Increased impact force due to higher peak pressure

Instantaneous air blow reduces air consumption and work time

Peak pressure

3 times or more\(^1\) (Compared with the existing model)

Air consumption

87% reduction\(^2\)

97% reduction

Impact blow gun

Existing blow gun

IBG1 air consumption

Continuous blow air consumption

Air consumption 0.8 L

Air consumption 6.3 L

*1 According to blow requirements  *2 Pressure: 0.5 MPa (Based on SMC’s specific testing conditions)
**Application Examples**

- **For the quick removal of machining chips coated with oil**
- **Powerful blow**
- **Secured and simple removal of machining chips, foreign matter, and water droplets**
- **Reduced air consumption**
- **Reduced work time**

- **For the removal of foreign matter with a single shot from a distance**

- **For the separation of workpieces stuck together with oil, etc.**

- **For the quick removal of water droplets**

---

**Various Functions**

- **Adjuster with indicator**
  Quick and simple peak pressure adjustment is available.

  ![](chart)

<table>
<thead>
<tr>
<th>Indicator window</th>
<th>Number of needle rotations</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

  - Based on SMC’s measurement conditions
  - Without silencer

- **Built-in tank provides a stable discharge pressure**

  ![](diagram)

  As the tank is built into the air gun, the product is not affected by pressure drops on the inlet side.

- **Long nozzle**
  Nozzle length:
  50/100/150/300 mm

- **Long nozzle with a silencer**
  80 dB(A) or less
  + Based on SMC’s measurement conditions

- **Chip guard**
  Guards against the blown machining chips and workpiece
  + Please order separately. It is possible to use the guard with a silencer, but in that case, mount the guard before mounting the silencer.

- **Compliant with OSHA Standards (U.S. Standards)**

  | Silencer | 1910.95: Max. noise level  
  |----------|--------------------------|
  | Chip guard | 1910.242B: Max. discharge pressure

- **Operational force:**
  10 N or less
Impact Blow Gun
IBG Series

How to Order

IBG1 0[ ] - 02

Symbol Type
0 Without adjuster
1 With adjuster

Supply port
Symbol
Nozzle length
Nozzle part no.

Symbol
Type
Nil
Without nozzle
—
—
01
Long nozzle
50 mm
IBG1-12-10-50
02
100 mm
IBG1-12-10-100
03
150 mm
IBG1-12-10-150
04
300 mm
IBG1-12-10-300
11
50 mm
IBG1-12-10-50S
12
100 mm
IBG1-12-10-100S
13
150 mm
IBG1-12-10-150S
14
300 mm
IBG1-12-10-300S

* A long nozzle and a silencer are included in a package but do not come mounted. Refer to page 4 for assembly procedures.
*2 This is the part number for the long nozzle and fitting set.
*3 The silencer and long nozzle can be used together. Part number for ordering a silencer alone is IBG1-12S.

With S coupler/One-touch fitting

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Applicable tubing O.D.</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>—</td>
<td>KK4P-03MS</td>
</tr>
<tr>
<td>S coupler</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H06</td>
<td>ø6</td>
<td>KQ2H06-03AS</td>
</tr>
<tr>
<td>H08</td>
<td>ø8</td>
<td>KQ2H08-03AS</td>
</tr>
<tr>
<td>H10</td>
<td>ø10</td>
<td>KQ2H10-03AS</td>
</tr>
<tr>
<td>H07</td>
<td>ø1/4&quot;</td>
<td>KQ2H07-36AS</td>
</tr>
<tr>
<td>H09</td>
<td>ø5/16&quot;</td>
<td>KQ2H09-36AS</td>
</tr>
<tr>
<td>H11</td>
<td>ø3/8&quot;</td>
<td>KQ2H11-36AS</td>
</tr>
<tr>
<td>One-touch fitting</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The S coupler or fitting is shipped together with the product.

Silencer

Specifications

<table>
<thead>
<tr>
<th></th>
<th>IBG10 (Without adjuster)</th>
<th>IBG11 (With adjuster)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluid</td>
<td>Air</td>
<td></td>
</tr>
<tr>
<td>Max. operating pressure</td>
<td>0.7 MPa</td>
<td>1.05 MPa</td>
</tr>
<tr>
<td>Proof pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluid and ambient temperature range</td>
<td>+5°C to +60°C</td>
<td></td>
</tr>
<tr>
<td>Operational force</td>
<td>10 N or less</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>380 g</td>
<td>400 g</td>
</tr>
</tbody>
</table>
### IBG Series

#### Dimensions

**IBG10/Without adjuster**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Nozzle length</th>
<th>Nozzle part no.</th>
<th>A [mm]</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Long nozzle</td>
<td>50 mm</td>
<td>IBG1-12-10-50</td>
<td>57</td>
<td>35</td>
</tr>
<tr>
<td>02</td>
<td>Long nozzle</td>
<td>100 mm</td>
<td>IBG1-12-10-100</td>
<td>107</td>
<td>40</td>
</tr>
<tr>
<td>03</td>
<td>Long nozzle</td>
<td>150 mm</td>
<td>IBG1-12-10-150</td>
<td>157</td>
<td>45</td>
</tr>
<tr>
<td>04</td>
<td>Long nozzle</td>
<td>300 mm</td>
<td>IBG1-12-10-300</td>
<td>307</td>
<td>59</td>
</tr>
<tr>
<td>11</td>
<td>Long nozzle</td>
<td>50 mm</td>
<td>IBG1-12-10-50S</td>
<td>72</td>
<td>57</td>
</tr>
<tr>
<td>12</td>
<td>Long nozzle with a silencer</td>
<td>100 mm</td>
<td>IBG1-12-10-100S</td>
<td>122</td>
<td>62</td>
</tr>
<tr>
<td>13</td>
<td>Long nozzle with a silencer</td>
<td>150 mm</td>
<td>IBG1-12-10-150S</td>
<td>172</td>
<td>67</td>
</tr>
<tr>
<td>14</td>
<td>Long nozzle with a silencer</td>
<td>300 mm</td>
<td>IBG1-12-10-300S</td>
<td>322</td>
<td>81</td>
</tr>
</tbody>
</table>

**IBG11/With adjuster**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Nozzle length</th>
<th>Nozzle part no.</th>
<th>A [mm]</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>S coupler</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>H06</td>
<td>Metric size One-touch fitting</td>
<td>ø6</td>
<td>KO2H06-03AS</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>H08</td>
<td>Metric size One-touch fitting</td>
<td>ø8</td>
<td>KO2H08-03AS</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>H10</td>
<td>Inch size One-touch fitting</td>
<td>ø10</td>
<td>KO2H10-03AS</td>
<td>18.4</td>
<td></td>
</tr>
<tr>
<td>H07</td>
<td>Inch size One-touch fitting</td>
<td>ø1/4”</td>
<td>KO2H07-36AS</td>
<td>13.4</td>
<td></td>
</tr>
<tr>
<td>H09</td>
<td>Inch size One-touch fitting</td>
<td>ø5/16”</td>
<td>KO2H09-36AS</td>
<td>13.4</td>
<td></td>
</tr>
<tr>
<td>H11</td>
<td>Inch size One-touch fitting</td>
<td>ø3/8”</td>
<td>KO2H11-36AS</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

**Symbol**
- 01: Long nozzle
- 02: Long nozzle
- 03: Long nozzle
- 04: Long nozzle
- 11: Long nozzle
- 12: Long nozzle with a silencer
- 13: Long nozzle with a silencer
- 14: Long nozzle with a silencer

**Type**
- IBG10/Without adjuster
- IBG11/With adjuster

**Nozzle part no.**
- IBG1-12-10-50
- IBG1-12-10-100
- IBG1-12-10-150
- IBG1-12-10-300
- IBG1-12-10-50S
- IBG1-12-10-100S
- IBG1-12-10-150S
- IBG1-12-10-300S

**Weight**
- 35 g
- 40 g
- 45 g
- 59 g
- 57 g
- 62 g
- 67 g
- 81 g

**Applicable tubing O.D.**
- Metric size
- Inch size

**Part no.**
- KO2H06-03AS
- KO2H08-03AS
- KO2H10-03AS
- KO2H07-36AS
- KO2H09-36AS
- KO2H11-36AS

**Supply port**
- Rc3/8, NPT3/8, G3/8

**Long nozzle with a silencer**

**With adjuster**

**Scale setting range:**
- 0 (Fully closed) to 4 (Fully open)
### Dimensions

**Long nozzle (Option)**

Width across flats 19

\[ L + 7 \] Reference dimension after R thread installation

Width across flats 17

- \( \approx \) \( L + 7 \times 7 \)

**Long nozzle with a silencer (Option)**

\[ L + 22 \] Reference dimension after R thread installation

**Chip guard (Please order separately.)**

- Polycarbonate (Transparent)
- Rubber bushing (Material: CR)

### How to Mount a Nozzle

**Preparation**

1. Check that the ferrule is engaged inside the fitting as shown in the figure below. Hand-tighten the union nut. Ensure the ferrule is aligned properly.

   - Tighten the union nut until it touches the body.

2. Insert the nozzle until it touches the fitting body. Then, mark a line on the nozzle at the edge of the union nut.

   - Insert the nozzle until it touches the bottom of the fitting body.

3. Remove the nozzle once, and check the dimension from the end of the nozzle to the marking. If the dimension is different from the 17 mm, verify the alignment of the nozzle and adjust.

   - Remove it once, and check the dimension.

4. After verifying the dimension, insert the nozzle into the fitting body again. Confirm that the nozzle is inserted down to the marking.

   - Insert to the marking.

   - Union nut

   - Gap 2 mm or less

**Tightening**

1. Using the tightening tool, tighten the union nut so that the gap between the fitting body and the union nut becomes 2 mm or less.

   - Tighten the union nut so that the clearance is 2 mm or less.

2. Pull the nozzle by hand to ensure that the nozzle is secure.

   - Before operation, pull the nozzle by hand again to confirm that the nozzle is securely attached and will not be ejected during operation.

   - Marking

   - Approx. 17 mm

- The rubber bushing is shipped together with the product.
- It is possible to use the guard with a silencer, but in that case, mount the guard before mounting the silencer.
Prior to Use

⚠️ Warning
As the pressure of the air blow is quite powerful, do not aim the product at another person during operation. It may cause danger to personnel. Additionally, the following precautions should be taken before use.

1. Before use, make sure that the blow pressure, or blow, will not cause surrounding objects to scatter and injure others or damage workpieces, equipment, etc., in the vicinity.
2. Wear protective eyewear when operating the product to protect your eyes from scattering debris.
3. This product is not a toy. Do not play with the product or use it as an air gun for fun.
4. Air pressure may cause the nozzle to fly off during operation if it is not properly tightened. To prevent this, be sure to check the nozzle for loosening by pulling on it with your hands before use.
5. The grip may become hot due to repeated operation; however, this is not abnormal.

Selection

⚠️ Warning
1. Confirm the specifications.
   Products represented in this catalog are designed only for use in compressed air systems. Do not operate at pressures, temperatures, etc., beyond the range of specifications, as this can cause damage or malfunction.

Caution
1. Do not apply the blow gun to flammable, explosive, or toxic substances such as gas, fuel gas, or refrigerant. Such substances may exude from inside the blow gun.

Mounting

⚠️ Warning
1. Install a stop valve on the supply pressure side of the blow gun.
   It will be emergency shut off in case of unexpected leakage or damage.
2. When installing a nozzle on the blow gun, wind sealant tape around the threads of the nozzle.

3. Screw-in the nozzle to the torque below by holding the flat faces on the discharge side or metal holder. As a guideline, it is equivalent to 2 to 3 additional turns with a tool after hand-tightening.

4. When tightening the threads, tighten with torque specified in the table below. As a guideline, it is equivalent to 2 to 3 additional turns with a tool after hand-tightening.

<table>
<thead>
<tr>
<th>Male thread</th>
<th>Tightening torque [N-m]</th>
</tr>
</thead>
<tbody>
<tr>
<td>R3/8</td>
<td>22 to 24</td>
</tr>
</tbody>
</table>

5. Allow extra length when connecting a tube to accommodate changes in tube length due to pressure.
6. Confirm that no twisting, turning, or tensile force or moment load is applied to the port or tube. This may cause fittings to fracture or tubes to be crushed, burst, or come loose.
7. Do not abrade, entangle, or scratch the tube. This may cause the tube to be crushed, burst, or come loose.

Caution
1. Check the model, type, and size before installation.
   Also, confirm that there are no scratches, gouges, or cracks on the product.
2. Preparation before piping
   Before piping is connected, it should be thoroughly blown out with air (flushing) or washed to remove chips, cutting oil, and other debris from inside the pipe.
3. Winding of sealant tape
   When connecting pipes, fittings, etc., be sure that chips from the pipe threads and sealing material do not enter the blow gun. Furthermore, when sealant tape is used, leave 1.5 to 2 thread ridges exposed at the end of the threads.

4. When tightening the threads, tighten with torque specified in the table below. As a guideline, it is equivalent to 2 to 3 additional turns with a tool after hand-tightening.

Be careful that tightening with torque beyond the range in the table below may cause damage to the body.

5. Allow extra length when connecting a tube to accommodate changes in tube length due to pressure.
6. Confirm that no twisting, turning, or tensile force or moment load is applied to the port or tube. This may cause fittings to fracture or tubes to be crushed, burst, or come loose.
7. Do not abrade, entangle, or scratch the tube. This may cause the tube to be crushed, burst, or come loose.
**Maintenance**

**Caution**

1. In periodical inspections, check the following items and replace the parts if necessary.
   a) Scratches, gouges, abrasion, corrosion
   b) Air leakage
   c) Twisting, crushing, and turning of connected tubes
   d) Hardening, deterioration, and softening of connected tubes
   e) Loosening of nozzles

2. When removing the product, first stop the pressure supply, exhaust compressed air in the piping, and check the condition of atmospheric release.

3. Do not disassemble or remodel the body of the product.

**Warning**

1. Air pressure may cause the nozzle to fly off during operation if it is not properly tightened. To prevent this, be sure to check the nozzle for loosening by pulling on it with your hands before use.

2. Be sure to wear protective eyewear when operating the product to protect your eyes from scattering debris.

3. Do not direct the tip of the nozzle at the face or other parts of a human body. It may cause danger to personnel.

4. Do not use the product to clean or remove toxic substances or chemicals.

5. Do not drop, step on, or hit the product. It may cause damage to the product.

6. Do not use the product to disturb public order or public hygiene.

7. This product is not a toy.

8. After blowing, make sure to hang the product on a hook, etc. If leaving the product in a dusty place, particles will enter the product and may result in a malfunction.

9. When the blow gun is used or stored, confirm that no twisting, turning, or tensile force or moment load is applied to the port or tube. This may cause fittings to fracture or tubes to be crushed, burst, or come loose.

**Caution**

1. Pressurizing the air blow discharge port may result in the breakage of the product.

2. The blow adjusting range 4 provides the maximum blow. Rotating the adjuster more than 4 may result in the breakage of the product.
These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of “Caution,” “Warning” or “Danger.” They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)\(^1\), and other safety regulations.

### Safety Instructions

Be sure to read the “Handling Precautions for SMC Products” (M-E03-3) and “Operation Manual” before use.

### Safety Instructions

**Caution:** Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

**Warning:** Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

**Danger:** Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

### Caution

1. The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries. If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary.

### Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.

1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

### Caution

1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.\(^2\)

Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.

2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided.

This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.

3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.

Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

### Safety Instructions

**Caution:** Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

**Warning:** Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

**Danger:** Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

### Safety Instructions

Be sure to read the “Handling Precautions for SMC Products” (M-E03-3) and “Operation Manual” before use.

### Warning

1. The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries. If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary.

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