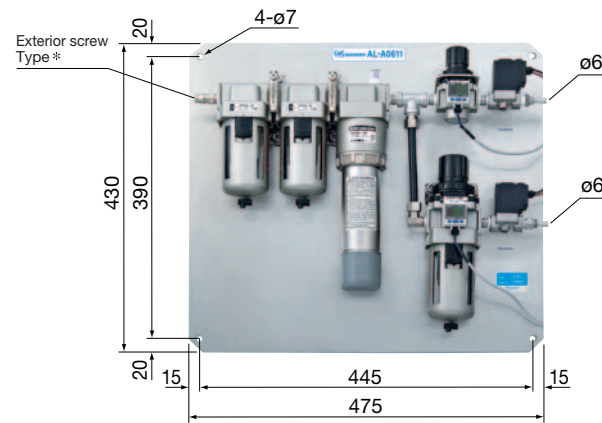


Air Line Kit

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

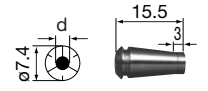
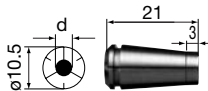
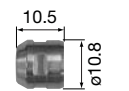
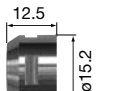

Code No. **1548** Model **AL-A0611**

< 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. |
|--|--------------------------------------|-----------|-------------|--------------|
|  <p>Collet Chuck : CHA Group AA (Spindle Accuracy : Within 2 μm)</p> | ø3.0AA High precision type | Xpeed1600 | CHA-3.0AA | 91494 |
| | ø3.175AA High precision type | | CHA-3.175AA | 91496 |
| | ø4.0AA High precision type | | CHA-4.0AA | 91495 |
|  <p>Collet Chuck : CHK Group AA (Spindle Accuracy : Within 2 μm)</p> | ø3.0AA High precision type | Xpeed1200 | CHK-3.0AA | 91597 |
| | ø3.175AA High precision type | | CHK-3.175AA | 91598 |
| | ø4.0AA High precision type | | CHK-4.0AA | 91599 |
| | ø6.0AA High precision type | | CHK-6.0AA | 91600 |
| | ø6.35AA High precision type | | CHK-6.35AA | 91601 |
|  | Chuck Nut | Xpeed1600 | CHN-3A | 2160 |
|  | Chuck Nut | Xpeed1200 | K-265A | 2158 |
|  | ø6-ø4mm Adaptor | AL-A0611 | Reducer | 1544 |

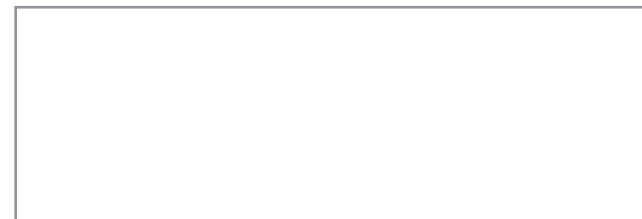
*Please mention "Code Number" upon your order.

● Specifications may be changed without notice.

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Xpeed

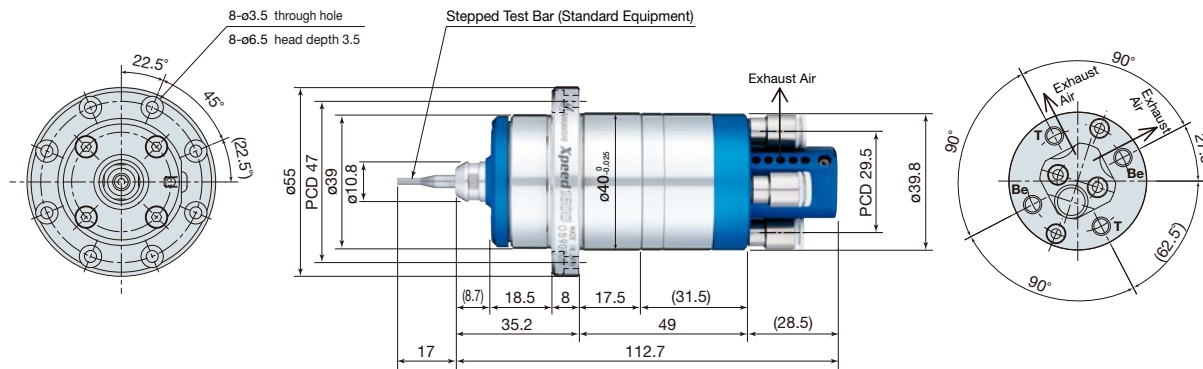
Ultra-high-Speed & Super-Precision

▶ "Xpeed SERIES" TURBINE SPINDLE

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

NEW

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)

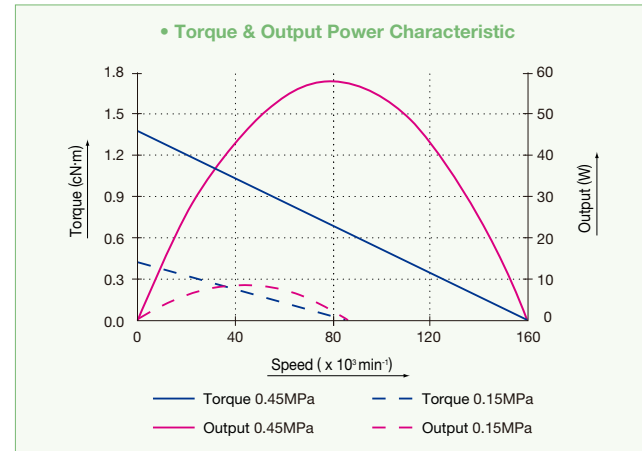
Others : Detection of Rotation Speed Mark

< 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.

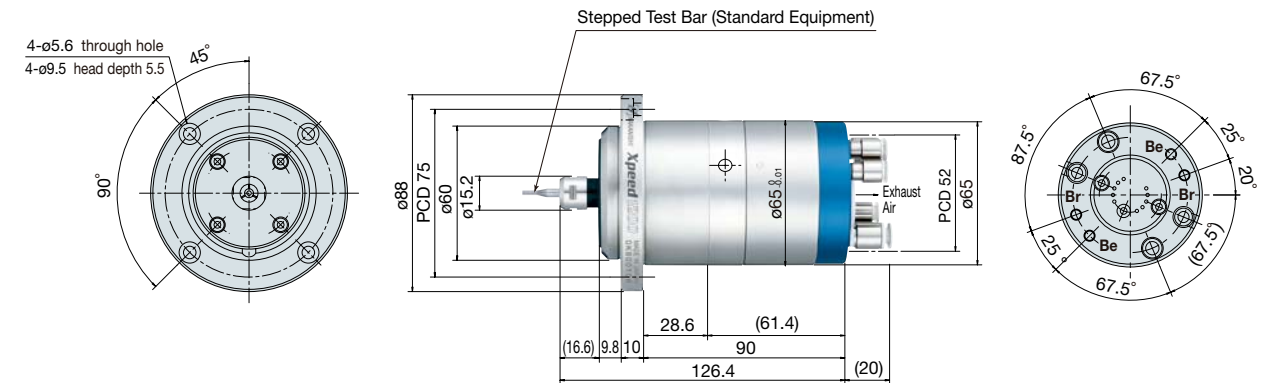
< Optional >

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 |
|-----------------------------|-------|---|--|----------------|-------------|--------------|
| Xpeed1200 | ø65mm | 120,000 min ⁻¹ (0.55MPa) | CHK Group (Refer to the end about the details) | Within 1 μm | 192W | 2.3kg |

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)

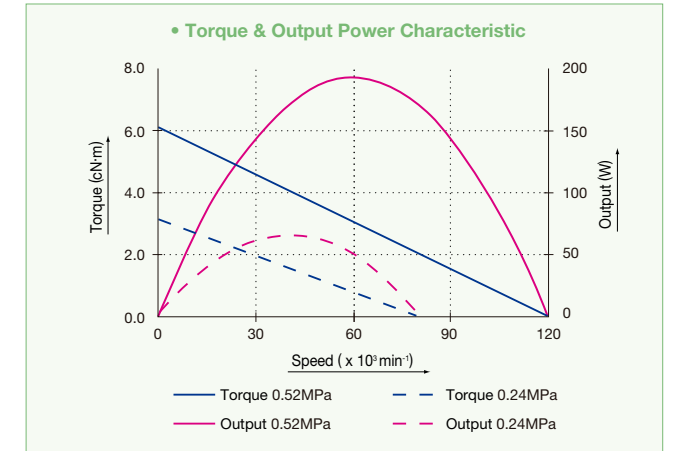
Others : Detection of Rotation Speed Mark

< 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.