Electric actuators inheriting the DNA of Air components

DNA of Air Components

Easy adjustments　High rigidity

D Series

Pneumatic-less environment

Speed control

CO_2 reduction

G Series

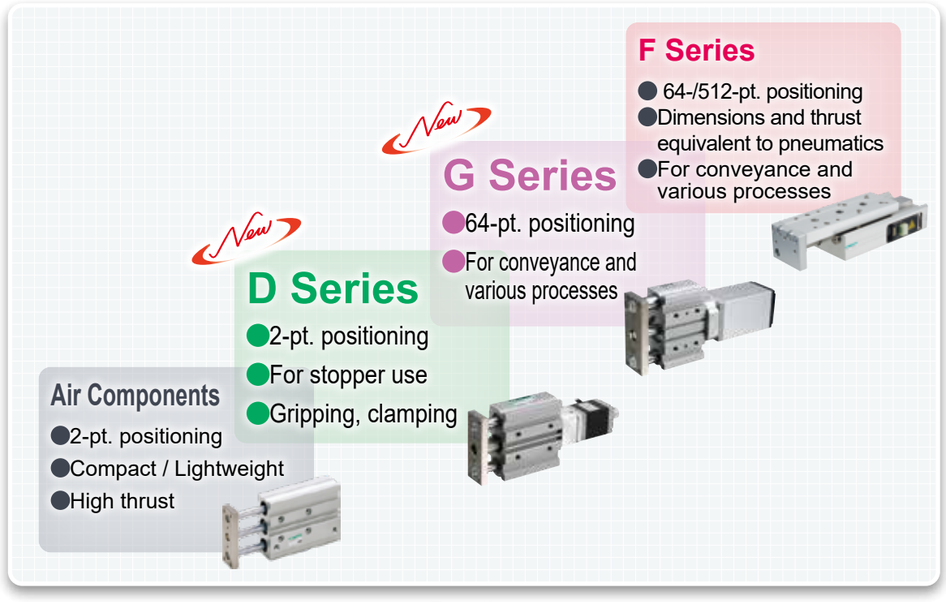
Multi-point positioning

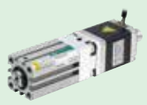
Pneumatic-less environment

Speed control

CO_2 reduction

Ideal models proposed from a wide variety of variations



	Models						Function						Listed page
	Rod	Guided	Stopper-type	Gripper	Table / Rotary		# of position pts.	Thrust / Speed	Pressing operation	Space saving	Position detection	# of inputs	
New **D Series** (Screw drive)							2 pts.	○	Not available	○	Cylinder Switch	3 pts.	1
New **D Series** (Spring drive)							2 pts.	○	○	○	Cylinder Switch	3 pts.	67
New **G Series**							64 pts.	○	○	○	Encoder	13 pts.	113
F Series							64 pts./ 512 pts.	◎	○	◎	Encoder	13 pts./ 16 pts.	Catalog No. Refer to CC-1444A

*Excluding common

Specialized for positioning between 2 points Electric Actuators

D Series (screw drive system)

Making carbon-neutral equipment more accessible

Line-up

		Size 20	Size 32	Size 50	Catalog Page
Actuator	Rod-type DSSD2	●	●	●	3
	Stopper-type DSTK	●	●	●	13
	Guided DSTG	●	●	●	25
	Guided DSTS	●	●	●	39
	Guided DSTL	●	●	●	53
Application Controller	ESC4	●	●	●	99

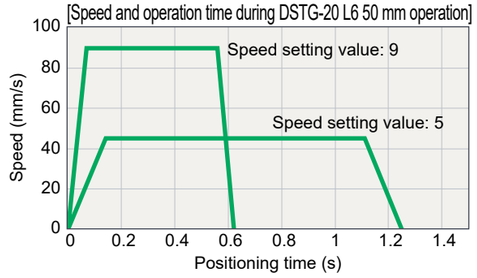
No dedicated tools required. Easy on-site configuration

Easy adjustment

The stop position is adjusted by turning the manual operation knob to the position where the cylinder switch responds. The speed can be set with the rotary DIP switch on the controller.

Cylinder switch

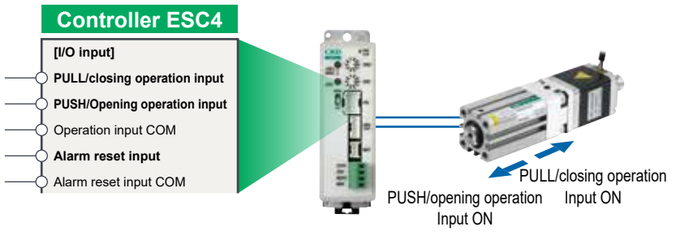
Rotary DIP switch



Operation is possible with 3 input signals

Easy controls

No program is required.
Simple wiring for operation.

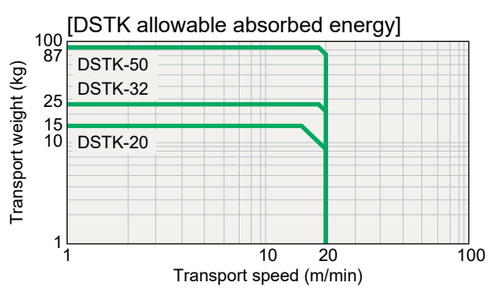


Inherits the high rigidity of air components

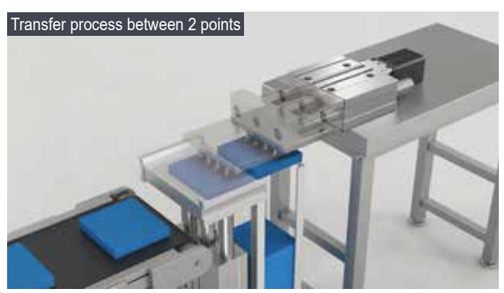
High rigidity | Space saving | Reduced design hours | Reduced number of parts | Long service life

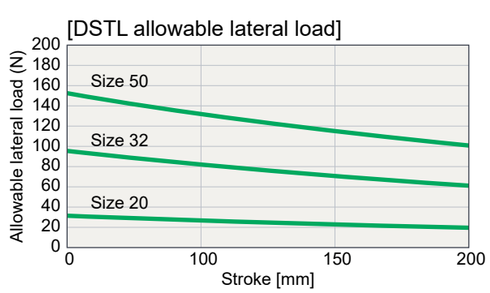
The use of the same body as the air components provides high rigidity unheard of in conventional electric actuators.

Stopper applications



Transfer process between 2 points





Electric actuator with built-in spring specialized for clamp and grip applications

D Series (Spring drive method)

Making carbon-neutral equipment more accessible

Line-up

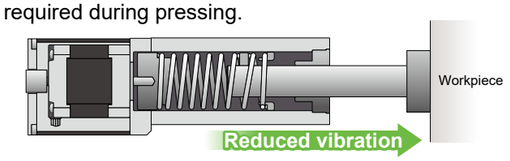
		Size 08	16	20	32	Catalog Page
Actuator	Compact guided DMSDG	●	●	●	●	69
	2-Finger Gripper DLSH			●	●	81
	3-Finger Gripper DCKW			●	●	91
Application Controller	ESC4	●	●	●	●	99

Built-in spring in the drive mechanism

A spring drive system where the motor rotates the spring.

DMSDG Series

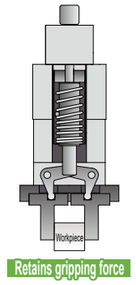
Due to the spring mechanism, impact is reduced on the workpiece and low speed operation is not required during pressing.

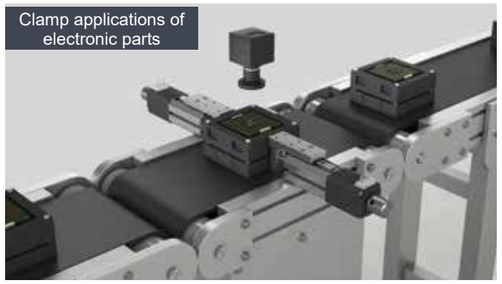


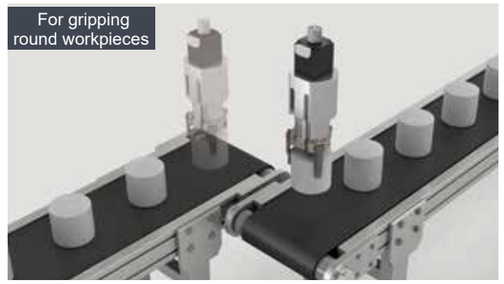
DLSH, DCKW Series

The self-lock and spring mechanism maintain the gripping force even when the power supply is shut OFF, reducing the risk of the workpiece falling.

*Contact CKD if self-locking support is required for the DMSDG Series.





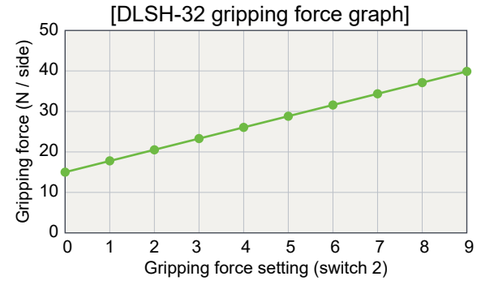


No dedicated tool is required. Easy on-site configuration

The stop position is adjusted by turning the manual operation knob to the position where the cylinder switch responds. The gripping force and speed can be set with the rotary DIP switch on the controller.

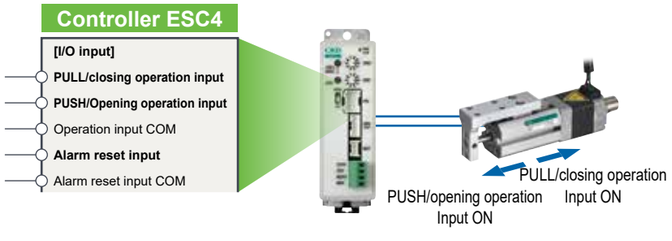

Cylinder switch

Rotary DIP switch



Operation is possible with 3 input signals

No program is required.
Simple wiring for operation.



64-point positioning electric actuator maintaining the user-friendliness of Air and Electric Motion components

G Series (screw drive system)

Rod-type
GSSD2

Controller
ECG

Multi-axis controller
ECMG

3-Finger Gripper
GCKW

Stopper-type
GSTK

Guided
GSTG

Guided
GSTS

Guided
GSTL

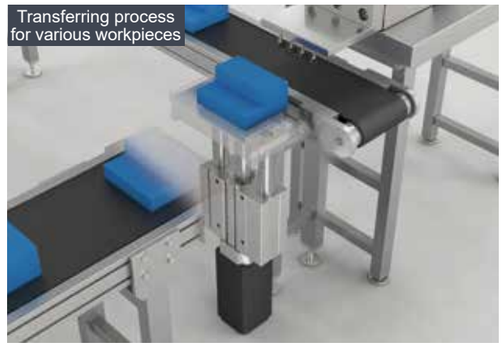
A wide range of Carbon-Neutral equipment variations as desired

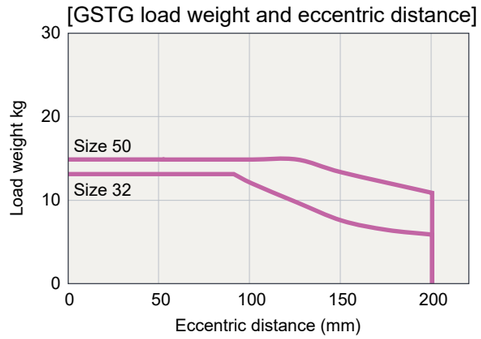
Line-up		Size 16	20	25	32	50	Catalog Page
Actuator	Rod-type GSSD2		●		●	●	115
	Stopper-type GSTK		●		●	●	125
	Guided GSTG		●		●	●	137
	Guided GSTS		●		●	●	151
	Guided GSTL		●		●	●	165
	3-finger gripper GCKW	●	●	●	●	●	179
Application Controller	ECG-A		●		●	●	189
	ECG-B	●	●	●	●	●	203
	ECMG	●	●	●	●	●	Catalog No.CC-1570A for details

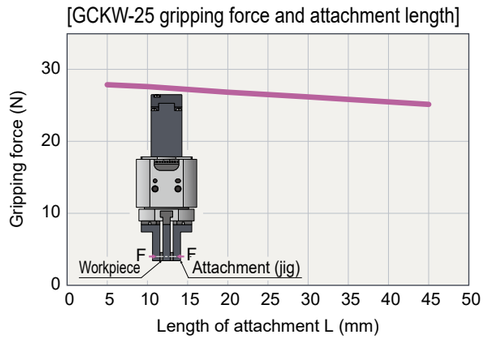
Inherits the high rigidity of air components

High rigidity · Space saving · Reduced design hours · Reduced number of parts · Long service life

The use of the same body as the air components provides high rigidity unheard of in conventional electric actuators.



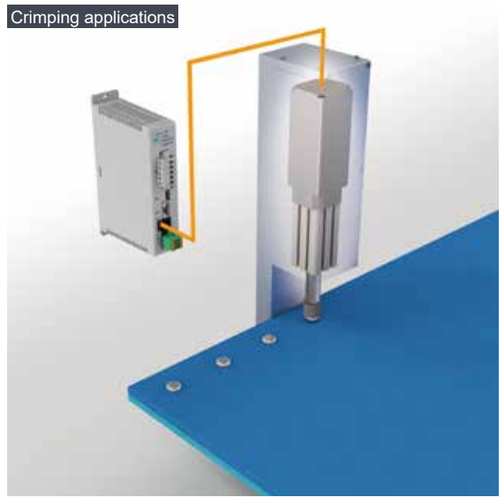




Can be connected to high-function controllers

High versatility · Productivity improved · Supports IoT

It can be connected to various interfaces as well as 64-multi-point positioning and pressing operations.



Single-axis controller
ECG

PIO
IO-Link
CC-Link
EtherCAT
EtherNet/IP

Multi-axis controller
ECMG *

CC-Link
EtherCAT
EtherNet/IP

Refer to catalog CC-1570A for * details

Space saving structure

Model	Max. payload / thrust		Max. speed	Max. stroke	Pressing force	Listed page
	Horizontal	Vertical				
DSSD2 	14.8 kg	13.2 kg	180 mm/s	100 mm	Not available	**3**
GSSD2 	14.8 kg	19.6 kg	500 mm/s	100 mm	590 N	**115**
DMSDG 	0.35 kg	0.35 kg	77 mm/s	30 mm	20 N	**69**
DSTK 	137 N	137 N	180 mm/s	30 mm	Not available	**13**
GSTK 	192 N	192 N	500 mm/s	30 mm	Not available	**125**

2-Finger Gripper

Model	Max. gripping force	Max. speed	Max. stroke	Listed page
DLSH 	40 N (per side)	63 mm/s	22 mm	**81**
FLSH 	65 N (per side)	50 mm/s	22 mm	Refer to Catalog No.CC-1444A
FFLD 	500 N (per side)	10 mm/s	160 mm	Refer to Catalog No.CC-1492A

3-Finger Gripper

Model	Max. gripping force	Max. speed	Max. stroke	Listed page
DCKW 	30 N (per side)	70 mm/s	8 mm	**91**
GCKW 	29 N (per side)	50 mm/s	6 mm	**179**

Guided

Model	Max. payload		Max. speed	Max. stroke	Pressing force	Listed page
	Horizontal	Vertical				
DSTG 	14.8 kg	13.2 kg	180 mm/s	100 mm	Not available	**25**
GSTG 	14.8 kg	19.6 kg	500 mm/s	100 mm	590 N	**137**
DSTS 	14.8 kg	13.2 kg	180 mm/s	50 mm	Not available	**39**
GSTS 	14.8 kg	19.6 kg	500 mm/s	50 mm	590 N	**151**
DSTL 	14.8 kg	13.2 kg	180 mm/s	200 mm	Not available	**53**
GSTL 	14.8 kg	19.6 kg	500 mm/s	200 mm	590 N	**165**

Table-type

Model	Max. payload		Max. speed	Max. stroke	Pressing force	Listed page
	Horizontal	Vertical				
FLCR 	11 kg	8.5 kg	300 mm/s	100 mm	210 N	Refer to Catalog No.CC-1444A

Rotary

Model	Max. torque	Max. speed	Listed page
FGRC 	4.66 N·m	200 deg/s	Refer to Catalog No.CC-1444A