	257	10 <sup>1</sup> / <sub>8</sub>	109	4 <sup>5</sup> / <sub>16</sub>	2.8	6.2	1.2	1.6	3/8	12.7	1/2	0.9	31.8
NAG-70WALW	10714	120x22	4 <sup>3</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	6500	276	10 <sup>7</sup> / <sub>8</sub>	109	4 <sup>5</sup> / <sub>16</sub>	2.8	6.2	1.2	1.6	3/8	12.7	1/2	0.9	31.8

Comfortable, compact, and perfectly balanced sanders for finishing.

### ■ Lever Type

● 100mm(4")



NSG-100

### ■ Grip Type

● 125mm(5")



NSG-125

### ■ Safety Grip Type

● 150mm(6")



NSG-150X

### ■ Safety Grip Type

● 180mm(7")



NSG-180XC

### ■ Safety Lever Type

● 180mm(7")



NSG-180XCLW

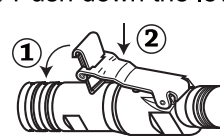
**Safety Grip**

- ① Pull back the sleeve.
- ② Turn it anticlockwise.



**Safety Lever**

- ① Slide up the stopper.
- ② Push down the lever.



Model	Code	Capacity (Wheel size)		Max.free speed min <sup>-1</sup>	Overall length		Height		Mass		Airinlet thread Rc or NPT	Hose size		Average air consumption	
		mm	in		mm	in	mm	in	kg	lb		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NSG-100	10176	100x16	4 x <sup>5</sup> / <sub>8</sub>	13000	161	6 <sup>5</sup> / <sub>16</sub>	102	4	0.9	2.0	1/4	6.3	1/4	0.4	14.1
NSG-125	15313	125x16	5 x <sup>7</sup> / <sub>8</sub>	11000	190	7 <sup>1</sup> / <sub>2</sub>	190	7 <sup>1</sup> / <sub>2</sub>	1.5	3.3	1/4	9.5	3/8	0.65	23.0
NSG-150X	15309	150x22	6 x <sup>7</sup> / <sub>8</sub>	8400	209	8 <sup>1</sup> / <sub>4</sub>	179	7 <sup>1</sup> / <sub>16</sub>	2.2	4.8	3/8	12.7	1/2	0.65	23.0
NSG-180XC	15307	180x22	7 x <sup>7</sup> / <sub>8</sub>	7600	209	8 <sup>1</sup> / <sub>4</sub>	179	7 <sup>1</sup> / <sub>16</sub>	2.2	4.8	3/8	12.7	1/2	0.65	23.0
NSG-180XCLW	15308	180x22	7 x <sup>7</sup> / <sub>8</sub>	7600	239	9 <sup>7</sup> / <sub>16</sub>	190	8 <sup>1</sup> / <sub>2</sub>	2.4	5.3	3/8	12.7	1/2	0.65	23.0

# Saw · File / Dia Cutter

## Saw · File

- Remarkable cutting speed by its dual action design.
- Rubber grip for operator comfort.



**Saw · AS-22A**  
2 pcs of 32 teeth saws included.

### Option saw for AS-22A



Teeth	Code No.
24 Teeth	24906130
32 Teeth	24906133

### Option file for AS-22AF



Name	Code No.
Flat File	24906196



Round File	24906162
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Semi-round File	24906183
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Triangle File	24906166
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**File · AS-22AF**  
1 pc each of 4 files included.

Model	Code	Max. sheet thickness mild steel		Free frequency per minute	Overall length		Mass		Airinlet thread	Hose size		Average air consumption	
		mm	in		mm	in	kg	lb		Rc or NPT	mm	in	m <sup>3</sup> /min
AS-22A	10791	1.5	1/16	10000	212	8 <sup>3</sup> / <sub>8</sub>	0.6	1.3	1/4	6.3	1/4	0.25	8.8
AS-22AF	10810	-	-	6500	203	8	0.6	1.3	1/4	6.3	1/4	0.11	3.9

## Dia Cutter

- Designed for speedy cutting and trimming work.
- Many applications including automotive repairing, and window frame, sheet metal, and fiber glass manufacturing.



**DAC-11**

### Option diamond cutter



Code No.  
15102450

1 cutter included.

Model	Code	Max. sheet thickness mild steel		Max. free speed	Overall length		Mass		Airinlet thread	Hose size		Average air consumption	
		mm	in		mm	in	kg	lb		Rc or NPT	mm	in	m <sup>3</sup> /min
DAC-11	10225	54x1.0x10	2 <sup>1</sup> / <sub>8</sub> x1 <sup>1</sup> / <sub>16</sub> x3 <sup>3</sup> / <sub>8</sub>	13000	298	11 <sup>3</sup> / <sub>4</sub>	1.7	3.7	1/4	6.3	1/4	0.45	15.9

# Accessories for Installing Grinding Wheels

## Standard Accessories for Grinders

Shape	Name	Shape	Name
	Open Ended Spanner		Turning Spanner
	Turning Rod		Flange Spanner
	Allen Wrench		

## Installing Grinding Wheel

Model	Drawing	Model	Drawing
NAG-1F(LW)-05 NAG-400		NAG-2E(LW) NAG-230E(LW)	
NAG-1F(LW)-04		NAG-70WA(LW)	
NAG-6XA(LW) NAG-70S NAG-70A(LW) NAG-77HA(LW) NSG-180XB(LW)		NVG-180SL NVG-180SLW NVG-230SL NVG-230SLW	

# Tappers / Drills

## Reversible Tappers

- Used widely such as in automobile manufacturing / maintenance, ship building, & aluminium sash production.



NRT-8P



NRT-10H



Buttons for changing rotation direction

\*Chuck not included and available at an option.

Model	Code	Tapping/Drilling capacity		Jacobs chuck	Free speed	Overall length		Mass		Spindle offset		Max. output		Air inlet thread	Hose size		Average air consumption	
		mm	in			mm	in	kg	lb	mm	in	kw	ps		Rc or NRT	mm	in	m <sup>3</sup> /min
NRT-8P	10631	8	5/16	No.1	1700	181	7 <sup>1</sup> / <sub>8</sub>	1.2	2.6	23	7/8	0.37	0.51	1/4	9.5	3/8	0.55	19.4
NRT-10H	15322	10	5/16	2S	350	257	10 <sup>1</sup> / <sub>8</sub>	2.0	4.4	160	6 <sup>5</sup> / <sub>16</sub>	0.42	0.57	1/4	9.5	3/8	0.6	21.2

## Non Reversible Drills

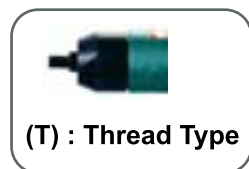
- Compact & lightweight, and designed for heavy duty work.
- Please select drill chuck type: taper or thread.



Taper: NRD-6SA  
Thread: NRD-6SA(T)



Taper: NRD-6PB  
Thread: NRD-6PB(T)



(T) : Thread Type



Taper: NRD-10P  
Thread: NRD-10P(T)



Taper: NRD-12PA  
Thread: NRD-12PA(T)

\*Chuck not included and available at an option.

Model	Code	Drilling capacity		Jacobs chuck / thread	Free speed	Overall length		Mass		Max. output		Air inlet thread	Hose size		Average air consumption	
		mm	in			mm	in	kg	lb	kw	ps		Rc or NRT	mm	in	m <sup>3</sup> /min
NRD-6SA	10622	6.5	1/4	No.1	2800	166	6 <sup>9</sup> / <sub>16</sub>	0.8	1.8	0.4	0.54	1/4	6.3	1/4	0.5	17.7
NRD-6SA(T)	10204	6.5	1/4	3/8-24UNF												
NRD-6PB	10623	6.5	1/4	No.1	2400	150	5 <sup>7</sup> / <sub>8</sub>	0.8	1.8	0.4	0.54	1/4	6.3	1/4	0.5	17.7
NRD-6PB(T)	10205	6.5	1/4	3/8-24UNF												
NRD-10P	10214	10	3/8	No.2S	2000	155	6 <sup>1</sup> / <sub>8</sub>	1.1	2.4	0.44	0.6	1/4	9.5	3/8	0.55	19.4
NRD-10P(T)	10626	10	3/8	3/8-24UNF												
NRD-12PA	10215	13	1/2	No.6	1500	187	7 <sup>3</sup> / <sub>8</sub>	2.6	5.7	0.71	0.97	1/4	9.5	3/8	0.65	23
NRD-12PA(T)	10216	13	1/2	1/2-20UNF												

# Drills

## Reversible Drills

- Heavy duty reversible drills for powerful and smooth drilling operation.
- Preferred for production work in shipyards, construction sites, and railroad shops.



Safety lever type

Grip Type  
NRD-14R  
NRD-16R  
NRD-19R  
NRD-22R

Safety Lever Type  
NRD-14RLW  
NRD-16RLW  
NRD-19RLW  
NRD-22RLW



Grip Type  
NRD-23R  
NRD-25R  
NRD-28R  
NRD-32LR

Safety Lever Type  
NRD-23RLW  
NRD-25RLW  
NRD-28RLW  
NRD-32LRLW

(LW): Safety lever type

Model	Code	Drilling capacity		Spindle morse taper	Free speed	Overall height		Mass		From center to outside		Feed length		Max. output		Air inlet thread	Hose size		Average air consumption	
		mm	in			No.	min <sup>-1</sup>	mm	in	kg	lb	mm	in	mm	in		mm	in	kw	ps
NRD-14R	10217	14	9/16	1	1100	438	17 <sup>1</sup> / <sub>4</sub>	5.3	11.7	39	1 <sup>9</sup> / <sub>16</sub>	60	2 <sup>3</sup> / <sub>8</sub>	1.11	1.51	3/8	12.7	1/2	1.1	38.8
NRD-14RLW	10603	14	9/16	1	1100	438	17 <sup>1</sup> / <sub>4</sub>	5.3	11.7	39	1 <sup>9</sup> / <sub>16</sub>	60	2 <sup>3</sup> / <sub>8</sub>	1.11	1.51	3/8	12.7	1/2	1.1	38.8
NRD-16R	10218	16	5/8	2	900	452	17 <sup>3</sup> / <sub>4</sub>	5.5	12.1	39	1 <sup>9</sup> / <sub>16</sub>	60	2 <sup>3</sup> / <sub>8</sub>	1.11	1.51	3/8	12.7	1/2	1.1	38.8
NRD-16RLW	10604	16	5/8	2	900	452	17 <sup>3</sup> / <sub>4</sub>	5.5	12.1	39	1 <sup>9</sup> / <sub>16</sub>	60	2 <sup>3</sup> / <sub>8</sub>	1.11	1.51	3/8	12.7	1/2	1.1	38.8
NRD-19R	10219	19	3/4	2	750	452	17 <sup>3</sup> / <sub>4</sub>	5.5	12.1	39	1 <sup>9</sup> / <sub>16</sub>	60	2 <sup>3</sup> / <sub>8</sub>	1.11	1.51	3/8	12.7	1/2	1.1	38.8
NRD-19RLW	10605	19	3/4	2	750	452	17 <sup>3</sup> / <sub>4</sub>	5.5	12.1	39	1 <sup>9</sup> / <sub>16</sub>	60	2 <sup>3</sup> / <sub>8</sub>	1.11	1.51	3/8	12.7	1/2	1.1	38.8
NRD-22R	10220	22	7/8	2	600	452	17 <sup>3</sup> / <sub>4</sub>	5.5	12.1	39	1 <sup>9</sup> / <sub>16</sub>	60	2 <sup>3</sup> / <sub>8</sub>	1.11	1.51	3/8	12.7	1/2	1.1	38.8
NRD-22RLW	10606	22	7/8	2	600	452	17 <sup>3</sup> / <sub>4</sub>	5.5	12.1	39	1 <sup>9</sup> / <sub>16</sub>	60	2 <sup>3</sup> / <sub>8</sub>	1.11	1.51	3/8	12.7	1/2	1.1	38.8
NRD-23R	10221	23	7/8	2	500	353	13 <sup>7</sup> / <sub>8</sub>	10.5	23.1	41	1 <sup>5</sup> / <sub>8</sub>	100	4	1.84	2.5	1/2	12.7	1/2	1.4	49.4
NRD-23RLW	10607	23	7/8	2	500	353	13 <sup>7</sup> / <sub>8</sub>	10.5	23.1	41	1 <sup>5</sup> / <sub>8</sub>	100	4	1.84	2.5	1/2	12.7	1/2	1.4	49.4
NRD-25R	10222	25	1	3	400	353	13 <sup>7</sup> / <sub>8</sub>	10.3	22.7	41	1 <sup>5</sup> / <sub>8</sub>	100	4	1.84	2.5	1/2	12.7	1/2	1.4	49.4
NRD-25RLW	10608	25	1	3	400	353	13 <sup>7</sup> / <sub>8</sub>	10.3	22.7	41	1 <sup>5</sup> / <sub>8</sub>	100	4	1.84	2.5	1/2	12.7	1/2	1.4	49.4
NRD-28R	10223	28	1 <sup>1</sup> / <sub>8</sub>	3	350	353	13 <sup>7</sup> / <sub>8</sub>	10.3	22.7	41	1 <sup>5</sup> / <sub>8</sub>	100	4	1.84	2.5	1/2	12.7	1/2	1.4	49.4
NRD-28RLW	10609	28	1 <sup>1</sup> / <sub>8</sub>	3	350	353	13 <sup>7</sup> / <sub>8</sub>	10.3	22.7	41	1 <sup>5</sup> / <sub>8</sub>	100	4	1.84	2.5	1/2	12.7	1/2	1.4	49.4
NRD-32LR	10224	32	1 <sup>1</sup> / <sub>4</sub>	3	270	353	13 <sup>7</sup> / <sub>8</sub>	10.3	22.7	41	1 <sup>5</sup> / <sub>8</sub>	100	4	1.84	2.5	1/2	12.7	1/2	1.4	49.4
NRD-32LRLW	10610	32	1 <sup>1</sup> / <sub>4</sub>	3	270	353	13 <sup>7</sup> / <sub>8</sub>	10.3	22.7	41	1 <sup>5</sup> / <sub>8</sub>	100	4	1.84	2.5	1/2	12.7	1/2	1.4	49.4



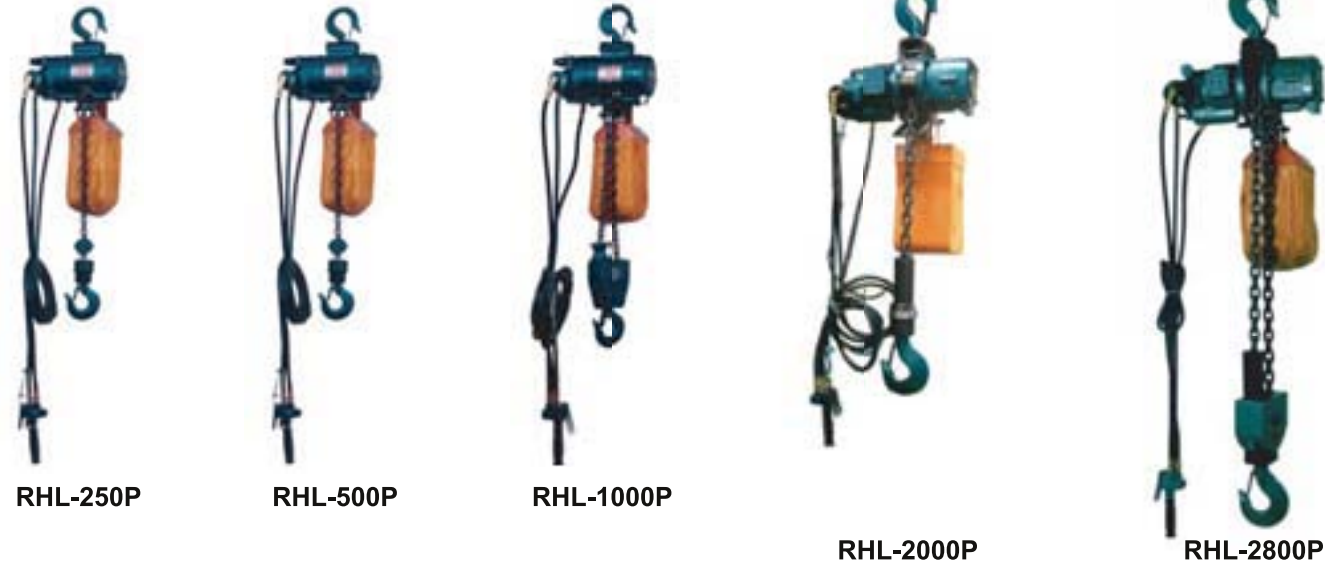
# Hoists

- Lightweight, and compact design.
- Excellent resistance against high temperature, humidity, and heavy dust.
- Lifting and lowering speed is easily adjustable.
- Outstanding inching feature provides precise load control.

## ■ Pull Cable Type



## ■ Pendant Control Type

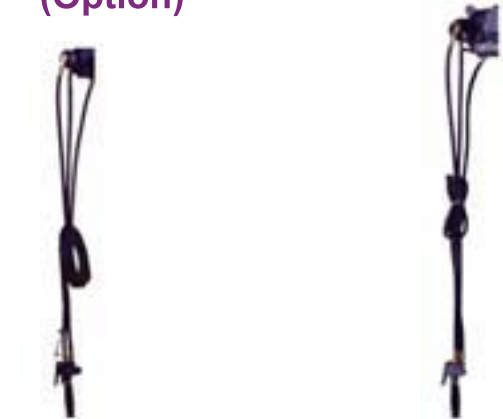


## ■ Pendant Control Type with Load Limiter



NRE-1000

## ■ Pendant Control (Option)



PCU-1000  
for RHL-250 to RHL-1000

PCU-2800  
for RHL-2000 to RHL-2800

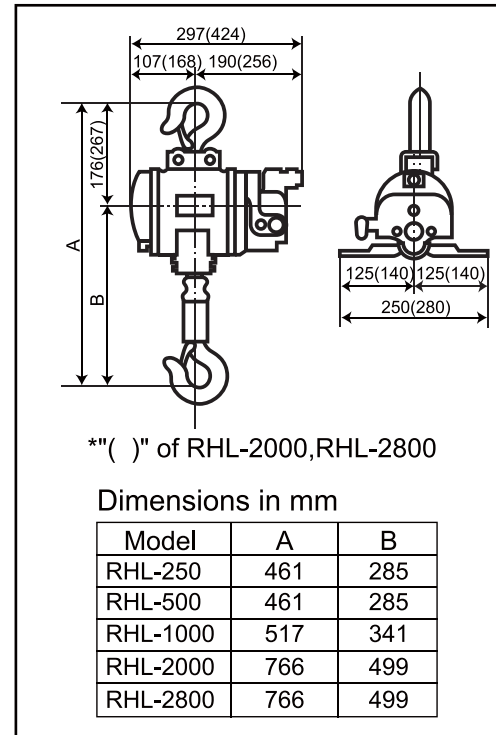
## ■ Lift Option:

- Standard lift is 3 meter. Available up to 20 meter.
- Maximum lift with the standard chain bucket.
  - RHL-250, RHL-500: Max. Lift 8m (26.2ft)
  - RHL-1000: Max. Lift 4m (13.1ft)
  - RHL-2000: Max. Lift 6m (19.7ft)
  - RHL-2800: Max. Lift 3m (9.8ft)
- \*For longer lift, the larger buckets are available at an option.

## Pendant Type Control:

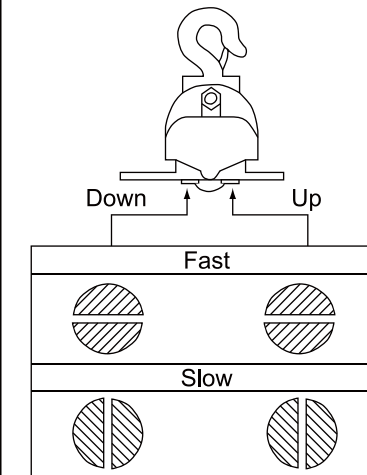
- Enables single hand control.
- Maximum length of pendant control hose: 5m

## ■ Outline Drawing



## ■ Speed Adjustment

External screw adjustment of lifting / lowering speeds.



## ■ Max. Lifting Speed

Load (kg)	RHL -250	RHL -500	RHL -1000	RHL -2000	RHL -2800
125	50	32			
250	27	25.7	16	10	12
375		20	14.4	9.5	11.5
500		12.6	13	9	11
750			10	8.3	10
1,000			5.7	7.4	9.2
1,500				5.7	7.3
2,000				4	5.4
2,500					3.6
2,800					2.2

Air Pressure: 0.6MPa  
Speed Adjuster: Maximum Speed


Model	Code	Chain	Capacity		Standard lift		Standard chain length		Lifting speed max. load		Mass		Air inlet thread	Hose size		Average air consumption	
			kgf	lb	m	ft	m	ft	m/min	ft/min	kg	lb		Rc/NPT	mm	in	m <sup>3</sup> /min
RHL-250	10815	Link	250	550	3.0	9.8	3.5	11.5	27	88.6	16	35.2	3/8	12.7	1/2	1.3	45.9
RHL-500	10813	Link	500	1100	3.0	9.8	3.5	11.5	12.6	41.3	16	35.2	3/8	12.7	1/2	1.3	45.9
RHL-1000	10817	Link	1000	2200	3.0	9.8	6.7	22	5.7	18.7	22	48.4	3/8	12.7	1/2	1.3	45.9
RHL-2000	15325	Link	2000	4400	3.0	9.8	4.5	15	4	13.1	57	125.4	G1	19	3/4	1.7	60
RHL-2800	10240	Link	2800	6160	3.0	9.8	7.5	24.6	2.2	7.2	68.5	151	G1	19	3/4	1.7	60
RHL-250(P)	10819	Link	250	550	3.0	9.8	3.5	11.5	27	88.6	18	39.6	3/8	12.7	1/2	1.3	45.9
RHL-500(P)	10821	Link	500	1100	3.0	9.8	3.5	11.5	12.6	41.3	18	39.6	3/8	12.7	1/2	1.3	45.9
RHL-1000(P)	10823	Link	1000	2200	3.0	9.8	6.7	22	5.7	18.7	23.5	51.7	3/8	12.7	1/2	1.3	45.9
RHL-2000(P)	15330	Link	2000	4400	3.0	9.8	4.5	15	4	13.1	60	132	G1	19	3/4	1.7	60
RHL-2800(P)	10241	Link	2800	6160	3.0	9.8	7.5	24.6	2.2	7.2	71.5	157.6	G1	19	3/4	1.7	60
NRE-1000	15174	Link	1000	2200	3.0	9.8	6.7	22	5	16.4	28	61.6	3/8	12.7	1/2	1.05	37.1


# Flux Scaling Hammers



- Ideal tools for chipping stone, metal, concrete, brick and weld flux.
- 1 standard chisel included (except for NF-20).











## Chisels & Tools

NF-00, NF-0			
Chisel	Length	Code No.	
	120	17509210 (standard)	
	150	17300601	
	200	15410980	
	300	17300763	

NF-20			
Chisel	Length	Code No.	
	130	17300842	
	155	17300843	
	200	17300844	
	250	17300845	
300	17300846		

NF-1SH			
Angle Flat Chisel	Length	Code No.	
	155	17509330 (standard)	
	210	17300624	
	210	17300624	
Straight Flat Chisel			
	155	17300774	
	210	17300614	
	210	17300614	

NFB-25H			
Chisel	Length	Code No.	
	200	17509980 (standard)	
	300	17300666	
	300	17300666	

NF-25F			
Angle Flat Chisel	Length	Code No.	
	155	17509760 (standard)	
	210	17300656	
Straight Flat Chisel			
	155	17509750	
	210	17300649	
	210	17300649	
Carbide Chip Point Chisel			
	165	17509770	
	165	17509770	
Carbide Chip Flat Chisel			
	155	17509780	
	155	17509780	
Carbide Chip Wide Flat Chisel			
	155	17509790	
	155	17509790	
Stone Scraping Tool			
	9 Teeth	Code No. 17509800	
	9 Teeth	Code No. 17509800	
Stone Scraping Tool			
	16 Teeth	Code No. 17509810	
	16 Teeth	Code No. 17509810	

Model	Code	Blow per minute	Piston diameter		Piston stroke		Overall length		Mass		Air inlet thread	Hose size		Average air consumption	
			mm	in	mm	in	mm	in	kg	lb		Rc or NRT	mm	in	m <sup>3</sup> /min
NF-00	30038	6500	14	9/16	12	1/2	162	6 <sup>7</sup> / <sub>16</sub>	0.55	1.2	1/4	6.3	1/4	0.23	8.1
NF-0	30039	5500	18	11/16	18	11/16	177	6 <sup>15</sup> / <sub>16</sub>	0.8	1.8	1/4	6.3	1/4	0.23	8.1
NF-20	30447	5000	20	13/16	17	11/16	200	7 <sup>7</sup> / <sub>8</sub>	0.88	1.9	1/4	6.3	1/4	0.15	5.3
NF-1SH	30040	4800	22	7/8	22	7/8	185	7 <sup>3</sup> / <sub>8</sub>	0.94	2.1	1/4	6.3	1/4	0.25	8.8
NF-25F	30044	4800	25	1	17	11/16	226	8 <sup>7</sup> / <sub>8</sub>	1.5	3.3	1/4	9.5	3/8	0.2	7.1
NFB-25H	30043	4000	25.4	1	23	7/8	264	10 <sup>7</sup> / <sub>16</sub>	2.0	4.4	1/4	9.5	3/8	0.55	19.4


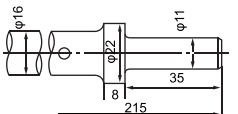
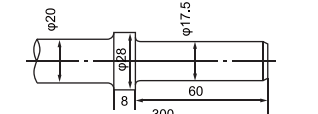

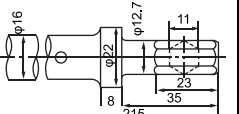
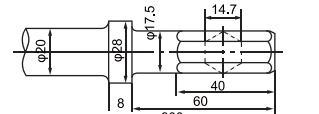
# Chipping Hammers

Powerful and durable chipping hammers for a wide range of applications.






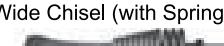


\* Chisel retaining type: round (R) or hex (H)  
\* Chisel not included. Available at an option.

## Shank Type & Dimension

Round (R)	AA-00SP, AA-0SP	1ASP, 2SP, 3SP, 15XSP, 75SP, 3XBSP	Hex (H)	AA-00SP, AA-0SP	1ASP, 2SP, 3SP, 15XSP, 75SP, 3XBSP
					

## Chisels

AA-00SP, AA-0SP	Type	Width	Length	Code No.	1ASP, 2SP, 3SP, 15XSP, 75SP, 3XBSP	Type	Width	Length	Code No.
	Round (R)	16	215 350	17501350 17300123		Round (R)	20	300 500	17501870 17300422
	Hex (H)	16	215 350	17501390 17300087		Hex (H)	20	300 500	17501910 17300290
	Round (R)	-	220 350	17501360 17300111		Round (R)	-	300 500	17501880 17300378
	Hex (H)	-	220 350	17501400 17300075		Hex (H)	-	300 500	17501920 17300244
	Round (R)	40	215	17300823		Round (R)	72	300	17300825
	Hex (H)	40	215	17300822		Hex (H)	72	300	17300824

Model	Code	Blow per minute	Piston diameter		Piston stroke		Overall length		Mass		Air inlet thread	Hose size		Average air consumption	
			mm	in	mm	in	mm	in	kg	lb		Rc or NRT	mm	in	m <sup>3</sup> /min
AA-00SP(R)	30076	3800	18	11/16	45	1 <sup>3</sup> / <sub>4</sub>	233	9 <sup>3</sup> / <sub>16</sub>	2.1	4.6	1/4	9.5	3/8	0.3	10.6
AA-00SP(H)	30077														
AA-0SP(R)	30080	3200	18	11/16	75	3	281	11 <sup>1</sup> / <sub>16</sub>	2.4	5.3	1/4	9.5	3/8	0.35	12.4
AA-0SP(H)	30081														
AA-1ASP(R)	30084	2800	24	15/16	51	2	300	11 <sup>13</sup> / <sub>16</sub>	4.2	9.2	3/8	12.7	1/2	0.4	14.1
AA-1ASP(H)	30085														
AA-2SP(R)	30090	2400	28	1 <sup>1</sup> / <sub>8</sub>	51	2	312	12 <sup>5</sup> / <sub>16</sub>	5.9	13.0	3/8	12.7	1/2	0.5	17.7
AA-2SP(H)	30091														
AA-3SP(R)	30100	2000	28	1 <sup>1</sup> / <sub>8</sub>	76	3	339	13 <sup>3</sup> / <sub>8</sub>	6.2	13.6	3/8	12.7	1/2	0.5	17.7
AA-3SP(H)	30101														
AA-75SP(R)	30102	2000	28	1 <sup>1</sup> / <sub>8</sub>	76	3	344	13 <sup>9</sup> / <sub>16</sub>	6.2	13.6	3/8	12.7	1/2	0.5	17.7
AA-75SP(H)	30103														
AA-15XSP(R)	30327	2000	24	15/16	70	2 <sup>3</sup> / <sub>4</sub>	342	13 <sup>7</sup> / <sub>16</sub>	4.9	10.8	3/8	12.7	1/2	0.5	17.7
AA-15XSP(H)	30328														
AA-3XBSP(R)	30110	2000	28	1 <sup>1</sup> / <sub>8</sub>	76	3	347	13 <sup>11</sup> / <sub>16</sub>	6.9	15.2	3/8	12.7	1/2	0.5	17.7
AA-3XBSP(H)	30111														

# Auto Chisellers

- Multi-purpose tools with a wide range of chisels.
- Good use for narrow spaces.
- Widely used for automobile repair and sheet metal work.



**NBH-400**  
(External Power Regulator,  
Retainer Spring)

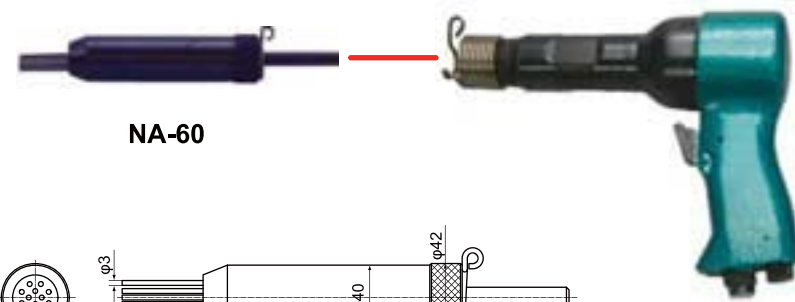


**NBH-600A**  
(Built-in Power Regulator,  
Retainer Spring)

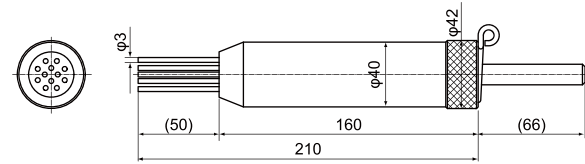
\*Chisel not included.

Model	Code	Capacity				Blow per minute	Piston diameter		Piston stroke		Overall length		Mass		Air inlet thread	Hose size		Average air consumption	
		Duralumin		Steel			mm	in	mm	in	mm	in	kg	lb		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
		mm	in	mm	in														
NBH-400	30070	6.4	1/4	4.8	3/16	1600	13	1/2	95	3 <sup>3</sup> / <sub>4</sub>	217	8 <sup>9</sup> / <sub>16</sub>	1.4	3.1	1/4	9.5	3/8	0.11	3.9
NBH-600A	30072	8	5/16	6.4	1/4	1500	19	3/4	68	2 <sup>11</sup> / <sub>16</sub>	228	9	4.4	1/4	9.5	3/8	0.16	5.7	

## Needle Scaler Attachment for NBH-600A

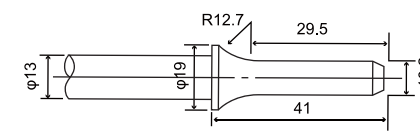


**NA-60**

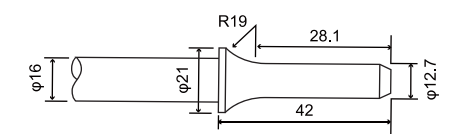


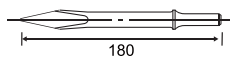

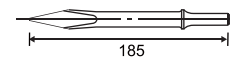
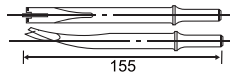

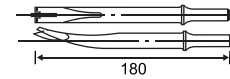
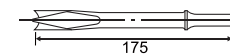

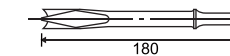
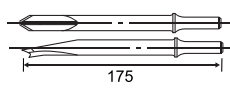

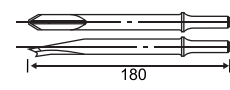


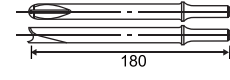
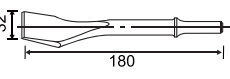

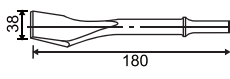
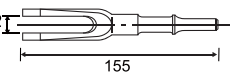

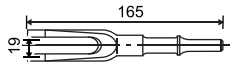


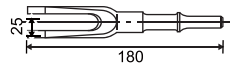
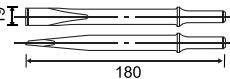

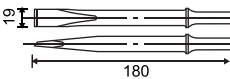
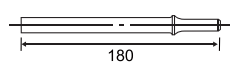

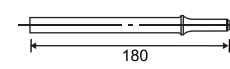
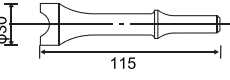

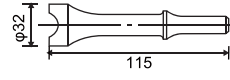
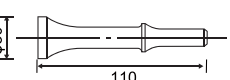

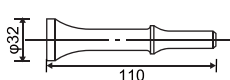
## Chisels for Auto Chisellers

For NBH-400



For NBH-600A



Dimension	Code No.	Shape	Dimension	Code No.
	Demolition Point Chisel 17500220			Demolition Point Chisel 17500510
	Panel Cutter 17500110			Panel Cutter 17500400
	Sheet Metal Cutter 17500120			Sheet Metal Cutter 17500410
	Muffler Cutter 17500130			Muffler Cutter 17500420
	Bushing Remover 17500140			Bushing Remover 17500430
	Paint Scraper 17500150			Paint Scraper 17500440
	Fork Chisel 17500200			Fork Chisel Width 19mm 17500450
	Fork Chisel 17500200			Fork Chisel Width 25mm 17500460
	Flat Chisel 17500190			Flat Chisel 17500500
	Straight Punch 17500160			Straight Punch 17500470
	Tie Rod Tool 17500170			Tie Rod Tool 17500480
	Smoothing Tool 17500180			Smoothing Tool 17500490

# New Kelens / Stone Scraper

## New Kelens

- Long scalers for removal of scales, rust, and dirt.
- Ideal for removing scale and rust of ships or concrete dross in mixer agitators.
- 1 chisel is included (length 200 mm / width 38 mm).



NNK-250  
NNK-250L



NNK-500  
NNK-500L



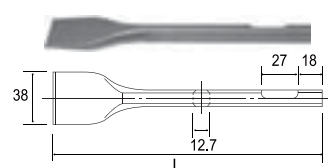
NNK-1000  
NNK-1000L



L: Lever Type

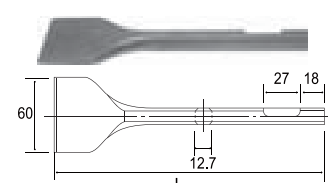
### Chisels for New Kelens

● Width 38mm



Length mm (L)	Code No.
200	17510080
300	17300676

● Width 60mm



Length mm (L)	Code No.
200	17510100
300	17300689

Model	Code	Blow per minute min <sup>-1</sup>	Piston diameter		Piston stroke		Overall length		Mass		Air inlet thread Rc or NRT	Hose size		Average air consumption	
			mm	in	mm	in	mm	in	kg	lb		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NNK-250	30306	4000	25.4	1	23	7/8	514	20 <sup>1</sup> / <sub>4</sub>	3.4	7.5	3/8	9.5	3/8	0.45	15.9
NNK-250L	30337	4000	25.4	1	23	7/8	571	22 <sup>1</sup> / <sub>2</sub>	4.5	9.9	3/8	9.5	3/8	0.45	15.9
NNK-500	30045	4000	25.4	1	23	7/8	754	29 <sup>11</sup> / <sub>16</sub>	4.2	9.2	3/8	9.5	3/8	0.45	15.9
NNK-500L	30335	4000	25.4	1	23	7/8	801	31 <sup>9</sup> / <sub>16</sub>	5.3	11.7	3/8	9.5	3/8	0.45	15.9
NNK-1000	30046	4000	25.4	1	23	7/8	1284	50 <sup>9</sup> / <sub>16</sub>	5.8	12.8	3/8	9.5	3/8	0.45	15.9
NNK-1000L	30336	4000	25.4	1	23	7/8	1341	52 <sup>13</sup> / <sub>16</sub>	6.9	15.2	3/8	9.5	3/8	0.45	15.9

## Stone Scraper

- Designed for roughing concrete and stone.
- Powerful and light.
- Rubber handles reduce vibration.



NB-10A

### Scraper Heads (Option)

9 Teeth	16 Teeth	25 Teeth	36 Teeth
17511270	17511280	17511290	17511300

Model	Code	Blow per minute min <sup>-1</sup>	Height		Mass		Air inlet thread Rc or NRT	Hose size		Average air consumption	
			mm	in	kg	lb		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NB-10A	30400	2500	210	8 1/4	10	22	3/8	9.5	3/8	0.35	12.4

# Sand Rammers / Scaling Hammers

## Sand Rammers

- Ideal tools for compacting sand molds and firebricks.
- Please specify butt type; rubber or steel.

B-00A(R)  
B-00A(S)



F-00(R)  
F-00(S)



B-0A(R)  
B-0A(S)



F-0(R)  
F-0(S)



B-1A(R)  
B-1A(S)



F-1(R)  
F-1(S)



(R): Rubber butt  
(S): Steel butt



Steel butt

F-2(R)  
F-2(S)



F-4(R)  
F-4(S)



Model	Code	Piston diameter		Piston stroke		Overall length		Mass		Butt diameter		Air inlet thread Rc or NRT	Hose size		Average air consumption	
		mm	in	mm	in	mm	in	kg	lb	mm	in		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
B-00A(R)	30028	18	5/16	60	2 <sup>3</sup> / <sub>8</sub>	337	13 <sup>1</sup> / <sub>4</sub>	2.1	4.6	40	1 <sup>9</sup> / <sub>16</sub>	1/4	9.5	3/8	0.2	7.1
B-0A(R)	30030	22	7/8	60	2 <sup>3</sup> / <sub>8</sub>	380	14 <sup>15</sup> / <sub>16</sub>	3.1	6.8	50	2	1/4	12.7	1/2	0.25	8.8
B-1A(R)	30032	25.4	1	110	4 <sup>5</sup> / <sub>16</sub>	502	19 <sup>3</sup> / <sub>4</sub>	5.4	11.9	64	2 <sup>1</sup> / <sub>2</sub>	3/8	12.7	1/2	0.4	14.1
F-00(R)	30017	18	11/16	60	2 <sup>3</sup> / <sub>8</sub>	390	15 <sup>3</sup> / <sub>8</sub>	2.1	4.6	40	1 <sup>9</sup> / <sub>16</sub>	3/8	9.5	3/8	0.2	7.1
F-0(R)	30019	22	7/8	60	2 <sup>3</sup> / <sub>8</sub>	435	17 <sup>1</sup> / <sub>8</sub>	3.1	6.8	50	2	3/8	12.7	1/2	0.25	8.8
F-1(R)	30021	25.4	1	110	4 <sup>5</sup> / <sub>16</sub>	1142	43 <sup>24</sup> / <sub>25</sub>	6.8	15.0	64	2 <sup>1</sup> / <sub>2</sub>	1/2	12.7	1/2	0.4	14.1
F-2(R)	30023	32	1 <sup>1</sup> / <sub>4</sub>	120	4 <sup>3</sup> / <sub>4</sub>	1204	44 <sup>2</sup> / <sub>5</sub>	9.0	19.8	70	2 <sup>3</sup> / <sub>4</sub>	1/2	12.7	1/2	0.55	19.4
F-4(R)	30025	40	1 <sup>9</sup> / <sub>16</sub>	120	4 <sup>3</sup> / <sub>4</sub>	1209	47 <sup>3</sup> / <sub>5</sub>	12.0	26.4	87	3 <sup>7</sup> / <sub>16</sub>	1/2	12.7	1/2	0.85	30

## Scaling Hammers

- Suitable for surfacing concrete and stone.



S-2A, S-2A(C)  
S-2AL, S-2AL(C)

L: Lever Type



MS-30, MS-30(C)  
MS-30L, MS-30L(C)

L: Lever Type

(C): Carbide tipped piston type

Model	Code	Blow per minute min <sup>-1</sup>	Piston diameter		Piston stroke		Overall length		Height		Mass		Air inlet thread Rc or NRT	Hose size		Average air consumption	
			mm	in	mm	in	mm	in	mm	in	kg	lb		mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
S-2A	30036	3500	30	1 <sup>3</sup> / <sub>16</sub>	15	9/16	490	19 <sup>5</sup> / <sub>16</sub>	100	3 <sup>15</sup> / <sub>16</sub>	2.1	4.6	3/8	9.5	3/8	0.4	14.1
S-2A(C)	30037										2.7	5.9					
S-2AL	30332	3500	30	1 <sup>3</sup> / <sub>16</sub>	15	9/16	496	19 <sup>1</sup> / <sub>2</sub>	100	3 <sup>15</sup> / <sub>16</sub>	2.7	5.9	3/8	9.5	3/8	0.4	14.1
S-2AL(C)	30355										3.2	7.0					
MS-30	30051	7000	22	7/8	10	3/8	326	12 <sup>13</sup> / <sub>16</sub>	86	3 <sup>3</sup> / <sub>8</sub>	3.2	7.0	3/8	12.7	1/2	0.55	19.4
MS-30(C)	30052										3.8	8.4					
MS-30L	30333	7000	22	7/8	10	3/8	332	13 <sup>1</sup> / <sub>16</sub>	86	3 <sup>3</sup> / <sub>8</sub>	3.8	8.4	3/8	12.7	1/2	0.55	19.4
MS-30L(C)	30401																

# Concrete Breakers / Digger

# Cleaner

## Concrete Breakers

- Durable and low reaction breakers for demolition of concrete, building, asphaltic pavement, and for removal of slug in a furnace.



\*Chisel not included.

Model	Code	Blow per minute	Piston diameter		Piston stroke		Overall length		Mass		Air inlet thread	Hose size		Average air consumption	
		min <sup>-1</sup>	mm	in	mm	in	mm	in	kg	lb	G	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
CB-15B	30430	1300	38	1 1/2	130	5 1/8	499	19 5/8	13.5	29.7	1	19.0	3/4	1.4	49.4
CB-20A	30002	950	38	1 3/4	150	5 15/16	555	21 7/8	20.0	44.1	1	19.0	3/4	1.2	42.4
CB-30B	30459	850	45	1 3/4	165	6 1/2	595	23 7/16	28.5	62.8	1	19.0	3/4	1.4	49.4

### Option chisels for Concrete Breakers

Model	Chisel	Code No.
CB-15B		400 mm 17508320
		600 mm 15410140
CB-20A		400 mm 17504670
		600 mm 15410150
CB-30B		470 mm 17504930

### Option muffler



## Digger

- Light weight and easy to operate.
- Suitable for scaling concrete and for digging soil.



DIG-9

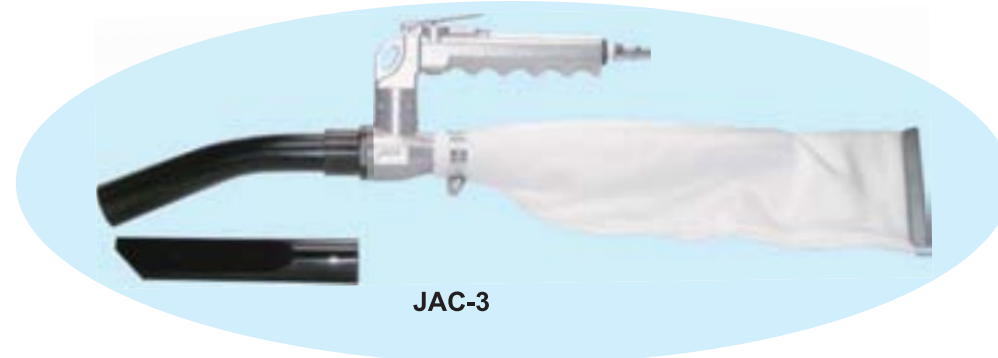
\*1 chisel included.

### Option chisel for digger

Model	Chisel	Code No.
DIG-9		17508840

Model	Code	Blow per minute	Piston diameter		Piston stroke		Overall length		Mass		Air inlet thread	Hose size		Average air consumption	
		min <sup>-1</sup>	mm	in	mm	in	mm	in	kg	lb	Rc or NPT	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
DIG-9	30014	1500	42.8	1 11/16	63.5	2 1/2	478	18 13/16	8.8	19.4	3/8	12.7	1/2	1.1	38.8

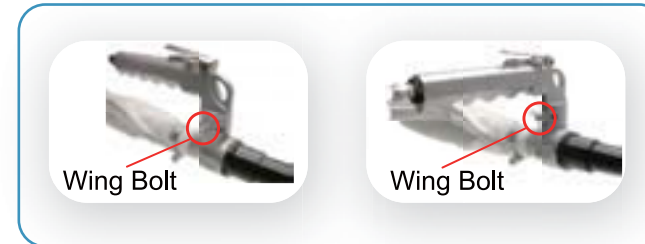
- Powerful and compact design.
- Has no moving parts, is durable and tough.
- No concern on electrification or electric leak.
- 1 narrow nozzle included.



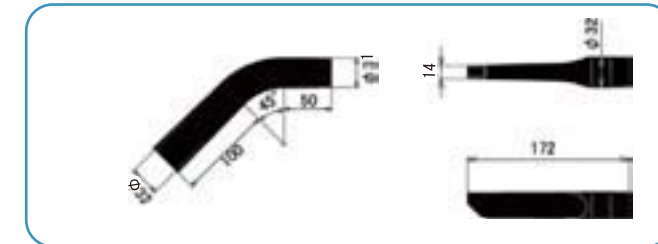
JAC-3



### Handle angle is changeable.



### Nozzle Dimension

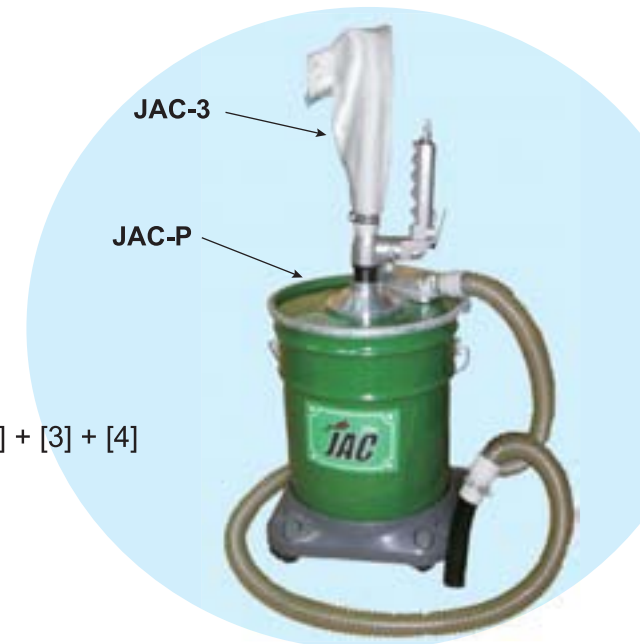


Model	Code	Sucking	Overall length		Mass		Suction hose diameter		Air inlet thread	Hose size		Average air consumption	
		mmAq	mm	in	kg	lb	mm	in	Rc or NPT	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
JAC-3	15336	2200	230	9 1/16	0.77	1.7	32	1 1/4	1/4	9.5	3/8	0.8	28.3

## Option for JAC-3 Dust and Liquid Cleaner

- Dust and liquid are collected in a pail can.
- Insert JAC-2 or JAC-3 into JAC-P to start.
- Optional auto-stopper prevents overflow.

Combination of below [1] + [2] + [3] + [4]



### JAC-P & Option Accessories



# Vibrators / One-Punch Hammers

## Vibrators

- Powerful, durable and easy maintenance vibrators for material flow handling.
- Effectively vibrate on hoppers, tanks, chutes, feeders etc.
- Ideal for clean / sanitary applications such as for food and chemical industries.

### Air Cushion Type

- Low noise and highly durable as piston dose not directly hit plate.



**NLV-1518AL  
NLV-2125AL  
NLV-2430BL**  
(Silencer included,  
Lubrication free)



**NLV-4856AL  
NLV-55**



**NLV-75A**

### Impact Type

- Powerful as piston directly hits plate.
- Features cushion sheet on plate to reduce noise.



**NLV-1518A  
NLV-2125A  
NLV-2430B**  
(Silencer included,  
Lubrication free)



**NLV-4856A**

### Rotary Type

- Low noise, and steady vibration.



**NRV-5223**  
(Wheel Type)



**NRV-30112**  
(Ball Type)

Model	Code	Vibration per minute	Height		Mass		Bolt size		Bolt pitch		Air pressure	Air inlet thread	Hose size		Average air consumption	
			mm	in	kg	lb	mm	in	mm	in			mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
NLV-1518AL	30054	3650	110	4 <sup>5</sup> / <sub>16</sub>	1.6	3.5	8	-	□35	1 <sup>3</sup> / <sub>8</sub>	0.6	1/8	6.3	1/4	0.16	5.7
NLV-2125AL	30056	3500	120	4 <sup>3</sup> / <sub>4</sub>	2.2	4.8	8	-	□43	1 <sup>11</sup> / <sub>16</sub>	0.6	1/8	6.3	1/4	0.23	8.1
NLV-2430BL	30058	3500	130	5 <sup>1</sup> / <sub>8</sub>	2.8	6.2	8	-	□50	2	0.6	1/8	6.3	1/4	0.24	8.5
NLV-4856AL	30059	2050	220	8 <sup>11</sup> / <sub>16</sub>	18.6	40.9	16	-	□136	5 <sup>3</sup> / <sub>8</sub>	0.6	3/8	9.5	3/8	0.66	23.3
NLV-1518A	30053	4500	110	4 <sup>5</sup> / <sub>16</sub>	1.6	3.5	8	-	□35	1 <sup>3</sup> / <sub>8</sub>	0.4	1/8	6.3	1/4	0.06	2.1
NLV-2125A	30055	4350	120	4 <sup>3</sup> / <sub>4</sub>	2.2	4.8	8	-	□43	1 <sup>11</sup> / <sub>16</sub>	0.4	1/8	6.3	1/4	0.07	2.5
NLV-2430B	30057	3500	130	5 <sup>1</sup> / <sub>8</sub>	2.8	6.2	8	-	□50	2	0.4	1/8	6.3	1/4	0.08	2.8
NLV-4856A	30061	2100	220	8 <sup>11</sup> / <sub>16</sub>	18.7	41.1	16	-	□136	5 <sup>3</sup> / <sub>8</sub>	0.4	3/8	9.5	3/8	0.39	13.8
NLV-55	30064	2450	196	7 <sup>11</sup> / <sub>16</sub>	10.3	22.7	16	-	□102	4	0.4	3/8	9.5	3/8	0.51	18.0
NLV-75A	30065	2050	276	10 <sup>7</sup> / <sub>8</sub>	32.5	71.5	22	-	□149	5 <sup>7</sup> / <sub>8</sub>	0.4	1/2	12.7	1/2	0.63	22.2
NRV-5223	30066	9400	111	4 <sup>3</sup> / <sub>8</sub>	2.5	5.5	12	1/2	130	4 <sup>1</sup> / <sub>8</sub>	0.6	1/4	6.3	1/4	0.5	17.7
NRV-30112	30169	18000	83	3 <sup>1</sup> / <sub>4</sub>	0.4	0.9	8	5/16	-	-	0.6	1/8	6.3	1/4	0.15	5.3

## One-Punch Hammers

- Delivers a strong impact with its piston powered by compressed air.
- Effectively removes adhesive materials which tend to bridge and rathole in tanks, hoppers, and chutes.
- Impact energy can be adjusted.
- No rubrication required.
- Impact frequency can be accurately controlled with an optional controller.



**OPH-40**



**OPH-60**

Model	Code	Impact energy			Height		Mass		Average air consumption		Recommend air pressure		
		J	kgf · m	ft · lb	mm	in	kg	lb	m <sup>3</sup> /min	ft <sup>3</sup> /min	MPa	kg/cm <sup>3</sup>	psi
OPH-40	30309	14.8~44.3	1.51~4.53	10.9~32.7	203	8	3.0	6.6	1.0	35.3	0.2~0.6	2~6	28~85
OPH-60	30317	54~108	5.51~11.0	39.9~79.6	245	9 <sup>5</sup> / <sub>8</sub>	6.6	14.5	1.5	53.0	0.3~0.6	3~6	43~85

**Vibrator  
NLV-2430B**



**One-Punch Hammer  
OPH-60**



**One-Punch Hammer  
OPH-40**





TMC-200A

### Applications:

- Torque reading and adjustment of pulse wrenches and nut runners.
- Torque reading of torque wrenches.
- Torque reading and adjustment of impact wrenches (at less than 120 Nm).

### Features:

- Clear and easy to read LED digital display.
- Peak hold function.
- Can be measured at both forward and reverse rotation.
- Blow counter
- Results can be downloaded to PC with USB port.
- Adjustable auto-clear function.
- Automatic power off function.

Model		TMC-200A
Code		60073
Torque	Measuring range Nm	3.0 to 200.0
	Measuring accuracy Nm	± 0.5%
Blow	Range Blow	0 to 99
	Time Sec.	0.1 to 9.9
Response frequency KHz		0.5
Power		Rechargeable battery (NiCd 1.2v 700mAh x5 Cells) Charger: AC100V to 240 V Automatic power off (after 5 mins.)
Length mm	Amp	cm: 148 x 48 x 115 / in: 58 <sup>1</sup> / <sub>4</sub> x 18 <sup>1</sup> / <sub>16</sub> x 45 <sup>5</sup> / <sub>16</sub>
	Sensor head	cm: 110 x 72 x 110 / in: 43 <sup>5</sup> / <sub>16</sub> x 28 <sup>6</sup> / <sub>16</sub> x 43 <sup>5</sup> / <sub>16</sub>
Weight kg	Amp	0.6kg / 1.3lb
	Sensor head	1.8kg / 3.9lb

### Operation & Measurement Guide:

When an extension bar, extended socket, or universal joint is used, torque transmission from the tool to the bolt can be lowered. As a result, the expected torque may not be obtained, and/or the shut off type tools may not shut off. For more information, please contact your local dealer or NPK Japan.

## Air Motor

Compact, powerful and durable air motor for a wide range of applications.



CM-14020C

Model	Code	Max.free speed	Max. Torque	Max. Output	Overall length		Mass		Air inlet thread	Hose size		Average air consumption	
		min <sup>-1</sup>	Nm	kw	mm	in	kg	lb	Rc or NPT	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
CM-14020C	70002	200	160	0.96	337	13 <sup>1</sup> / <sub>4</sub>	8.7	19.2	3/8	12.7	1/2	1.4	49.4

## For Daily Maintenance

### Air Tool Oil

Air tool oil helps to prevent rust inside tools, and extends the life of tools.



Code No. : 28699105  
Volume : 4 Liter (140 fl oz)

### Oiler

- Automatically lubricates the tool.
- Attached directly to tools.
- Lubrication amount adjustable.
- Visible remaining oil level.



Free Rotation Type

Air Inlet Thread	Model	Code No.
Rc-1/4	NO-20	28699049
Rc-3/8	NO-30	28699050

