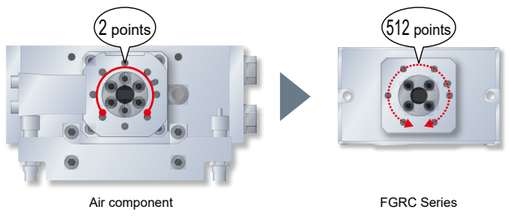
CKD electric actuators bring "EXTRA" features to air components.

■ Extra! Multipoint stopping

Stopping is possible at multiple points.

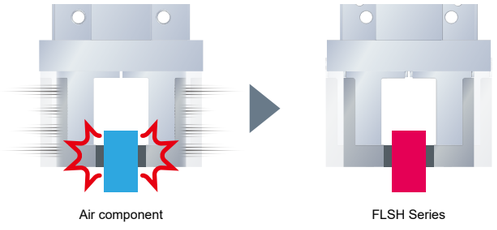
Flexible production



■ Added Shockless!

Speed and pressing current can be set to any value to gently grip workpieces.

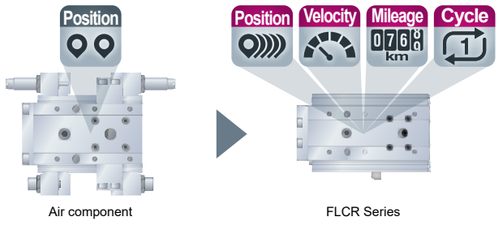
Improved tact, with no concerns about damage



■ Extra! Information output

Output the present position and speed, as well as the travel distance and number of operational cycles, etc.

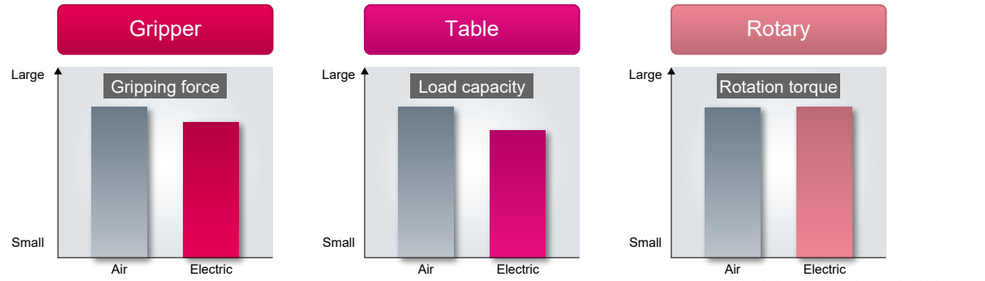
Avoid equipment stops with IoT



Inheriting the advantages of air components

■ Realizing capacity equal to that of air components

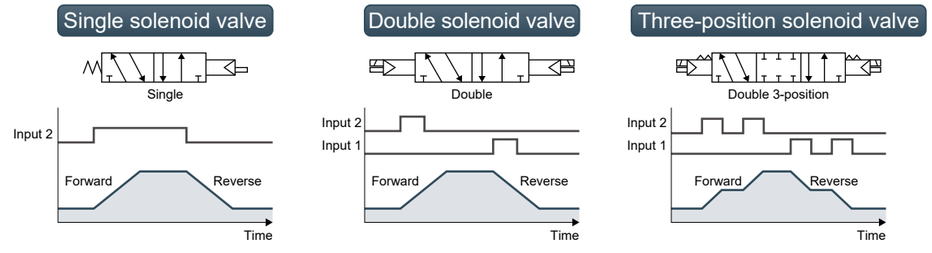
Each series is capable of outputting power equivalent to that of air components.



*At air pressure of 0.4 MPa. With load factor of 30% for table.

■ Realizing the ease of use of air components

Can also be operated using the same sequence as the solenoid valve that controls air components.



2-Finger Gripper

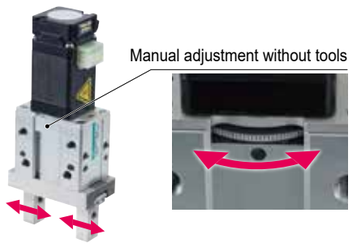
FLSH Series

For soft handling of multi-model workpieces

Reduces equipment adjustment time

Includes manual operation and self-lock mechanisms

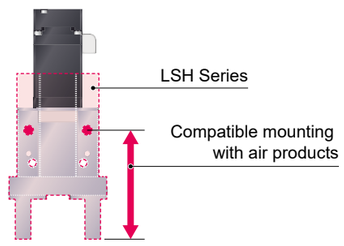
A manual operation mechanism enabling tool-free operation is equipped on the front of the body. The finger position can be easily adjusted at equipment startup, and the self-lock enables retained workpieces to be easily mounted and detached.



Expanded selection

Dimensions equivalent to air products

This series has compatible mounting with the Air Hand LSH Series, allowing a wider range of options during the design phase. When multi-model workpiece handling is required, we recommend the FLSH Series.



Four new options added

New

With case

Reduced risk of disconnection with movable cables

Rubber cover option

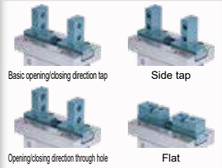
Improved environmental resistance (+ IP50 with case)

Long stroke

Size	Conventional Stroke	Long Stroke
FLSH-16G	6 mm	12 mm
FLSH-20G	10 mm	18 mm
FLSH-25G	14 mm	22 mm

Up to +8 mm compared to conventional

Finger shape option



Design fingers as desired.

* Refer to "Electric actuator 2-Finger Gripper FLSH Series (Catalog No.CC-1564A)" for details.

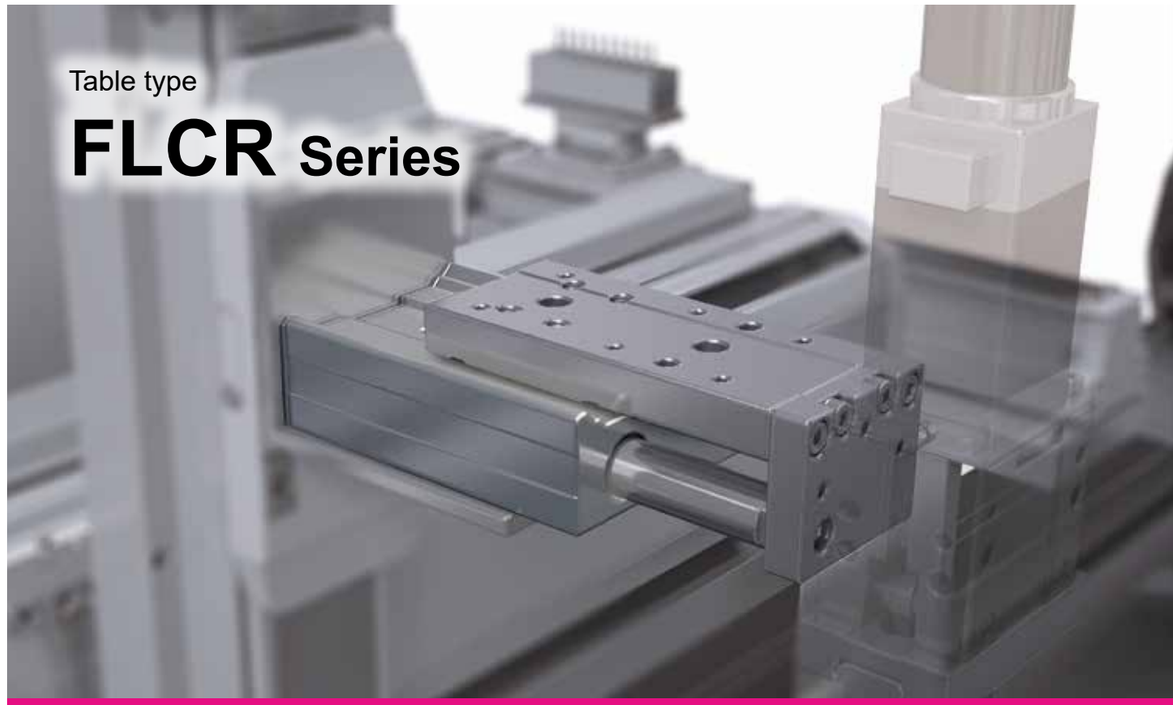


Table type

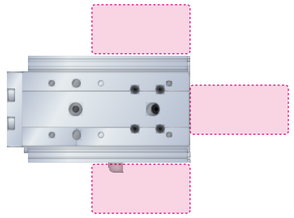
FLCR Series

For short-stroke workpiece transport and positioning

Smaller equipment footprint

Built-in motor

The actuator contains a built-in motor. No protrusions or wrapping in the motor assembly, allowing space-saving equipment design.

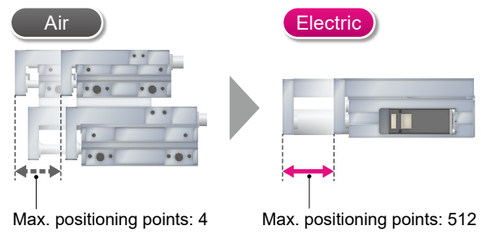


Dimensional compatibility with air products

The body has dimensional compatibility with the air LCR Series, allowing compact, air-style design. The FLCR Series also enables arbitrary adjustment of acceleration/deceleration, rendering shock absorbers unnecessary.

Multi-point positioning

The FLCR Series enables positioning at arbitrary positions. Because a single actuator handles multi-model production, it also contributes to saving space.



Brake option added

When the power supply is cut OFF, the brake section is locked to retain the position (non-excitation). It can be used as safety measures such as position locking on the Z-axis. Lock release unit (optional) is also available.

Rotary

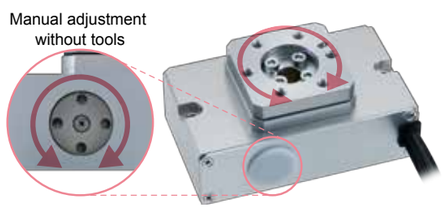
FGRC Series

For indexing operation and workpiece inversion

Reduces adjustment times

Includes manual operation and self-lock mechanisms

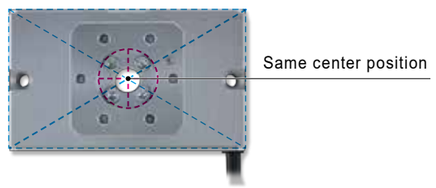
Equipped with a manual operation mechanism enabling tool-free operation. The rotating table position can be easily adjusted at equipment startup or when retained with the self-lock.



Easy layout planning

Coaxial design

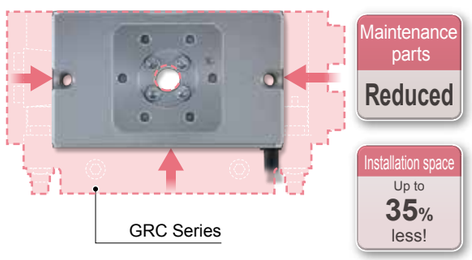
The center of rotation and the center of the actuator body are coaxial, making it easy to plan layouts.



Smaller equipment footprint

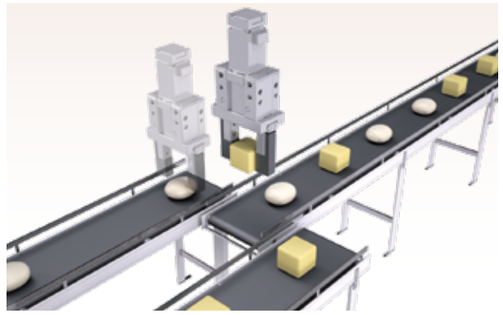
Compact body

The FGRC Series performs acceleration/deceleration, rendering shock absorbers unnecessary.



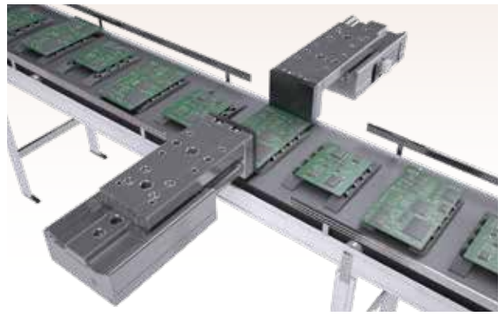
Application examples

2-Finger Gripper FLSH Series



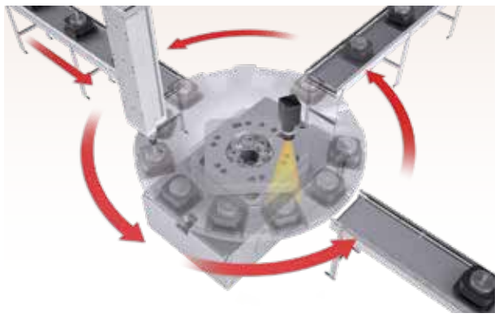
- Gently grasp various workpieces that are easy to deform, and with just one actuator.

Table type FLCR Series



- Centering of different sized circuit board materials

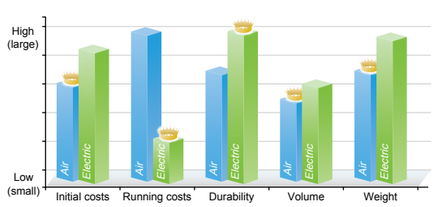
Rotary FGRC Series



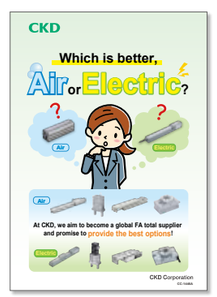
- Indexing to positions for assembly and simple inspection processes

CKD recommends using air as well to...

- Reduce initial costs as much as possible
- Use as light an actuator as possible



For more information



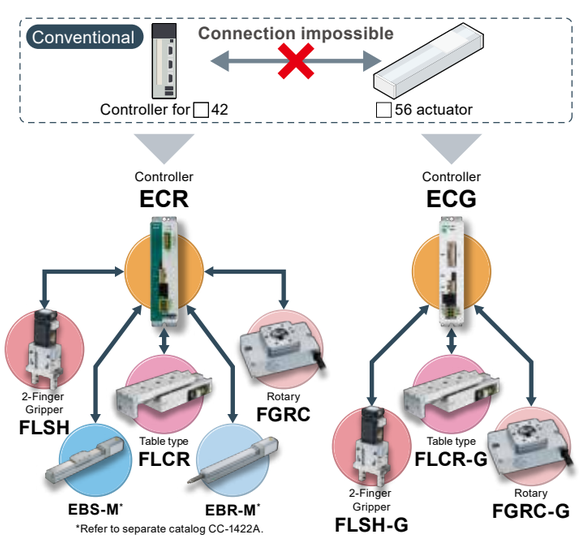
Refer to the catalog No.CC-1446A for details.

Reduced initial work hours and stock

Original functions available for a variety of motor sizes

The same controller operates with actuators of different sizes and models. Equipped with an automatic recognition function that reads actuator information, for less work during initial setting. Further, with a common controller, work hours for selection and ordering can be reduced as well as inventory.

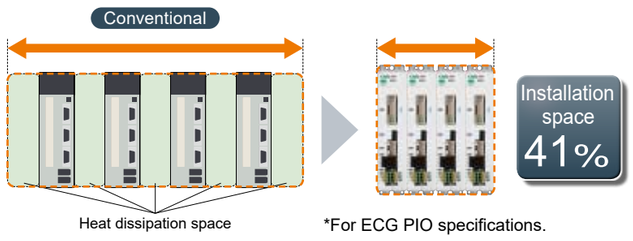
*ECR is compatible with 5 models, ECG is compatible with 3 models.
*Only ECR supports the automatic recognition function.



Reduced controller footprint

Compact, allowing adjacent installation

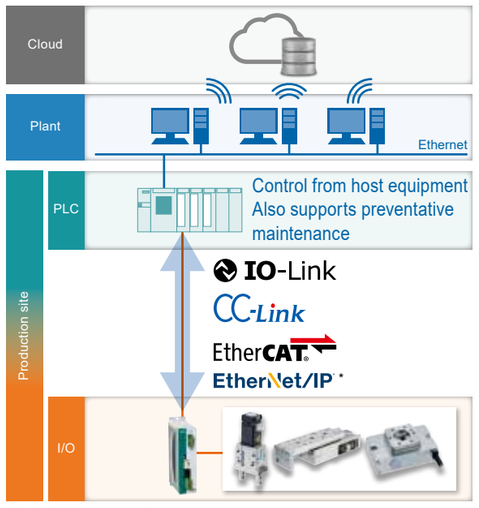
The optimized design eliminates the need for heat dissipation space at the sides. This allows controllers to be installed next to one another.



Supports IoT

Compatible with all types of networks

Our product is compatible with all types of industrial networks. This allows control from host equipment over Ethernet, and also enables preventative maintenance.



*Only ECG supported.

Abundant wiring configurations

Supports a wide range of line, star and ring wiring for EtherNet/IP. Select an appropriate one for your application.

CKD YouTube channel
Simple manual video for dedicated software "S-Tools" available. Please check via iPad or smartphone.

*Depending on your smartphone environment, it may not be displayed correctly.

Reduces adjustment time

Easy setup with the "S-Tools" common software

Inherits the operational feel of the popular AX-Tools software for ABSODEX. S-Tools can be downloaded from our website.