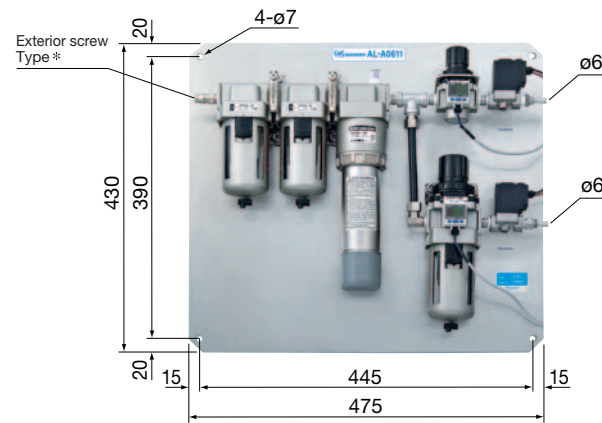


Air Line Kit

### 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

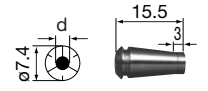
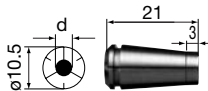
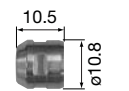
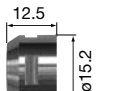

Code No. **1548** Model **AL-A0611**

< 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 : <b>CHA Group AA</b> (Spindle Accuracy : Within 2 μm)</p>	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>
 <p>Collet Chuck : <b>CHK Group AA</b> (Spindle Accuracy : Within 2 μm)</p>	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>

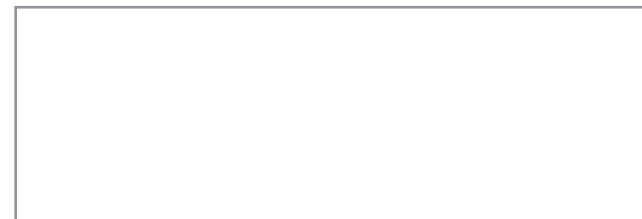
\*Please mention "Code Number" upon your order.

● Specifications may be changed without notice.

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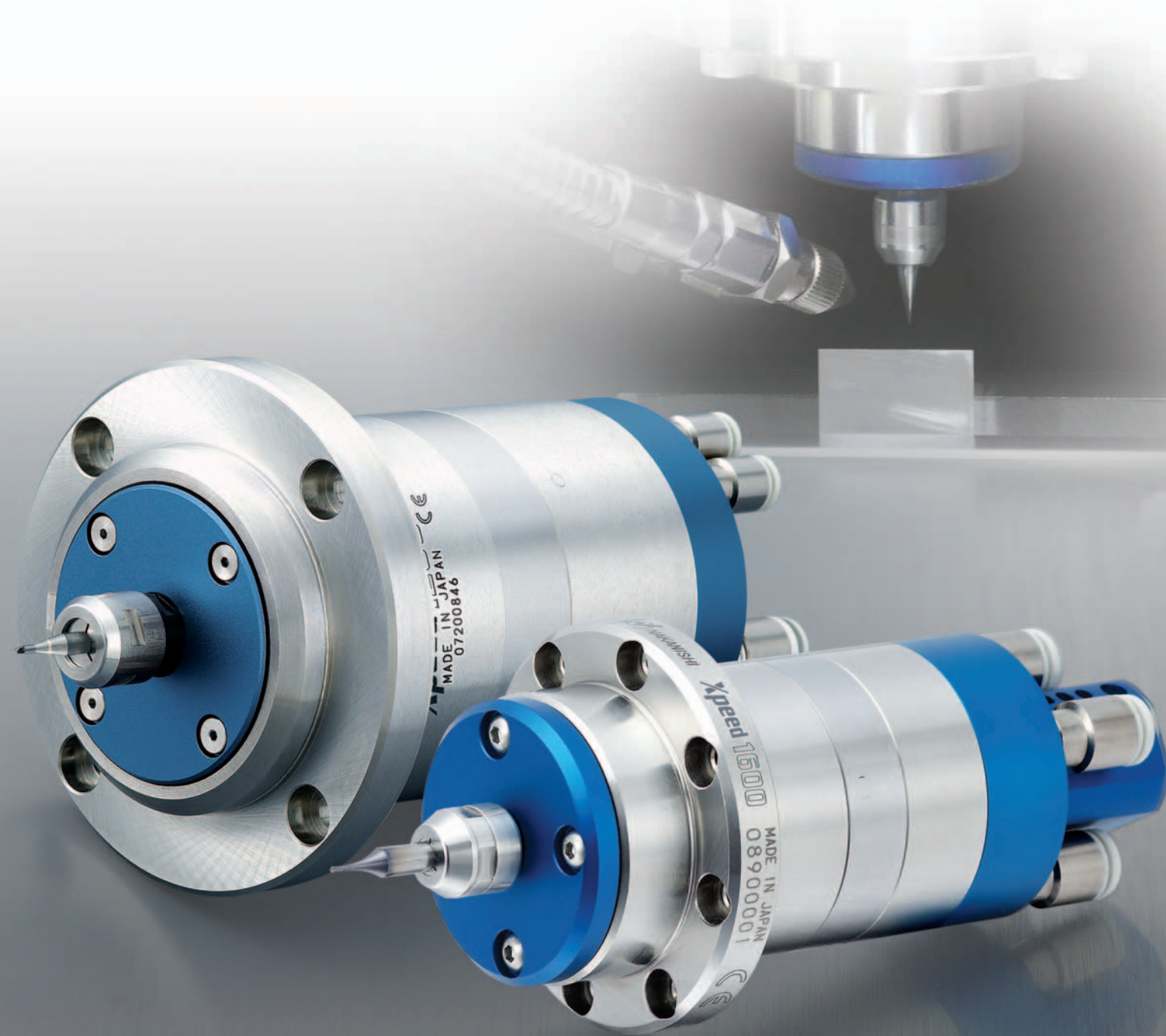
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PR-K300E Ver.2 '10.10.005.A

# Xpeed

## Ultra-high-Speed & Super-Precision

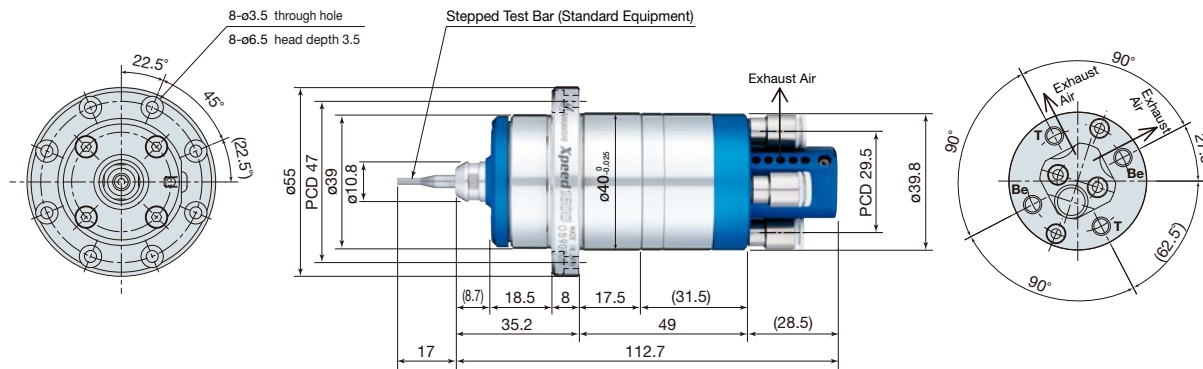


# ▶ "Xpeed SERIES" TURBINE SPINDLE

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> (0.45MPa)	<b>CHA Group</b> (Refer to the end about the details)	Within 1 μm	<b>56W</b>	<b>520g</b>

**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)

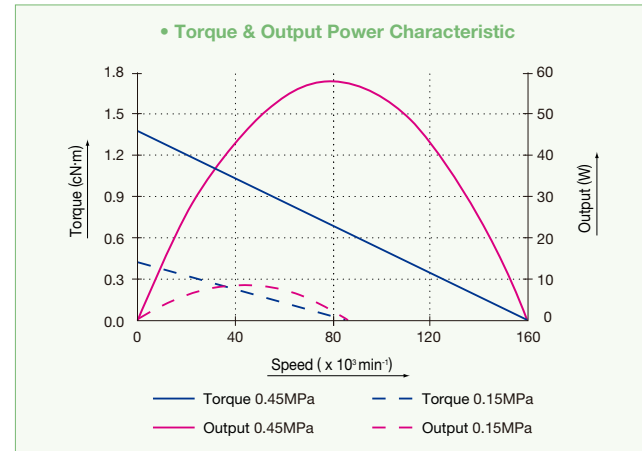
Others : Detection of Rotation Speed Mark

### < 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.

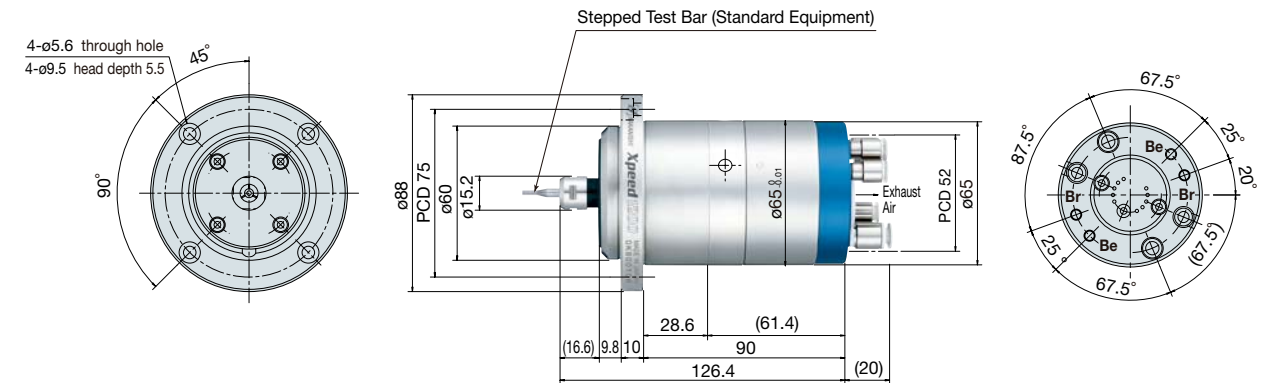
### < Optional >

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
<b>Xpeed1200</b>	ø65mm	<b>120,000</b> min <sup>-1</sup> (0.55MPa)	<b>CHK Group</b> (Refer to the end about the details)	Within 1 μm	<b>192W</b>	<b>2.3kg</b>

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)

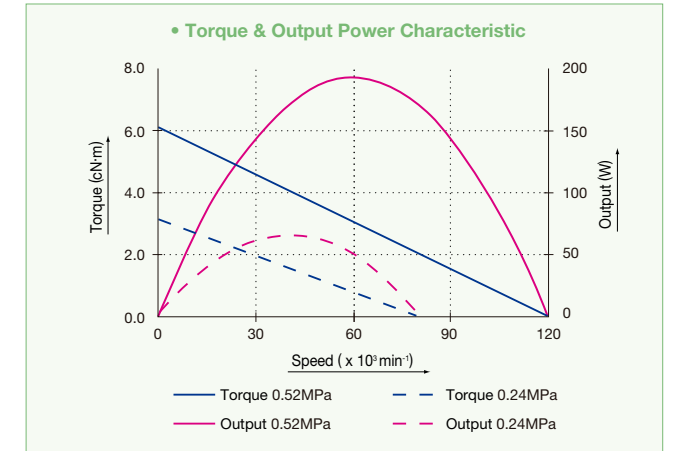
Others : Detection of Rotation Speed Mark

### < 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.