



Diaphragm type high precision air chuck

PIONEER Diaphragm Chuck is basically to clamp the workpiece "Soft" and "Evenly" to avoid the distortion by utilizing the tensile strength of special material used for Diaphragm and jaw, and thus to achieve the highest possible accuracy in turning field. It is also designed not to be affected by the centrifugal force at high speed, and can be used up to 12,000min⁻¹. It ensures super high precision and stable turning operation.

Repeatability Below 0.4μm (0.000015") guaranteed.

Maintenance Free
No lubrication necessary.
Chuck is completely sealed

• Flex. Clamping Power

For both OD & ID clamping, fine adjustment of clamping power is possible.

Excellent High Speed Capability

3" & 4" chucks can be used up to 12,000min¹ due to unique counter-weight balance incorporated.

High Rigidity & Long Life

Long life of rigidity and accuracy is insured due to unique diaphragm material.

Flex. Application

Both OD & ID clamping is possible with one chuck, and workpiece support can be arranged flexibly.

Work Example

- Hard Disk Drive Motor Parts
- Motor Parts for OA Equipment
- VCR Drum
- Parts for Space & Comm. Equip.
- Automobile Parts.
- DVD Parts
- Medical Equipment
- High Speed Turning
- Mirror Machining
- Assembly Machining
- Grinding
- Measuring



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3HN6-3



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Example of Application





Example for Application



*Please contact us for more detailed catalog. If you send us the drawing of a part with description of your problem and what you want to accomplish by our Air Chuck (Diaphragm type), you will receive our suggestion for solving your problem within 5 working days.