

CKD

Electric Actuator Digest

ELECTRIC ACTUATORS DIGEST

– Introduction of electric motion components utilizing our expertise in pneumatics –



Click here to visit our
special electric actuator website



ROBODEX *Pulse* CKD Corporation

CC-1609A

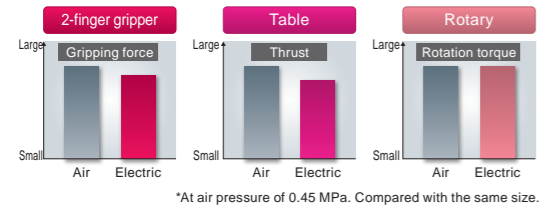
F Series

FLCR/FLSH/FGRC

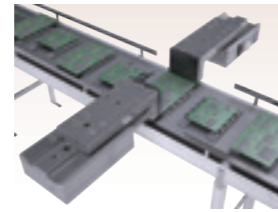
Performance & Dimensions equivalent to Pneumatics

The common sense that the size increases when electric motion is introduced has changed. The same capabilities are provided with the same installation dimensions. Towards equipment that further saves space.

Achieves the same capacity as air components



Centering differently sized workpieces



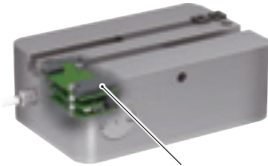
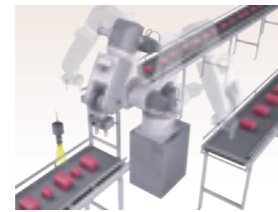
FFLD Series

Long stroke & High rigidity. Thin body reduces moment of inertia. Built-in controller saves space and wiring.

Built-in controller



End of articulated robot



Controller board

Lineup of Single and Multi-axis Controllers Helps shift production facilities to electric motion

ROBODEX Pulse

Electric actuator with stepper motor drive. A highly rigid body for a safe and secure equipment.

Controller is the ECG/ECMG Series. It can be connected to various types of actuators and up to 16 axes*. Performance is greatly improved, and adjacent installation contributes to the space saving of the control panel.

*ECMG

Space saving

40%
Conventional

ECMG Series

GSSD2/GSTK/GSTG/ GSTS/GSTL/GCKW

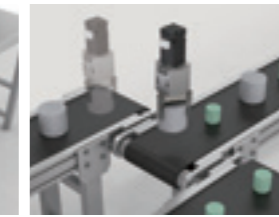
G Series

High rigidity of air components

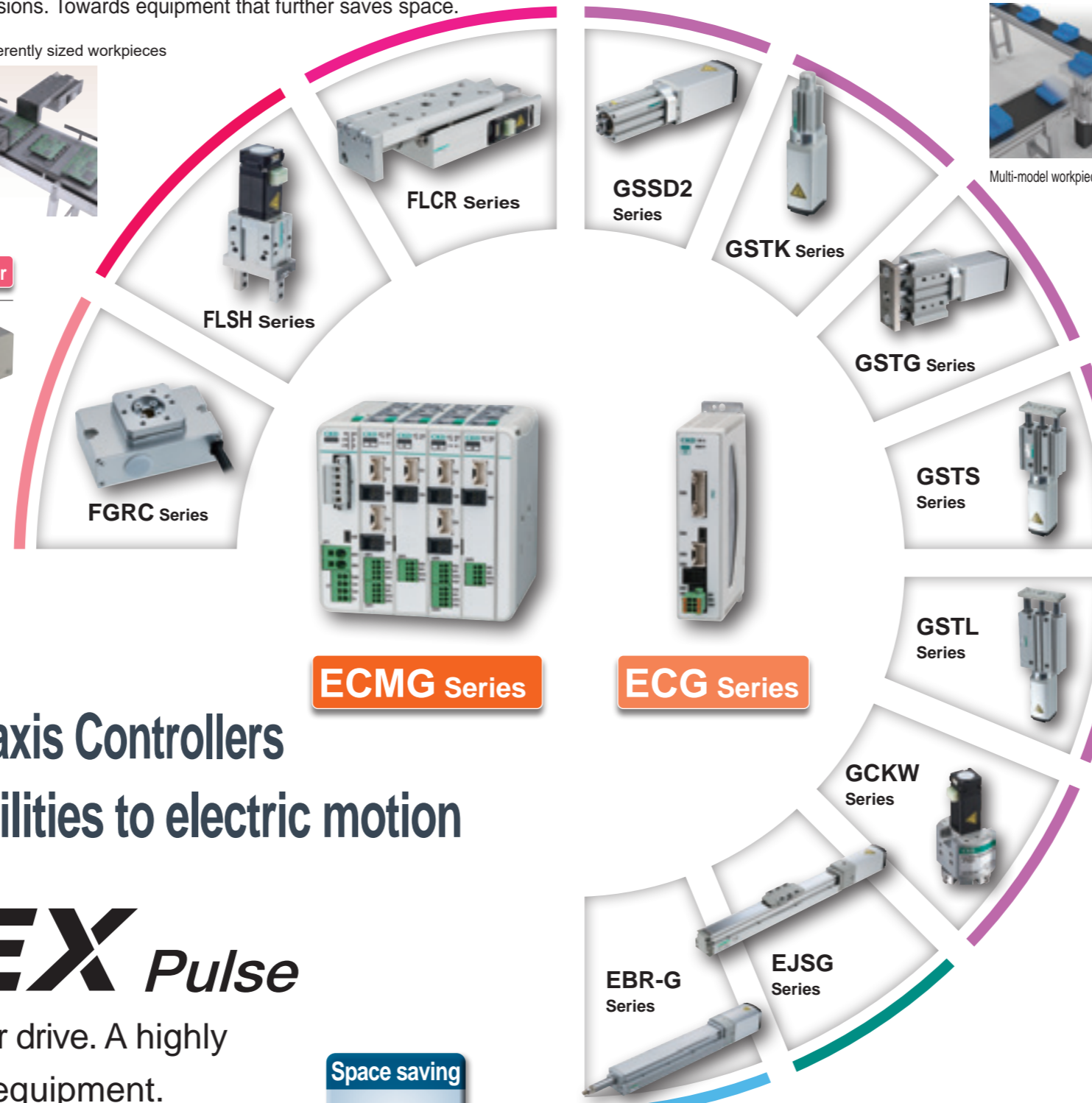
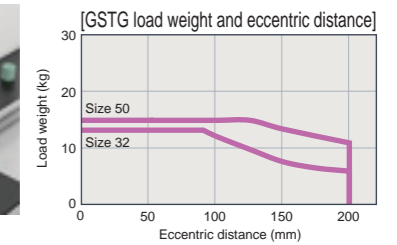
Achieves the same rigidity with a common Air body. Advancing to a carbon neutral era by electrification.



Multi-model workpiece transfer process



Multi-model workpiece gripping process



EJSG

EBR-G Series

High rigidity x space saving

Highly rigid body reduces the need for annexed guides and contributes to space saving. Easy maintenance ensures long product life and SDG-like usage.

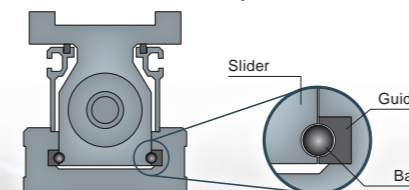
Supports a wide range of environments (EJSG Series)



Can be used safely in dust environments, low dust environments, rechargeable battery manufacturing and food manufacturing processes.

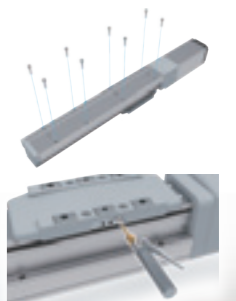
Structure

The guide which supports the load uses an outer rail system.



Maintenance

Mounting holes provided on top and bottom. Disassembly of body is not required for mounting and maintenance. Battery-less absolute encoder does not require replacement of battery. A grease lubrication port that allows lubrication from the side is available.



ROBODEX Pulse D Series



Dust environment



Low dust environment











Rechargeable battery manufacturing process



Food manufacturing process

Inherits the DNA of pneumatic components. For positioning applications between two points.

Rod DSSD2 Series  Japan only release	Stopper-type DSTK Series  Japan only release	Guided DSTG Series  Japan only release	Guided DSTS Series  Japan only release	Guided DSTL Series  Japan only release	Compact guided DMSDG Series  Japan only release	2-Finger Gripper DLSH Series  Japan only release	3-Finger Gripper DCKW Series  Japan only release
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ROBODEX Servo

Servo motor equipped type. For applications requiring high load capacity and high rigidity.

Horizontal articulated robot KHL/KHE Series  Japan only release	Slider EKS-M Series  Japan only release	Slider/rod type KBX Series 
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ROBODEX Pulse

Stepper motor equipped type. For multi-point positioning.

Table FLCR Series  Max. stroke: 100mm Max. speed: 300 mm/s Max. payload (horizontal): 11 kg	2-Finger Gripper FLSH Series  Max. stroke: 22 (11 per side) mm Max. gripping force: 65 N (one side)	Rotary FGRC Series  Max. angular speed: 200deg/s Maximum torque: 4.66N-m	2-Finger Gripper FFLR Series  Max. stroke: 160 (80 per side) mm Max. gripping force: 500N (one side)	
Rod GSSD2 Series  Max. stroke: 100mm Max. speed: 500 mm/s Max. payload (horizontal): 14.8 kg	Stopper-type GSTK Series  Max. stroke: 30mm Max. speed: 500 mm/s Max. thrust: 192N	Guided GSTG Series  Max. stroke: 100mm Max. speed: 500mm/s Max. payload (horizontal): 14.8 kg	Guided GSTS Series  Max. stroke: 50mm Max. speed: 500 mm/s Max. payload (horizontal): 14.8 kg	Guided GSTL Series  Max. stroke: 200mm Max. speed: 500 mm/s Max. payload (horizontal): 14.8 kg
3-Finger Gripper GCKW Series  Max. stroke: 6 (3 per side) mm Max. gripping force: 29 N (one side)	Environment-resistant slider EJSG Series  Max. stroke: 1,100 mm Max. speed: 850mm/s Max. payload (horizontal): 80 kg	Rod with built-in guide EBR-G Series  Max. stroke: 700mm Max. speed: 900 mm/s Max. payload (horizontal): 80 kg	Multi-axis controller ECMG Series  Interface: CC-Link, EtherCAT, EtherNet/IP	Single axis controller ECG Series  Interface: PIO, IO-Link, CC-Link, EtherCAT, EtherNet/IP

ROBODEX Std.

Can be used with the motor of your choice. Familiar motors with familiar controls.

Slider type (ball screw drive) EBS-L Series 	Rod EBR-L Series 	Slider type (ball screw drive) ETS Series 	Slider (ball screw drive/low dust) ECS Series 	Slider type (belt drive) ETV Series 	Slider (Belt drive/low dust) ECV Series 	Slider type (ball screw drive) EKS-L Series 	Electric shuttle mover ESM Series 
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If the goods and/or their replicas, the technology and/or software found in this catalog are to be exported from Japan, Japanese laws require the exporter makes sure that they will never be used for the development and/or manufacture of weapons for mass destruction.

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