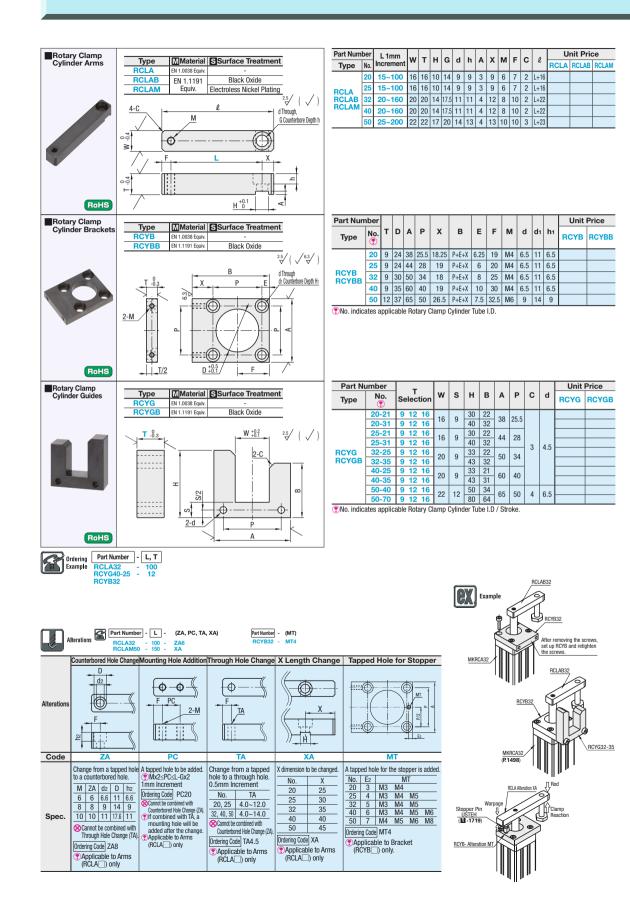
Rotary Clamp Cylinder Arms / Brackets / Guides

Compact Parallel Grippers - Overview



Compact Parallel Gripper - Features

- These are lightweight and compact, as well as achieving the high-rigidity and high gripping forces · High gripping repeatability leads to less gripping errors.
- These can be used with the fingers, which are easy-to-select depending on column, cylindrical or square workpiece shape.
- The fingers can be mounted to the main body directly, having more freedom for designing
- •By installing attachments (optional), it can be mounted with the same
- mounting method with the guide-integrated type Pneumatic Grippers. Selection Guide

Selection Procedure

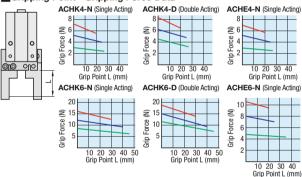
- ①Confirmation of Conditions: Confirm the necessary open/close stroke. workpiece weight and shape.
- (2) Calculation of Required Gripping Force: The required gripping force should be 10 to 20 times of the workpiece weight. (When high acceleration, deceleration or impact load may occur, higher multiplier should be selected.) (3) Selection of Types: The aripping forces are different by aripping methods (External Grip / Internal Grip), gripping point distance and operating pressure depending on types. Select the appropriate model from the Gripping Force Chart.

Precautions for Selection

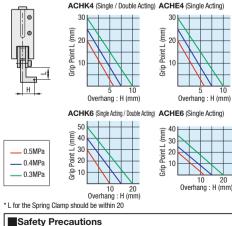
- Design the Finger Attachments to be lightweight and short.
- Set the overhang under the limit of specified value of each product type.

Lateral overhand loads will apply torsional moments on the sliding components and it may cause premature wear

Gripping Point - Gripping Force Data



Gripping Point - Overhang Data



ADanger

- Do not use the cylinder for the following applications:
- 1. Medical Equipment for Sustaining Human Life or Maintaining the Human Body 2. Systems or Machine Equipment for Moving or Transporting Humans, 3. Vital Parts of Machinery. These products are not designed to be used for purposes requiring high levels of safety. Loss of human life may result.
- Do not use in locations with dangerous combustible or flammable objects. The objects may ignite or catch fire. Never modify the products. It may cause injury, electric shock or fire by abnormal operations. Avoid inappropriate dismantling or re-assembling of the products which affect the basic structure, performance or functions

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Performance

Stroke Accuracy 0~0.3mm

Specifications

Operating Pressure Range 0.3~0.5MPa

Ambient Temperature 5 ~ 50°C

Stroke Tolerance 0~+0.3mm

Repeatability

±0.01mm

npared to the same size

Operating Method Single and Double Acting / Parallel Open/Close

Applicable Fluid Clean Air (Filtered, Compressed Air)

Operation Speed (max) Single Acting 120CPM / Double Acting 180CPM

* For ACHE Type, only Single Acting Type is available. * The operation speed of ACHE Type is Max.180CPM.

Pneumatic Fitting M3x0 5 (ACHE: M5x0 8)

+0.01mm

ufacturers: Approx. 2 times

100 Million Open/Close Cycles

with 6mm dia. and ACHK4 (Research by MISUMI)

Repeatability

Gripping

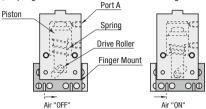
Force

Non-load Durability Test

🖲 Do not splash water on the products. If the products are made wet, washed or used in the water, they may cause injury, electric shock or fire by abnormal operations.

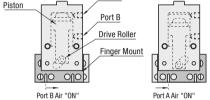
Open/Close Operation

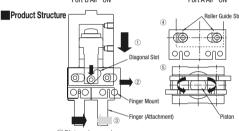
Single Acting Type When the air enters the Port A, it presses the piston, and the drive roller presses the finger mount to slide. When the air is released from Port A, a spring mechanism causes a return to the original state.



Double Acting Type

When the air enters the Port A, it presses the piston, and the drive roller presses the finger mount to slide. When the air enters Port B, a return to the original state occurs. Port A





DPiston descends. 2)The diagonal slot moves to the arrow direction. 3 Fingers (Attachment) close. (4)2 rollers quide the cylinder movement 5) The niston rotates when moving forward and back and presses the finger mount onto the inner wall of the cylinder. The clearance will be locked up by this mechanism.

