









# Air Tools

VESSEL considers that the tools used during work must not only be convenient, but also people friendly.

VESSEL's philosophy of tools approaches air tools based on this concept, and its products are designed to thoroughly satisfy people from the aspects of performance, durability, and safety.

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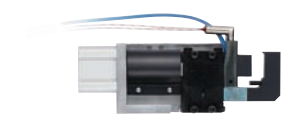
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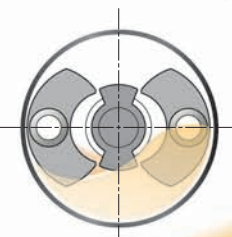
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# Air Screwdrivers

Reduced noise at installation sites!  
 Low noise, low vibration specifications.  
 The "OIL Xtra" series changes vibration noise to a soft sound by circulating oil in the impact section of the unit.



## Oil Xtra Series



### Oil Circulating System



The impact mechanism is filled with lubricating oil. In addition to changing the impact noise to a softer, smoother sound, the oil prevents part damage due to friction.









CE Approved  
 VESSEL's Oil Xtra series is manufactured in accordance with European Standards (EN792), and labeled in accordance with the basic rules of EN ISO vibration and noise standards.

※Only for referential purposes.

 Small screw		 Phillips	Applicable Models
<b>M1.6</b>	<b>0</b>		H2
<b>M1.7</b>	<b>0</b>		H2
<b>M2</b>	<b>0 (Old JIS 1)</b>		H2, S4TFG, S4TG
<b>M2.2</b>	<b>1</b>		H2
<b>M2.3</b>	<b>0 (Old JIS 1)</b>		H2, S4TFG, S4TFS, S4TG, S4TS
<b>M2.5</b>	<b>1</b>		S4TFG, S4TFS, S4TG, S4TS, S5TFG, S5TG
<b>M2.6</b>	<b>0 (Old JIS 1)</b>		H4RC, S4TFS, S4TS, S5TFG, S5TG
<b>M3</b>	<b>1 (Old JIS 2)</b>		H4R, H4PR, PH4, H4RC, S4TFS, S4TFR, S4TS, S4TR, S5TFG, S5TFB, S5TG, S5TB
<b>M3.5</b>	<b>2</b>		H4R, H4PR, PH4, H4RC, H5R, H5P, H5, H5RC, S4.5DR, P4.5DR, PLR, PLP, PLZ, PLRC, P5LS, S4TFR, S4TR, S5TFB, S5TFR, S5TB, S5TR, PLXD, S4.5XD, P4.5XD
<b>M4</b>	<b>2</b>		H5R, H5P, PH5, H5RC, S4.5DR, P4.5DR, PLR, PLP, PLZ, PLRC, P5LS, S5TFR, S5TR, S5TS, PLXD, S4.5XD, P4.5XD
<b>M4.5</b>	<b>2</b>		H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, PLRC, P5LS, P6LSIII, P6HS, PLHII, P6OXD, S6MLR, S6HS, S6CD, S5TFR, S5TR, S5TS, PLXD, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD
<b>M5</b>	<b>2</b>		H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, PLRC, P5LS, P6LSIII, P6HS, PLHII, P6OXD, S6MLR, S6HS, S6CD, S5TFR, S5TR, S5TS, PLXD, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD
<b>M6</b>	<b>3</b>		P6LSIII, P6HS, PLHII, S6MLR, S6HS, S5TS, S6.5D, P6.5D, S6CD, P6EXD, S6LXD, P6LXD, P6OXD
<b>M8</b>	<b>4 (Old JIS 3)</b>		S6.5D, P6.5D, P8D, P10SII, P6OXW
<b>M10</b>	<b>4</b>		P8D, P10SII

 Wood screw		 Phillips	Applicable Models
<b>1.8</b>	<b>—</b>		H4R, H4PR, PH4
<b>2.1</b>	<b>1</b>		H4R, H4PR, PH4
<b>2.4</b>	<b>1</b>		H4R, H4PR, PH4
<b>2.7</b>	<b>1</b>		H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, S4.5XD, P4.5XD
<b>3.1</b>	<b>2</b>		H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, S4.5XD, P4.5XD
<b>3.5</b>	<b>2</b>		H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, P6LSIII, P6HS, PLHII, S6MLR, S6HS, S6CD, PLXD, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD P6OXD
<b>3.8</b>	<b>2</b>		PLHII, P6LSIII, S6MLR, S6HS, P6HS, S6CD, S6.5D, P6.5D, PLXD, P6EXD, S6LXD, P6LXD, P6OXD
<b>4.1</b>	<b>2</b>		PLHII, P6LSIII, S6MLR, S6HS, P6HS, S6CD, S6.5D, P6.5D, P6EXD, S6LXD, P6LXD, P6OXD
<b>4.5</b>	<b>2</b>		S6.5D, P6.5D, P6EXD, P6OXD, P8D, P10SII
<b>4.8</b>	<b>2</b>		P8D, P10SII, P6EXD
<b>5.1</b>	<b>3</b>		P8D, P10SII
<b>5.5</b>	<b>3</b>		P8D, P10SII
<b>5.8</b>	<b>3</b>		P8D, P10SII
<b>6.2</b>	<b>3</b>		P8D, P10SII

 Tapping screw		 Phillips	Applicable Models
<b>3.5</b>	<b>2</b>		H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, S4.5XD, P4.5XD
<b>4</b>	<b>2</b>		H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, P6LSIII, P6HS, PLHII, S6MLR, S6HS, S6.5D, P6.5D, S6CD, PLXD, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD, P6OXD
<b>4.2</b>	<b>2</b>		P6LSIII, P6HS, PLHII, S6MLR, S6HS, S6.5D, P6.5D, S6CD, PLXD, P6EXD, S6LXD, P6LXD, P6OXD
<b>4.5</b>	<b>2</b>		P6LSIII, P6HS, PLHII, S6MLR, S6HS, S6.5D, P6.5D, S6CD, P6EXD, S6LXD, P6LXD, P6OXD
<b>4.8</b>	<b>2</b>		P6.5D, P6OXD
<b>5</b>	<b>2</b>		P6.5D, P8D, P10SII, P6OXD
<b>5.5</b>	<b>3</b>		P8D, P10SII
<b>6</b>	<b>3</b>		P8D, P10SII

 Hexagonal recess bolt		 Hexagonal head bolt	 H (mm)	 H (mm)	Applicable Models
<b>M2.5</b>	<b>2.0</b>		<b>5.0</b>		H4RC
<b>M3</b>	<b>2.5</b>		<b>5.5</b>		H4R, H4PR, PH4, H4RC
<b>M3.5</b>	<b>—</b>		<b>6.0</b>		H4R, H4PR, PH4, H4RC, H5RC
<b>M4</b>	<b>3.0</b>		<b>7.0</b>		H4R, H4PR, PH4, H5R, H5P, PH5, H5RC, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, PLRC, PLXD, S4.5XD, P4.5XD
<b>M5</b>	<b>4.0</b>		<b>8.0</b>		H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, P6LSIII, P6HS, PLHII, S6MLR, S6HS, S6CD, PLRC, PLXD, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD P6OXD
<b>M6</b>	<b>5.0</b>		<b>10.0</b>		P6LSIII, P6HS, PLHII, S6MLR, S6HS, S6.5D, P6.5D, S6CD, P6EXD, S6LXD, P6LXD, P6OXD
<b>M7</b>	<b>—</b>		<b>11.0</b>		S6.5D, P6.5D, P6OXD
<b>M8</b>	<b>6.0</b>		<b>13.0</b>		S6.5D, P6.5D, P8D, P10SII, P6OXD
			<b>16.0</b>		
<b>M10</b>	<b>8.0</b>	<b>(Old JIS 17.0)</b>	<b>(Small bolt 12.0)</b>		P8D, P10SII
			<b>(Small bolt 14.0)</b>		



# Air Screwdrivers Oil Xtra Series



Standard screw >> 4~5mm



No. **GT-S4.5XD** 6.35

- Bit-sleeve retainer
- Noise reducer



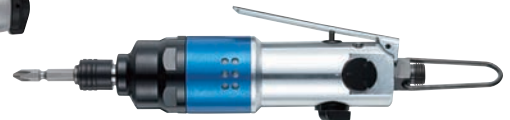
Accessories  
Impact parts oil: VG-32 (Green) ...1 pc.  
Rotary parts oil: VG-10 (White) ...1 pc.



No. **GT-P4.5XD** 6.35

- Bit-sleeve retainer
- Noise reducer
- Rear exhaust

Accessories  
Impact parts oil: VG-32 (Green) ...1 pc.  
Rotary parts oil: VG-10 (White) ...1 pc.



No. **GT-PLXD** 6.35

- Bit-sleeve retainer
- Noise reducer

Accessories  
Impact parts oil: VG-32 (Green) ...1 pc.  
Rotary parts oil: VG-10 (White) ...1 pc.



Standard screw >> 5~6mm



No. **GT-P6EXD** 6.35

- Bit-sleeve retainer
- Noise reducer
- Rear exhaust

Accessories  
Impact parts oil: VG-32 (Green) ...1 pc.  
Rotary parts oil: VG-10 (White) ...1 pc.

Air Impact Screwdriver for House Building

No. **GT-P6EXD (A)**



- Consisting of:
- GT-P6EXD ...1 pc.
  - Magnetic double end bit
    - M-A14  $\varnothing 2 \times 65H$  ...5 pcs.
    - $\varnothing 2 \times 110H$  ...3 pcs.
    - $\varnothing 2 \times 150H$  ...2 pcs.
  - Bit holder ...1 pc.
  - Plug BPB-2 ...1 pc.
  - Impact parts oil: VG-32 (Green) ...1 pc.
  - Rotary parts oil: VG-10 (White) ...1 pc.
  - Carrying case (355×355×100mm)



No. **GT-S6LXD** 6.35

- Bit-sleeve retainer
- Noise reducer

Accessories  
Impact parts oil: VG-32 (Green) ...1 pc.  
Rotary parts oil: VG-10 (White) ...1 pc.



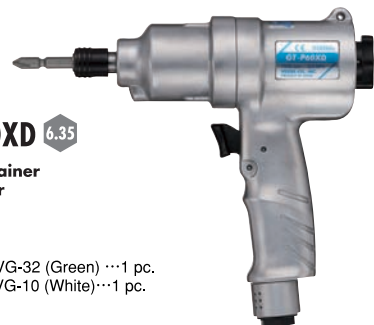
Standard screw >> 6~8mm



No. **GT-P6LXD** 6.35

- Bit-sleeve retainer
- Noise reducer
- Rear exhaust

Accessories  
Impact parts oil: VG-32 (Green) ...1 pc.  
Rotary parts oil: VG-10 (White) ...1 pc.



No. **GT-P60XD** 6.35

- Bit-sleeve retainer
- Noise reducer
- Rear exhaust

Accessories  
Impact parts oil: VG-32 (Green) ...1 pc.  
Rotary parts oil: VG-10 (White) ...1 pc.

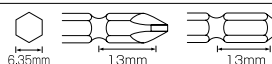
Model No.	Capacity (mm)				No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories	
	Standard Screw	Tapping Screw	Wood Screw	Bolt						Bit	Plug
GT-S4.5XD	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	14,500	0.2	G 1/4	188	585	A14 $\varnothing 2 \times 65G$	BPN-2F
GT-P4.5XD	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	14,000	0.2	Rc 1/4	170	735	A14 $\varnothing 2 \times 65G$	BPB-2
GT-PLXD	4.0~5.0	3.8~4.2	3.3~3.8	4.0~5.0	11,000	0.35	G 1/4	198.5	670	A14 $\varnothing 2 \times 65G$	BPN-2F
GT-S6LXD	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	12,000	0.4	G 1/4	212	815	A14 $\varnothing 2 \times 65G$	BPN-2F
GT-P6LXD	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	12,500	0.45	Rc 1/4	184	876	A14 $\varnothing 2 \times 65G$	BPB-2
GT-P6EXD	5.0~6.0	4.0~4.5	3.6~4.8	5.0~6.0	9,300	0.55	Rc 1/4	155	1,085	A14 $\varnothing 2 \times 65G$	BPB-2
GT-P60XD	6.0~8.0	4.0~5.0	3.8~4.5	6.0~8.0	7,500	0.38	Rc 1/4	176	1,130	A14 $\varnothing 2 \times 65E/\varnothing 3 \times 65E$	BPB-2

• Air pressure: 0.6 MPa • Air hose diameter: 6.35 mm • Overall length and Weight: Accessories and hanger parts not included.  
• Capacity is listed as instant reference and depends on operation conditions.

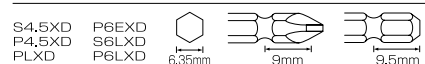
### Bit installation anvil application

Unless otherwise, following bit specification should be standardized.

### Standard type in Japan



### ※Option: Following retainer anvil is available.



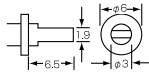
# Air Screwdrivers Clutch Type

Standard screw >> **1.6~2.3mm**

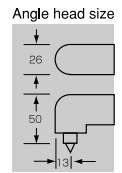
Standard screw >> **2.6~3.5mm**



- No. GT-H2** 3
- Guide spring retainer
  - Push startup type
  - Rear exhaust



- No. GT-H4RC** 6.35
- Ball spring retainer
  - Noise reducer



Standard screw >> **3~4mm**



- No. GT-H4R** 6.35
- Ball spring retainer
  - Lever push starting
  - Noise reducer



- No. GT-H4PR** 6.35
- Ball spring retainer
  - Push startup type
  - Rear exhaust

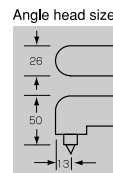


- No. GT-PH4** 6.35
- Ball spring retainer
  - Lever push starting
  - Noise reducer
  - Rear exhaust

Standard screw >> **3.5~4.5mm**



- No. GT-H5RC** 6.35
- Ball spring retainer



Standard screw >> **4~5mm**



- No. GT-H5R** 6.35
- Ball spring retainer
  - Lever push starting



- No. GT-H5P** 6.35
- Ball spring retainer
  - Push startup type
  - Rear exhaust



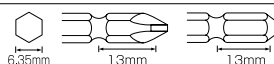
- No. GT-PH5** 6.35
- Ball spring retainer
  - Lever push starting
  - Noise reducer
  - Rear exhaust

Model No.	Capacity (mm)				No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories	
	Standard Screw	Tapping Screw	Wood Screw	Bolt						Bit	Plug
GT-H2	1.6~2.3	—	—	—	3,200	0.16	G 1/4	164	267	A7 $\Phi$ 0×36H/ $\Phi$ 1×36H	BPN-2F
GT-H4R	3~4	—	1.8~2.4	3~4	1,500	0.2	G 1/4	190	590	A14 $\Phi$ 2×65G	BPN-2F
GT-H4PR	3~4	—	1.8~2.4	3~4	1,500	0.19	G 1/4	213	610	A14 $\Phi$ 2×65G	BPN-2F
GT-PH4	3~4	—	1.8~2.4	3~4	1,500	0.19	Rc 1/4	180	770	A14 $\Phi$ 2×65G	BPB-2
GT-H4RC	2.6~3.5	—	—	2.6~3.5	1,500	0.2	G 1/4	216	735	B39 $\Phi$ 2×23H	BPN-2F
GT-H5R	4~5	3.5~4	2.7~3.5	4~5	1,500	0.25	G 1/4	225	880	A14 $\Phi$ 2×65G	BPN-2F
GT-H5P	4~5	3.5~4	2.7~3.5	4~5	1,500	0.25	G 1/4	235	880	A14 $\Phi$ 2×65G	BPN-2F
GT-PH5	4~5	3.5~4	2.7~3.5	4~5	1,500	0.25	Rc 1/4	200	1,070	A14 $\Phi$ 2×65G	BPB-2
GT-H5RC	3.5~4.5	—	—	3.5~4.5	1,500	0.25	G 1/4	248	1,047	B39 $\Phi$ 2×23H	BPN-2F

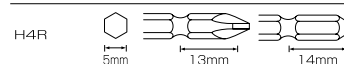
• Air pressure: 0.6 MPa • Air hose diameter: 6.35 mm • Overall length and Weight...Accessories and hanger parts not included.  
• Capacity is listed as instant reference and depends on operation conditions.

**Bit installation anvil application**  
Unless otherwise, following bit specification should be standardized.

Standard type in Japan



※Option: Following retainer anvil is available.





# Air Screwdrivers Impact Type



Standard screw >> 4~5mm



No. **GT-S4.5DR** 6.35

- Bit-sleeve retainer
- Noise reducer



No. **GT-PLR** 6.35

- Ball spring retainer



No. **GT-PLZ** 6.35

- Bit-sleeve retainer
- Noise reducer



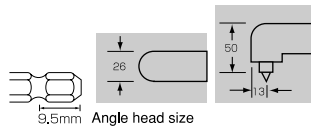
No. **GT-PLP** 6.35

- Ball spring retainer
- Push startup type
- Rear exhaust



No. **GT-PLRC** 6.35

- Ball spring retainer



No. **GT-P4.5DR** 6.35

- Bit-sleeve retainer
- Noise reducer
- Rear exhaust



No. **GT-P5LS** 6.35

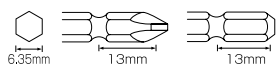
- Bit-sleeve retainer
- Noise reducer
- Rear exhaust

Model No.	Capacity (mm)				No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories	
	Standard Screw	Tapping Screw	Wood Screw	Bolt						Bit	Plug
<b>GT-S4.5DR</b>	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	14,000	0.2	G 1/4	180	585	A14 Φ2×65G	BPN-2F
<b>GT-P4.5DR</b>	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	14,000	0.2	Rc 1/4	160	715	A14 Φ2×65G	BPB-2
<b>GT-PLP</b>	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	9,000	0.2	G 1/4	197	750	A14 Φ2×65G	BPN-2F
<b>GT-PLR</b>	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	9,000	0.2	G 1/4	187	830	A14 Φ2×65G	BPN-2F
<b>GT-PLRC</b>	4.0~5.0	—	—	4.0~5.0	9,000	0.2	G 1/4	228	1,100	B39 Φ2×23H	BPN-2F
<b>GT-PLZ</b>	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	9,000	0.2	G 1/4	205	950	A14 Φ2×65G	BPN-2F
<b>GT-P5LS</b>	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	9,000	0.2	Rc 1/4	165	980	A14 Φ2×65G	BPB-2 Air regulator

• Air pressure: 0.6 MPa • Air hose diameter: 6.35 mm • Overall length and Weight...Accessories and hanger parts not included.  
• Capacity is listed as instant reference and depends on operation conditions.

**Bit installation anvil application**  
Unless otherwise, following bit specification should be standardized.

Standard type in Japan



※Option: Following retainer anvil is available.



Standard screw >> 5~6mm

**No. GT-P6LS III** 6.35

- Bit-sleeve retainer (Pull type)
- Noise reducer
- Rear exhaust

OP Anvil (Bit sleeve, push type)  
Rubber grip

**No. GT-P6HS** 6.35

- Bit-sleeve retainer
- Noise reducer
- Rear exhaust

All optional products come with a rubber grip.

Angle head size

**No. GT-S6CD** 6.35

- Ball spring retainer

**No. GT-S6MLR** 6.35

- Bit-sleeve retainer (Pull type)

**No. GT-PLH II** 6.35

- Bit-sleeve retainer (Pull type)

OP Anvil (Bit sleeve, push type)

**No. GT-S6HS** 6.35

- Bit-sleeve retainer

Standard screw >> 6~8mm

**No. GT-S6.5D** 6.35

- Bit-sleeve retainer

**No. GT-P6.5D** 6.35

- Bit-sleeve retainer

Standard screw >> 8~10mm

**No. GT-P8D** 8

- Bit-sleeve retainer

**No. GT-P10S II** 8

- Bit-sleeve retainer (Pull type)

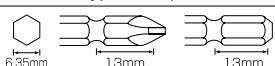
Model No.	Capacity (mm)				No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories	
	Standard Screw	Tapping Screw	Wood Screw	Bolt						Bit	Plug
GT-PLH II	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	8,500	0.3	Rc 1/4	213	925	A14 Φ2×65G	BPB-2
GT-P6LS III	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	9,000	0.3	Rc 1/4	177	955	A14 Φ2×65G	BPB-2
GT-S6MLR	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	8,500	0.25	G 1/4	215	1,120	A14 Φ2×65G	BPN-2F
GT-S6HS	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	10,000	0.3	G 1/4	220	1,100	A14 Φ2×65G	BPN-2F
GT-P6HS	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	10,000	0.3	Rc 1/4	180	1,170	A14 Φ2×65G	BPB-2 Air regulator
GT-S6CD	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	7,300	0.35	Rc 1/4	255	1,870	B39 Φ2×23H	BPB-2 L-wrench: H4
GT-S6.5D	6.0~8.0	4.0~4.5	3.8~4.5	6.0~8.0	7,500	0.35	Rc 1/4	217	1,300	A14 Φ2×65E/Φ3×65E	BPB-2 L-wrench: H4
GT-P6.5D	6.0~8.0	4.0~5.0	3.8~4.5	6.0~8.0	8,500	0.38	Rc 1/4	152	1,450	A14 Φ2×65E/Φ3×65E	BPB-2 L-wrench: H4
GT-P8D	8.0~10.0	5.0~6.0	4.5~6.2	8.0~10.0	7,500	0.4	Rc 1/4	172	1,930	A15 Φ2×65G/Φ3×65E	BPB-2 L-wrench: H4
GT-P10S II	8.0~10.0	5.0~6.0	4.5~6.2	8.0~10.0	6,200	0.39	Rc 1/4	208	2,460	A15 Φ2×65G/Φ3×65E	BPB-2 L-wrench: H4

• Air pressure: 0.6 MPa • Air hose diameter: 6.35 mm • Overall length and Weight...Accessories and hanger parts not included.  
• Capacity is listed as instant reference and depends on operation conditions.

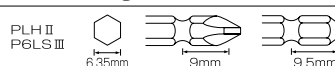
Bit installation anvil application

Unless otherwise, following bit specification should be standardized.

Standard type in Japan



※Option: Following retainer anvil is available.





# Air Screwdrivers Torque Control

## Torque Control Air Screwdriver, Reduced Type

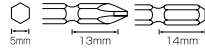
Standard screw >> **2~2.5mm**



**No. GT-S4TFG 5**

- Ball spring retainer
- Push startup type
- Noise reducer
- Rear exhaust

OP Torque Spring



**No. GT-S4TG 6.35**

- Ball spring retainer
- Push startup type
- Noise reducer
- Rear exhaust

OP Torque Spring  
 Hose Coupling (1/8")

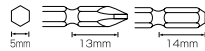
Standard screw >> **2.2~3mm**



**No. GT-S4TFS 5**

- Ball spring retainer
- Push startup type
- Noise reducer
- Rear exhaust

OP Torque Spring



**No. GT-S4TS 6.35**

- Ball spring retainer
- Push startup type
- Noise reducer
- Rear exhaust

OP Torque Spring  
 Hose Coupling (1/8")

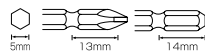
Standard screw >> **3~4mm**



**No. GT-S4TFR 5**

- Ball spring retainer
- Push startup type
- Noise reducer
- Rear exhaust

OP Torque Spring



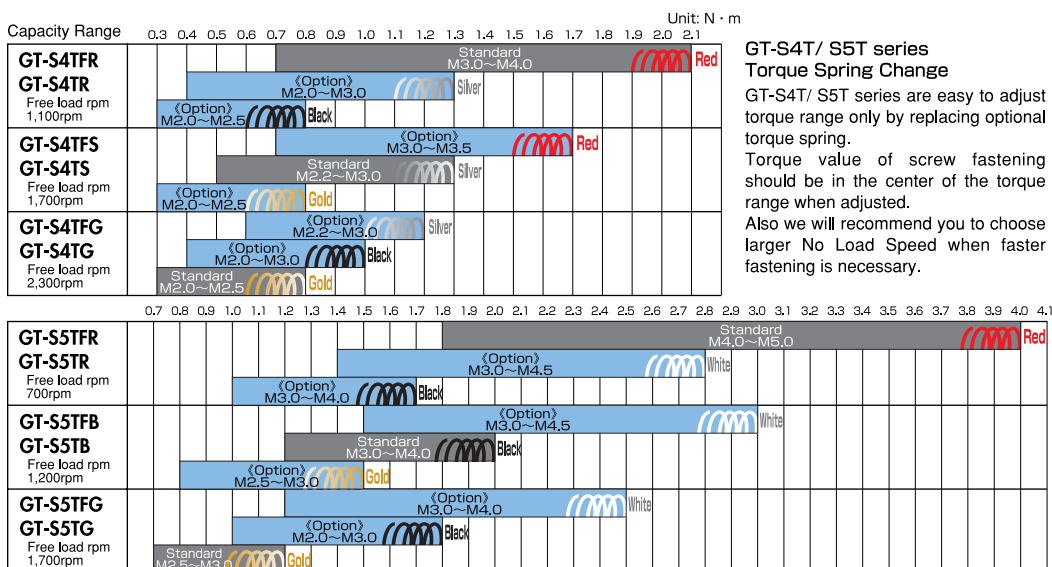
**No. GT-S4TR 6.35**

- Ball spring retainer
- Push startup type
- Noise reducer
- Rear exhaust

OP Torque Spring  
 Hose Coupling (1/8")

Model No.	Capacity Standard Screw (mm)	Torque Range (N·m)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories	
								Bit	Plug
GT-S4TFG	2.0~2.5	0.3~0.8	2,300	0.28	Rc 1/8	215	565	B36 Φ2×70H	—
GT-S4TFS	2.2~3.0	0.5~1.3	1,700	0.28	Rc 1/8	215	555	B36 Φ2×70H	—
GT-S4TFR	3.0~4.0	0.7~2.1	1,100	0.28	Rc 1/8	215	565	B36 Φ2×70H	—
GT-S4TG	2.0~2.5	0.3~0.8	2,300	0.28	Rc 1/4	215	650	A14 Φ2×65G	BPB-2
GT-S4TS	2.2~3.0	0.5~1.3	1,700	0.28	Rc 1/4	215	640	A14 Φ2×65G	BPB-2
GT-S4TR	3.0~4.0	0.7~2.1	1,100	0.28	Rc 1/4	215	650	A14 Φ2×65G	BPB-2

• Air pressure: 0.6 MPa • Air hose diameter: 6.35 mm • Overall length and Weight...Accessories and hanger parts not included.  
• Capacity is listed as instant reference and depends on operation conditions.

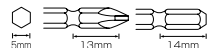


**GT-S4T/ S5T series Torque Spring Change**  
GT-S4T/ S5T series are easy to adjust torque range only by replacing optional torque spring. Torque value of screw fastening should be in the center of the torque range when adjusted. Also we will recommend you to choose larger No Load Speed when faster fastening is necessary.

## Torque Control Air Screwdriver, Reduced Type

Standard screw >> **2.5~3mm**No. **GT-S5TFG** 5

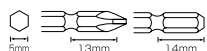
- Ball spring retainer
  - Push startup type
  - Noise reducer
  - Rear exhaust
- OP Torque Spring

No. **GT-S5TG** 6.35

- Ball spring retainer
  - Push startup type
  - Noise reducer
  - Rear exhaust
- OP Torque Spring

Standard screw >> **3~4mm**No. **GT-S5TFB** 5

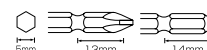
- Ball spring retainer
  - Push startup type
  - Noise reducer
  - Rear exhaust
- OP Torque Spring

No. **GT-S5TB** 6.35

- Ball spring retainer
  - Push startup type
  - Noise reducer
  - Rear exhaust
- OP Torque Spring

Standard screw >> **4~5mm**No. **GT-S5TFR** 5

- Ball spring retainer
  - Push startup type
  - Noise reducer
  - Rear exhaust
- OP Torque Spring

No. **GT-S5TR** 6.35

- Ball spring retainer
  - Push startup type
  - Noise reducer
  - Rear exhaust
- OP Torque Spring

## Torque Control Air Screwdriver, Impact Type

Standard screw >> **4.5~6mm**No. **GT-S5TS** 6.35

- Bit-sleeve retainer (Pull type)



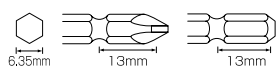
Model No.	Capacity Standard Screw (mm)	Torque Range (N·m)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories		
								Bit	Plug	L- wrench
GT-S5TFG	2.5~3.0	0.7~1.2	1,700	0.35	Rc 1/8	243	860	B36 $\Phi$ 2×70H	—	—
GT-S5TFB	3.0~4.0	1.2~2.0	1,200	0.35	Rc 1/8	243	830	B36 $\Phi$ 2×70H	—	—
GT-S5TFR	4.0~5.0	1.8~4.0	700	0.35	Rc 1/8	243	850	B36 $\Phi$ 2×70H	—	—
GT-S5TG	2.5~3.0	0.7~1.2	1,700	0.35	Rc 1/4	260	920	A14 $\Phi$ 2×65G	BPB-2	—
GT-S5TB	3.0~4.0	1.2~2.0	1,200	0.35	Rc 1/4	260	910	A14 $\Phi$ 2×65G	BPB-2	—
GT-S5TR	4.0~5.0	1.8~4.0	700	0.35	Rc 1/4	260	930	A14 $\Phi$ 2×65G	BPB-2	—
GT-S5TS	4.5~6.0	3.9~9.8	6,500	0.25	Rc 1/4	292	1,310	A14 $\Phi$ 2×65G	BPB-2	H3

• Air pressure: 0.6 MPa • Air hose diameter: 6.35 mm • Overall length and Weight...Accessories and hanger parts not included.  
 • Capacity is listed as instant reference and depends on operation conditions.

Bit installation  
anvil application

Unless otherwise,  
following bit specification  
should be standardized.

Standard type in Japan



※Option: Following retainer anvil is available.





## Air Impact Wrenches

Compact and lightweight, these impact wrenches have been designed to achieve the best possible balance in the hand, ensuring a secure hold for optimum nut/bolt work.

### *Air Impact Wrench Light F-Hammer*

#### New Ergonomic Handles

These units boast a tail handle that has been designed so that the units naturally position themselves horizontally when held with both hands. Workers will actually feel the reduction in leg and lower back fatigue during long work hours.



The air inlet is attached horizontally to the unit, the air hose will not get in the way of operations.



The load on the wrists has been reduced by positioning the grip near the hammer mechanism, where the strike recoil occurs.

# Air Impact Wrenches Model Selection Chart



※Fastening torque is based on JIS B1083. (Metric coarse screw, friction coefficient  $\mu$ : 0.15) The following selection chart is for referential purposes only.

Screw diameter	JISB1051 Strength Category																	
	3.6		4.6		4.8		5.6		5.8		6.8		8.8		10.9		12.9	
	Torque (N·m)	Applicabl Models	Torque (N·m)	Applicabl Models	Torque (N·m)	Applicabl Models	Torque (N·m)	Applicabl Models	Torque (N·m)	Applicabl Models	Torque (N·m)	Applicabl Models	Torque (N·m)	Applicabl Models	Torque (N·m)	Applicabl Models	Torque (N·m)	Applicabl Models
<b>M8</b>	8.7	800	11.0	800	15.6	800	13.7	800 1000	19.2	800 1000	22.0	800 1000	29.3	1000	43.0	1000 1400	50.4	1000 1400
<b>M10</b>	17.1	800 1000	21.6	1000	30.6	1000	27.0	1000	37.8	1000 1400	43.2	1000 1400	57.6	1000 1400	84.7	1000 1400	99.1	1400 1600
<b>M12</b>	29.4	1000 1400	37.2	1000 1400	52.7	1400 1600	46.5	1400 1600	65.1	1400 1600	74.4	1400 1600	99.1	1400 1600	145.6	1600 2000	170.4	1600 2000
<b>M14</b>	46.9	1400	59.3	1400 1600	84.0	1600 2000	74.1	1400 1600	103.8	1400 1600	118.6	1600	158.1	1600 2000	232.2	2000	271.7	2000
<b>M16</b>	73.0	1600	92.2	1600	130.6	1600 2000	115.3	1600 2000	161.4	1600 2000	184.4	1600 2000	245.9	2000 2500	361.2	2000 2500	422.7	2000 2500
<b>M18</b>	100.8	1600 2000	127.3	1600 2000	180.4	2000	159.2	2000	222.8	2000	254.7	2000 2500	350.2	2000 2500	498.8	2500	583.6	2500
<b>M20</b>	142.7	2000	180.3	2000	255.4	2000	225.4	2000	315.5	2000 2500	360.6	2000 2500	495.9	2500	706.2	2500	826.4	2500 3800
<b>M22</b>	196.6	2000	284.4	2500	351.9	2500	310.5	2500	434.7	2500	496.7	2500 3800	683.0	2500 3800	972.8	3800	1138.4	3800 4200 4800
<b>M24</b>	245.9	3800	310.7	3800	440.1	3800	388.3	3800	543.7	3800	621.3	3800	854.3	3800	1216.8	3800 4200 4800	1423.9	3800 4200 4800
<b>M27</b>	365.0	3800	461.0	3800	653.1	3800	576.2	3800	806.7	3800	922.0	3800	1267.7	3800 4200	1805.6	S55R	2112.9	S55R
<b>M30</b>	494.6	3800	624.8	3800	885.2	3800	781.0	3800	1093.4	3800 4200 4800	1249.6	3800 4200 4800	1718.2	4200 4800 S55R	2447.2	S55R	2863.7	
<b>M33</b>	666.7	3800	842.1	3800	1193.0	3800	1052.6	3800	1473.7	4200 4800	1684.2	S55R	2315.8	S55R	3298.2		3859.6	
<b>M36</b>	862.5	3800	1089.5	4200 4800	1543.4	4200 4800 S55R	1767.8	4200 4800	1906.6	S55R	2178.9	S55R	2996.0		4267.1		4993.4	
<b>M39</b>	1119.6	4200 4800	1414.2	4200 4800	2003.5	S55R	1767.8	S55R	2474.9		2828.5		3889.2		5539.1		6482.0	
<b>M42</b>	1385.0	4200 4800	1749.4	S55R	2478.3	S55R	2186.8	S55R	3061.5		3498.8		4810.9		6851.9		8018.2	
<b>M45</b>	1733.0	S55R	2189.0	S55R	3101.1		2736.3		3830.8		4378.0		6019.8		8573.6		10033.0	
<b>M48</b>	2092.1	S55R	2642.6		3743.7		3303.3		4624.6		5285.3		7267.3		10350.3		12112.1	
<b>M52</b>	2692.9	S55R	3401.6		4818.9		4252.0		5953.8		6803.2		9354.4		13322.9		15590.6	

- 800 : GT-P6II / S650 / S65W / P65W / S70WK / P60XW
- 1000 : GT-P8II / P80W / W100PII
- 1400 : GT-1400P / P12
- 1600 : GT-1600VPX / 1600VPH(L) / 1600VP(L) / P14J(L) / 1600P(L) / P14W/ 1700BX
- 2000 : GT-2000PF / P18J(L) / 2000P(L) / S20RW
- 2500 : GT-2500LF / 2500PF / S220W
- 3800 : GT-3900VL / 3900VP / 3900V / 3800LX / S32RW/ P32J/ 3800PX
- 4200 : GT-4200LF / 4200PF / 4200L / 4200
- 4800 : GT-4800VL S55R: GT-S55R

# Air Impact Wrenches Super Light V-Hammer



Machine Bolt Dia. >> **16mm**



No. **GT-1600VPX** 12.7

- Retainer ring
- Rear exhaust



No. **GT-1600VP** 12.7

- Retainer ring
- Rear exhaust



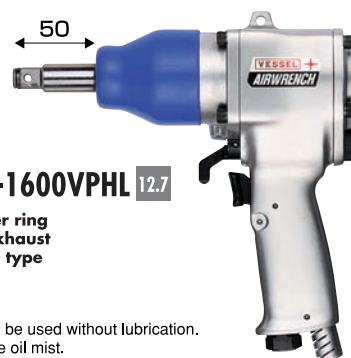
No. **GT-1600VPL** 12.7

- Retainer ring
- Rear exhaust



No. **GT-1600VPH** 12.7

- Retainer ring
- Rear exhaust
- Oil-less type



No. **GT-1600VPHL** 12.7

- Retainer ring
- Rear exhaust
- Oil-less type

※Oil-less type: Can be used without lubrication.  
Does not generate oil mist.

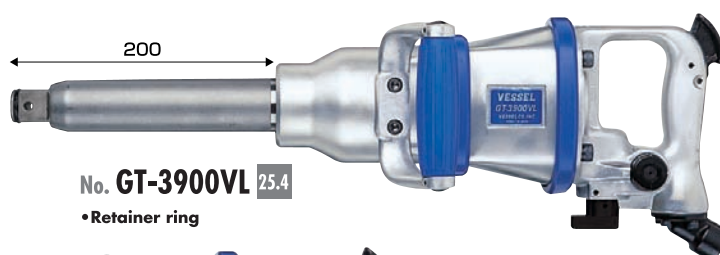


Machine Bolt Dia. >> **39mm**



No. **GT-3900VP** 25.4

- Retainer ring
- Rear exhaust



No. **GT-3900VL** 25.4

- Retainer ring

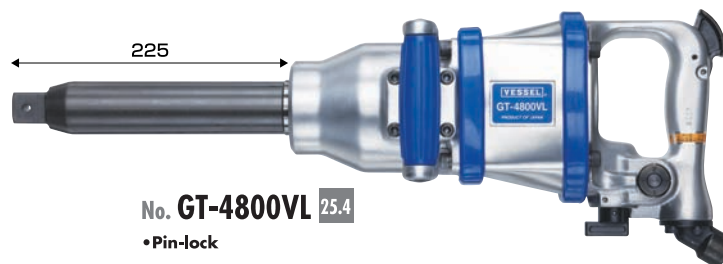


No. **GT-3900V** 25.4

- Retainer ring



Machine Bolt Dia. >> **48mm**



No. **GT-4800VL** 25.4

- Pin-lock

Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range Reference (N·m)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (g)	Accessories	
									Plug	L- wrench
GT-1600VPX	16	49~294.2	8,200	0.4	Rc1/4	6.35	169	1.48	BPB-2	H4
GT-1600VP	16	49~304.0	8,500	0.4	Rc1/4	6.35	171	1.91	BPB-2	H4
GT-1600VPL	16	49~304.0	8,500	0.4	Rc1/4	6.35	199	1.95	BPB-2	H4
GT-1600VPH	16	49~284.3	8,200	0.4	Rc1/4	6.35	174.5	1.75	BPB-2	H4
GT-1600VPHL	16	49~284.3	8,200	0.4	Rc1/4	6.35	202.5	1.8	BPB-2	H4
GT-3900V	39	490~1716	4,200	0.7	Rc1/2	12.7	358.6	8.2	BPB-4	H5,H6
GT-3900VP	39	490~1716	4,200	0.7	Rc3/8	12.7	268	7.95	BPB-3	H5,H6
GT-3900VL	39	490~1716	4,200	0.7	Rc1/2	12.7	524	8.95	BPB-4	H5,H6
GT-4800VL	48	343~2010	3,200	1.0	Rc1/2	12.7	559	12.8	1/2"×1/2" (hose nipple)	H6

• Air pressure: 0.6 MPa • Overall length and Weight...Accessories and hanger parts not included. • Capacity is listed as instant reference and depends on operation conditions.



# Air Impact Wrenches Lightweight F-Hammer

Machine Bolt Dia. >> **20mm**

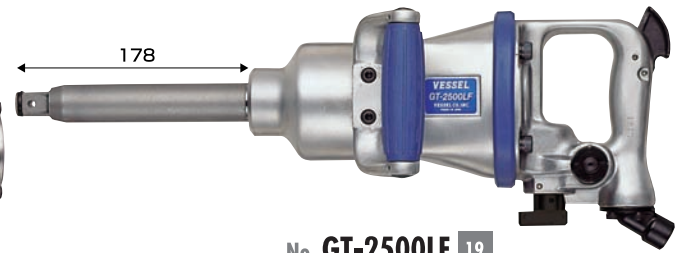


No. **GT-2000PF** 19  
 • Retainer ring  
 • Rear exhaust  
 • Noise reducer

Machine Bolt Dia. >> **25mm**

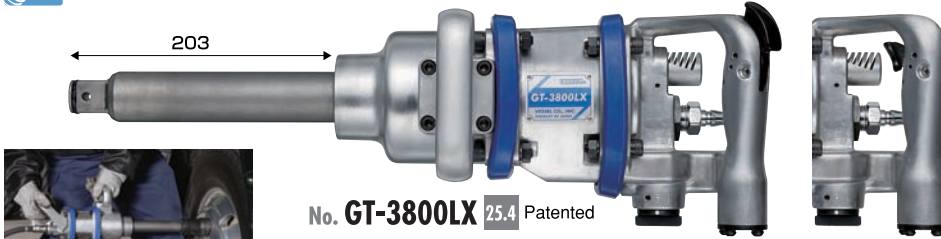


No. **GT-2500PF** 19  
 • Retainer ring  
 • Rear exhaust  
 • Noise reducer



No. **GT-2500LF** 19  
 • Retainer ring

Machine Bolt Dia. >> **39mm**

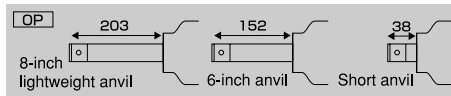


No. **GT-3800LX** 25.4 Patented  
 • Retainer ring  
 • Noise reducer



Tilt-angled handle and its body balance reduces burden on the user.

Outside/ Inside throttle lever types are available.

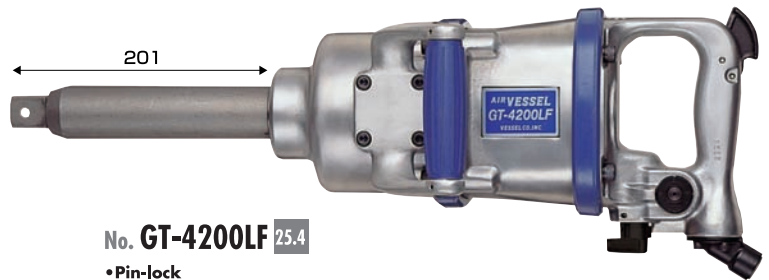


No. **GT-3800PX** 25.4  
 • Retainer ring  
 • Rear exhaust  
 • Noise reducer

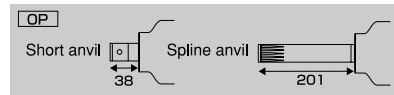
Machine Bolt Dia. >> **42mm**



No. **GT-4200PF** 25.4  
 • Pin-lock

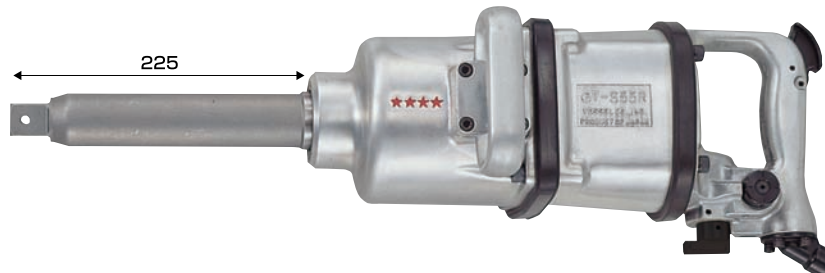
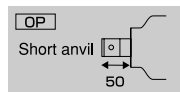


No. **GT-4200LF** 25.4  
 • Pin-lock



Machine Bolt Dia. >> **52mm**

No. **GT-S55R** 25.4  
 • Pin-lock  
 • Noise reducer



Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range Reference (N·m)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (g)	Accessories	
GT-2000PF	20	98~460.9	5,500	0.43	Rc1/4	9.5	210	3.5	Plug	L- wrench
GT-2500PF	25	147~961	3,200	0.6	Rc3/8	9.5	242	6.2	BPB-2	H5
GT-2500LF	25	245~961	4,400	0.7	Rc3/8	9.5	478	7.3	BPB-3	H5,H6
GT-3800LX	39	490~1607	4,100	0.7	Rc1/2	12.7	520	10.8	BPB-4	H5
GT-3800PX	39	490~1607	4,100	0.7	Rc1/2	12.7	270	8.9	BPB-4	H5
GT-4200PF	42	343~1863	2,500	1.0	Rc3/8	12.7	297	11.5	BPB-3	H6
GT-4200LF	42	343~1863	3,200	1.0	Rc1/2	12.7	547	13.3	BPB-4	H6
GT-S55R	52	343~2450	2,800	1.2	Rc1/2	12.7	610	17.0	1/2"×1/2" (hose nipple)	H6

• Air pressure: 0.6 MPa • Overall length and Weight:···Accessories and hanger parts not included. • Capacity is listed as instant reference and depends on operation conditions.

# Air Impact Wrenches Single Hammer

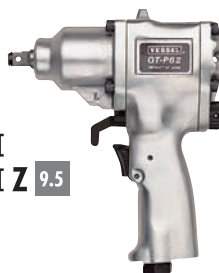


Machine Bolt Dia. >> **6~8mm**



No. **GT-S650** 9.5

• Retainer ring



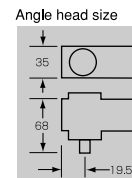
No. **GT-P6 II**  
No. **GT-P6 II Z** 9.5

• Retainer ring  
• Noise reducer



No. **GT-S600C** 9.5

• Pin-lock



Machine Bolt Dia. >> **8~10mm**



No. **GT-P8 II**  
No. **GT-P8 II Z** 12.7

• Retainer ring  
• Noise reducer



Machine Bolt Dia. >> **14mm**



No. **GT-P12**  
No. **GT-P12Z** 12.7

• Retainer ring  
• Noise reducer



No. **GT-1400P** 12.7

• Retainer ring



Machine Bolt Dia. >> **16mm**



No. **GT-P14J**  
No. **GT-P14JZ** 12.7

• Retainer ring  
• Noise reducer



No. **GT-P14JL** 12.7

• Retainer ring



No. **GT-1700BX** 12.7

• Retainer ring  
• Rear exhaust  
• Noise reducer  
• Twin hammer type



No. **GT-1600P** 12.7

• Retainer ring

No. **GT-1600PL** 12.7

• Retainer ring

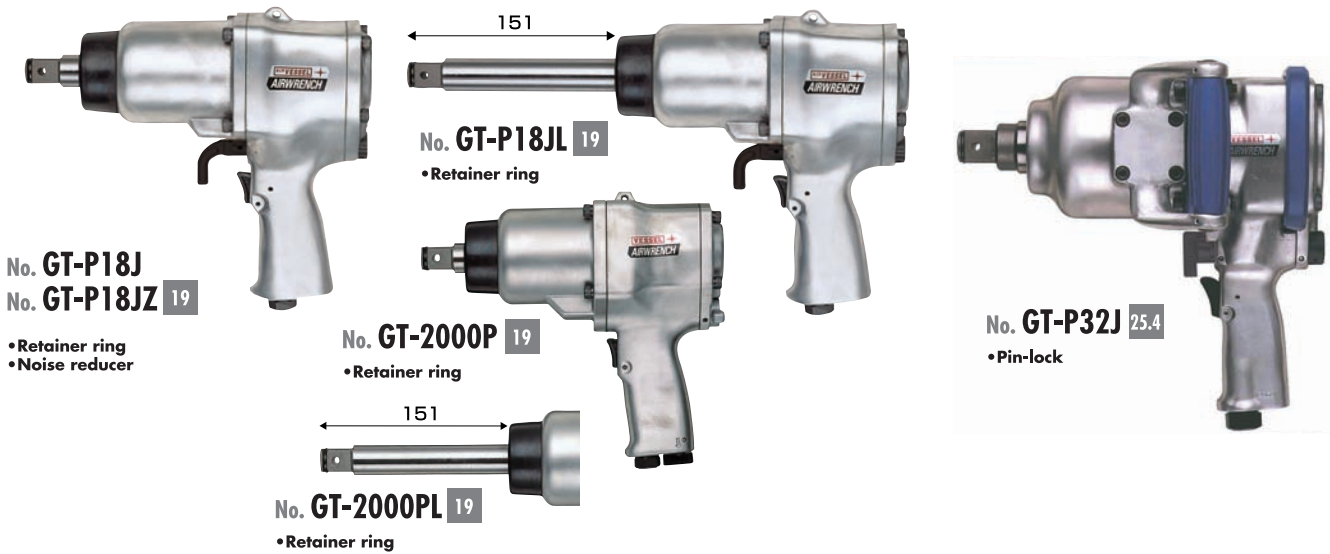
Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range Reference (N·m)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (g)	Accessories	
									Plug	L- wrench
GT-S650	6~8	49~121.6	7,500	0.35	Rc1/4	6.35	210	1.3	BPB-2	H4
GT-P6 II (Z)	6~8	49~121.6	8,500 (Z) 7,500	0.38	Rc1/4	6.35	146	1.43	BPB-2	H4
GT-S600C	6~8	25~47	7,300	0.35	Rc1/4	6.35	255	1.87	BPB-2	H4
GT-P8 II (Z)	8~10	49~259.8	7,500 (Z) 7,200	0.4	Rc1/4	6.35	166	1.89	BPB-2	H4
GT-P12 (Z)	12~14	49~294.1	7,500 (Z) 7,300	0.4	Rc1/4	6.35	185	2.3	BPB-2	H4
GT-1400P	12~14	49~294.1	7,000	0.35	Rc1/4	6.35	182	2.25	BPB-2	H4
GT-P14J (Z)	14~16	75~323.6	6,500 (Z) 6,300	0.42	Rc1/4	6.35	197	2.95	BPB-2	H5
GT-P14JL	14~16	75~323.6	6,500	0.42	Rc1/4	6.35	226	3.0	BPB-2	H5
GT-1600P	14~16	75~308.9	6,700	0.36	Rc1/4	6.35	196	2.7	BPB-2	H5
GT-1600PL	14~16	75~308.9	6,700	0.36	Rc1/4	6.35	224	2.8	BPB-2	H5
GT-1700BX	16	Forward 49~480/ Reverse 75~540	Forward 7,000/ Reverse 8,000	0.9	Rc1/4	6.35	192	2.2	BPB-2	-

• Air pressure: 0.6 MPa • Overall length and Weight: Accessories and hanger parts not included. • Capacity is listed as instant reference and depends on operation conditions.

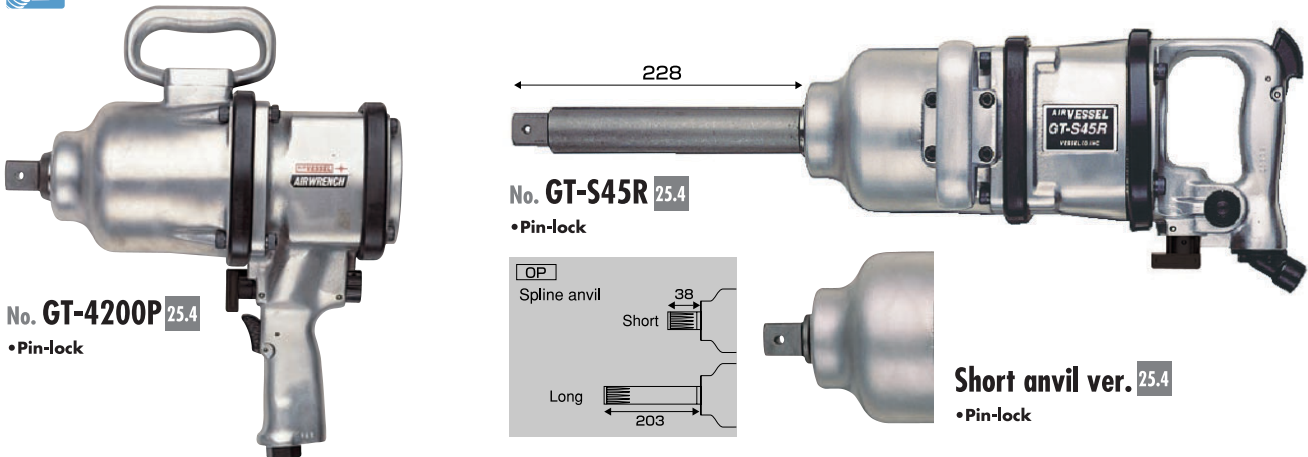
# Air Impact Wrenches Single Hammer/ Air Ratchet Wrenches

Machine Bolt Dia. >> **20mm**

Machine Bolt Dia. >> **20mm**



Machine Bolt Dia. >> **42mm**



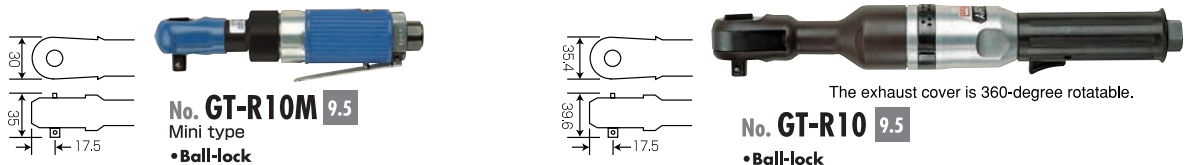
Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range Reference (N·m)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (g)	Accessories	
									Plug	L- wrench
<b>GT-P18J (Z)</b>	16~20	98~470.7	5,000 (Z) 4,800	0.52	Rc1/4	9.5	240	4.2	BPB-2	H5
<b>GT-P18JL</b>	16~20	98~441.3	5,000	0.52	Rc1/4	9.5	353	4.7	BPB-2	H5
<b>GT-2000P</b>	16~20	98~470.7	5,000	0.45	Rc1/4	9.5	241	4.3	BPB-2	H5
<b>GT-2000PL</b>	16~20	98~441.3	5,000	0.45	Rc1/4	9.5	354	4.7	BPB-2	H5
<b>GT-P32J</b>	33	343~1569	3,700	0.8	Rc3/8	12.7	264	11.2	BPB-3	H6
<b>GT-4200P</b>	27~42	490~1863	2,500	1.0	Rc3/8	12.7	315	14.2	BPB-3	H6
<b>GT-S45R</b>	27~42	490~1863	3,200	1.0	Rc1/2	12.7	593	15.9	BPB-4	H6
<b>GT-S45R (Short anvil Ver.)</b>	27~42	490~1863	3,200	1.0	Rc1/2	12.7	403	14.9	BPB-4	H6

• Air pressure: 0.6 MPa • Overall length and Weight...Accessories and hanger parts not included. • Capacity is listed as instant reference and depends on operation conditions.

## Air Ratchet Wrenches

This ratchet tightening system makes it possible to fine-tune the wrenching torque.

Machine Bolt Dia. >> **10mm**



Model No.	Capacity Ordinary Bolt Dia. (mm)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (g)	Accessories	
								Plug	L- wrench
<b>GT-R10M</b>	10	250	0.3	Rc1/4	6.35	170	500	BPB-2	
<b>GT-R10</b>	10	160	0.4	Rc1/4	6.35	297	1,090	BPB-2	

• Air pressure: 0.6 MPa • Overall length and Weight...Accessories and hanger parts not included.



# Air Impact Wrenches Double Hammer

Machine Bolt Dia. >> **4~5mm**



No. **GT-PLRB 8**

• Pin-lock

Machine Bolt Dia. >> **5~6mm**



No. **GT-S6MLRB 9.5**

• Pin-lock

Machine Bolt Dia. >> **6~8mm**



No. **GT-P60XW 9.5**

• Pin-lock  
• Rear exhaust  
• Noise reducer

Accessories  
Impact parts oil: VG-32 (Green) ...1 pc.  
Rotary parts oil: VG-10 (White) ...1 pc.

Machine Bolt Dia. >> **6~8mm**



No. **GT-S65W 9.5**

• Pin-lock



No. **GT-P65W 9.5**

• Pin-lock



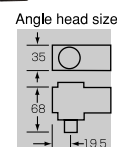
No. **GT-S70WK 9.5**

• Pin-lock  
• Rear exhaust  
• Noise reducer



No. **GT-S60CW 9.5**

• Pin-lock



Machine Bolt Dia. >> **8~10mm**



No. **GT-P80W 12.7**

• Pin-lock

Machine Bolt Dia. >> **10~12mm**



No. **GT-W100P II 12.7**

• Pin-lock

Machine Bolt Dia. >> **12~16mm**



No. **GT-P14W 12.7**

• Pin-lock

Machine Bolt Dia. >> **20mm**



No. **GT-S20RW 19**

• Pin-lock

Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range Reference (N·m)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (g)	Accessories	
									Plug	L-wrench
GT-PLRB	4~5	5~14	9,000	0.2	G1/4	6.35	180	0.83	BPB-2F	-
GT-S6MLRB	5~6	10~39	8,500	0.25	G1/4	6.35	200	1.1	BPB-2F	-
GT-P60XW	6~8	49~116.8	7,500	0.38	Rc1/4	6.35	169.4	1.1	BPB-2	-
GT-P65W	6~8	49~121.6	8,500	0.38	Rc1/4	6.35	146	1.43	BPB-2	H4
GT-S65W	6~8	49~121.6	7,500	0.35	Rc1/4	6.35	210	1.3	BPB-2	H4
GT-S70WK	6~8	85~176.5	7,000	0.39	Rc1/4	6.35	231	1.3	BPB-2	H4
GT-S60CW	6~8	25~47	7,300	0.35	Rc1/4	6.35	255	1.87	BPB-2	H4
GT-P80W	8~10	49~259.8	7,500	0.4	Rc1/4	6.35	164	1.89	BPB-2	H4
GT-W100P II	10~12	49~323.6	6,200	0.39	Rc1/4	6.35	196	2.42	BPB-2	H4
GT-P14W	12~16	49~421.6	6,400	0.47	Rc1/4	9.5	200	3.2	BPB-2	H5
GT-S20RW	20	75~610	4,800	0.9	Rc3/8	9.5	300	5.4	3/8"X1/2" (hose nipple)	H5

• Air pressure: 0.6 MPa • Overall length and Weight...Accessories and hanger parts not included. • Capacity is listed as instant reference and depends on operation conditions.

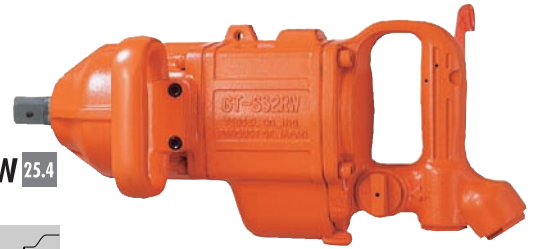
# Air Impact Wrenches Double Hammer/ Torque Control Torque Testers

Machine Bolt Dia. >> **22mm**

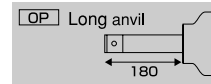


No. **GT-S220W** 19  
•Retainer ring

Machine Bolt Dia. >> **33mm**



No. **GT-S32RW** 25.4  
•Pin-lock



Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range Reference (N·m)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (g)	Accessories
<b>GT-S220W</b>	22	147~843.4	4,400	0.7	Rc3/8	9.5	334	6.85	Plug BPB-3, L-wrench H5,H6
<b>GT-S32RW</b>	33	343~1,569	3,600	1.0	Rc1/2	12.7	380	12.2	1/2"X1/2" (hose nipple), H5,H6

• Air pressure: 0.6 MPa • Overall length and Weight...Accessories and hanger parts not included. • Capacity is listed as instant reference and depends on operation conditions.

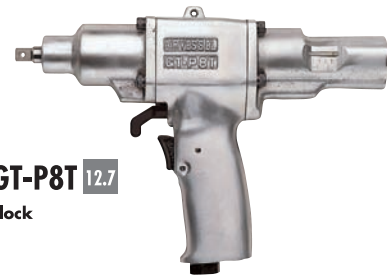
## Air Impact Wrenches, Torque Control Type

Machine Bolt Dia. >> **6~8mm**



No. **GT-P6T** 9.5  
•Pin-lock

Machine Bolt Dia. >> **8~10mm**



No. **GT-P8T** 12.7  
•Pin-lock

Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range Reference (N·m)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (g)	Accessories
<b>GT-P6T</b>	6~8	7.8~17.6	3,000	0.27	Rc1/4	6.35	246	1.5	Plug BPB-2, L-wrench H3,H4
<b>GT-P8T</b>	8~10	17.6~31.4	2,500	0.31	Rc1/4	6.35	266	2.2	BPB-2, H3,H4

• Air pressure: 0.6 MPa • Overall length and Weight...Accessories and hanger parts not included. • Capacity is listed as instant reference and depends on operation conditions.

## Digital Torque Tester



For controlling the output of fastening tools and checking the accuracy of torque wrenches.

- Large digital display. Settable time-out timer (0.1 ~ 9.9 sec).
- Separate pickup and amp, therefore instrument deterioration is minimized.
- Can measure both clockwise and counterclockwise rotation. Accurate to ±0.5% (Static load).
- Can measure the working torque of pneumatic drivers, impact wrenches, oil pulse wrenches, torque wrenches, etc.
- Use when the working torque of the tool is within 70% of the appropriate measurement range.

Model No.	Appropriate Measurement Range (N·m)	Smallest Scale Increment (N·cm)	Static Load Accuracy: Within ±0.5% Nm	Power Supply	Standard Accessories
<b>TA-500</b>	4.9~49	1.96	4.9~49±2.6	AC100V~240V±10% 50/60Hz · 15W	Pickup cable ...1
<b>TA-1000</b>	19.6~98	9.8	9.8~98±5		Pickup cable ...1 3/8sqX1/2 sq adapter ...1
<b>TA-2000</b>	49~196	9.8	19.6~196±10		Pickup cable ...1 3/8sqX1/2 sq adapter ...1
<b>TA-5000</b>	98~490	18.6	49~490±26		Pickup cable ...1 1/2sqX3/4 sq adapter ...1 5/8X3/4 sq adapter ...1

Options: Printer parallel output (Centronics compliant), analog output (waveform monitoring terminal), pulse counter.



## Air Sanders/ Air Grinders

The more you use our air belt sanders the more you will understand how efficient and well balanced they are. They boast an easy-to-use, one-touch system for paper and disk replacement, and their delicate balance achieves a major reduction in fatigue.



### *Air Belt Sander* Patented

The center of the arm becomes the center of gravity. This belt has been designed in an offset position so that it becomes aligned with the center of the arm when the unit is taken up. This slight difference in balance makes a big difference in reducing fatigue, a major ergonomic achievement.



Belt Width >> **12/10mm**

Patented

Ceramic Endless Belt (For GT-BS12)



**No. GT-BS12**  
•Noise reducer

Accessories  
Sand belt #60...2 pcs.  
#80...1 pc.



**No. CB12**

Belt Width >> **20mm**

Patented

Zirconia Endless Belt (For GT-BS20)



**No. GT-BS20 (Aluminum roller head)**  
•Noise reducer

**No. GT-BS20W (Urethane roller head)**  
•Noise reducer

Accessories  
Sand belt #60...2 pcs.  
#80...1 pc.



**No. ZB20**

Belt Width >> **30mm**

Patented

Zirconia Endless Belt (For GT-BS30)



**No. GT-BS30 (Aluminum roller head)**  
•Noise reducer

**No. GT-BS30W (Urethane roller head)**  
•Noise reducer

Accessories  
Bar grip (Auxiliary handle)...1 pc.  
Sand belt #60...2 pcs.  
#80...1 pc.



**No. ZB30**

Model No.	Applicable Belt Size (mm)	Belt Circumferential Speed (m/min)	Working Air Pressure (MPa)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories
GT-BS12	12/10×330	1,100	0.6	17,000	0.52	Rc1/4	311	840	BPB-2 H1.5
GT-BS20 (W)	20×520	2,500	0.6	16,000	0.6	Rc1/4	398	1,300	BPB-2 H2
GT-BS30 (W)	30×540	2,040	0.6	13,000	0.72	Rc1/4	374	1,930	BPB-2 H2.5

\*Total length: When mounted with belt.

Model No.	Size	Grit No.	Quantity: 50
CB12-60	12mm×330mm	# 60	
CB12-80	12mm×330mm	# 80	
CB12-120	12mm×330mm	# 120	

Model No.	Size	Grit No.	Quantity: 20
ZB20-40	20mm×520mm	# 40	
ZB20-60	20mm×520mm	# 60	
ZB20-80	20mm×520mm	# 80	

Model No.	Size	Grit No.	Quantity: 10
ZB30-40	30mm×540mm	# 40	
ZB30-60	30mm×540mm	# 60	

## Roller Heads



**Aluminum**  
(GT-BS20/ BS30)  
For heavy-duty sanding.



**Urethane**  
(GT-BS20W/ BS30W)  
For undulated and curved surfaces.

# Air Disk Sanders

Pad Dia. >> **50mm**

Collet chuck  
φ6mm



## No. GT-DS50A

•Noise reducer

### Accessories

Flap wheel #60...1 pc.  
Fiber wheel #600...1 pc.  
Pitatto holder...1 pc.  
Pitatto disk paper #60...3 pcs.

OP

Disk bolt



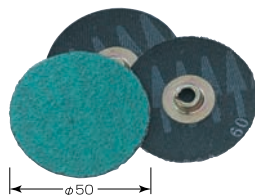
Collet chuck (φ3mm, φ1/4", φ1/8")



## Air Disk Sander Wheels (For DS50A)

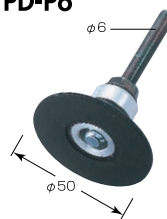
Pitatto Disk Paper

No. PD-P60



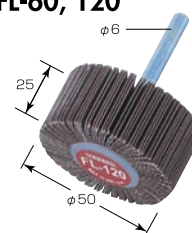
Pitatto Holder

No. PD-P6



Flap Wheel

No. FL-60, 120



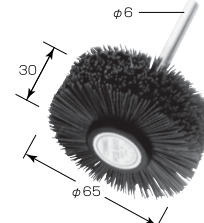
Fiber Wheel

No. FB-400, 600, 1000



Precoat Grit

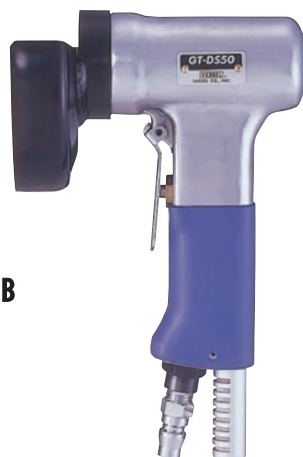
No. PCG-600



Model No.	Grit No.	Max. Circumferential Speed (rpm)	Material	Use	Quantity
PD-P60	Z60	20,000	Zirconia	Thin pressed plate deburring, surfacing, etc.	50
PD-P6	—	—	Rubber (Pad)	For Pitatto disk paper	1
FL-60	A60	20,000	Alumina	Deburring, spatter removal Cylinder lining polishing, surfacing, etc.	5
FL-120	A120	20,000	Alumina	Deburring, spatter removal Cylinder lining polishing, surfacing, etc.	5
FB-400	400	10,000	Unwoven cloth	Dirt removal, cleaning prior to welding or plating, burn removal after welding, etc.	5
FB-600	600	10,000	Unwoven cloth	Dirt removal, cleaning prior to welding or plating, burn removal after welding, etc.	5
FB-1000	1000	10,000	Unwoven cloth	Dirt removal, cleaning prior to welding or plating, burn removal after welding, etc.	5
PCG-600	400~600	6,000	Abrasive grain nylon	Peeling lacquered topcoats, etc.	1

Pad Dia. >> **100mm**

M10 disk nut



## No. GT-DS50B

•Noise reducer

### Accessories

Protective cover  
Disk nut  
Pin wrench

## Wheels to Remove Rust / Stains (For DS50B)

Hammer Wheel

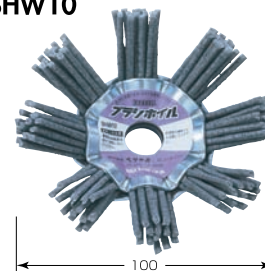
No. HMW10

Patent Pending



Brush Wheel

No. BHW10



Model No.	Max. Circumferential Speed (rpm)	Material	Use	Quantity
HMW10	5,000	SUS	Slag and spatter removal after welding, etc.	1
BHW10	5,000	Abrasive grain nylon	Steel plate rust removal, aluminum cast finishing, etc.	1

Model No.	Disk Dia. (mm)	No Load Speed (rpm)	Air Consumption (N l /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (g)	Tip Tool Installation Part	Accessories	
									Plug	Spanner
GT-DS50A	50	5,000	650	Rc1/4	6.35	211	935	Collet chuck φ6mm	BPB-2	H11, H15
GT-DS50B	100	5,000	650	Rc1/4	6.35	211	1,150	Disk nut M10	BPB-2	H11, H15

\* Air pressure: 0.6 MPa

Disk Dia. >> **100mm**

No. **GT-DG100**



Ideal for grinding / polishing metal, base finishing, removing beads, burrs, rust and paint, cutting metal rods and thin panels, finish-polishing, etc.

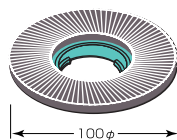
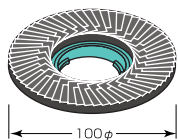
Model No.	Grindstone Size Outer Dia. × Thickness × Hole Dia. (mm)	Belt Circumferential Speed (m/min)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Overall Length (mm)	Height (mm)	Weight (g)	Accessories	
									Plug	L-wrench
<b>GT-DG100</b>	100×6×15	4,300	13,500	0.7	Rc1/4	205	92	1,390	BPB-2	H6

• Air pressure: 0.6 MPa • Air hose diameter: 6.35 mm

### Air Disk Grinder Wheel (For GT-DG100)

**Quick Lock Disk System** - Disk can be easily replaced without fastening tools, by attaching a purpose-specific adapter. Ordinary grindstones (Hole diameter 15 × Thickness 3~6 mm) can be attached by detaching the adapter.

#### Paper wheel



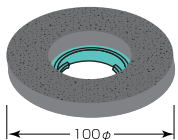
Inner Dia. : 15mm

Model No.	Grit #	Use
<b>CL-P36</b>	36Z	Roughing
Inner Ctn.	5 per carton	

Inner Dia. : 15mm

Model No.	Grit #	Use
<b>CL-P60</b>	60A	Grinding
<b>CL-P80</b>	80A	Grinding
Inner Ctn.	5 per carton	

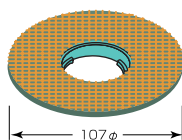
#### Nylon wheel



Inner Dia. : 15mm

Model No.	Grit #	Use
<b>CL-NW</b>	—	Rust removal
Inner Ctn.	5 per carton	

#### Cutter wheel



Inner Dia. : 15mm

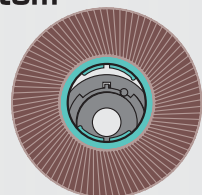
Model No.	Grit #	Use
<b>CL-CW</b>	—	Cutting
Inner Ctn.	5 per carton	

1 Quick Lock Adapter per box

## ONE POINT

### A disk swapping system that doesn't disrupt operations

Securely tightened nuts are extremely time consuming to loosen and remove using normal tools. Our quick-lock system allows for disks to be secured simply by snapping them into place and turning them by hand. Disk replacement is just as easy, as the disks can be removed by hand. We recommend this new system as an excellent means for shortening disruption time during



**Click-Lock**



operations and reducing industrial waste.



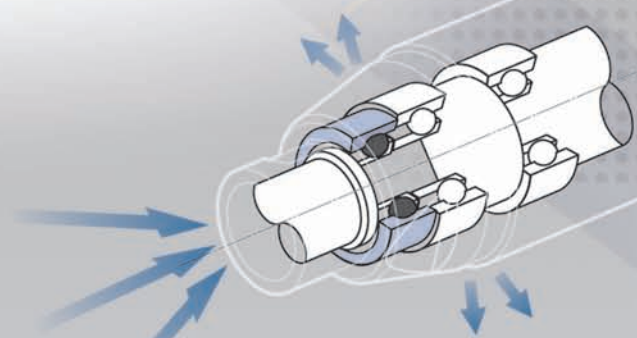
## Air Micro Grinders

There is a glaring difference in axial runout. Our Air Micro Grinders feature optimum rotation speeds to match the specific bits being used, leading to more efficient grinding and cutting work marked by secure, almost suction-like bit-to-surface contact and less jumping.



### A Double-Bearing System

Axial runout is suppressed by the use of precision motor engineering and our double-bearing system. Moreover, the SAR type employs angular bearings to handle the high loads of heavy work.



## Air Micro Grinders (For Precision Grinding)

Collet chuck:  $\phi 3$ mm



No. **GT-MG75S**

Collet chuck:  $\phi 3$ mm



No. **GT-MG75SAR (Soft Grip)**

[OP] Collet chuck ( $\phi 2.35$ mm,  $\phi 1/8$ " )



Collet chuck:  $\phi 3$ mm



No. **GT-MG55SR (Ergo Grip)**

Collet chuck:  $\phi 3$ mm



No. **GT-MG55SAR (Soft Grip)**

[OP] Collet chuck ( $\phi 2.35$ mm,  $\phi 1/8$ " )



Collet chuck:  $\phi 3$ mm



No. **GT-MG55S/MG55SB (Reverse turning type)**

Collet chuck:  $\phi 6$ mm



No. **GT-MG35SAR (Soft Grip)**

[OP] Collet chuck ( $\phi 3$ mm,  $\phi 1/4$ ",  $\phi 1/8$ " )



Collet chuck:  $\phi 6$ mm



No. **GT-MG25S**

[OP] Collet chuck ( $\phi 3$ mm,  $\phi 1/4$ ",  $\phi 1/8$ " )

Collet chuck:  $\phi 3$ mm



No. **GT-MG35-12CC (Soft Grip)**

[OP] Collet chuck ( $\phi 2.35$ mm,  $\phi 1/8$ " )



[OP] Corner attachment

No. **GT-MG25-12CF** (Smooth grinding / polishing at 25,000 rpm)  
No. **GT-MG25-12CC** (Precision grinding at 25,000 rpm)

Model No.	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Frame Dia. (mm)	Weight (g)	Collet Chuck ( $\phi$ mm)	Accessories		
									Chuck handle	Spanner	Oil
GT-MG75S	75,000	0.16	Rc1/4	6.35	170	18.5	190	3	●	H9	●
GT-MG75SAR	75,000	0.16	Rc1/4	6.35	156	20.9	180	3	—	H5,H9	●
GT-MG55S	55,000	0.16	Rc1/4	6.35	163	17.5	180	3	●	H9	●
GT-MG55SB	55,000	0.16	Rc1/4	6.35	163	17.5	180	3	●	H9	●
GT-MG55SR	55,000	0.16	Rc1/4	6.35	180	20.0	220	3	●	H9	●
GT-MG55SAR	55,000	0.245	Rc1/4	6.35	178	24.5	260	3	—	H5,H9	●
GT-MG35SAR	35,000	0.285	Rc1/4	6.35	182	29.5	435	6	—	H11,H13	●
GT-MG25S	25,000	0.175	Rc1/4	6.35	198	30.0	600	6	—	H11,H13	●
GT-MG35-12CC	35,000	0.25	Rc1/4	6.35	183	24.5	305	3	—	H5,H9	●
GT-MG35-12CR	35,000	0.16	Rc1/4	6.35	151	20.0	160	3	—	H5,H9	●

\*Working air pressure...0.6MPa \*Overall length...Accessories and exhaust hose parts not included. \*Weight...Accessories not included.

\*In the main body, a 1.5m air intake hose, exhaust hose and a hose joint are attached.

\*With regard to GT-MG55S, MG55SR, MG75S and a 2.35 mm collet chuck is also prepared.

[OP] Can be replaced by user.

[OP] Should be replaced at our factory.

# Air Micro Grinders

## Air Micro Grinders (Surface Grinding/ Polishing)



**No. GT-MG25-12CF (Soft Grip)**

- CP** Corner attachment
- No. **GT-MG35-12CC** (Precision grinding at 35,000 rpm)
- No. **GT-MG25-12CC** (Precision grinding at 25,000 rpm)



**No. GT-MG25-9CF (Soft Grip)**

- CP** Corner attachment
- No. **GT-MG25-9CC** (Precision grinding at 25,000 rpm)
- No. **GT-MG35-9CC** (Precision grinding at 35,000 rpm)

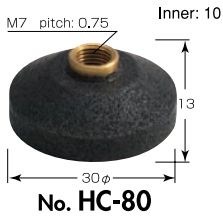
Model No.	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Frame Dia. (mm)	Weight (g)	Tip tool Installation Part	Accessories
<b>GT-MG25-12CF</b>	25,000	0.25	Rc1/4	6.35	181	24.5	315	M7	• Chuck handle • Oil • Rubber holder • PO-ring (#60•100•150•240 ...3 pcs. each #400•600 ...1 pc. each) • Lap ring (#600) • Headcup (#80)
<b>GT-MG25-9CF</b>	25,000	0.25	Rc1/4	6.35	173	24.5	310	M7	
<b>GT-MG25-12CR</b>	25,000	0.16	Rc1/4	6.35	160	20.0	200	M7	
<b>GT-MG25-9CR</b>	25,000	0.16	Rc1/4	6.35	143	20.0	200	M7	

•Working air pressure...0.6MPa •Overall length...Accessories and exhaust hose parts not included. •Weight...Accessories not included.  
 •In the main body, a 1.5m air intake hose, exhaust hose and a hose joint are attached.

## Tip Tools for Smooth Surface Grinding and Polishing (For GT-MG25-12CF, 9CF, 12CR, 9CR)

To meet work objectives from the removal of cutter marks in the manufacture of metal molding to the finishing of mirror surfaces.

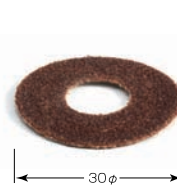
Headcup Grit #80



Rubber Holder



PO-Ring



Model No.	Grit #
<b>PR-60</b>	60
<b>PR-100</b>	100
<b>PR-150</b>	150
<b>PR-240</b>	240
<b>PR-400</b>	400
<b>PR-600</b>	600

Lap Ring

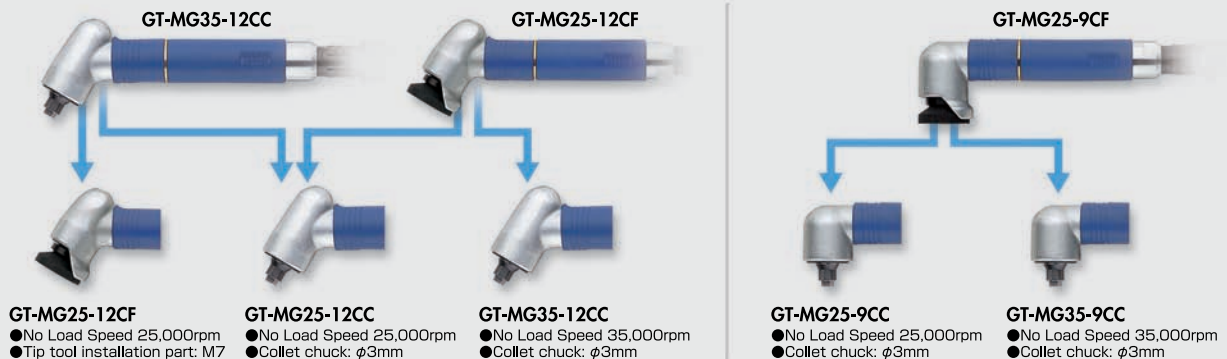


Model No.	Grit #
<b>LP-320</b>	320
<b>LP-400</b>	400
<b>LP-600</b>	600
<b>LP-800</b>	800

Color identification

## ONE POINT Corner Attachment Replacement Heads

A selection of corner attachments with differing head shapes and gear ratios is available. VESSEL will replace the micro grinder heads in accordance with your needs.



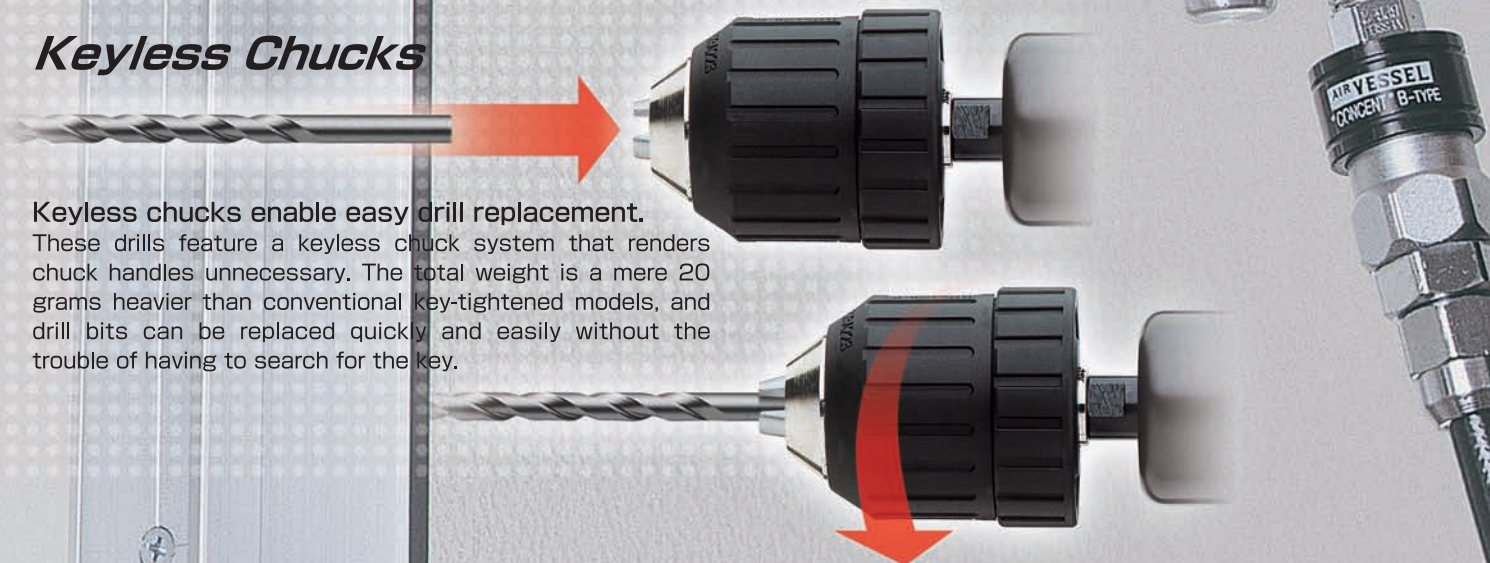


Handy, adaptable drills that can handle the precision drilling for a wide variety of applications including sash work, sheet metal work, and automobile assembly, these units boast precision motors for optimum revolution speed and minimum axial runout for both bits and shank to ensure accurate drilling without mistakes.



## Keyless Chucks

Keyless chucks enable easy drill replacement. These drills feature a keyless chuck system that renders chuck handles unnecessary. The total weight is a mere 20 grams heavier than conventional key-tightened models, and drill bits can be replaced quickly and easily without the trouble of having to search for the key.



# Air Drills

## Air Drills

The VESSEL Air Drill speedily drills holes of every small bore. Compact and lightweight, it is provided with functions, such as adjust-valve and silencer, which adds comfort to the workplace.

Drill Hole >>  $\phi$  6mm



No. **GT-D60-26**

- Rear exhaust
- Noise reducer

Drill Hole >>  $\phi$  8mm



No. **GT-D80-20**

- Rear exhaust
- Noise reducer



No. **GT-D80-20K**

- Rear exhaust
- Noise reducer
- Keyless chuck

Drill Hole >>  $\phi$  10mm



No. **GT-D100-15**

- Rear exhaust
- Noise reducer



No. **GT-D100-15K**

- Rear exhaust
- Noise reducer
- Keyless chuck

Model No.	Steel Plate Drilling Capacity $\phi$ (mm)	No Load Speed (rpm)	Air Consumption (m <sup>3</sup> /min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (g)	Chuck Size (mm)	Accessories	
									Plug	Chuck handle
<b>GT-D60-26</b>	6	2,600	0.2	Rc1/4	6.35	163	830	6.0	BPB-2	●
<b>GT-D80-20</b>	8	2,000	0.35	Rc1/4	6.35	165	940	8.0	BPB-2	●
<b>GT-D80-20K</b>	8	2,000	0.35	Rc1/4	6.35	171	960	8.0	BPB-2	—
<b>GT-D100-15</b>	10	1,500	0.54	Rc1/4	6.35	189	1,280	10.0	BPB-2	●
<b>GT-D100-15K</b>	10	1,500	0.54	Rc1/4	6.35	195	1,300	10.0	BPB-2	—

•Working air pressure···0.6MPa ·Overall length···Accessories and exhaust hose parts not included. ·Weight···Accessories not included.



Featuring superior speed, operating efficiency, and durability, our air grinders are designed for cutting sheet, plate, and board material, these air scrapers are available in 2 models, with emphasis on high speed and strength. The movement amplitude is both exact and strong, and as air scrapers these units have become the focus of attention in the recycling industry.



## *Carbide Blade for Glass Cut*

Our glass-cutting blades of ultra hard steel can cut out the front windshield of an automobile in approximately 30 seconds, making this an absolute necessity for automobile recycling.



# Air Saws

Cutting Capacity >> Metal Sheet **4mm** Patented

Cutting Capacity >> Metal Sheet **1.6mm** Patented



**No. GT-AS10**

•Noise reducer

Accessories

- Blade: 32-tooth thin blade ... ASB-32T...1pc.
- 32-tooth thick blade ... ASB-32H...1pc.
- 24-tooth thick blade ... ASB-24H...1pc.



**No. GT-AS100**

Accessories

- Blade: 32-tooth standard blade ... ASB-32 2 pcs.

Model No.	Cutting Capacity	Working Air Pressure (MPa)	Stroke Speed (c.p.m.)	Air Consumption (m <sup>3</sup> /min)	Stroke (mm)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories	
GT-AS10	Steel...4mm	0.6	5,000	0.28	10	Rc1/4	195.5	870	Plug	L-wrench
GT-AS100	Steel...1.6/ Wood...55mm	0.6	10,000	0.34	10	Rc1/4	170	570	BPB-2	H3
									BPB-2	H2,H4

Cutting capacity: GT-AS10: When used with a No. ASB-32H blade GT-AS100: When used with a No. ASB-32 blade Overall Length, Weight: Accessories not included.

## ONE POINT

Easy recovery by the restart button.



When the air motor accidentally stalls, the unit can be easily restarted by pushing the restart button.

## Air Saw Blades (For GT-AS10/AS100)

Attach to air saw tips for cutting.



<For steel>



<Scraper>



Flat type



Round type



Triangular type

<File>

Model No.	Specifications	Use	Quantity
ASB-32	For steel Cobalt mix, standard blade, 32 teeth	Cutting steel	10
ASB-32T	For steel Thin blade, 32 teeth	Cutting sheet metal, etc.	10
ASB-32H	For steel Cobalt mix, super thick blade, 32 teeth	Cutting plain and stainless steel sheet	10
ASB-24H	For steel Cobalt mix, super thick blade, 24 teeth	Cutting aluminum, soft steel and resin	10
ASC-25-5	Scraper 25 mm wide blade	Scraping, peeling, etc.	1
ASF-F-5	File Flat	File	5
ASF-R-5	File Round	File	5
ASF-T-5	File Triangular	File	5

## No. GT-ASC5 Air Scraper



•Noise reducer  
※Scraper sold separately



Use to detach IC chips from circuit boards when recycling PCs, faxes and copiers, or to scrape mortar or paint from external walls of structures.

Working Air Pressure (MPa)	Stroke Speed (c.p.m.)	Air Consumption (m <sup>3</sup> /min)	Stroke (mm)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories	
							Plug	L-wrench
0.6	7,000	0.28	5	Rc1/4	195.5	810	BPB-2	H3

## No. GT-AS10G Glass Cut Air Saw

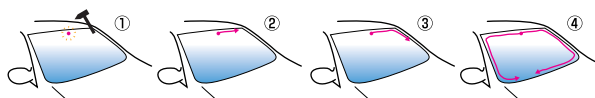


•Noise reducer  
※Scraper sold separately



For windshield recycling.

It only takes 30 seconds to cut out one windshield.



Working Air Pressure (MPa)	Stroke Speed (c.p.m.)	Air Consumption (m <sup>3</sup> /min)	Stroke (mm)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories	
							Plug	Spanner
0.6	5,000	0.28	10	Rc1/4	195.5	810	BPB-2	H3

For the date of delivery, consult Vessel.

## Scraper (For GT-ASC5)



No. ASC-25-8



No. ASC-50-8

Model No.	Blade Width (mm)	Axis Dia. φ (mm)	Use
ASC-25-8	25	8	for IC chip
ASC-50-8	50	8	for IC chip, wall

## Carbide Blade for Glass Cut (For GT-AS10G)



Model No.	Specifications	Use
ASB-10G	Thickness 3mm, 10teeth	for windshield glass

※Not compatible with GT-AS10, AS100.

## Air Nippers For Resin Gate

These are high-class air nippers that can be mounted on gate cutting equipment and standby jigs for accurate, speedy cutting of resin products. VESSEL has a wide selection of items to meet a variety of needs, from around-the-clock operations to high cutting precision.

### **Blades**

Manufactured by our unique heat process technology using high-class materials such as alloy tool steel and high-speed steel, these air nippers boast stable and sharp blade formation through the use of precision machining processes and extremely sharp cutting performance developed in accordance with our extensive knowledge of cutting technology.



## 1 Cutting material

What is the material to be cut?

Plastic		Metal	
Soft Plastic PP, etc.	Hard Plastic ABS, etc.	Copper wire	Steel wire Non-heat treated

## 2 Select diameter

What is the size of the material?

Calculate "W×H" to obtain the cross-sectional area and select a corresponding diameter.

Select the diameter.

※Sprues cannot be trimmed properly if they are bigger than the blade length or if they are too thin.

## 3 Select nipper body

To select a nipper body, please refer to the cutting capacity on the specification chart.

Capacity φ (mm)	Material			Model No.	Size (mm)											Air Consumption (cm <sup>3</sup> /sirr.)		
	Plastic	Copper	Steel		A	B	C	D	E	F	G	H	I	J	K			
2.0	1.6	1.0		GT-NY05														48
2.0	1.6	1.0		GT-NY05R	8.6	75.9	40.9	25	15	23	47.6	4	M4	3	22			48
2.0	1.6	1.0		GT-NY05-4														48
2.0	1.6	1.0		GT-NY05R-4														48
2.3				GT-NY10														68
2.3				GT-NY10R	8.8	82.1	42.1	30	20	28	51.6	6	M4	5	24			68
2.3				GT-NY10-4														68
2.3				GT-NY10R-4														68
2.6				GT-NY15														110
2.6				GT-NY15R	10.2	93	48	35	25	33	58	8	M4	5	27			110
2.6				GT-NY15-4														110
2.6				GT-NY15R-4														110
3.4				GT-NY25														180
3.4				GT-NY25R														180

Select the item.

## 4 Select blades

Please select blades compatible with the chosen nipper body.

Applicable Nippers	Model No.	Body		Size (mm)			
		a	b	d	e		
Copper Steel	GT-NY03G(-4)	NY03	AJ	21.0	7.0	10.5	3.0
		NY03	AJL	27.0	7.0	10.5	4.0
		NY03	AJT	21.0	7.0	10.5	3.0
1.6 1.0	GT-NY03GR(-4)	NY03	RAJ	21.0	7.0	10.5	3.0
		NY05	BJ	22.0	7.0	9.0	3.5
1.6 1.0	GT-NY05(-4) GT-NF05	NY05	AJ	22.0	7.0	10.5	4.0
		NY05	AJL	31.0	7.0	10.5	5.0
		NY05	AJB	22.0	7.0	10.5	4.0
		NY05	AJT	22.0	7.0	10.5	4.0
		NY05	AH	31.0	19.0	10.5	5.0
		NY05	RAJ	22.0	7.0	9.0	3.5

Select the item. (Please refer to P. 146)

\*The cutting capacity may differ depending on the temperature of material.

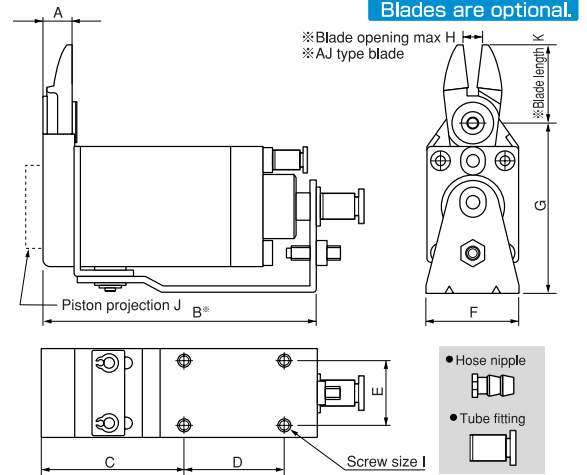
# Air Nippers For Resin Gate

## GT-NY05/10/15/25 Sliding Air Nippers Horizontal-Type

# NY



The horizontal slide enables space to be used effectively. The low profile of the main unit allows work to be removed without obstructing the operations of the chuck plate.



Capacity $\phi$ (mm)				Model No.	Size (mm)											Air Consumption (cm <sup>3</sup> /str.)	Weight (g)	Slide Distance (mm)	Hose Port
Soft Plastic	Hard Plastic	Copper	Steel		A	B	C	D	E	F	G	H	I	J	K				
3.0	2.0	1.6	1.0	<b>GT-NY05</b>	8.6	75.9	40.9	25	15	23	47.6	4	M4	3	22	48	155	Pull 0~3	W/hose nipple
3.0	2.0	1.6	1.0	<b>GT-NY05R</b>															Hose I.D. $\phi$ 2.5mm
3.0	2.0	1.6	1.0	<b>GT-NY05-4</b>															W/tube fitting
3.0	2.0	1.6	1.0	<b>GT-NY05R-4</b>															Hose I.D. $\phi$ 2.5XO.D. $\phi$ 4mm
3.5	2.3			<b>GT-NY10</b>	8.8	82.1	42.1	30	20	28	51.6	6	M4	5	24	68	210	Pull 0~3	W/hose nipple
3.5	2.3			<b>GT-NY10R</b>															Hose I.D. $\phi$ 2.5mm
3.5	2.3			<b>GT-NY10-4</b>															W/tube fitting
3.5	2.3			<b>GT-NY10R-4</b>															Hose I.D. $\phi$ 2.5XO.D. $\phi$ 4mm
4.0	2.6			<b>GT-NY15</b>	10.2	93	48	35	25	33	58	8	M4	5	27	136	319	Pull 0~3	W/hose nipple
4.0	2.6			<b>GT-NY15R</b>															Hose I.D. $\phi$ 2.5mm
4.0	2.6			<b>GT-NY15-4</b>															W/tube fitting
4.0	2.6			<b>GT-NY15R-4</b>															Hose I.D. $\phi$ 2.5XO.D. $\phi$ 4mm
5.0	3.4			<b>GT-NY25</b>	12.5	108.5	54.5	40	30	42	69	9	M5	2	31	184	580	Pull 0~5	W/hose nipple
5.0	3.4			<b>GT-NY25R</b>															Hose I.D. $\phi$ 4mm
5.0	3.4			<b>GT-NY25-6</b>															W/tube fitting
5.0	3.4			<b>GT-NY25R-6</b>															Hose I.D. $\phi$ 4XO.D. $\phi$ 6mm

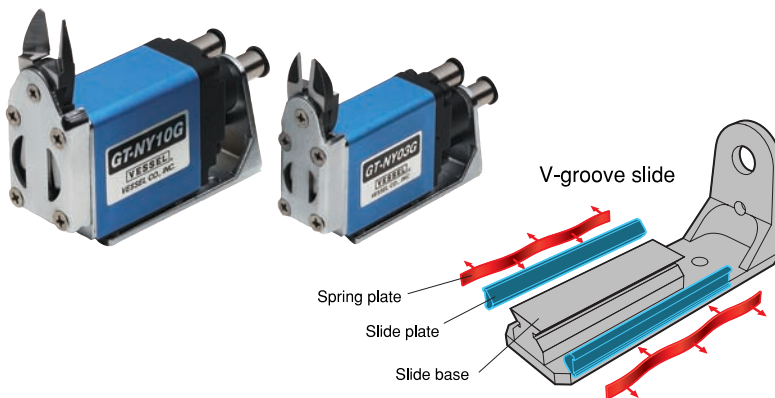
※ Air Pressure...0.4~0.5 MPa (NY25 type: 0.5~0.6)

※ B refers to the distance from the cut position for PUSH style models, and the distance from the start position for PULL style models.

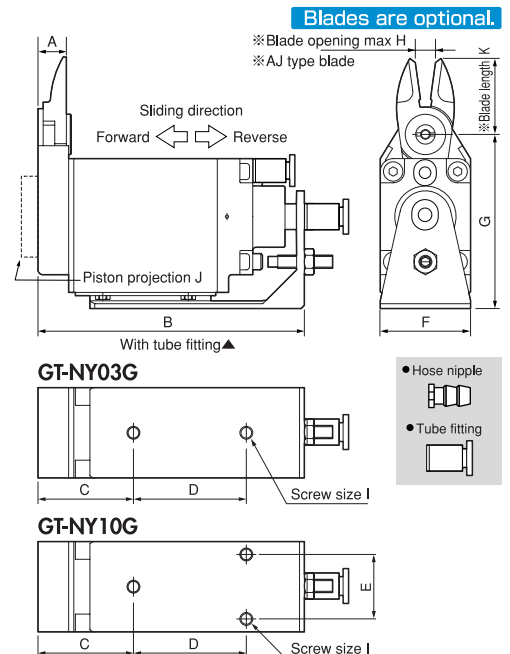
## GT-NY03G/10G Sliding Air Nippers Horizontal-Type

Patented

# NY-G



VESEL's patented, V-groove slide base ensures constant, stable positioning. The unit is not subject to inclined loads, and has achieved high precision gate cutting performance.



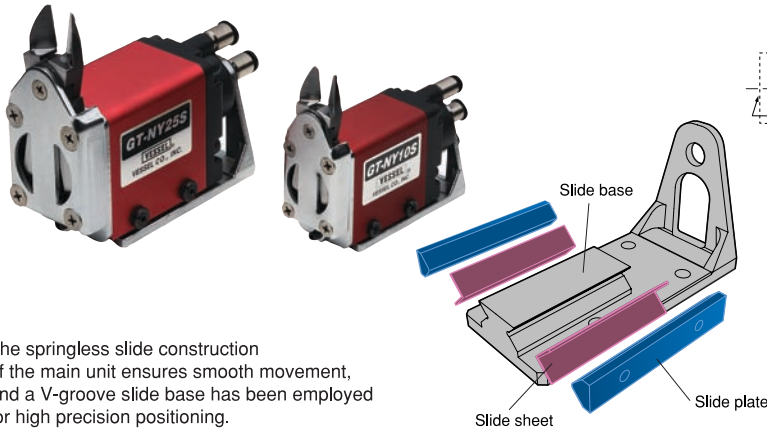
Capacity $\phi$ (mm)				Model No.	Size (mm)											Air Consumption (cm <sup>3</sup> /str.)	Weight (g)	Slide Distance (mm)	Hose Port
Soft Plastic	Hard Plastic				A	B	C	D	E	F	G	H	I	J	K				
2.0	1.3			<b>GT-NY03G</b>	8.6	74.5	29.5	30	-	19	46.5	3	M4	0	21	37	160	Pull 0~3	W/hose nipple
2.0	1.3			<b>GT-NY03GR</b>															Hose I.D. $\phi$ 2.5mm
2.0	1.3			<b>GT-NY03G-4</b>															W/tube fitting
2.0	1.3			<b>GT-NY03GR-4</b>															Hose I.D. $\phi$ 2.5XO.D. $\phi$ 4mm
3.5	2.3			<b>GT-NY10G</b>	8.8	82.6	29.6	35	20	28	54	6	M4	5	24	68	275	Pull 0~3	W/hose nipple
3.5	2.3			<b>GT-NY10GR</b>															Hose I.D. $\phi$ 2.5mm
3.5	2.3			<b>GT-NY10G-4</b>															W/tube fitting
3.5	2.3			<b>GT-NY10GR-4</b>															Hose I.D. $\phi$ 2.5XO.D. $\phi$ 4mm

※ Air Pressure...0.4~0.5 MPa

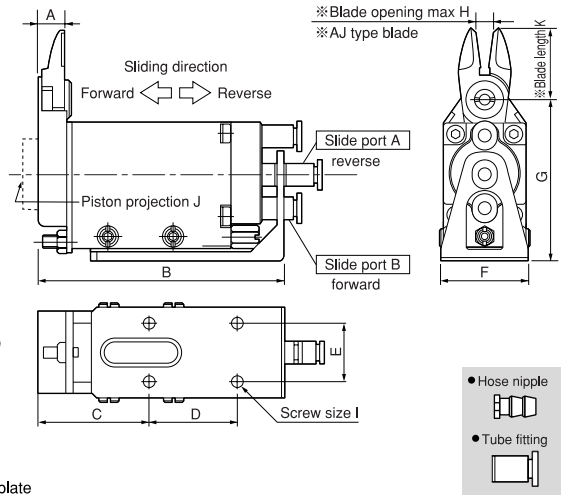
## GT-NY10S/25S Double Action Sliding Air Nippers

# NY-S

Blades are optional.



The springless slide construction of the main unit ensures smooth movement, and a V-groove slide base has been employed for high precision positioning.



Capacity $\phi$ (mm) Soft Plastic Hard Plastic	Model No.	Size (mm)										Air Consumption ( $\text{cm}^3/\text{str.}$ )	Weight (g)	Slide Distance (mm)	Hose Port		
		A	B	C	D	E	F	G	H	I	J				K	W/hose nipple	Hose I.D.
3.5 2.3	GT-NY10S	8.8	84.5	38	30	20	32	55	6	4-M4	5	24	68	300	0~3.5	W/tube fitting	Hose I.D. $\phi 2.5 \times \text{O.D. } \phi 4 \text{mm}$
5.0 3.4	GT-NY25S	12.5	106.5	47	40	30	47	72	9	4-M5	2	31	184	695	0~5.0	W/tube fitting	Hose I.D. $\phi 4 \times \text{O.D. } \phi 6 \text{mm}$

※Air Pressure: NY10S : 0.4~0.5 MPa / NY25S : 0.5~0.6 MPa

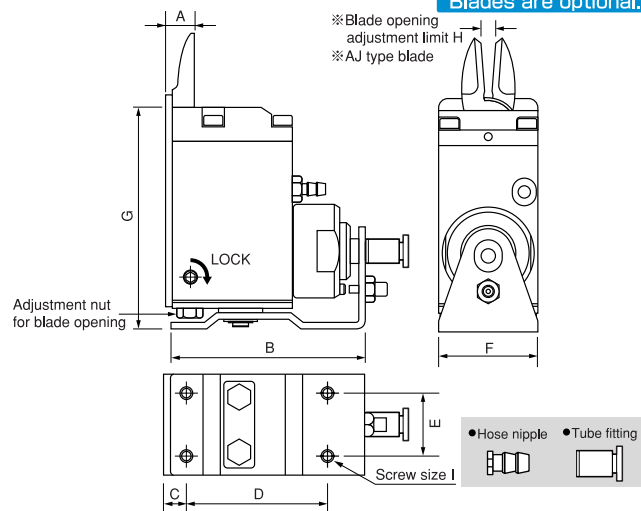
## GT-NT03/05/10/20 Sliding Air Nippers Vertical-type

# NT

Blades are optional.



Blade opening is adjustable, and fine adjustments are easy to make after mounting the nippers, ensuring clean, unblemished cut surfaces.



Capacity $\phi$ (mm) Soft Plastic Hard Plastic	Model No.	Size (mm)									Air Consumption ( $\text{cm}^3/\text{str.}$ )	Weight (g)	Slide Distance (mm)	Hose Port			
		A	B	C	D	E	F	G	H	I				W/hose nipple	Hose I.D.		
1.5 1.0	GT-NT03	9	62	7	43	14	19	68.1	1.5~3	M3	0.4~0.5	178	Pull 0~3	W/hose nipple	Hose I.D. $\phi 2.5 \text{mm}$		
1.5 1.0	GT-NT03R										0.4~0.5	178	Push 0~3				
1.5 1.0	GT-NT03-4										0.4~0.5	178	Pull 0~3			W/tube fitting	Hose I.D. $\phi 2.5 \times \text{O.D. } \phi 4 \text{mm}$
1.5 1.0	GT-NT03R-4										0.4~0.5	178	Push 0~3				
2.5 1.5	GT-NT05	9	64	7	45	20	32	71.1	3~6	M4	0.4~0.5	325	Pull 0~3	W/hose nipple	Hose I.D. $\phi 2.5 \text{mm}$		
2.5 1.5	GT-NT05R										0.4~0.5	325	Push 0~3				
2.5 1.5	GT-NT05-4										0.4~0.5	325	Pull 0~3			W/tube fitting	Hose I.D. $\phi 2.5 \times \text{O.D. } \phi 4 \text{mm}$
2.5 1.5	GT-NT05R-4										0.4~0.5	325	Push 0~3				
3.5 2.3	GT-NT10	11	73	8	53	24	38	88.1	4~7	M4	0.4~0.5	515	Pull 0~3	W/hose nipple	Hose I.D. $\phi 2.5 \text{mm}$		
3.5 2.3	GT-NT10R										0.4~0.5	515	Push 0~3				
3.5 2.3	GT-NT10-6										0.4~0.5	515	Pull 0~3			W/tube fitting	Hose I.D. $\phi 4 \times \text{O.D. } \phi 6 \text{mm}$
3.5 2.3	GT-NT10R-6										0.4~0.5	515	Push 0~3				
5.0 3.4	GT-NT20	14	103	10	80	28	44	102.1	4.5~9	M5	0.5~0.6	930	Pull 0~8	W/hose nipple	Hose I.D. $\phi 4 \text{mm}$		
5.0 3.4	GT-NT20R										0.5~0.6	930	Push 0~8				
5.0 3.4	GT-NT20-6										0.5~0.6	930	Pull 0~8			W/tube fitting	Hose I.D. $\phi 4 \times \text{O.D. } \phi 6 \text{mm}$
5.0 3.4	GT-NT20R-6										0.5~0.6	930	Push 0~8				

※Air Pressure: 0.4~0.5 MPa



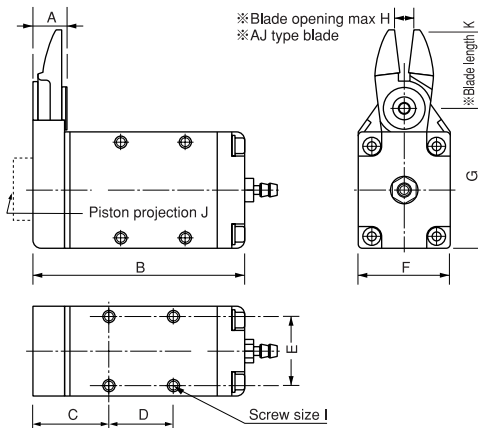
# Air Nippers For Resin Gate

## GT-NF05/10/15 Type-F Air Nippers

# NF



Blades are optional.



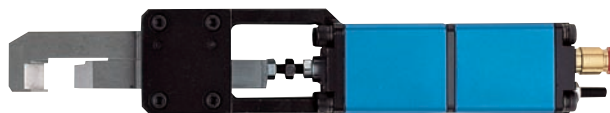
These compact, lightweight nippers have been designed for easy mounting inside equipment and to enable secure mounting under high-density mounting conditions.

Capacity $\phi$ (mm)				Model No.	Size (mm)											Air Consumption (cm <sup>3</sup> /str.)	Weight (g)	Spec. & Size of the Hose Port
Soft Plastic	Hard Plastic	Copper	Steel		A	B	C	D	E	F	G	H	I	J	K			
3.0	2.0	1.6	1.0	GT-NF05	8.6	59.9	21.9	17	18	23	39.5	4	M3	3	22	43	101	W/hose nipple Hose I.D. $\phi$ 2.5mm $\times$ $\phi$ 4mm
3.5	2.3	1.7	1.1	GT-NF10	8.8	65.1	23.1	20	22	28	43.5	6	M3.5	5	24	63	143	
4.0	2.6	1.8	1.2	GT-NF15	10.2	73	25	25	26	33	48.5	8	M4	5	27	128	219	

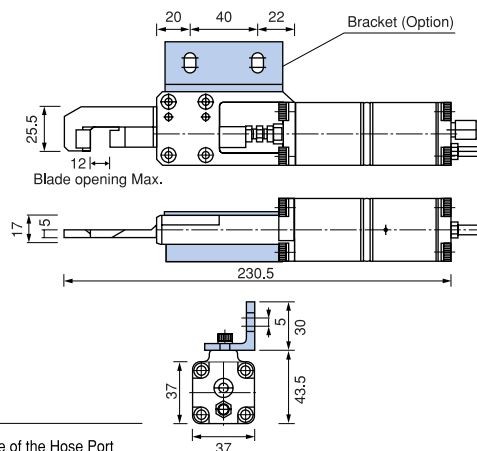
※Mounting screw for NF10 (M3.5) is regarded as spare part. ※Air Pressure...0.4~0.5 MPa

## GT-NK10 Thrust-Cut Air Nipper

# NK



Blades are optional.



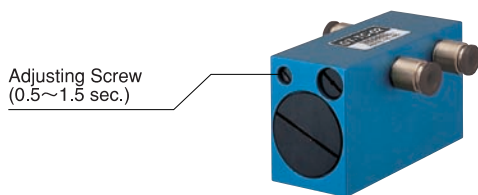
These nippers are equipped with a foot switch and are linked to high precision drivers, enabling the cutting of film-shaped gates from the thin end, preventing wrinkles around the cut.

Capacity $\phi$ (mm)	Model No.	Air Consumption (cm <sup>3</sup> /str.)	Air Pressure (MPa)	Weight (g)	Applied Pressure (N)	Spec. & Size of the Hose Port
5	GT-NK10	110	0.4~0.5	800	735	Hose I.D. $\phi$ 2.5 $\times$ O.D. $\phi$ 4mm

•Hose Coupling: I.D.  $\phi$ 4  $\times$  O.D.  $\phi$ 6 mm •Piston stroke...Max.12 mm

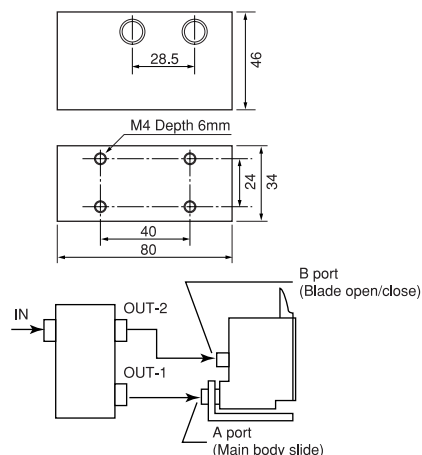
# GT-TC-02 Timing Controller

# TC



Adjusting Screw  
(0.5~1.5 sec.)

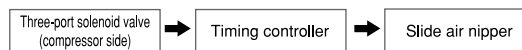
Connected between the compressor and the air nippers, the timing controller enables adjustments to the slide and cutting timing. (Approximately 0.5 seconds to 1.5 seconds)



Working air pressure ... 0.6MPa  
Size ... Height 46 × Length 80 × thickness 34 (mm)  
Weight ... 275 g With tube joint: I.D. φ4 × O.D. φ6 mm

### Connectable nippers (Reference)

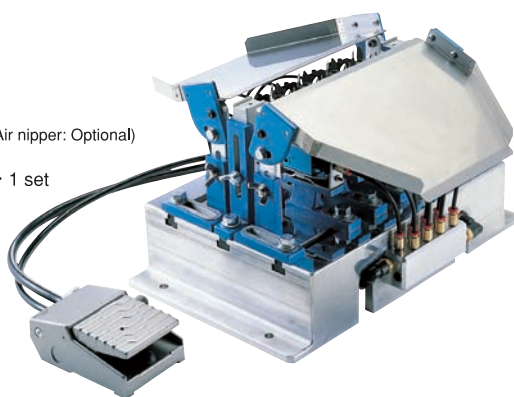
No. GT-	NY05	NY10	NY15	NY25	NT03	NT05	NT10	NT20	NB20	NB30	NB20LW	NB30LW
Connectable unit numbers	4	3	1	1	6	4	2	1	2	1	2	1



# ATC-30 Gate Cutting Table

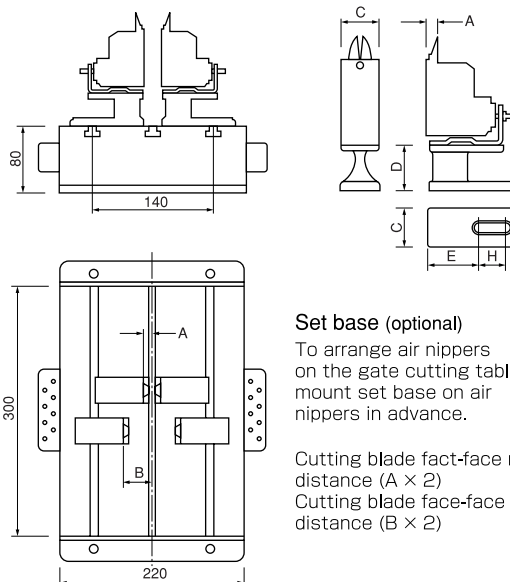
# ATC

Our gate cut table eliminates the trouble of manufacturing a jig. Air nipper position can be changed in accordance with changes in work requirements.



### Standard set detail (Air nipper: Optional)

- Table ... 1 unit
- Gate receiving base ... 1 set
- Foot switch ... 1 unit
- Chuter ... 1 set
- TC-02 ... 1 unit
- Accessories ... 1 set



### Set base (optional)

To arrange air nippers on the gate cutting table, mount set base on air nippers in advance.

Cutting blade fact-face min. distance (A × 2)  
Cutting blade fact-face max. distance (B × 2)

We quote, according to your molded sample, complete gate cut table.

Capacity φ (mm) ABS Plastics	Model No.	Max. Arrangement on Table	Dimensions (mm)					
			A	B	C	D	E	H
3.0	GT-NY05, NY05R, NY05-4, NY05R-4	8 units	8.6	27	23	50	40	15
1.5	GT-NT03, NT03R, NT03-4, NT03R-4	8 units	9	29	19	36	50	20
2.5	GT-NT05, NT05R, NT05-4, NT05R-4	8 units	10	30	32	40	49	20

Note: By extended piping, max. 20 pcs of NT03 max. 16 pcs of NY05, max. 12 pcs of NT05 can be installed.

# Standard Blades For Sliding Air Nipper

## Blade Type

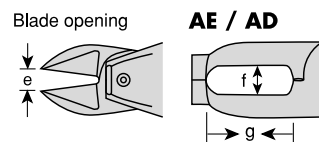
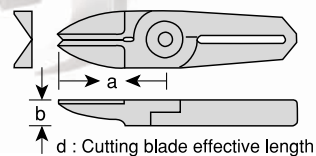


No. **NY10 A J**

Air Nipper  
Applicable model

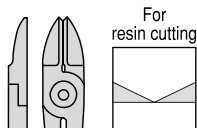
### Blade shape

- AJ** : Plastic, Straight
- AJL** : Plastic, Straight long
- AJT** : Plastic, Straight thin
- AE** : Plastic, Cutting off
- AJY** : Plastic, Recessed straight
- AD** : Plastic, Over-ride
- AH** : Plastic, Crank
- AJB** : Plastic, Straight (Sintered Alloy)
- AJV** : Plastic, Straight V-shaped
- AJH** : Plastic, Straight (High Speed Steel)
- BJ** : Metal, Straight
- RAJ** : Plastic, Straight Reversed
- RAH** : Plastic, Crank Reversed
- RBJ** : Metal, Straight Reversed

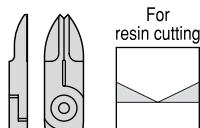


■...Sintered Alloy ■...High Speed Steel

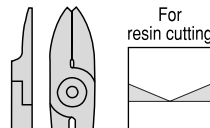
**AJ** Vertical blades whose cutting edges are not angled.



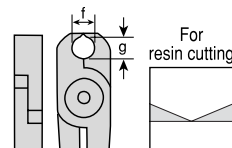
**AJL** In case there is a long distance between nipper body and gate.



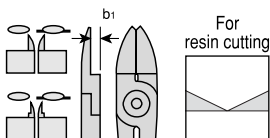
**AJT** Blade section is thin, enabling beautiful finish of surface.



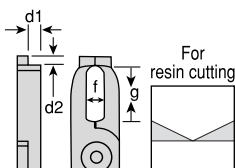
**AE** For many gate treatments such as over-fit gate, modified gate, etc.



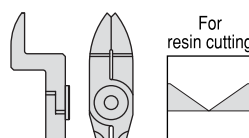
**AJY** In case the required gate width is small and ordinary blade is thick excessively.



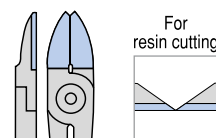
**AD** In case multi-dimensional de-gating is required.



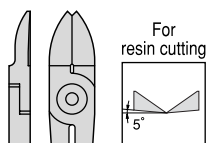
**AH** Cramped blades for resin cutting.



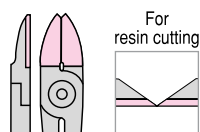
**AJB** Carbide tipped blades for cutting hard resin.



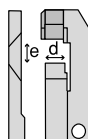
**AJV** In case cutting surface is curve and cutting face should be smooth.



**AJH** HSS tipped blades suitable for cutting hard resin works.



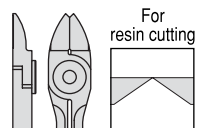
**NK10AJ**



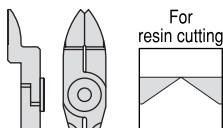
d: Cutting blade effective length ... 10,3 mm  
e: Max. blade opening ... 12 mm

Material	Shape	Weight (g)
Special alloy steel	For metal cutting (Knife type)	96

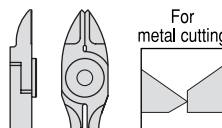
**RAJ** Reversed AJ blades



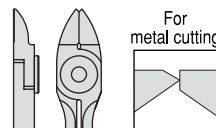
**RAH** Reversed AH blades to be employed when a pair of nipper bodies is installed face-to-face.



**BJ** Only one blade is edged for cutting metal wires.



**RBJ** Reversed BJ blades.





# Specification chart for standard blades

Sliding nippers Horizontal type (Forward / backward)

Capacity				Applicable Nippers	Model No.		Size (mm)				Weight (g)	
Soft Plastic	Hard Plastic	Copper	Steel		Body	Shape	a	b	d	e		f × g
2.0	1.3			GT-NY03G(-4)	NY03	AJ	21.0	7.0	10.5	3.0	17	
1.6	1.1				NY03	AJL	27.0	7.0	10.5	4.0	21	
2.0	1.3				NY03	AJT	21.0	7.0	10.5	3.0	17	
2.0	1.3			GT-NY03GR(-4)	NY03	RAJ	21.0	7.0	10.5	3.0	17	
	2.0	1.6	1.0		NY05	BJ	22.0	7.0	9.0	3.5	22	
3.0	2.0			GT-NY05(-4) GT-NF05	NY05	AJ	22.0	7.0	10.5	4.0	22	
2.8	1.6				NY05	AJL	31.0	7.0	10.5	5.5	29	
3.0	2.0				NY05	AJB	22.0	7.0	10.5	4.0	22	
3.0	2.0				NY05	AJT	22.0	7.0	10.5	4.0	21	
3.0	2.0				NY05	AH	31.0	19.0	10.5	5.5	37	
	2.0	1.6	1.0		NY05	RBJ	22.0	7.0	9.0	3.5	22	
3.0	2.0			GT-NY05R(-4) GT-NF05	NY05	RAJ	22.0	7.0	10.5	4.0	22	
3.0	2.0				NY05	RAH	30.0	12.0	10.5	5.0	31	
3.5	2.3				NY10	AJ	24.0	7.2	12.0	6.0	28	
3.2	2.1			GT-NY10(-4) GT-NY10G(-4) GT-NF10 GT-NY10S	NY10	AJL	33.0	7.2	12.0	8.0	37	
2.3	1.6				NY10	AD	26.5	7.2	d <sub>1</sub> 4.2 d <sub>2</sub> 2.5	6.0	6×13	31
3.5	2.3				NY10	AJB	24.0	7.2	12.0	6.0	28	
3.5	2.3				NY10	AJT	24.0	7.2	12.0	6.0	26	
3.5	2.3				NY10	AH	33.0	20.0	12.0	8.0	43	
3.5	2.3				GT-NY10R(-4) GT-NY10GR(-4) GT-NF10/GT-NY10S	NY10	RAJ	24.0	7.2	12.0	6.0	28
3.5	2.3				NY10	RAH	32.0	12.2	12.0	7.0	36	
4.0	2.6			GT-NY15(-4) GT-NF15	NY15	AJ	27.0	8.2	13.0	8.0	41	
3.7	2.3				NY15	AJL	38.0	8.2	13.0	11.0	50	
2.6	2.2				NY15	AD	30.0	8.2	d <sub>1</sub> 4.7 d <sub>2</sub> 3	8.0	7×4	45
4.0	2.6				NY15	AJB	27.0	8.2	13.0	8.0	41	
4.0	2.6				NY15	AJT	27.0	8.2	13.0	8.0	38	
4.0	2.6				NY15	AH	38.0	21.5	13.0	11.0	63	
4.0	2.6			GT-NY15R(-4) GT-NF15	NY15	RAJ	27.0	8.2	13.0	8.0	41	
4.0	2.6				NY15	RAH	35.0	13.2	13.0	9.0	52	
5.0	3.4			GT-NY25(-6) GT-NY25S	NY25	AJ	31.0	10.0	16.0	9.0	65	
4.7	3.0				NY25	AJL	46.0	10.0	16.0	13.0	88	
3.3	2.0				NY25	AD	35.0	10.0	d <sub>1</sub> 6 d <sub>2</sub> 4	9.0	8×17	75
5.0	3.4				NY25	AJB	31.0	10.0	16.0	9.0	65	
5.0	3.4				NY25	AH	46.0	24.0	17.0	13.0	110	
5.0	3.4				GT-NY25R(-6) GT-NY25S	NY25	RAJ	31.0	10.0	16.0	9.0	65
5.0	3.4				NY25	RAH	42.0	16.0	16.0	12.0	89	

Sliding nippers Vertical type (Forward / backward)

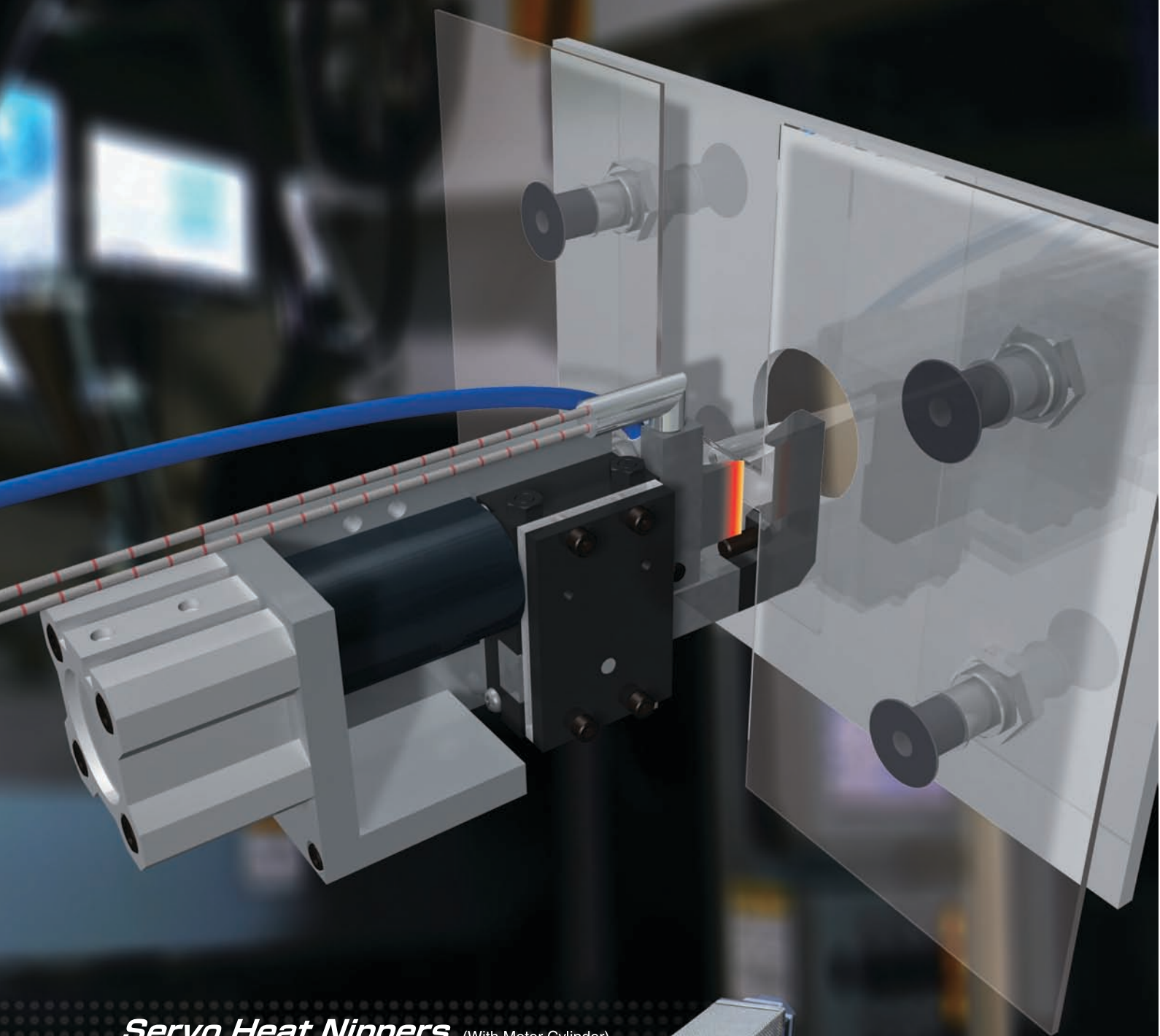
Capacity				Applicable Nippers	Model No.		Size (mm)				Weight (g)	
Soft Plastic	Hard Plastic	Copper	Steel		Body	Shape	a	b	d	e		f × g
1.5	1.0			GT-NT03	NT03	AJ	24.0	7.0	11.0	3.0	20	
1.5	1.0				NT03	AJT	24.0	7.0	11.0	3.0	19	
1.5	1.0				NT03	AJY	24.0	b <sub>1</sub> 7.0 4.5	11.0	3.0	19	
2.5	1.5			GT-NT05	NE5	AJ	24.0	7.0	12.0	6.0	35	
2.5	1.5				NT05	AJ	29.0	7.0	15.0	6.0	30	
2.0	1.3				NT05	AJL	36.0	7.0	15.0	7.0	39	
2.5	1.5				NT05	AJB	29.0	7.0	15.0	6.0	30	
2.5	1.5				NT05	AJT	29.0	7.0	15.0	6.0	29	
2.5	1.5				NT05	AJY	29.0	b <sub>1</sub> 7.0 4.0	15.0	6.0	29	
2.5	1.2				NT05	AD	31.5	7.0	d <sub>1</sub> 3.5 d <sub>2</sub> 2.5	6.0	6×18	37
2.5	1.5				NT05	AJH	29.0	7.0	15.0	6.0	30	
2.5	1.5				NT05	AJV	29.0	7.0	15.0	6.0	29	
2.0	1.3				NT05	AE	29.0	7.0	7.0	6.0	6×18	36
3.5	2.3				GT-NT10	NE10	AJ	27.0	9.0	12.0	7.0	70
3.5	2.3			NT10		AJ	35.0	9.0	17.0	7.0	62	
3.0	2.0			NT10		AJL	47.0	9.0	17.0	9.0	62	
3.5	2.3			NT10		AJB	35.0	9.0	17.0	7.0	76	
3.5	2.3			NT10		AJT	35.0	9.0	17.0	7.0	65	
3.5	2.3			NT10		AJY	35.0	b <sub>1</sub> 9.0 5.0	17.0	7.0	82	
3.5	2.1			NT10		AD	39.0	9.0	d <sub>1</sub> 5.0 d <sub>2</sub> 4.0	7.0	8×21.5	65
3.5	2.3			NT10		AJH	35.0	9.0	17.0	7.0	65	
3.5	2.3			NT10		AJV	35.0	9.0	17.0	7.0	63	
3.5	2.1			NT10		AE	35.0	9.0	9.0	7.0	8×21.5	75
5.0	3.4			GT-NT20		NT20	AJ	40.0	12.0	20.0	9.0	120
4.5	3.2				NT20	AJL	57.0	12.0	20.0	12.0	156	
5.0	2.0				NT20	AD	46.0	12.0	d <sub>1</sub> 7.0 d <sub>2</sub> 6.0	9.0	9×24.5	141
5.0	3.4				NT20	AJB	40.0	12.0	20.0	9.0	120	
5.0	3.4				NT20	AJH	40.0	12.0	20.0	9.0	120	

Capacity is listed as instant reference and depends on operation conditions.

## Heat Air Nippers

These air nippers are connected to a heater to suppress cracks and whitening of clear materials such as acrylic.

The gate is slowly melted as it's cut, resulting in a clean, unblemished cut surface.



### *Servo Heat Nippers* (With Motor Cylinder)

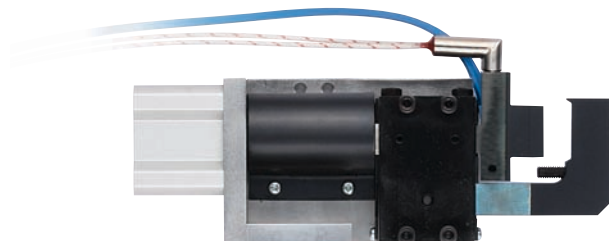
Outstanding positioning control by sequencer control and light movement by electromotive servo cylinder has achieved high precision lens cuts.



## GT-NKH20A/20AR Heat Air Nippers (Air Hydro Type)

# NKH

Air-hydro cylinders produce high power from air and oil. These units are ideal for high precision cuts required for products such as optical resin lenses.



- Requires separately sold Hydro Controller.
- Custom-made blade lengths and cylinder capacities available.

Model No.	Cutting Capacity width × thickness (mm) Acril	Blade Edge Temp. (MAX °C)	Cutting Cycle (sec/cut)	Air Consumption (cm <sup>3</sup> /str.)	Piston Stroke (mm)	Weight (g)
<b>GT-NKH20A-25/20AR-25</b>	10 × 1.5	180	4~5	60	10	720

- Included heater
- Included temperature sensor
- Air Pressure: 0.6MPa · Working air hose inner diameter: 4mm
- ※200V/240V heaters are also available to order.

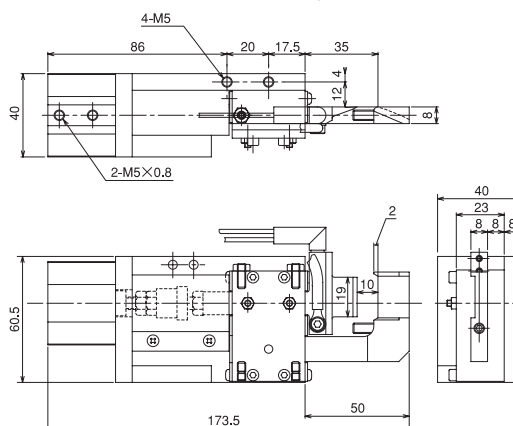
### Blades Specifications

Material	Blade Shape	Blade Opening (mm)	Cutting blade effective (mm)	Weight (g)
Alloy Steel	Knife type (resin)	10	19	125

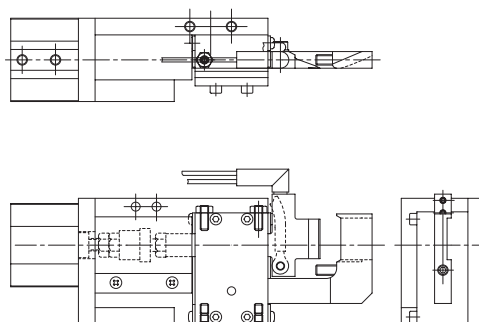
### Option Parts

- Hydro-converter (Recommended: KOGANEI AHC 32×50)
- Working fluid: Petroleum hydraulic fluid or turbine oil with antifoaming agent additive (VG22~100)
- Temperature controller (DTC-001)

### GT-NKH20A-25 (Forward-facing blades)



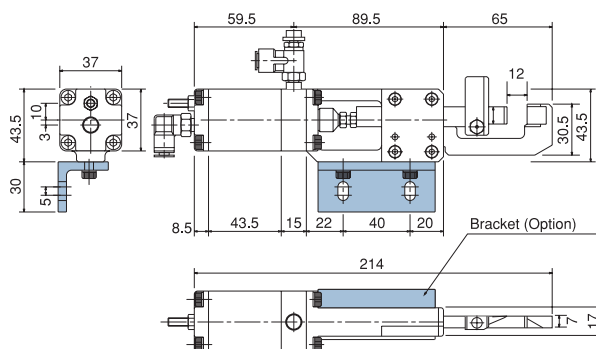
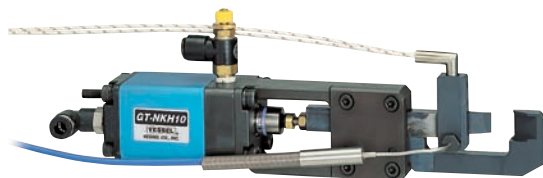
### GT-NKH20AR-25 (Backward-facing blades)



## GT-NKH10 Heat Air Nippers

# NKH

Speed control of cut speed and heater temperature allows for variable cutting surface solutions for extremely high precision cutting demands.



Model No.	Cutting Capacity width × thickness (mm) Acril	Blade Edge Temp. (MAX °C)	Cutting Cycle (sec/cut)	Air Consumption (cm <sup>3</sup> /str.)	Piston Stroke (mm)	Weight (g)
<b>GT-NKH10</b>	7 × 1.5	200	4~5	73	12	715

- Included heater
- Included temperature sensor
- Air Pressure: 0.4~0.5MPa

### Blades Specifications

Model No.	Material	Blade Shape	Blade Opening (mm)	Cutting blade effective (mm)	Weight (g)
<b>NKH10AJ/NKH10RAJ</b>	Alloy Steel	Knife type (resin)	12	10	137

### Option Parts

- Temperature controller (DTC-001)

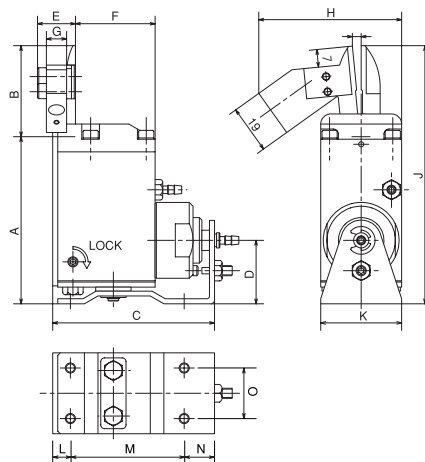


# Heat Air Nippers

## GT-NTH05/10 Heat Air Nippers (Sliding, Vertical-Type)

# NTH

One blade is fixed in position, facilitating easy gate alignment. In addition, a slide function presses the product into position.



Model No.	Cutting Capacity φ (mm) Acril	Blade Edge Temp. (MAX °C)	Cutting Cycle (sec/cut)	Air Consumption (cm <sup>3</sup> /str.)	Slide Distance (mm)	Weight (g)	Dimensions (mm)															
							A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
GT-NTH05	2.5	200	4~5	47	0~3	325	66.1	36	64	25.1	15	31.5	8	56.5	3.5	102.1	32	7	45	12	20	M4
GT-NTH10	3.5	200	4~5	82	0~3	515	83	47	73	29	16.2	37.5	8	63	4.5	130	38	8	53	12	24	M4

- Included heater
- Included temperature sensor
- Air Pressure: 0.4~0.5MPa

### Blades Specifications

Model No.	Material	Blade Shape	Blade Opening (mm)	Cutting blade effective (mm)	Weight (g)
NTH05AJ	Special Alloy Steel	Nipper type (resin)	3.5	15	40
NTH10AJ	Special Alloy Steel	Nipper type (resin)	4.5	17	88

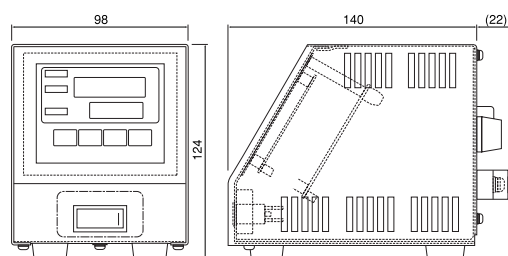
HTH type blade weight does not include heater and sensor.

Option Parts • Temperature controller (DTC-001)

## DTC-001 Benchtop Temperature Controller

# DTC

The heating element can be connected directly to the main unit, a useful feature that saves labor during wiring installation. Compact construction enables the unit to be easily carried, allowing for changing the work site at any time.



Please inform us of the product number of the heat nipper when placing an order.

Model No.	Temperature range Thermocouple K (°C)	Power supply (V)	Power consumption (with 100 VAC input)	Ambient temperature and humidity (°C)	Protection fuse	Weight (g)
DTC-001	0~200	AC100~240	Approx. 3W (Approx. 5VA) (With no load)	0~40 RH35~85% (No condensing)	One 1.5A fuse is incorporated.	900

\*Please ensure the input voltage in prior to operation as it is directly connected to the heater.

\*Two types of heaters are available for 100V and 240V.

Option Parts • Power supply cable : Model No. DTC-001-□-□

- : Cable for connection to the terminal block is necessary to be included. □: (N/ A) Cable not necessary.
- : 2m power cable w/ Japanese type plug (A-type) □: (N/ A) Cable not necessary.  
□: 2m power cable w/ European type plug (C-type)

## GT-NKHD20A/45 Servo Heat Nippers (With Motor Cylinder)

# NKHD

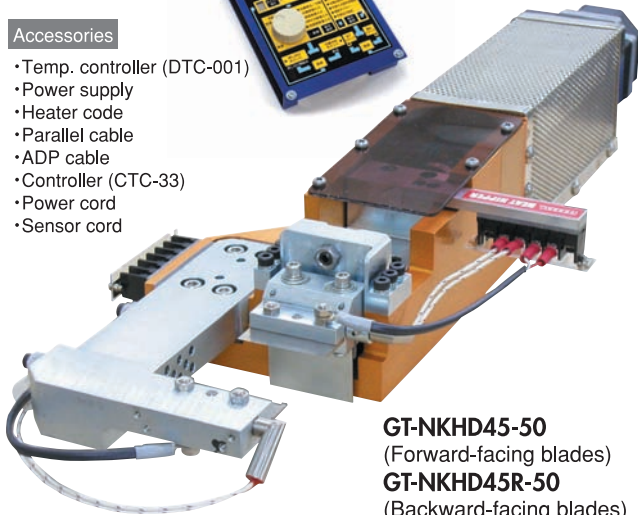
Blade travel distance and speed can be easily programmed. Servo motor control enables delicate blade feeds and quiet gate cutting work.



Controller  
CTC-33

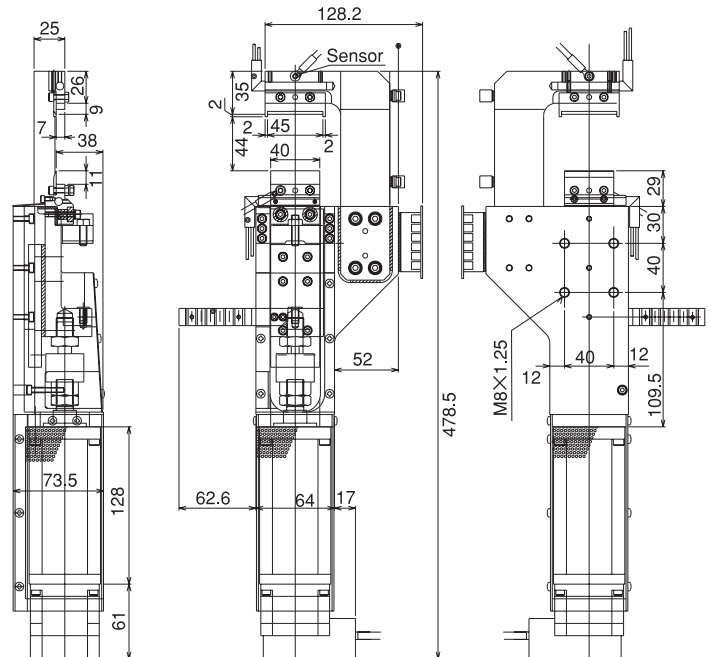
### Accessories

- Temp. controller (DTC-001)
- Power supply
- Heater code
- Parallel cable
- ADP cable
- Controller (CTC-33)
- Power cord
- Sensor cord



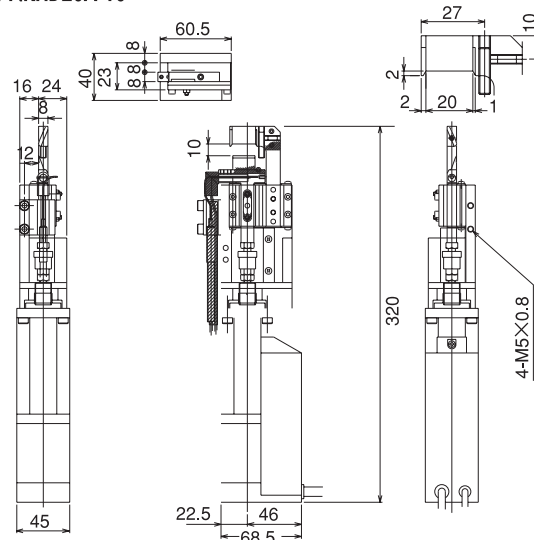
**GT-NKHD45-50**  
(Forward-facing blades)  
**GT-NKHD45R-50**  
(Backward-facing blades)

GT-NKHD45-50



Small type for lens cutting  
**GT-NKHD20A-10**  
(Forward-facing blades)  
**GT-NKHD20AR-10**  
(Backward-facing blades)

GT-NKHD20A-10



Model No.	Cutting Capacity width × thickness (mm) Acril	Blade Edge Temp. (MAX °C)	Cutting Cycle (sec/cut)	Blade Opening (mm)	Position Accuracy	Max. Thrust (N)	Max. Speed (mm/s)	Positioning Points (pts)	Power Supply Voltage	Current Consumption Power Control circuit	Weight (kg)
<b>GT-NKHD45(R)-50</b>	24 × 1.2	180	10	43	±0.1mm or less	500	100	16	DC24V±10%	3.0A 0.2A	5
<b>GT-NKHD20A(R)-10</b>	10 × 1.5	180	10	10	±0.1mm or less	100	400	16	DC24V±10%	2.0A	1.6

Option Parts • Temp. controller (DTC-001) • Power supply • Heater code • Parallel cable • ADP cable • Controller (CTC-33) • Power cord • Sensor cord

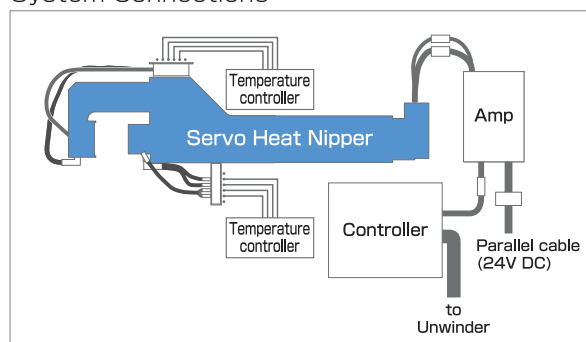
### Features

**Freely Settable Blade Travel Distance and Speed**  
Heating nippers that optimally uses the prime control features of the servomotor.

**Reduces Fusing, Cracking and Bad Cuts**  
Fine pitch feeding is possible, therefore cutting can be performed at low temperature and low speed.

**Stable Cutting**  
The blades are fed by servomotor control, therefore cutting quality is stable.

### System Connections



## Air Nippers For Cutting and Crimping

A tough body for hard jobs.

Our air nippers are available in a frame diameter range of 23mm to 75mm and suitable for a broad spectrum of cutting and crimping work.



### ***NM Blades***

These springless nipper blades utilize magnetic repulsion to open the blades, enabling around-the-clock operations. This innovative solution eliminates the trouble of defective gate cuts.

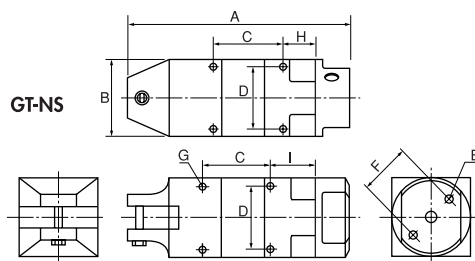


## GT-NS2/3/5/7/10L/20/30 Square Air Nippers

Blades are optional.

# NS

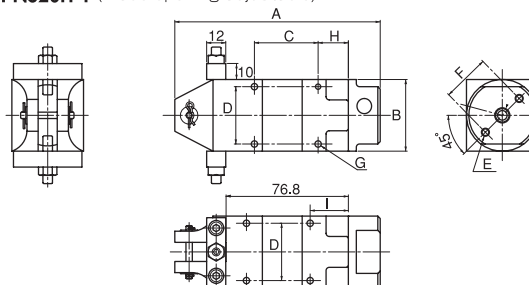
VESSEL provides a generous selection of blades for all wire cutting needs, including resin product gate cuts and automatic welding equipment.



GT-NS

Customization

GT-NS20H-1 (Blade opening adjustable)



- The position of air intake port is 180-degree rotatable.
- Two air intake ports are provided, so they can be switched depending on the mounting place.

Capacity $\phi$ (mm)				Model No.	Size (mm)							Air Consumption (cm <sup>3</sup> /str.)	Air Pressure (MPa)	Weight (g)	Hose coupling		
Soft Plastic	Hard Plastic	Copper	Steel		A	B	C	D	E	F	G					H	I
	1.0	0.5		<b>GT-NS2</b>	109	20	40	16	—	—	M3 Depth4	19	24	35	0.4~0.5	85	Rc1/8
2.0				<b>GT-NS3</b>	110	23	40	19	M3 Depth8	17	M3 Depth3.5	19	24	45	0.4~0.5	95	
2.0				<b>GT-NS5</b>	94	30	30	24	M4 Depth10	20	M3 Depth5	14	19	64	0.4~0.5	135	
3.0	2.0	1.6	1.0	<b>GT-NS7</b>	113	36	30	28	M4 Depth10	24	M4 Depth5.5	18	23	116	0.4~0.5	215	
4.0	2.6	1.8	1.2	<b>GT-NS10L</b>	113	36	30	28	M4 Depth10	24	M4 Depth5.5	18	23	116	0.4~0.6	215	
7.0	5.0	2.6	2.0	<b>GT-NS20</b>	129	45	40	36	M5 Depth12	30	M4 Depth7	19	24	230	0.5~0.6	370	
10.0	6.5	3.3	2.8	<b>GT-NS30</b>	170	56	60	46	M6 Depth12	40	M5 Depth10	20	30	584	0.5~0.6	685	
7.0	5.0	2.6	2.0	<b>GT-NS20H-1</b>	129	45	40	36	M5 Depth12	30	M4 Depth7	19	24	230	0.5~0.6	455	

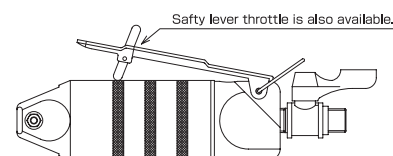
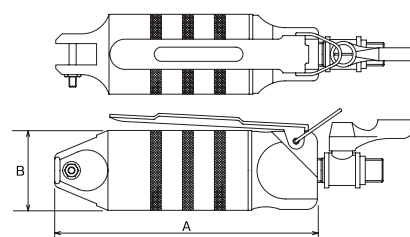
\*Air hose inner dia. : 5mm \*Overall length/Weight: Accessories not included.

## GT-N3/5/7/10/12/20/30/50 Hand Held Air Nippers

Blades are optional.

# N

VESSEL's special order blades provide solutions for a virtually unlimited range of needs, leading to safer, and more efficient work with less fatigue.



Safety lever throttle is also available.

- N20, N30 and N50 have the air cock.

Capacity $\phi$ (mm)				Model No.	Size (mm)		Air Consumption (cm <sup>3</sup> /str.)	Air Pressure (MPa)	Weight (g)	Body	Hose coupling
Soft Plastic	Hard Plastic	Copper	Steel		A	B					
2.0		1.0	0.5	<b>GT-N3</b>	112	23	45	0.4~0.5	95	Rc1/8	R1/4
2.0		1.0	0.5	<b>GT-N5</b>	103	30	64	0.4~0.5	135	Rc1/8	
3.0	2.0	1.6	1.0	<b>GT-N7</b>	123	34	116	0.4~0.5	180	Rc1/4	
4.0	2.6	1.8	1.2	<b>GT-N10</b>	132	34	116	0.4~0.5	185	Rc1/4	
4.5	4.0	2.3	1.7	<b>GT-N12</b>	142	36	116	0.5~0.6	210	Rc1/4	
7.0	5.0	2.6	2.0	<b>GT-N20</b>	156	45	230	0.5~0.6	375	Rc1/4	
10.0	6.5	3.3	2.8	<b>GT-N30</b>	193	56	584	0.5~0.6	625	Rc1/4	
		5.5	4.5	<b>GT-N50</b>	237	75	1,170	0.5~0.6	1,220	Rc1/4	

\*Hose coupling: R 1/4 \*Air hose inner dia. : 5mm \*Overall Length: Accessories, Hunger not included. \*Weight: Accessories not included.

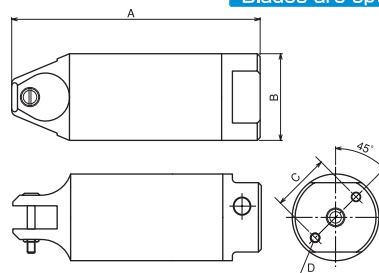
# Air Nippers

## GT-NR3/5/7/10L/20/30/50 Air Nipper Round-Type without Lever

# NR



Blades are optional.



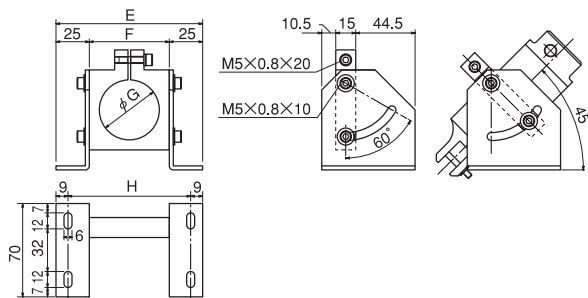
- The position of air intake port is 180-degree rotatable.
- Two air intake ports are provided, so they can be switched depending on the mounting place.

Soft Plastic	Hard Plastic	Copper	Steel	Model No.	Size (mm)				Air Consumption (cm <sup>3</sup> /str.)	Air Pressure (MPa)	Weight (g)	Hose coupling
					A	B	C	D				
2.0	1.0	0.5		GT-NR3	110	23	17	M3 Depth8	45	0.4~0.5	70	Rc1/8
2.0	1.0	0.5		GT-NR5	94	30	20	M4 Depth10	64	0.4~0.5	110	
3.0	2.0	1.6	1.0	GT-NR7	113	34	22	M4 Depth10	116	0.4~0.5	150	
4.0	2.6	1.8	1.2	GT-NR10L	113	36	24	M4 Depth10	116	0.4~0.6	215	
7.0	5.0	2.6	2.0	GT-NR20	129	45	30	M5 Depth12	230	0.5~0.6	280	
10.0	6.5	3.3	2.8	GT-NR30	165	56	40	M6 Depth12	584	0.5~0.6	505	
12.0	6.5	5.5	4.5	GT-NR50	222	75	50	M8 Depth12	1,170	0.5~0.6	1,190	

•Air hose inner dia. : 5mm •Overall Length/Weight: Accessories not included.

### Stand

Model No.	E	Size (mm)			Weight (g)
		F	G	H	
NR10LST	102	52	36	84	335
NR20ST	110	60	45	92	385
NR30ST	130	80	56	112	535
NR50ST <span style="color: blue;">Option</span>	150	100	75	132	835



## P-10L/20/30/50 Extra Pressure Boosters

# P

This unit is to be used in case the originally required pressure is not obtainable by the limit of space and air pressure.



Soft Plastic	Capacity φ (mm)			Applicable Model	Model No.	Size (mm)		Air Consumption (cm <sup>3</sup> /str.)	Air Pressure	Weight (g)
	Hard Plastic	Copper	Steel			A	B			
5.0	4.0	2.6	1.6	NS10L, NR10L, N12	P-10L	71	36	223	Up to 0.4MPa	115
8.0	6.0	3.0	2.2	N20, NS20, NR20	P-20	87	45	508	Up to 0.5MPa	215
13.0	7.0	4.8	4.0	N30, NS30, NR30	P-30	92	56	956	Up to 0.5MPa	330
		6.5	5.5	N50, NR50	P-50	133	75	2,670	Up to 0.5MPa	840

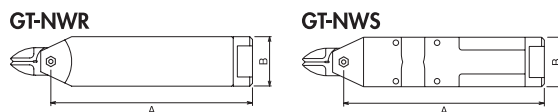
•Above figures of overall length and the weight are defined for the extra booster specs only. And these figures in the installation.

## GT-NWR1/10/20/30 GT-NWS1/10/20 Double Action Air Nippers

Patented

# NWR · NWS

Blades are optional.



Blade opening and closing is air piston driven.  
Having no spring mechanism in the main unit facilitates maintenance operations.



Model No.	Capacity φ (mm)			Air Consumption (cm <sup>3</sup> /str.)	Applied Pressure (N)	Air Pressure (MPa)	Size (mm)		Weight (g)
	Copper	Steel	ABS Plastic				A	B	
Double Action Air Scissors (Round Type without Lever)									
GT-NWR1	1.0	0.5	2.0	45	294	0.4~0.5	95	φ 20	116
GT-NWR10	1.8	1.2	4.0	116	588	0.4~0.5	146	φ 36	280
GT-NWR20	2.6	2.0	6.5	230	1,372	0.5~0.6	165	φ 45	523
GT-NWR30	3.3	2.8	9.5	584	2,744	0.5~0.6	216	φ 56	980
Double Action Air Scissors (Square Type)									
GT-NWS1	1.0	0.5	2.0	45	294	0.4~0.5	95	23x20	116
GT-NWS10	1.8	1.2	4.0	116	588	0.4~0.5	146	36x36	356
GT-NWS20	2.6	2.0	6.5	230	1,372	0.5~0.6	165	45x45	610

# GT-NB20/30/20LW/30LW Slide-Off Air Nipper Bracket-Type

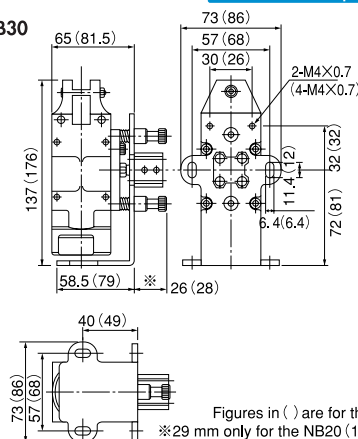
# NB

VESSEL has achieved smooth, continuous slide movement even for large diameter gate cuts, which produce a large shock at each cut.

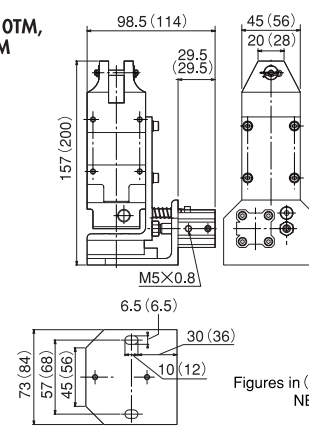


Blades are optional.

GT-NB20,NB30



GT-NB20LW-10TM, NB30LW-10TM



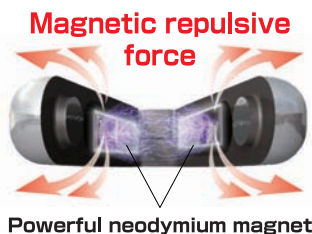
Model No.	Slide Direction/Distance (mm)	Weight (g)
GT-NB20 (5-OSHI)	Push 0~5	755
GT-NB20 (5-HIKU)	Pull 0~5	755
GT-NB20 (10-OSHI)	Push 0~10	755
GT-NB20 (10-HIKU)	Pull 0~10	755
GT-NB30 (10-HIKU)	Pull 0~10	1,435
GT-NB20LW-10TM	Pull 0~10	785
GT-NB30LW-10TM	Pull 0~10	1,315
GT-NB20LW-10SM	Push 0~10	785
GT-NB30LW-10SM	Push 0~10	1,315

## NM Blades

Patented

# NM

NM blades eliminate trouble caused by Spring breakage. Compliant with your VESSEL current air nippers. Spring replacement is no longer required as the neodymium magnet works semi-permanently.

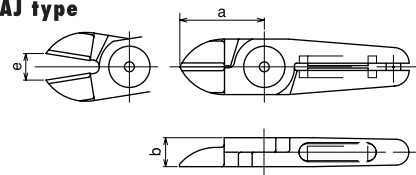


**CAUTION**  
 Powerful magnet is used.

### Specifications

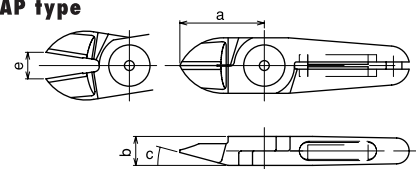
#### Straight and Thin / For plastic parts

##### AJ type



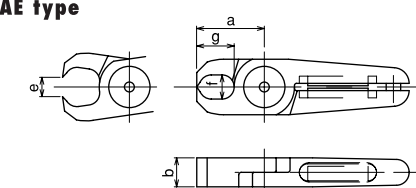
#### Angled / For plastic parts

##### AP type



#### Cutting-off / For plastic parts

##### AE type



Capacity φ (mm)		Applicable Nippers	Model No.	Size (mm)				Weight (g)
Soft Plastic	Hard Plastic			a	b	c(*)	d e f × g	
7.0	5.0	GT-N20	NM20AJ	35	12		18.0 11.0	116
7.0	5.0	GT-NS20	NM20AP	35	12	15	16.0 11.0	124
7.0	5.0	GT-NR20	NM20AE	28	12		12.0 8.0	129
10.0	6.5	GT-N30	NM30AJ	52	17		28.0 11.0	360
10.0	6.5	GT-NS30	NM30AP	66	17	15	38.0 16.0	380
10.0	6.5	GT-NR30	NM30AE	45	17		17.0 12.0	358

※Customization also available upon request.



# Blades For Air Nipper

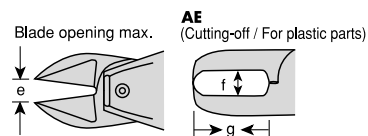
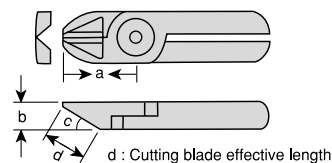
## Blade Type

No. **N10L A S**

Air Nipper  
Applicable model

Blade shape

- AS** : Standard
- HS** : Standard (High Speed Steel)
- AG** : Strong Cutting
- ACD** : Crimping
- BJ** : Straight
- BFB** : Clipper (Sinterd Alloy)
- BBB** : Strong Cutting (Sinterd Alloy)
- AP** : Plastic, Standard
- AJ** : Plastic, Straight Thin
- PF** : Plastic, Flat Cutting
- AJL** : Plastic, Straight Long
- AE** : Plastic, Cutting-off
- AJB** : Plastic, Straight (Sinterd Alloy)
- AH** : Plastic, Crank
- AML** : Plastic, Leftward cutting
- AMR** : Plastic, Rightward cutting

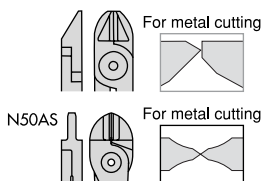


※Material (Cutting Blade)

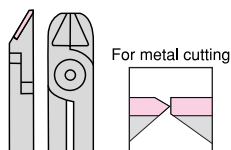
■ Sintered Alloy  
Hardest, most durable material.  
For cutting hard steel wire, glass  
fiber-reinforced resin, etc.

■ High Speed Steel  
When more durability than special  
steel alloy is needed, such  
as to cut piano wire.

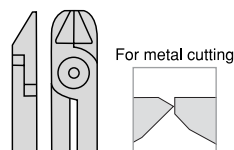
**AS** Standard type Ordinary blades for cutting copper wire and steel wire.



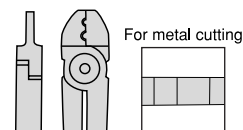
**HS** High speed steel brazed for durability.



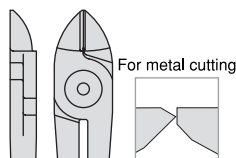
**AG** Shorter than the standard type for greater strength.



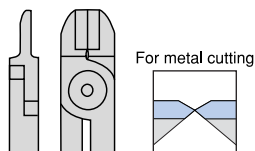
**ACD** For crimping.



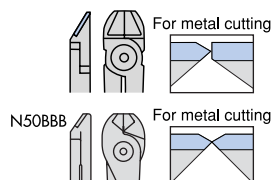
**BJ** Only one blade is edged for cutting metal wires.



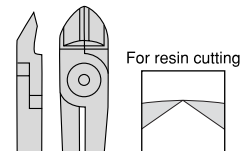
**BFB** Clipper type blades with ultra hard carbide tips.



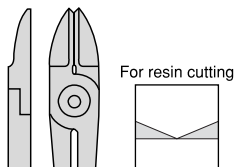
**BBB** These blades have ultra hard carbide tips.



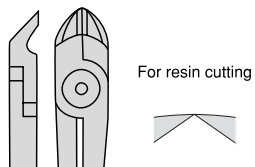
**AP** Standard blades used for cutting resin.



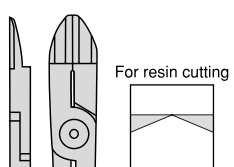
**AJ** Vertical blades whose cutting edges are not angled.



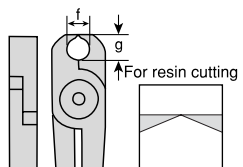
**PF** These blades produce a flat cut, and are used for cutting resin.



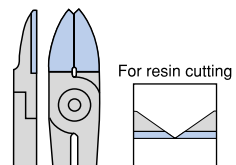
**AJL** In case there is a long distance between nipper body and gate.



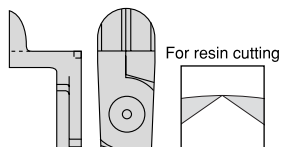
**AE** For many gate treatments such as over-fit gate, modified gate, etc.



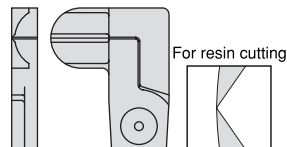
**AJB** Carbide tipped blades suitable for cutting hard resin.



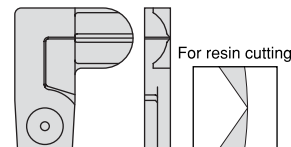
**AH** Cramped blades for resin cutting.



**AML** These blades have a 90° angle to the left and are used for cutting resin.



**AMR** These blades have a 90° angle to the right and are used for cutting resin.



# Specification chart for standard blades



Capacity					Applicable Nippers	Model No.		Size (mm)					Weight (g)	
Soft Plastic	Hard Plastic	Copper	Steel	Piano Wire		Body	Shape	a	b	c (°)	d	e		f × g
		1.0	0.5		GT-N3, NS3, NR3 GT-NS2 (N3BJ only)	N3	AS	24	7	25	12.0	4.0		35
		1.0	0.5	0.2		N3	HS	24	7	25	12.0	4.0		35
2.0						N3	AP	24	7	15	11.5	4.0		35
2.0						N3	AE	20	7		7.0	3.5	6×6.6	35
		1.0	0.5			N3	BJ	24	7		13.0	5.0		35
		1.0	0.5		GT-N5 GT-NS5 GT-NR5	N5	AS	24	7	25	12.0	4.0		40
		1.0	0.5	0.3		N5	HS	24	7	25	12.0	4.0		40
2.0						N5	AP	24	7	15	11.5	4.0		40
2.0						N5	AE	20	7		7.0	3.5	6×6.6	40
		1.0	0.5			N5	BJ	24	7		13.0	4.0		40
		1.6	1.0		GT-N7 GT-NS7 GT-NR7	N7	AS	27	9	30	13.5	4.0		80
		1.6	1.0	0.5		N7	HS	27	9	30	13.5	4.0		80
3.0	2.0					N7	AP	27	9	30	13.0	4.0		80
3.0	2.0					N7	PF	27	9	40	10.5	4.0		80
3.0	2.0					N7	AE	26	9		9.0	4.0	8×8.8	85
		1.6	1.0		N7	BJ	27	9		13.0	5.0		75	
		1.8	1.2		GT-N10	N10	AS	27	9	30	13.5	5.0		85
		1.8	1.2	0.5		N10	HS	27	9	30	13.5	5.0		85
4.0	2.6					N10	AP	27	9	30	11.5	5.0		85
		1.8	1.2		GT-NS10L GT-NR10L	N10L	AS	35	12	30	20.0	5.0		120
4.0	2.6					N10L	AP	35	12	15	16.0	5.0		120
4.0	2.6					N10L	PF	35	12	40	13.5	5.0		120
		2.3	1.7		GT-N12	N12	AS	35	12	30	20.0	5.0		135
		2.3	1.7	0.6		N12	HS	35	12	30	20.0	5.0		135
4.5	4.0					N12	AP	35	12	15	16.0	5.0		135
		2.6	2.0		GT-NS20 GT-NR20 GT-N20	N20	AS	35	12	30	20.0	9.0		140
		2.6	2.0	1.0		N20	HS	26	12	40	10.0	7.0		135
		2.6	2.0			N20	AG	28	12	40	12.0	7.0		135
7.0	5.0					N20	AP	35	12	15	16.0	11.0		125
7.0	5.0					N20	AJ	35	12		18.0	11.0		125
6.0	4.0					N20	AJL	65	12		20.0	16.0		230
		5.0				N20	AJB	35	12		18.0	11.0		125
7.0	5.0					N20	PF	35	12	40	13.5	11.0		130
7.0	5.0					N20	AE	28	12		12.0	8.0	10×15.5	135
		2.6	2.0	1.2		N20	BFB	35	12		17.0	8.0		150
6.0						N20	AH	60	12		23.0	16.0		240
10×1.5	8×1					N20	AML	55	12		26.0	9.5		270
10×1.5	8×1					N20	AMR	55	12		26.0	9.5		270
		3.3	2.8		GT-NS30 GT-NR30 GT-N30	N30	AS	43	17	30	25.0	9.0		370
		3.3	2.8	1.2		N30	BBB	36	17	40	18.0	7.0		365
10.0	6.5					N30	AP	66	17	15	38.0	16.0		380
10.0	6.5					N30	AJ	52	17		28.0	11.0		370
8.0	5.0					N30	AJL	75	17		25.0	19.0		470
10.0	6.5					N30	PF	58	17	30	25.0	15.0		390
10.0	6.5					N30	AE	45	17		17.0	12.0	13×28	395
( 1.25sq 2.0sq Bare Terminal)					N30	ACD	40	17					335	
		5.5	4.5		GT-NR50/GT-N50	N50	AS	60	25		30.0	11.0		950
		5.5	4.5	2.0		N50	BBB	46	25	35	19.0	9.0		955

For Double Action Air Nipper

		1.0	0.5		GT-NWR1/GT-NWS1	NW1	BJ	20			10.5	3.5		16
		4.0			GT-NWR10/NWS10	NW10	AJ	30			14.0	5.0		76
		1.8	1.2			NW10	BJ	30			14.0	5.0		76
		6.5			GT-NWR20/NWS20	NW20	AJ	40			21.5	8.0		142
		2.6	2.0			NW20	BJ	40			21.5	8.0		142
		9.5			GT-NWR30	NW30	AJ	55			29.5	11.0		368
		3.3	2.8			NW30	BJ	55			29.5	11.0		368

\*Capacity is listed as instant reference and depends on operation conditions. \*Weight includes the blade spring. \*Steel wires: Not heat treated. \*Piano wires: Hardness lower than HV320  
 \*The cutting capacity of N20AML and N20AMR is thickness.

# Air Scissors

## GT-H12K/H30/H120K/HS30 Air Scissors



Serrated micro edge

Two types of blades, standard and micro-edge, are available for use in accordance with the demands of each specific job.



**GT-H12K** Small lightweight type with one fixed blade



**GT-H30**



**GT-HS30**



**GT-H120K** With one fixed blade

Model No.	Capacity (max) (mm)	Air Consumption (cm <sup>3</sup> /str.)	Applied Pressure (MPa)	Overall Length (with Blade) (mm)	Weight (with Blade) (g)
<b>GT-H30</b>	Kevlar t=1	584	0.3	280	1,030
<b>GT-H12K</b>	Kevlar t=0.3	116	0.2	186.2	290
<b>GT-H120K</b>	Band steel 1.5×0.5t	116	0.5~0.6	211	340
<b>GT-HS30</b>	Kevlar t=1	584	0.3	260	970

•Hose coupling: R 1/4(Body Rc 1/8) •Air hose inner dia. : 5mm

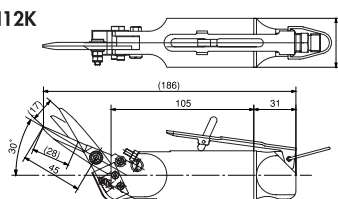
•Overall length/Weight: Accessories not included.

•Total length and weight of the GT-HS30 and HS30 are given with the H30ME blade mounted.

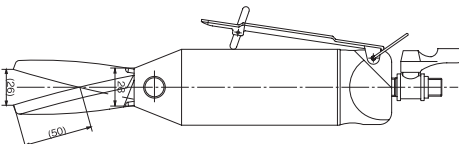
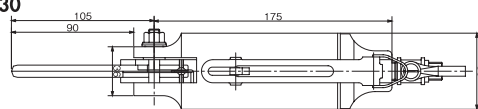
### Blades specifications

Model No.	Applicable Nippers	Blade Shape	Blade Aperture (mm)	Effective Blade Cutting Length (mm)	Weight (g)
<b>H30ME</b>	H30	Scissors type Serrated micro edge	26	50	280
<b>H30MEL</b>	HS30		34	67	285
<b>H12ME30K</b>	H12K	Scissors type	17	28	56
<b>H120SK</b>	H120K		15	38	115

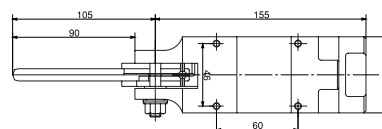
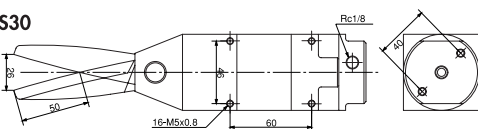
**GT-H12K**



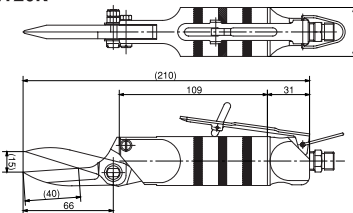
**GT-H30**



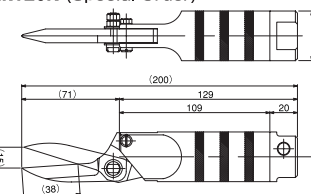
**GT-HS30**



**GT-H120K**



**GT-HR120K (Special Order)**



## GT-HWR1/10 GT-HWS1/10 Double Action Air Scissors

Patented

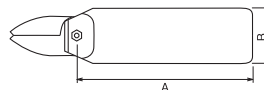
Blades are optional.



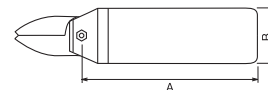
Blade opening and closing is air piston driven. Having no spring mechanism in the main unit facilitates maintenance operations.



**GT-HWR**



**GT-HWS**



Model No.	Capacity (mm)	Air Consumption (cm <sup>3</sup> /str.)	Applied Pressure (MPa)	Air Pressure (MPa)	A (mm)	B (mm)	Weight (g)
Double Action Air Scissors (Round Type without Lever)							
<b>GT-HWR1</b>	1.0	0.5	45	294	0.4~0.5	95	20 84
<b>GT-HWR10</b>	1.8	1.2	116	588	0.4~0.5	146	36 295
Double Action Air Scissors (Square Type)							
<b>GT-HWS1</b>	1.0	0.5	45	294	0.4~0.5	95	23×20 116
<b>GT-HWS10</b>	1.8	1.2	116	588	0.4~0.5	146	36 356

### Applicable Blade Specifications

Model No.	Blade Opening (mm)	Cutting blade effective length (mm)	A (mm)	Weight (g)
For GT-HWR1/HWS1				
<b>HW1J</b>	3.0	10	25	16
For GT-HWS10				
<b>HW10J</b>	5.0	28	40	76



## Blade Type

Vessel customizes blades for a wide variety of uses.

Custom-made blades are available at low cost, speedy delivery and guaranteed flexible adaptation to a wide range of work. See the examples below. We accept orders for small quantity as well.

No. **NY10 A E H 15**

Mounting body

Blade shape

Blade edge

Drawing registered No.

Material  
Only when special material is used  
H→High-speed steel  
B→Carbide

A: For plastic B: For metal C: Crimping D: Other ?

**A** Angled

**B** Angled

**C** Crimping

**D** Mounted gate

**E** Disposable gate treatment

**F** Power cutting

**G** Punching

**H** Crankshaft

**I** Pilers type

**J(JL)** Long blade for plastic  
Straight Long blade

**K** L-shaped  
(disposable gate treatment)

**L** L-shaped

**M/XL/XR** Side opening blades

**TN** Tube cutting

**VO** Nail pulling

**DI** Bending

**VHA** Scissors

Cutting of stranded wire

Film gate

Direct gate

**AHE** Pin gate treatment  
...Treatment of small gates which should be automatically cut at de-gating.

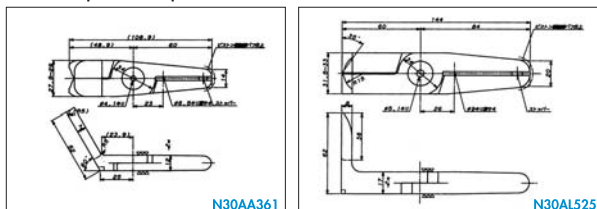
**AHW** Double blades

**NH** Double heating blades

A portion of our specially shaped blades normally manufactured as special-order items are kept available as quasi-standard items. Please refer to our home page for dimensional diagrams.

<http://www.vessel.co.jp/english/airnipper/>

### Examples of quasi-standard blades



ONE POINT

Special Order Blades

With as many as 30 separate production processes, VESSEL painstakingly manufactures each and every blade in accordance with the needs of our customers. VESSEL blades are based on a philosophy of manufacturing that can be summed up as "Specialization is our specialty."

## Air Dusters/ Air Tool Supplies

Three types of bodies are available to meet the needs of a variety of uses. The amalgamation of materials with ergonomic design has resulted in easy-to-use products for all types of blowing and drying work.

### ***Air Duster AD-4*** Patented

VESSEL's air dusters boast aluminum die-cast bodies that are light and strong, a wide selection of replaceable nozzles such as extra-long nozzles, flexible nozzles, nozzles with flanges, and a protector to prevent loosening of the handle lever.

**"The Penguin"** A superior, straight body that is ideal for line work.

The ABS resin body is highly resistant to oil, chemical, and shock. With no need to change hands, work can begin immediately after taking up the unit.

Fine control of air volume is possible with a pistol design. **Extremely light body**

The large operating lever enables 4-finger control for the fine strokes needed for delicate blowing and drying work.



## No. AD-4 Air Duster

Patented



Model No.	Nozzle Shape	Nozzle Inner Dia. (mm)	Air Consumption (ℓ/min)	Overall Length (mm)	Weight (g)	Air Hose Connection	Card/ Box Size (mm)	JAN code (4907587)	Outer Ctn.
AD-4 N	Standard Nozzle	2	180	125	245	Coupling	in paper box 110×173	027078	20
AD-4 N-PB	Standard Nozzle	2	180	125	245	Coupling	185×160	027085	10
AD-4 N-PT	Standard Nozzle	2	180	125	245	1/4 Hose	185×160	027092	10
AD-4 J	Adjustment Nozzle	2	150	130	245	Coupling	in paper box 110×173	027108	20
AD-4 J-PB	Adjustment Nozzle	2	150	130	245	Coupling	185×160	027115	10
AD-4 J-PT	Adjustment Nozzle	2	150	130	245	1/4 Hose	185×160	027122	10
AD-4 M	High Volume Nozzle	2×1pc. 0.8×4 pcs.	240	125	228	Coupling	in paper box 110×173	027313	20
AD-4 B	Brushing Nozzle	2	180	170	248	Coupling	in paper box 115×220	027306	10

•Power source: compressed air •Working air pressure: 0.5 MPa •Max. working pressure: 0.7 MPa •Working temperature range: 0-60°C (32-140°F)  
 •Working air hose I.D. : more than φ4 mm •Overall length / weight: Air coupler included.

## Interchangeable Nozzle (for AD-4/ AD-4 B)

Inlet: G1/8

**Long Nozzle**

**Air Flow Volume Adjustment Long Nozzle**

**Slender Nozzle** Ideal for narrow spaces

**Flexible Nozzle**  
Bendable shaft

**Plastic Nozzle**  
Safe and dent-free

**Interchangeable brush**

Long Nozzle					
Model No.	Innner Dia. (mm)	Outer Dia. (mm)	Length (mm)	JAN code (4907587)	Inner Ctn.
LN-150	2.5	5	150	027160	10
LN-200	2.5	5	200	027177	10
LN-300	2.5	5	300	027184	10
LN-500	2.5	5	500	027191	10

Air Flow Volume Adjustment Long Nozzle					
Model No.	Innner Dia. (mm)	Outer Dia. (mm)	Length (mm)	JAN code (4907587)	Inner Ctn.
LJ-150	2.5	5	150	027207	10
LJ-200	2.5	5	200	027214	10
LJ-300	2.5	5	300	027221	10
LJ-500	2.5	5	500	027238	10

Slender Nozzle					
Model No.	Innner Dia. (mm)	Outer Dia. (mm)	Length (mm)	JAN code (4907587)	Inner Ctn.
LS-2-100	0.9	2	100	027245	10
LS-3-100	1.6	3	100	027252	10

Flexible Nozzle Shaft					
Model No.	Innner Dia. (mm)	Outer Dia. (mm)	Length (mm)	JAN code (4907587)	Inner Ctn.
LF-150	2.3	7	150	027269	10
LF-200	2.3	7	200	027276	10
LF-300	2.3	7	300	027283	10
LF-700	2.3	7	700	027290	10

Plastic Nozzle					
Model No.	Innner Dia. (mm)	Outer Dia. (mm)	Length (mm)	JAN code (4907587)	Inner Ctn.
SP-0	2.0	7.5	21	027153	10

Interchangeable Brush (for AD-4B)					
Model No.	Length (mm)	Outer Dia. (mm)	Length (mm)	JAN code (4907587)	Inner Ctn.
SB-50	60	35	68	027320	5

## No. AD-3 Ergo Handle Air Blow Gun

Patented

※Nozzle cannot be replaced.



Model No.	Nozzle Shape	Nozzle Length (mm)	Nozzle Inner Dia. (mm)	Air Consumption (ℓ/min)	Overall Length (mm)	Weight (g)	Air Hose Connection	Card Size (mm)	JAN code (4907587)	Inner Ctn.: 10
AD-3 S-PB	Safety Nozzle	—	3	230	174	96	Coupling	195×100	027016	
AD-3 S-PT	Safety Nozzle	—	3	230	177	90	1/4 Hose	195×100	027023	
AD-3 100A-PB	Long Nozzle	100	2	190	242	108	Coupling	235×100	027030	
AD-3 100A-PT	Long Nozzle	100	2	190	245	102	1/4 Hose	235×100	027047	

•Power source: compressed air •Working air pressure: 0.6MPa •Max. working pressure: 0.97 MPa •Working temperature range: 0-60°C (32-140°F)  
 •Working air hose I.D. : more than φ4 mm •Overall length / weight: Air coupler included.



# Air Dusters



## No. AD-2 Air Blow Gun

For Dusting and Drying Wet Paint

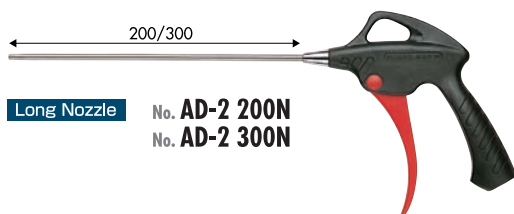
Soft Rubber Adapter

Used to blow dust and dirt from fragile molds, coated surfaces, inside pipes, etc.

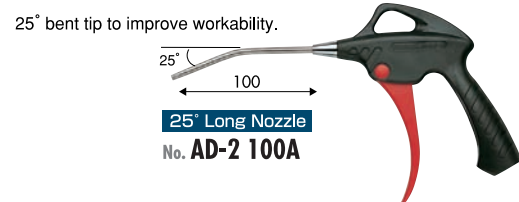


No. AD-2 0N-PB

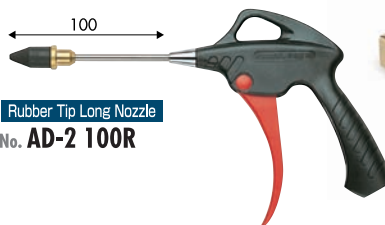
No. AD-2 100N-PB



Long Nozzle  
No. AD-2 200N  
No. AD-2 300N



25° Long Nozzle  
No. AD-2 100A



Rubber Tip Long Nozzle  
No. AD-2 100R



Rubber Tip Nozzle  
No. AD-2 0R



Box package



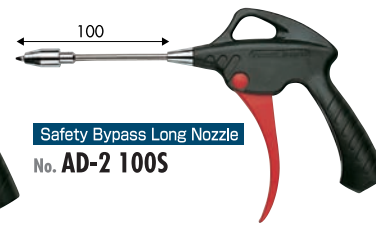
Blister package

Safe & Soft Blowing

Widely spreads air safe and quiet.



Safety Bypass Nozzle  
No. AD-2 0S

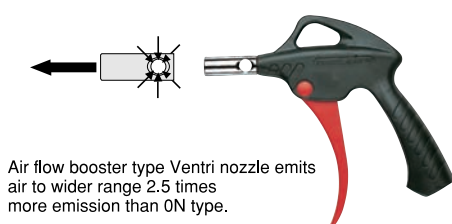


Safety Bypass Long Nozzle  
No. AD-2 100S

Low Pressured but for Large Air flow

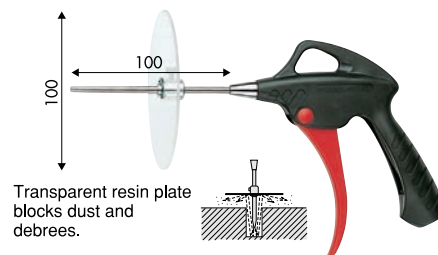
Prevents Dust and Articles Reflected

No. AD-2 0M High Volume Nozzle



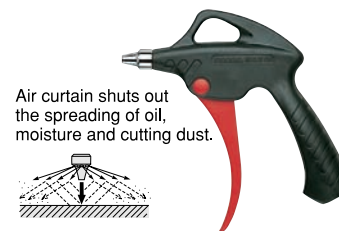
Air flow booster type Ventri nozzle emits air to wider range 2.5 times more emission than 0N type.

No. AD-2 100P Chip Shield Long Nozzle



Transparent resin plate blocks dust and debris.

No. AD-2 0C Air Screen Nozzle



Air curtain shuts out the spreading of oil, moisture and cutting dust.

Model No.	Nozzle Shape	Nozzle Length (mm)	Nozzle Inner Dia. (mm)	Air Consumption (ℓ/min)	Overall Length (mm)	Weight (g)	Card/ Box Size (mm)	JAN code (4907587)	Outer Ctn.
AD-2 0N	Standard Nozzle	0	2.1	135	145	122	152×232	017604	10
AD-2 0N-PB	Standard Nozzle (with plug)	0	2.1	135	155	146	152×232	017680	10
AD-2 100N	Long Nozzle	100	2.1	135	242	131	182×232	017611	10
AD-2 100N-PB	Long Nozzle (with plug)	100	2.1	135	252	157	182×232	017697	10
AD-2 200N	Long Nozzle	200	2.1	135	342	141	in paper box 140×445	017673	1
AD-2 300N	Long Nozzle	300	2.1	135	442	150	in paper box 140×455	017628	1
AD-2 100A	25° Long Nozzle	100	2.1	135	242	131	182×232	017635	10
AD-2 0R	Rubber Tip Nozzle	0	2.1	115	155.5	123	152×232	017659	10
AD-2 100R	Rubber Tip Long Nozzle	100	2.1	115	227	147	182×232	017666	10
AD-2 0S	Safety Bypass nozzle	0	2.1	105	155.5	131	152×232	017727	10
AD-2 100S	Safety Bypass long nozzle	100	2.1	105	239.5	151	182×232	017734	10
AD-2 100P	Chip Shield Long Nozzle	100	2.1	135	242	157	182×232	017642	10
AD-2 0M	High Volume Nozzle	0	10	185	160	126	152×232	017703	10
AD-2 0C	Air Screen Nozzle	0	2.8	260	145	127	152×232	017710	10

•Power source: compressed air •Max. working pressure: 0.97 MPa •Working temperature range: 0-60°C (32-140°F)

•Air inlet screw diameter: Rc 1/4 •Working air hose I.D. : more than φ4 mm •Air pressure when air consumption is measured: 0.49 MPa

•Pre-packed (200N, 300N in paper box)

※Nozzle can not be replaced.

Easy contact by just plug in with lock up function. Large influx type for max. performance of air tools.  
New concept couplings for efficiency and safety.

## One-Touch Lock Concent B Type

Patented

\*Minimal cross-sectional area: Smallest cross-sectional area in the connected medium route.



### Socket

Inner Ctn.: 5 Outer Ctn.: 50

Connection Type	Diagram	Model No.	Overall Length (mm)	A (mm)	ℓ (mm)	Minimal Cross-sectional Area (mm <sup>2</sup> )	Weight (g)	Application
For female screw connection (tapered screw)		<b>BLSB-3</b>	66	21	14	44	93	Rc3/8
For male screw connection (tapered screw)		<b>BLSN-3</b>	61	21	9.7	44	90	R3/8
		<b>BLSN-4</b>	65.5	26	12.7	44	120	R1/2
For Urethane hose connection		<b>BLSH-5</b>	68	14	21	16	92	5.0×8.0
		<b>BLSH-8</b>	72	19	21	42	108	8.0×12.0
For Urethane hose connection Rotary concent prevents warping of air hose.		<b>BLSF-6.5</b>	80	17	19	28	131	6.5×10.0
		<b>BLSF-8.5</b>	83	19	21	44	151	8.5×12.5

All types of plugs for concent B type and nut concent B type are interchangeable.

## Concent B Type

Paired as follows (example)



### Socket

Inner Ctn.: 5 Outer Ctn.: 50

Connection Type	Diagram	Model No.	Overall Length (mm)	A (mm)	Application
For female screw connection (tapered screw)		<b>BSB-2</b>	51	19	Rc1/4
For male screw connection (tapered screw)		<b>BSN-3</b>	47	21	R3/8

### Plug

Inner Ctn.: 10 Outer Ctn.: 100  
(BPT-4, BPB-4, BPN-4... Inner Ctn.: 5 Outer Ctn.: 50)

Connection Type	Diagram	Model No.	Overall Length (mm)	A (mm)	Application
For hose connection		<b>BPT-2</b>	50	15	For 1/4 hose
		<b>BPT-3</b>	53	15	For 3/8 hose
		<b>BPT-4</b>	56	20	For 1/2 hose
For female screw connection (tapered screw)		<b>BPB-2</b>	40	14	Rc 1/4
		<b>BPB-4</b>	46	23	Rc 1/2

# Air Couplings

## Nut Concent B Type



### Socket

For Urethane hose connection	Model No.	Overall Length (mm)	A (mm)	Application Hose I.D. X O.D. (mm)
	<b>BSH-8</b>	58	19	8.0×12.0
	<b>BSH-8.5</b>	58	19	8.5×12.5

Inner Ctn.: 5 Outer Ctn.: 50

### Plug

For Urethane hose connection	Model No.	Overall Length (mm)	A (mm)	Application Hose I.D. X O.D. (mm)
	<b>BPH-5</b>	43	14	5.0×8.0
	<b>BPH-6</b>	45.5	17	6.0×9.0

Inner Ctn.: 10 Outer Ctn.: 100

## Rotary Concent B Type



### Socket

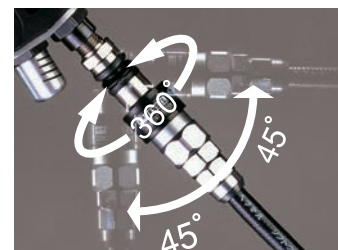
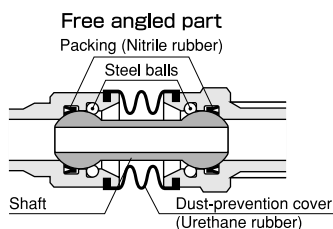
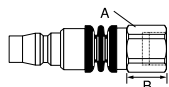
For Urethane hose connection	Model No.	Overall Length (mm)	A (mm)	B (mm)	Application Hose I.D. X O.D. (mm)
	<b>BSF-6.5</b>	70.5	17	19	6.5×10.0

Inner Ctn.: 5 Outer Ctn.: 50

## Free Angle Concent B Type



For screw connection



### Plug

Inner Ctn.: 5

Model No.	Overall Length (mm)	A (mm)	B (mm)	Application
<b>FPN-2F</b>	61.7	17	15.5	G 1/4 male screw

## Air Couplings carded type

No. FPN02F



Outer Ctn.: 10

Model No.	Application	Card Size (mm)	JAN code (4907587)
<b>FPN02F</b>	G1/4	150×67×30	366788

## Air Couplings carded type



No. BPN003

### One-Touch Lock Concent B Type

Outer Ctn.: 10

Model No.	Application	Card Size (mm)	JAN code (4907587)
<b>BLST03</b>	For hose connection For 3/8 hose	125×65×32	365439
<b>BLSH05</b>	For Urethane hose connection hose I.D. 5.0×O.D. 8.0mm	125×65×32	365750
<b>BLSH08</b>	For Urethane hose connection hose I.D. 8.0×O.D. 12.0mm	125×65×32	365781
<b>BLSH85</b>	For Urethane hose connection hose I.D. 8.5×O.D. 12.5mm	125×65×32	365798
<b>BLSF85</b>	For Urethane hose connection hose I.D. 8.5×O.D. 12.5mm	125×65×32	365989

### Concent B Type

Outer Ctn.: 10

Model No.	Application	Card Size (mm)	JAN code (4907587)
<b>BPT002</b>	For hose connection For 1/4 hose	105×60×32	366023
<b>BPT003</b>	For hose connection For 3/8 hose	105×60×32	366030
<b>BPB002</b>	For female screw connection Rc 1/4	105×60×32	366122
<b>BPN003</b>	For male screw connection R 3/8	105×60×32	366238
<b>BPN02F</b>	For male screw connection G1/4	105×60×32	366429
<b>BPH005</b>	Hose I.D. 5.0×O.D. 8.0mm	105×60×32	366351
<b>BPH006</b>	Hose I.D. 6.0×O.D. 9.0mm	105×60×32	366368
<b>BPH008</b>	Hose I.D. 8.0×O.D. 12.0mm	105×60×32	366382

## Air Couplings carded type

# ONE POINT

## Types of pipe thread

Parallel thread	Tapered male screw	Tapered female screw	Pitch (Threads per inch)	O.D. of male thread	I.D. of female thread
G1/8(PF1/8)	R1/8(PT1/8)	Rc1/8(PT1/8)	28	9.728	8.566
G1/4(PF1/4)	R1/4(PT1/4)	Rc1/4(PT1/4)	19	13.157	11.445
G3/8(PF3/8)	R3/8(PT3/8)	Rc3/8(PT3/8)	49	16.662	14.950
G1/2(PF1/2)	R1/2(PT1/2)	Rc1/2(PT1/2)	14	20.955	18.631mm



## Air Regulator

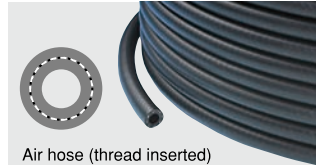


No. AR-2

Model No.	Overall Length (mm)	Weight (g)	Max. Working Pressure (MPa)	Screw size (female screw) × (male screw)
<b>AR-2</b>	50	90	0.59	Rc1/4×R1/4

Applicable Models: VESSEL's P6LS, P5S, P5LS, P6MS, P4.5D, P6GD, P6HS, etc.

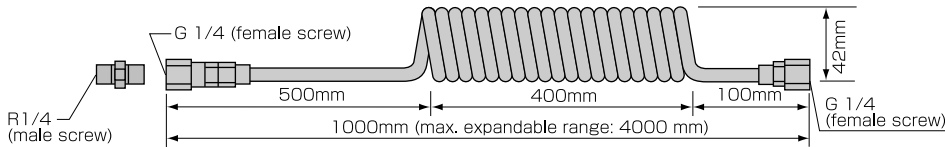
## Air Hose



Air hose (thread inserted)

Model No.	Hose I.D. × O.D. (φ mm)	Max. Working Pressure (MPa)	Outer Ctn.: 100m
<b>Air hose</b>	6.5×12	0.98	
Model No.	Weight (g/m)		
<b>Air hose</b>	100		

## Air Hose Set



No. AUC-40



## Coil Urethane Hose

Model No.	Hose I.D. × O.D. (φ mm)	Max. Working Pressure (MPa)	Set	Pack Size	Outer Ctn.: 1	JAN code (4907587)
<b>AUC-40</b>	5×8	0.69	Coil urethane hose ... 4 m Connect G 1/4 female screw ... 2 pcs. R1/4 male screw for joint ... 1 pc.	300×200×45		310026

No. AUA-820



Ultra-thin  
Ultra-lightweight

## Blue Eight Hose Set

Model No.	Hose I.D. × O.D. (φ mm)	Max. Working Pressure (MPa)	Weight (g/m)	Set
<b>AUD-805</b>	8×10.5	1.47	42	0.5m, Rc1/4 female screw for joint ... 1 pc. Plug (BPH-8 × 10.5) ... 1 pc.
<b>AUA-820</b>	8×10.5	1.47	42	20m, Plug (BPH-8 × 10.5) ... 1 pc. One-touch lock concent (BLSH-8 × 10.5) ... 1 pc.
<b>AUB-20</b>	8×10.5	1.47	42	20m, G1/4 female screw for joint, R1/4 male screw for nipple
<b>AUB-30</b>	8×10.5	1.47	42	30m, G1/4 female screw for joint, R1/4 male screw for nipple