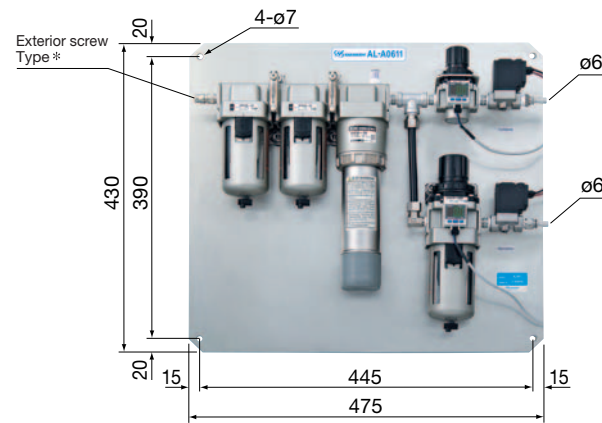


Air Line Kit

### AL-A0611 (For ø6mm Hose)



■ The AL-A0611 is a high grade air supply unit for the Xpeed Series. Filter Mesh 0.01μm is realized with micro mist filter.

Filter Mesh 0.01 μm

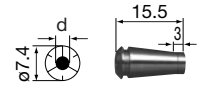
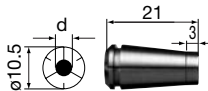
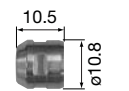
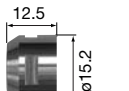

Code No. **1548** Model **AL-A0611**

< Standard Equipment · Accessories >

- Mist Separator • Micro Mist Separator • Membrane Air Dryer
- Regulator • Solenoid Valve

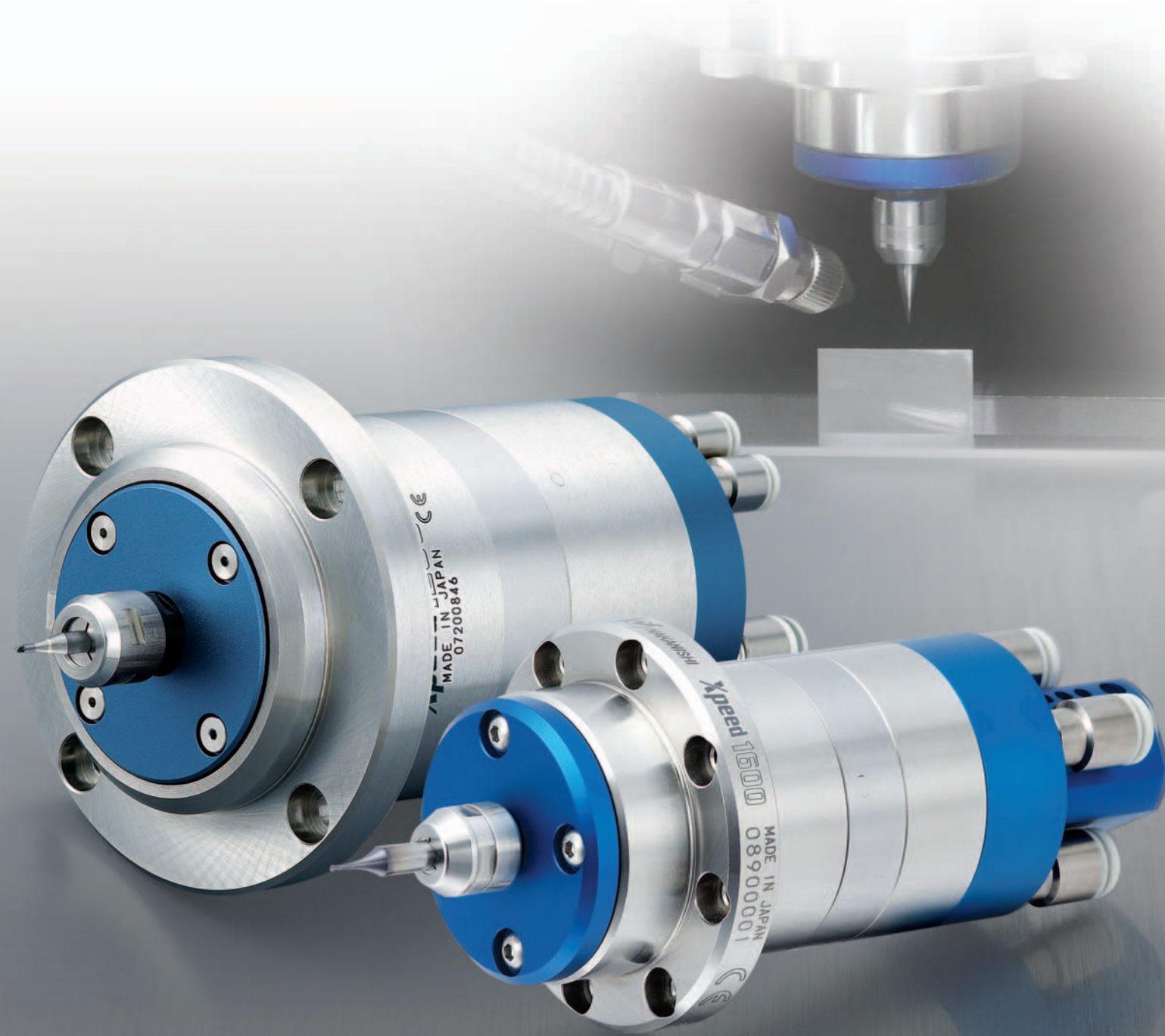
\* Exterior screw Type (Model KK13P-02M made by SMC Corporation)

#### ■ Parts

| Product   | Inside Diameter : ødmm / Description | Fit to    | Model       | Code No.     |
|---|--------------------------------------|-----------|-------------|--------------|
| <br>Collet Chuck : <b>CHA Group AA</b><br>(Spindle Accuracy : Within 2 μm)   | ø3.0AA High precision type           | Xpeed1600 | CHA-3.0AA   | <b>91494</b> |
|   | ø3.175AA High precision type         |           | CHA-3.175AA | <b>91496</b> |
|   | ø4.0AA High precision type           |           | CHA-4.0AA   | <b>91495</b> |
| <br>Collet Chuck : <b>CHK Group AA</b><br>(Spindle Accuracy : Within 2 μm) | ø3.0AA High precision type           | Xpeed1200 | CHK-3.0AA   | <b>91597</b> |
|   | ø3.175AA High precision type         |           | CHK-3.175AA | <b>91598</b> |
|   | ø4.0AA High precision type           |           | CHK-4.0AA   | <b>91599</b> |
|   | ø6.0AA High precision type           |           | CHK-6.0AA   | <b>91600</b> |
|   | ø6.35AA High precision type          |           | CHK-6.35AA  | <b>91601</b> |
|    | Chuck Nut                            | Xpeed1600 | CHN-3A      | <b>2160</b>  |
|    | Chuck Nut                            | Xpeed1200 | K-265A      | <b>2158</b>  |
|    | ø6-ø4mm Adaptor                      | AL-A0611  | Reducer     | <b>1544</b>  |

# Xpeed

## Ultra-high-Speed & Super-Precision



\*Please mention "Code Number" upon your order.

● Specifications may be changed without notice.

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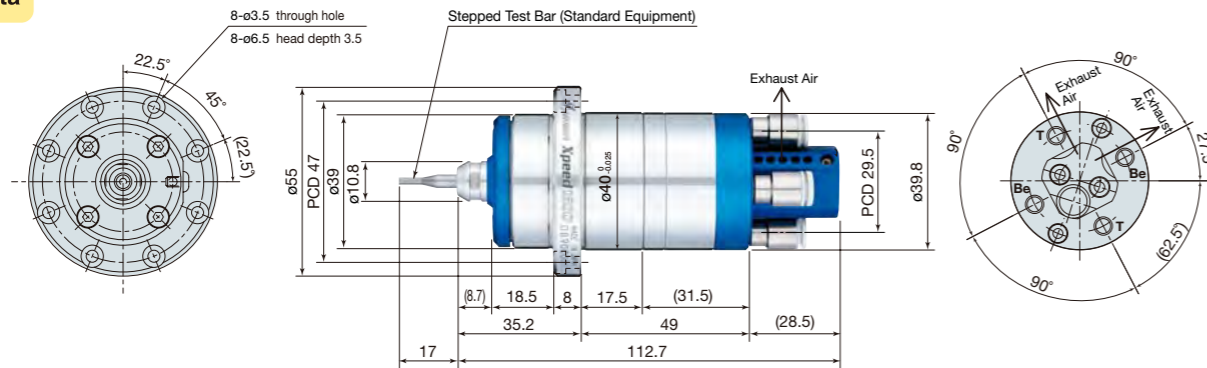
# ▶ "Xpeed SERIES" TURBINE SPINDLE

| Air Bearing Turbine Spindle | O.D.  | Speed   | Collet Chuck   | Spindle Runout | Max. Power | Weight      |
|-----------------------------|-------|---|--|----------------|------------|-------------|
| <b>Xpeed1600</b>            | ø40mm | <b>160,000</b> min <sup>-1</sup><br>(0.45MPa) | <b>CHA Group</b><br>(Refer to the end about the details) | Within 1 μm    | <b>56W</b> | <b>520g</b> |

**NEW**

**DXF data**

Code No. **1855** Model **Xpeed1600**



### < Specifications >

Main body mount method : Flange mounting method,  
M3 bolt (8 locations, 45° Angle, PDC47)

Bearing Type : Air static bearing

Proper Air Pressure for Air Bearing : 0.6MPa

Air Consumption for Air Bearing : 40NL/min

Proper Air Pressure for Air Turbine : 0.15~0.45MPa

Air Consumption for Air Turbine : 160NL/min

Bearing Load Capacity : Radial : Less than 15N, Thrust : Less than 25N  
(Bearing Air supply pressure 0.6MPa)

Useable Max. Diameter of Grindstone : Less than ø2.0mm (For ø4.0mm shank)

Hose Diameter : Bearing supply ø4mm (2 locations)  
Turbine Air supply ø6mm (2 locations)

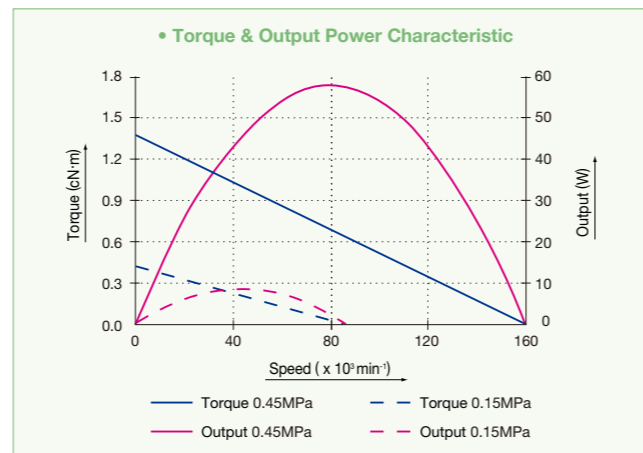
Others : Detection of Rotation Speed Mark

### < Standard Equipment · Accessories >

- Collet Chuck ø4.0mm (CHA-4.0AA) • Chuck Nut (CHN-3A)
- ø4 Hose (transparent 2m) :1 pc. • ø6 Hose (blue 2m) :1 pc.
- ø6 Plug : 2 pcs. • ø4 Plug : 2 pcs.
- Stepped Test Bar (ø2.0mm x ø4.0mm x 34L) : 1 pc.
- Bar Wrench (K-277) : 1 pc. • Torque Wrench (10 mm) : 1 pc.
- Allen Wrench (2 mm) : 1 pc.
- Hexagon Socket Button Head Bolt (M3x5L) : 1 pc.
- Gasket (for M3) : 1 pc.

### < Optional >

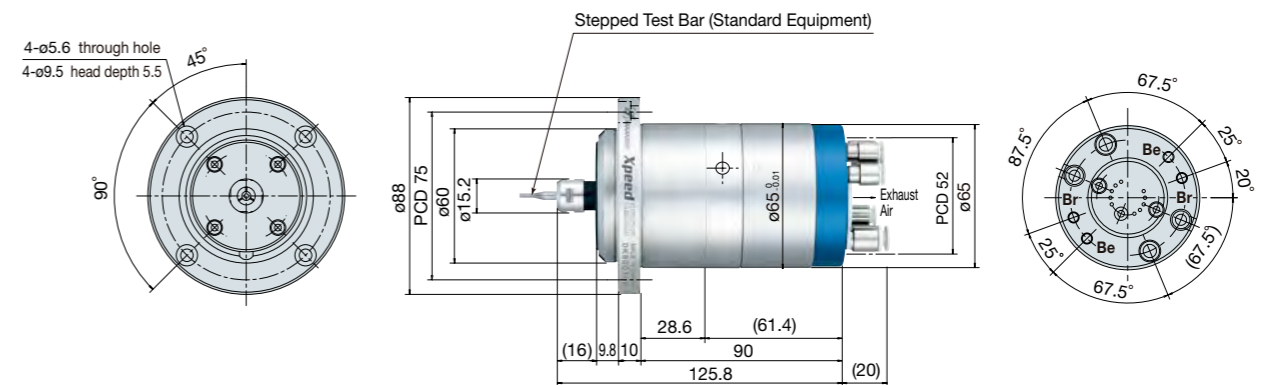
Collet Chuck (CHA Group) : Refer to the end about the details



| Air Bearing Turbine Spindle | O.D.  | Speed   | Collet Chuck   | Spindle Runout | Max. Power  | Weight       |
|-----------------------------|-------|---|--|----------------|-------------|--------------|
| <b>Xpeed1200</b>            | ø65mm | <b>120,000</b> min <sup>-1</sup><br>(0.55MPa) | <b>CHK Group</b><br>(Refer to the end about the details) | Within 1 μm    | <b>192W</b> | <b>2.3kg</b> |

**DXF data**

Code No. **1854** Model **Xpeed1200**



### < Specifications >

Main body mount method : Flange mounting method,  
M5 bolt (4 locations, 90° Angle, PCD75)

Bearing Type : Air static bearing

Proper Air Pressure for Air Bearing : 0.6MPa

Air Consumption for Air Bearing : 80NL/min

Proper Air Pressure for Air Turbine : 0.24~0.55MPa

Air Consumption for Air Turbine : 300NL/min

Bearing Load Capacity : Radial : Less than 25N, Thrust : Less than 70N  
(Bearing Air supply pressure 0.6MPa)

Useable Max. Diameter of Grindstone : Less than ø2.0mm (For ø4.0mm shank)

Hose Diameter : Bearing supply ø4mm (2 locations)  
Break Air supply ø6mm (2 locations)  
Turbine Air supply ø6mm (2 locations)

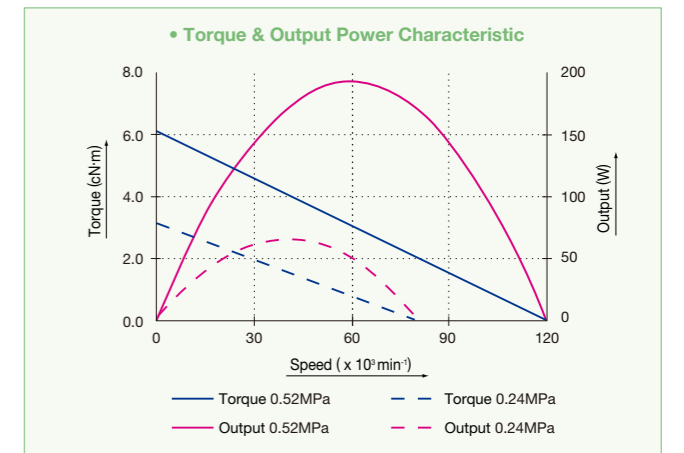
Others : Detection of Rotation Speed Mark

### < Standard Equipment · Accessories >

- Collet Chuck ø4.0mm (CHK-4.0AA) • Chuck Nut (K-265A)
- ø6 Hose (transparent 2m) :1 pc. • ø6 Hose (blue 2m) :1 pc.
- ø6 Plug : 6 pcs.
- Stepped Test Bar (ø2.0mm x ø4.0mm x 34L) : 1 pc.
- Spanner (12 x 14) : 1 pc.
- Torque Wrench (14 mm) : 1 pc.

### < Optional >

Collet Chuck (CHK Group) : Refer to the end about the details



## ⚠ Caution

- Air bearing spindles require clean dry air for proper operation.
- Never rotate the spindle, change cutting tools or collet without supplying clean, dry air to the bearing surfaces.
- Always supply clean, dry air to the bearing surfaces even when the spindle is not being rotated.
- Do not start work process until after stable rotation has been established and verified.

\* Please mention "Code Number" upon your order.