



PIONEER

Air Chucks

- Since 1985
- Over 35,000 Chucks Sold



Help you get **BEST SOLUTION!**

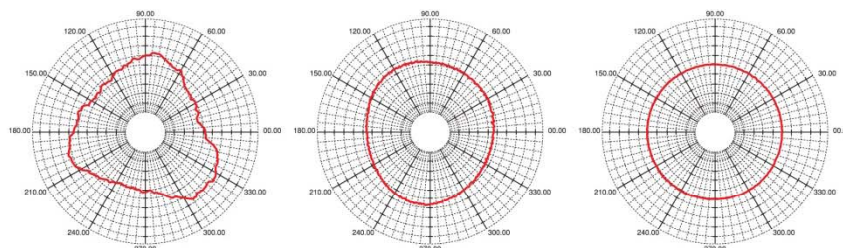
What is Air Chuck?

Air Chuck is to clamp the Workpiece softer than in other clamp'g methods to avoid the deformation and thus to achieve highest accuracy in turning and grinding.

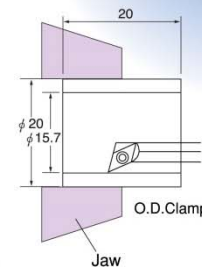
Two Basic Types;

1 Diaphragm Type Air Chuck
(Even & Soft Clamp) \Rightarrow (Highest Accuracy)

2 Slide Jaw Type Air Chuck



Hydraulic \Rightarrow Slide Jaw Type AC \Rightarrow Diaphragm Type AC



1 Diaphragm Type Air Chuck

● Sizes: 3", 4" & 6"

● Jaw Type: 8, 6, 4, & 3 (Nbr. of slits)

Main Features: **Repeatability within 0.4 μm**

Maintenance Free

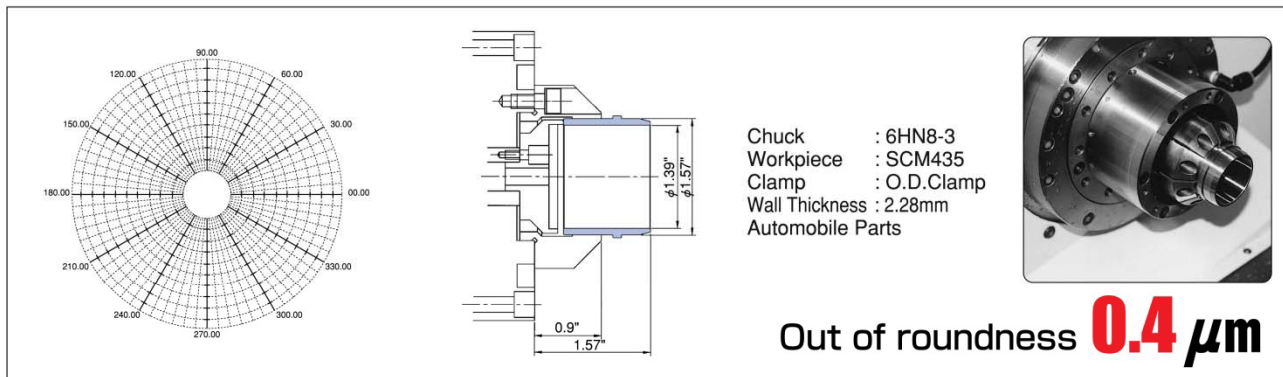
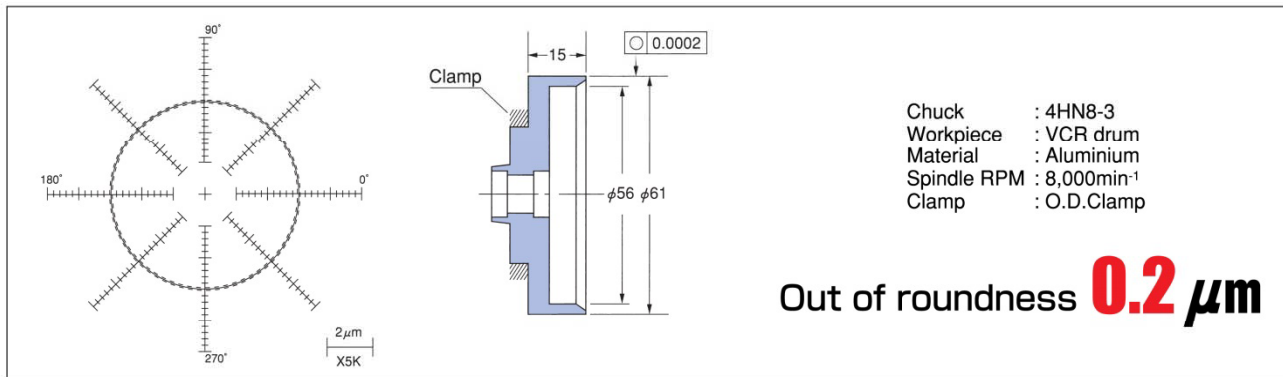
Max. 12000min⁻¹ operation

Flex .Clamp Power

Long Life



Application Example



Where have been used:

- 1. Automobile Parts**
- 2. HDD Motor Parts**
- 3. Medical Parts**
- 4. OA Equipment**
- 5. Printing Machine Parts**
- 6. Aircraft Parts**
- 7. Hydraulic Equipment Parts**

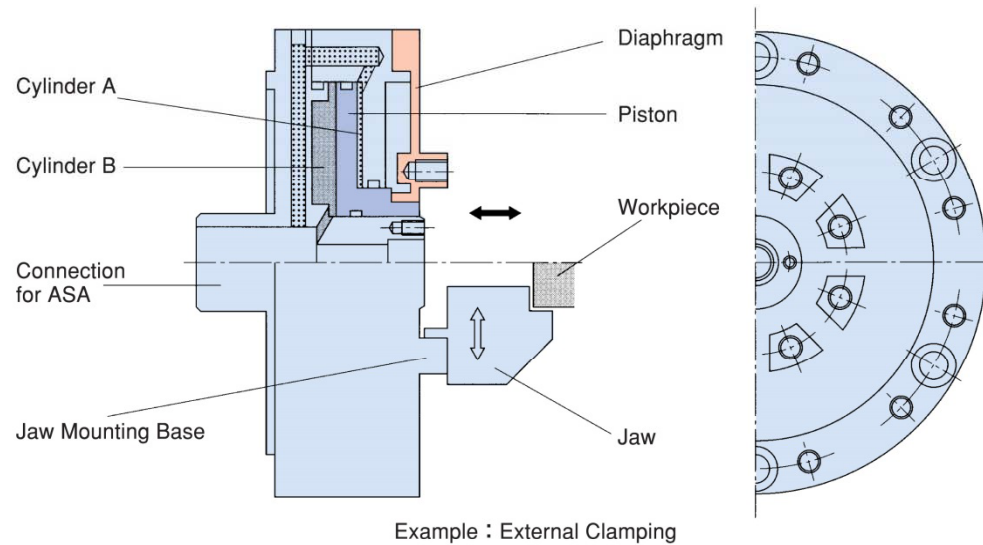


And Mainly For:

- 1. High Speed Turing**
- 2. High Accuracy Turning & Grinding**
- 3. Measuring**
- 4. Mirror Machining**
- 5. Assembly Machining**



How Diaphragm Type Chucks work:



2 Slide Jaw Type Air Chuck

- Sizes : 2" , 3" , 4" , 6" , 8" & 10"
- Types: Std. Rotary Type
Sealed Type
High Speed Type
Stationary Type
- Jaw : 2 Jaw, 3 Jaw & 4 Jaw

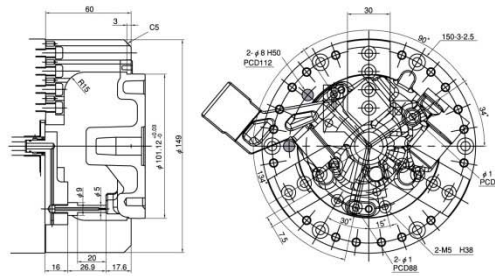


- Main Features: **Repeatability within 1.5 μm**
Flex. Clamping Power
Various Models Available
to meet various applications

Application Example



Rear Head (Automobile /
Component of air conditioner)



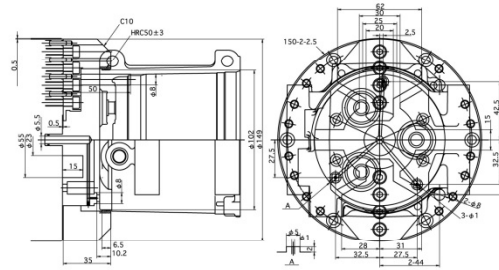
Accuracy Required
 Out of roundness : 0.020mm
 Rectangularity : 0.005mm
 Concentricity : 0.030mm



150-3-2.5



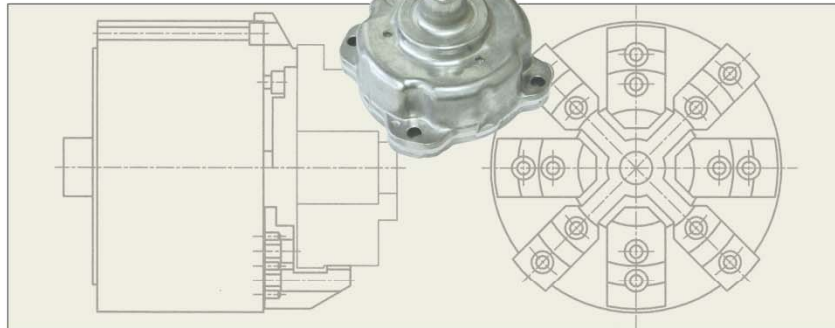
Housing / Aluminum (Automobile)
/ Turning



Accuracy Required
Concentricity : 0.05mm
Parallelism : 0.02mm
Rectangularity : 0.02mm
Flatness : 0.02mm

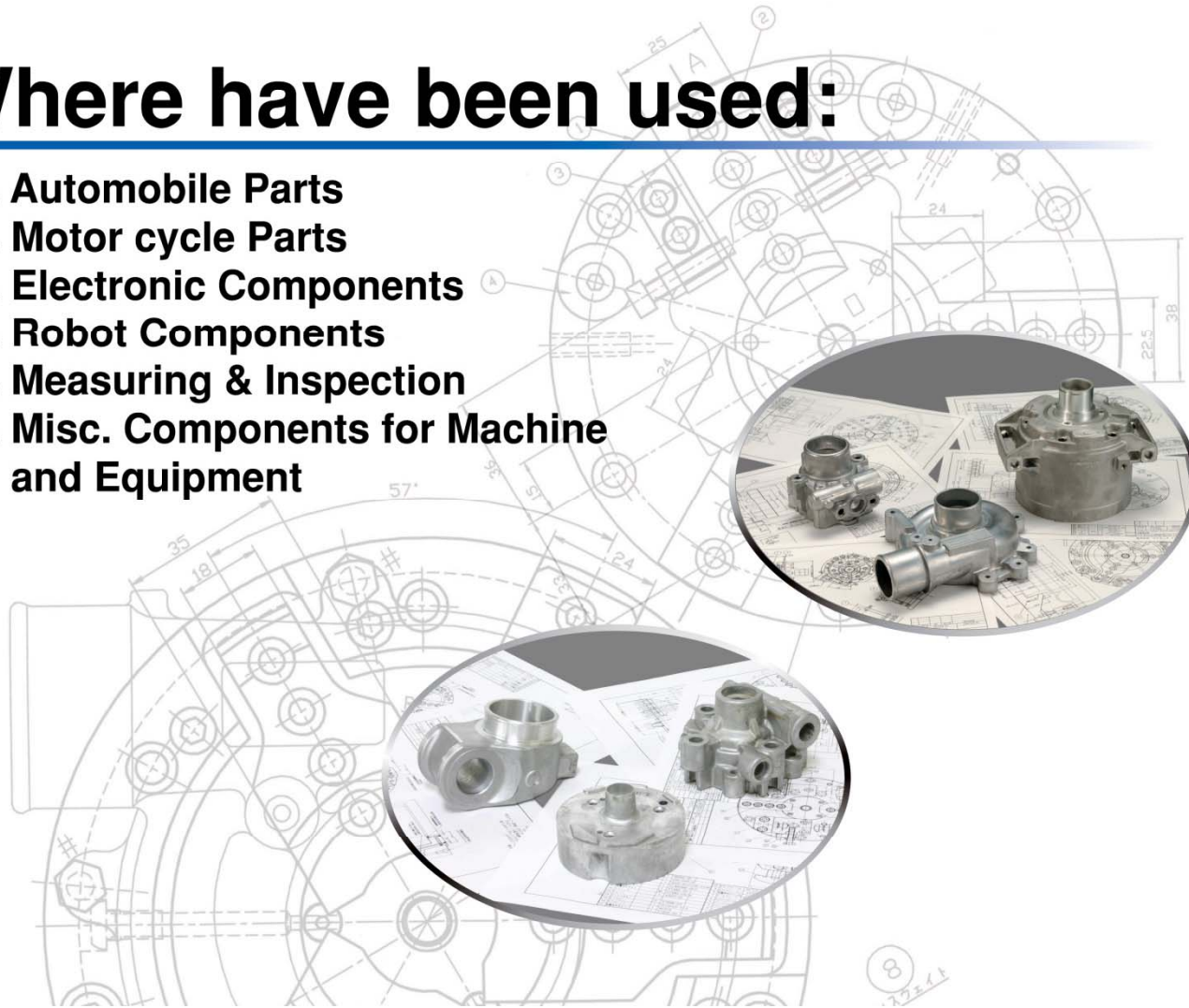


150-2-2.5



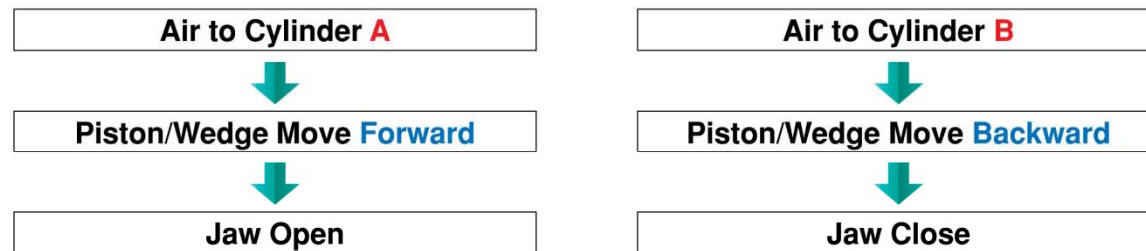
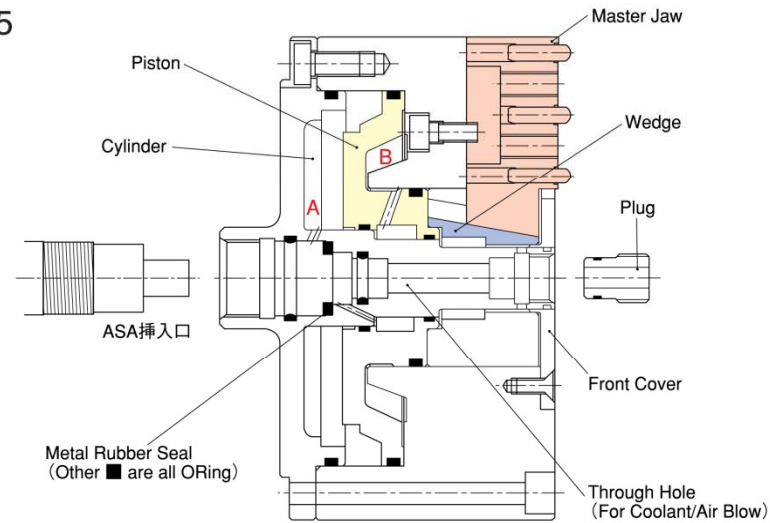
Where have been used:

1. Automobile Parts
2. Motor cycle Parts
3. Electronic Components
4. Robot Components
5. Measuring & Inspection
6. Misc. Components for Machine and Equipment



How Slide Jaw Type Air Chucks work:

Example : 100-3-2.5



③ ASA (Air Supply Apparatus)



● Types of ASA:



JHP3HS (12,000min⁻¹)



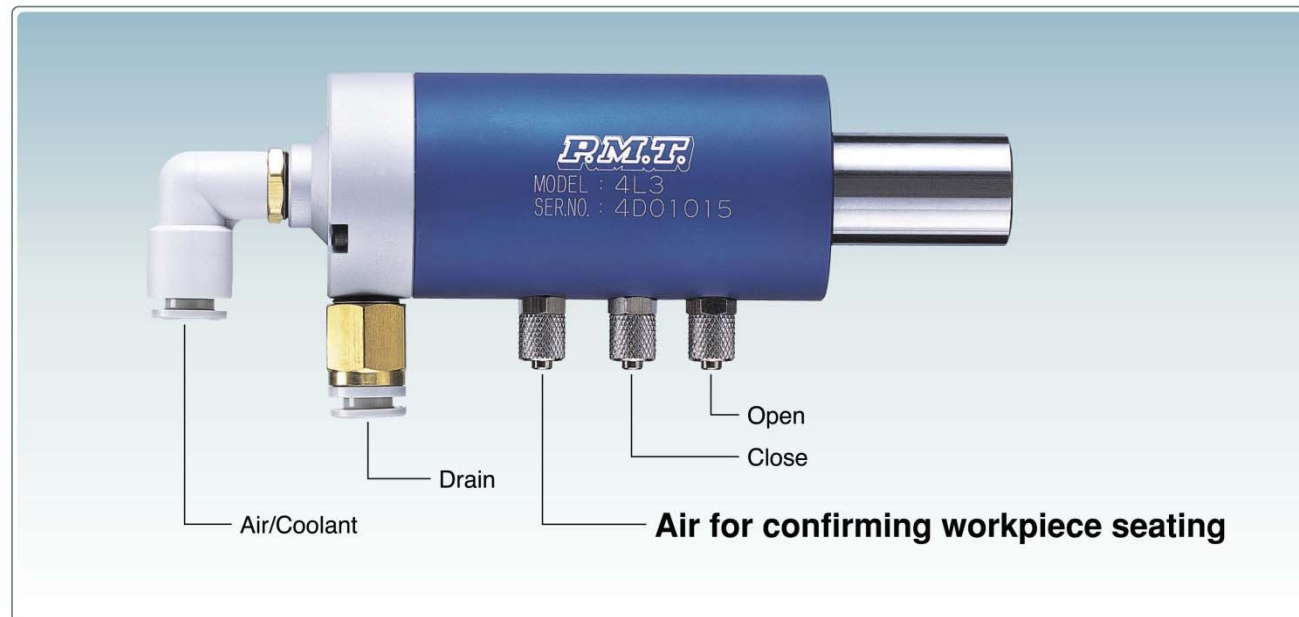
JHP3 (8,000min⁻¹)



JHP2 (8,000min⁻¹)

Special ASA:

1. 4 Layer ASA for confirming “workpiece seating”



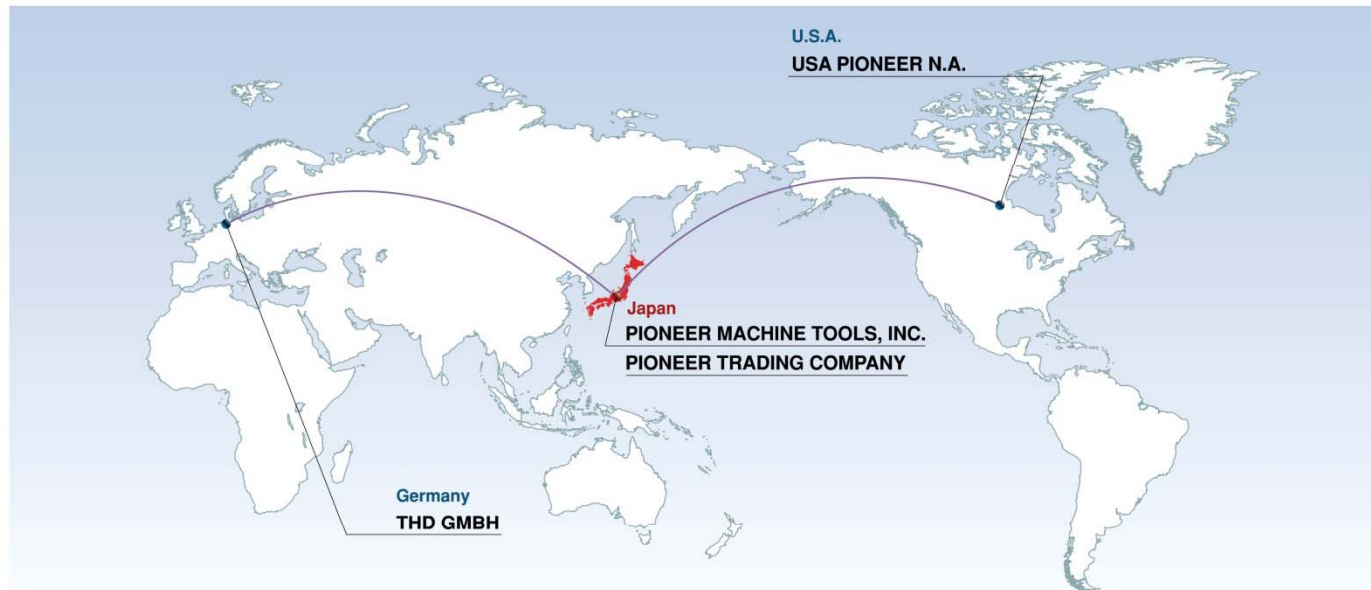
2. ASA for High Pressure Coolant



Model No.	Capability corresponding high pressure
JHP3AHPR	1.0MPa
4L3AHPR	1.0MPa

PIONEER

World Wide Network



Serving with precision through the world