### Compact Parallel Gripper - Features

- These are lightweight and compact, as well as offering 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**

1. **Confirmation of Conditions**
   - Confirm the necessary opening 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 gripping forces are different by gripping methods (External Grip / Internal Grip), gripping point distance and operating pressure depending on types.
   - Select the appropriate model from the Gripping Force Chart.
4. **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.
   - Static overhang loads will apply torsional moments on the sliding components and it may cause premature wear.

### Gripping Point - Gripping Force Data

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### Gripping Point - Overhang Data

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### Performance

- **Repeatability**: ±0.01mm
- **Axial Accuracy**: ±0.01mm
- **Gripping Force**: 0.3mm
- **Stroke**: 10mm
- **Rotational Accuracy**: ±0.01°
- **Lubrication**: Silicon Oil
- **Temperature**: -20°C ~ +80°C
- **Unit Price**: RCLAB-11

### Safety Precautions

- Do not use the cylinder for the following applications:
  1. Medical equipment for Sustaining human Life or Maintaining the Human Body
  2. Systems or Machines for Moving or Transporting Human Beings
  3. Parts of Machinery
- These products are not designed and manufactured for use in applications requiring high levels of safety.
- Do not use the products if they cause injury or death to individuals or for abnormal operations.
- Avoid inappropriate re-assembly of the products which affect the basic structure, performance or function.
- Do not subject the products to harsh environments.
- Do not use the products if they are not designed and manufactured for the purpose.

### Configurations

- **Compact Parallel Gripper**
  - Single Acting Type
  - Double Acting Type
- **How to Grip**
  - Single Acting Type
  - Double Acting Type
- **External Grip**
  - Double Acting Type
- **Drive Roller**
  - Single Acting Type / Double Acting Type
- **Finger Mount**
  - Single Acting Type / Double Acting Type
- **Operation**
  - Single Acting Type
  - Double Acting Type
- **Gripping Point**
  - Single Acting Type / Double Acting Type
- **Example**
  - Up and Down Floating Function