

CKD

Electric Component Product Digest



ROBODEX

ABSODEX

τ ENGINE

Powered by NIKKIDENSO

CKD Corporation

CC-1667AA

Introducing CKD's electric devices that open up the future of Factory Automation



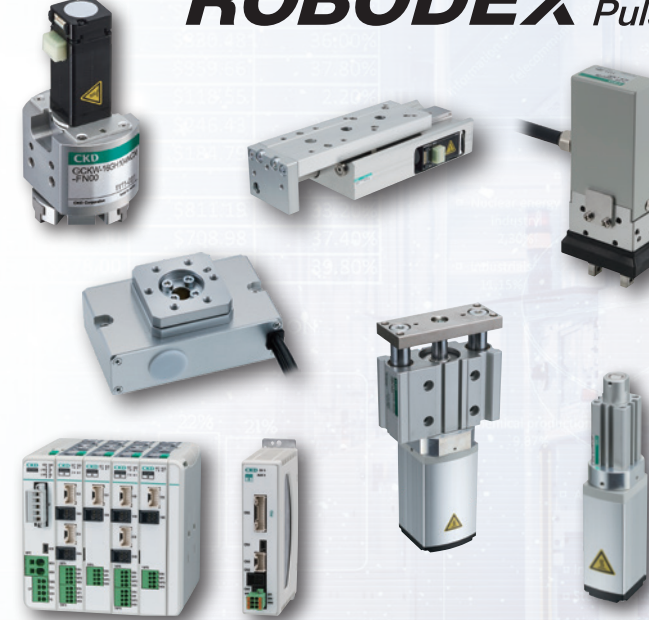
ROBODEX

Inheriting DNA and evolution, new choices, expanding possibilities

ROBODEX Std.



ROBODEX Pulse



ROBODEX Servo



ABSODEX

Making absolute trust even stronger



Index Drives

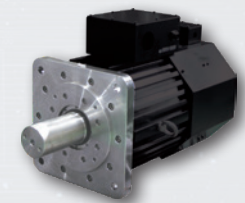
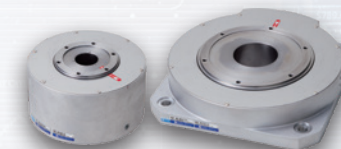


τ ENGINE

Powered by NIKKIDENSO

Beyond the possibilities created by high specs

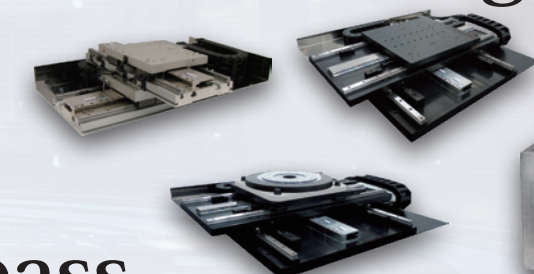
τ DISC[®] Servo Motor



τ Linear



τ Linear Stage



τ Servo Compass





E Series “Evolution”

Slider Type EJSG, EBS-G Series

- Ball screw drive, 3 sizes
- Equipped with a battery-less absolute encoder
- Max. payload: 80 kg (horizontal)
- Max. stroke: 1100 mm
- Max. speed: 1120 mm/s



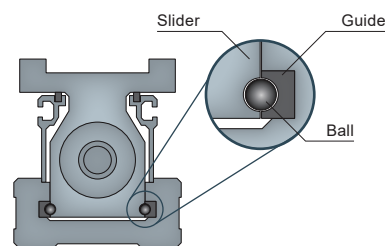
Rod Type EBR-G Series

- Ball screw drive, 3 sizes
- Equipped with a battery-less absolute encoder
- Max. payload: 80 kg (horizontal)
- Max. stroke: 700 mm
- Max. speed: 1000 mm/s



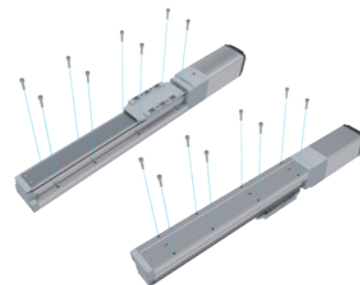
Compact, high-rigidity body

Outer rail is adopted for the guide supporting the load.



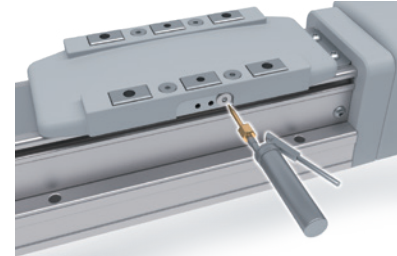
Mountable from top and bottom surfaces

Can be installed from both top and bottom surfaces without disassembling the product.



Equipped with external grease fitting port

Equipped with lubrication ports on both sides for direct lubrication from the outside.

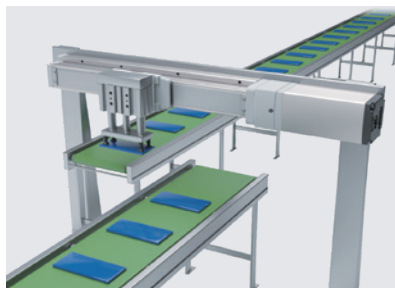


* Slider type only

Slider Type EJSG/EBS-G Series

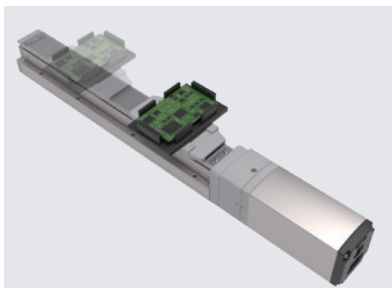
Pick & Place

Realizes high rigidity and space saving for the 1st axis of combined configuration.



Shuttle transfer

High speed transfer is possible with high output controller.



Rod Type EBR-G Series

Press-fitting process

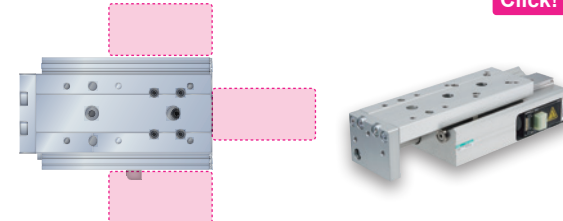
Light press-fitting is supported without external guide by guide-integrated actuator.



F Series “Fusion & Future”

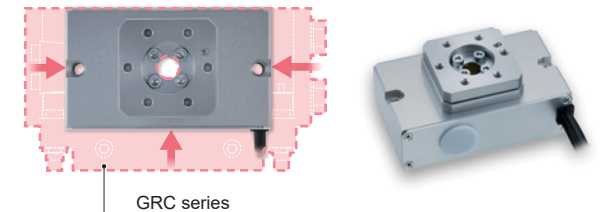
Table Type FLCR-G Series

- Ball screw + belt drive
- 3 sizes
- Built-in motor for space saving



Rotary Type FGRC-G Series

- Worm gear + belt drive
- 3 sizes
- Manual table position adjustment
- Self-lock mechanism

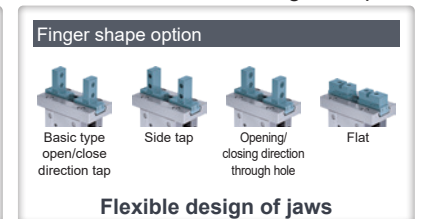


2-Finger Gripper FLSH-G Series

- Sliding screw drive
- 3 sizes
- Manual finger position adjustment
- Self-lock mechanism

Abundant options

Supports various options such as with case, with rubber cover, and finger shapes.



G Series “General purpose”

Rod Type GSSD2 Series

- Sliding screw drive, 3 sizes
- Equipped with a battery-less absolute encoder
- Max. payload 14.8 kg (horizontal)

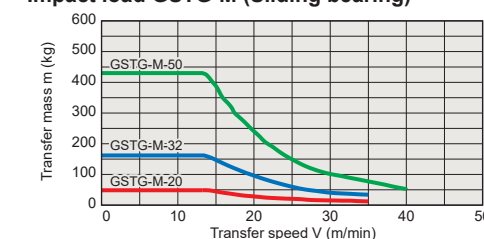


Guided Type GSTG/GSTS/GSTL Series

- Sliding screw drive, 3 sizes
- Equipped with a battery-less absolute encoder
- Max. payload 14.8 kg (horizontal)



Impact load GSTG-M (Sliding bearing)



3-Finger Gripper GCKW Series

- Sliding screw drive, 3 sizes
- Max. gripping power 29 N (one side)



Stopper Type GSTK Series

- Sliding screw drive, 3 sizes
- Equipped with a battery-less absolute encoder
- Max. thrust 192 N (vertical)



Allowable absorption energy

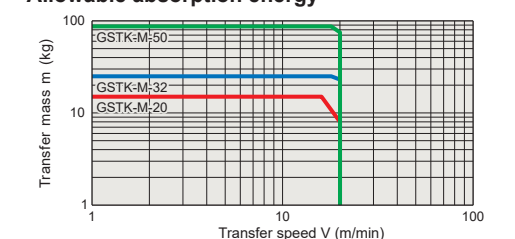
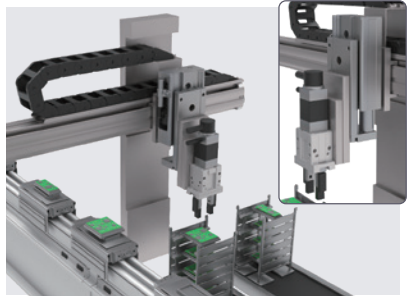


Table Type FLCR Series

Pick & Place (Z-axis)

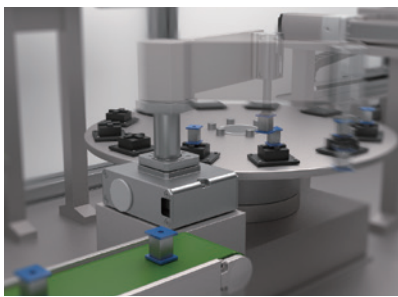
Space saving is possible with motor built-in actuator.



Rotary Type FGRC Series

Oscillating transfer

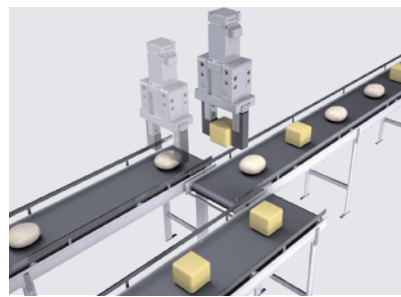
Can be used for pick & place rotary axis of lightweight workpieces.



2-Finger Gripper FLSH Series

Handling of various workpieces

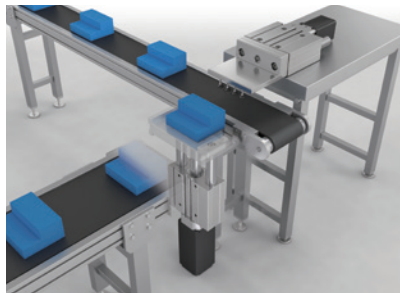
Handling of various workpieces is possible by adjusting and monitoring position, speed, and pressing force.



Guided Type GSTG Series

Workpiece transfer process

Inheriting the rigidity of air cylinders, electrification is possible while maintaining the rigidity.



Stopper Type GSTK Series

Stopper

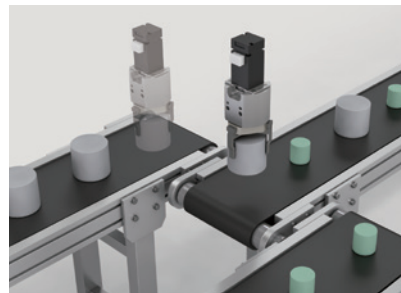
Inheriting the rigidity of air cylinders, electrification is possible without changing the body size.



3-Finger Gripper GCKW Series

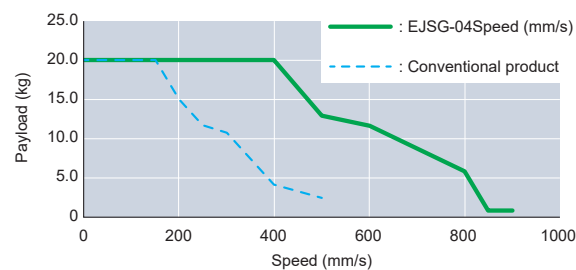
Handling of various workpieces

Handling of various workpieces is possible by adjusting and monitoring position, speed, and pressing force.



Multi-axis Controller ECMG Series

- Supports up to 16 axes
- Three types of power supply methods
- Significant improvement of basic performance



PROFI
NET

EtherCAT

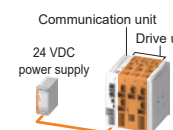
CC-Link

EtherNet/IP



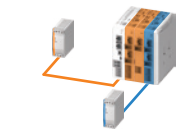
Batch wiring method

Reduction of wiring man-hours
Batch supply of power from communication unit to each drive unit



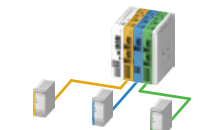
Mixed wiring method

No axis limit by current value
Separate power supply only for drive units with high current consumption



Individual wiring method

No axis limit by current value, ensuring high safety
Direct power supply to each drive unit



Single Axis Controller ECG Series

- Two types of Controllers
- 5 types of communication methods

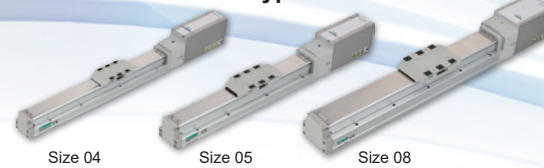


IO-Link EtherCAT Parallel IO

CC-Link EtherNet/IP

Controller Built-in Type LRX Series

LRXE-BS Slider Type



LRXG-STG Guided Type



ROBODEX Pulse Light

Realizes positioning at up to 4 points

4-point mode

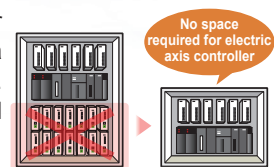
After specifying the point number with the point number selection bit, movement starts when the point movement start signal is turned ON. If turned OFF during operation, it decelerates and stops.

Ex: When moving it to point number 4
After specifying input numbers 0 and 1, turn ON point movement start.



Realizes space saving of the control panel

Integration of motor and controller eliminates the need to install a controller inside the control panel. Space saving in the control panel is realized.



2-Finger Gripper (Built-in Controller) FFLD Series

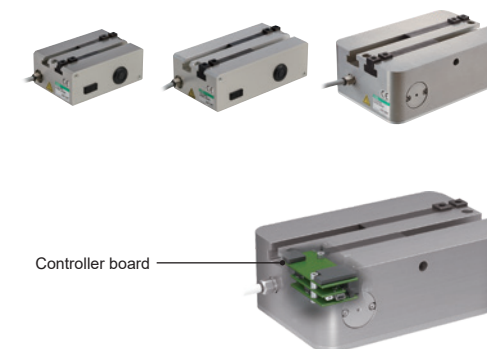
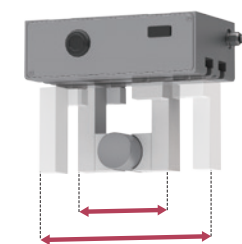
- 3 sizes
- Controllers integrated
- Max. stroke length: 80 mm (one side)
- Max. gripping power: 500 N (one side)
- Interface: IO-Link
- IP54 compatible (Special Specification Product)



High gripping force, long stroke

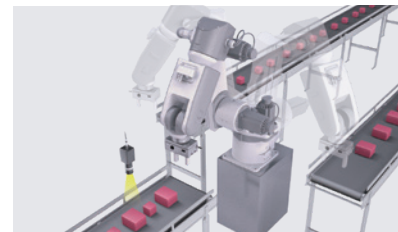
Achieves high gripping force of 500 N (single side) and long stroke of 160 mm (80 mm single side). Can transfer heavy and diverse workpieces with a single tool.

IO-Link



Tip of articulated robot

Built-in controller type allows use at robot tip.



Tip of mobile cart robot

Usable on mobile carts thanks to built-in 24 VDC controller.



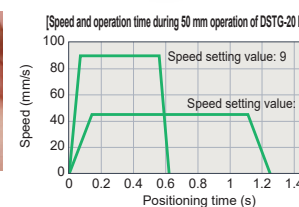
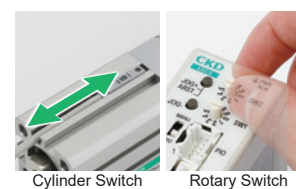
Screw drive method D Series

Specific to positioning between two points



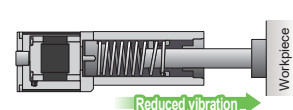
Spring drive method D Series

Specializing in clamp and grip applications



DMSDG Series

The spring mechanism eliminates the need for low-speed operation during pressing and reduces impact on the workpiece.



DLSH/DCKW Series

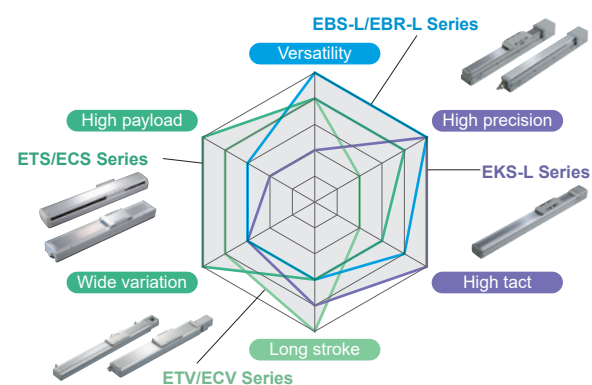
The self-lock and spring mechanism maintain gripping force even when power is cut off, reducing the risk of dropping workpieces.

* Please contact us if you require self-locking for the DMSDG series.



ROBODEX Std.

Standard model that expands the possibilities



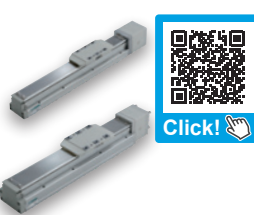
Compatible Servo Motor Manufacturer List	EBS-L EBR-L	ETS/ECS ETV/ECV	EKS-L	Supported stepping motor manufacturers list	EBS-L EBR-L	ETS ECS
Mitsubishi Electric Corporation	●	●	●	Oriental Motor Co., Ltd.	●	●
Delta Electronics, Inc.	●	●	●	MinebeaMitsumi Inc.	●	●
SANYO DENKI CO., LTD.	●	●	●	Dyadic Systems Co., Ltd.	●	●
Yaskawa Electric Corporation	●	●	●			
KEYENCE CORPORATION	●	●	●			
Panasonic Corporation	●	●	●			
OMRON Corporation	●	●	●			
Fuji Electric Co., Ltd.	●	●	●			
FANUC CORPORATION	●	●	●			
DENSO WAVE INCORPORATED		●*				
Bosch Rexroth AG	●	●	●			
Rockwell Automation, Inc.	●	●	●			
SIEMENS AG	●	●	●			

*1 Only metal stopper use (ETS-X) is supported.

We provide the actuator body, brackets that fit the motor of each manufacturer you selected, and other mounting parts. It is a standard model of ROBODEX that allows a wide range of choices according to the situation you want to use, such as motor unification in equipment, inventory reduction, and motion control.

Slider Type EBS-L Series

- Ball Screw Drive
- Utilizes outer rail guide
- Supports servo motors 50 to 400 W
- Supports stepping motors □42 to □60
- Max. payload: 110 kg (horizontal)
- Max. stroke: 1250 mm



Slider Type ETS/ECS Series

- Ball Screw Drive
- Supports servo motors 100 to 750 W
- Supports stepping motors 42 to 60
- Max. payload: 150 kg (horizontal)
- Max. stroke: 1500 mm
- Low dust specification: ECS Series



Slider Type EKS-L Series

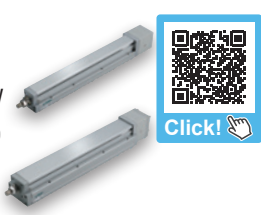
- Ball Screw Drive
- Steel housing
- Circular arc groove guide
- Servo motor 50 to 750 W compatible
- Max. payload: 118.5 kg (horizontal)
- Longest stroke: 1500 mm



* Max. payload at acceleration/deceleration of 0.5 G.

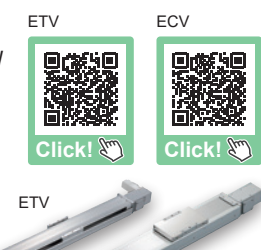
Rod Type EBR-L Series

- Ball Screw Drive
- Utilizes outer rail guide
- Supports servo motors 50 to 400 W
- Supports stepping motors 42 to 60
- Max. payload: 110 kg (horizontal)
- Max. stroke: 800 mm



Slider Type ETV/ECV Series

- Belt Drive
- Supports servo motors 200 to 750 W
- Max. payload: 85 kg (horizontal)
- Max. stroke: 3500 mm
- Low dust specification: ECV Series



Slider Type EFS Series

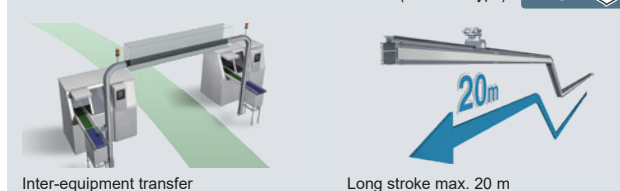
- Special Specifications
- Ball Screw Drive
- Thin and lightweight body
- Body black
- Servo motor: 100 to 400 W



Electric Shuttle Mover

ESM Series

- Overhead P&P transport system
- Belt Drive
- Motors from various manufacturers can be mounted (motorless type)



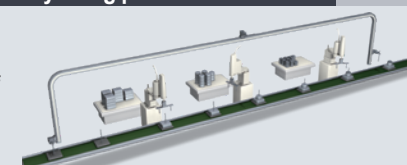
Supply parts to parallel identical equipment

Consolidate the supply of assembly parts to multiple aligned identical equipment with a single actuator.



Collection of temporary fixing pins on free flow line

Collect the pins that temporarily fixed the workpiece at the start of assembly, at the end. Return to the starting location.



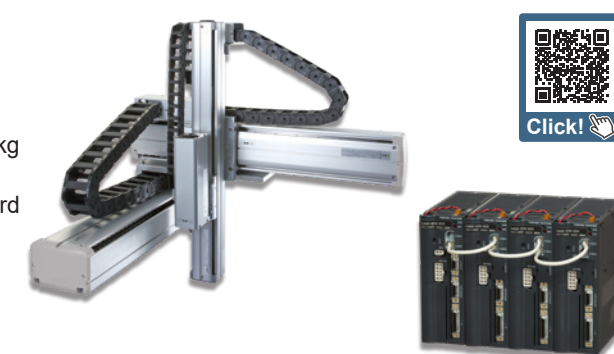
ROBODEX Servo

High payload and high mechanical rigidity enable unrestricted space

Cartesian Robot KBX Series

- All models are absolute types
- Servo motor: 50 to 750 W
- Ball screw drive, 6 sizes, max. stroke: 1700 mm, Max. payload: 250 kg
- Belt drive, 4 sizes, max. stroke: 4450 mm, max. payload: 200 kg
- I/O (NPN, PNP), CC-Link, DeviceNet, EtherNet/IP *
- Abundant variations can be constructed by combining standard modules

* The Special Specification Product will be installed



Pick & Place

Combination of up to 4 axes is possible.
High mechanical rigidity achieves space saving.



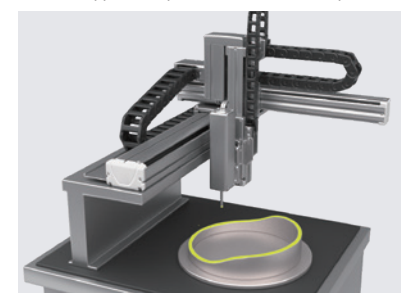
Palletizing

Palletizing operation can be easily realized by the robot controller.



Circular interpolation motion

Circular motion is possible with orthogonal axes, such as in the application process of circular workpieces.



Flexible space and time at high speed

Horizontal Articulated (SCARA) Robot KHL Series (standard) /KHE Series (high precision)

*Japan only release

- Compact with high performance
- Ideal for light press fitting and screw tightening
- Easy-to-use PC software
- Can be connected to various image processing systems
- Compatible with all-types of networks

Ethernet / PROFINET /
DeviceNet /
CC-Link / EtherNet/IP
EtherCAT / PROFINET



KHL Series



KHE Series



Pick & Place

High mechanical rigidity enables optimization of pick & place.



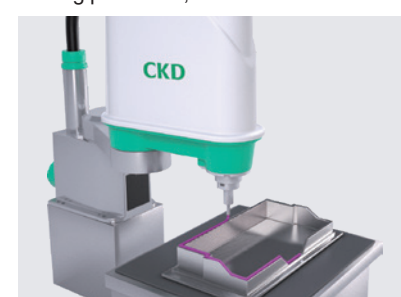
Palletizing

Palletizing operation can be easily realized by the robot controller.



Linear interpolation

High trajectory accuracy allows use in coating processes, etc.



High Precision

Can be used for assembling minute electronic components.

Built-in Rotary Position Detector

Built-in resolver, a position detector with excellent environmental resistance. Battery-less absolute specification eliminates the need for return-to-origin and recognizes the angle on the table.

High Torque

Not only lightweight aluminum tables but also large index tables exceeding 2 m in diameter can be mounted directly.

Built-in Bearing

High rigidity bearing is built in. Strong against moment and suitable for press-fitting work.

5 Series available according to applications

High Precision Type AX1R Series

- Maximum torque: 22 to 210 N·m
- 5 sizes
- High precision
- Ideal for assembly and inspection



Click!

High Speed Rotation Type AX2R Series

- Maximum torque: 6 to 18 N·m
- 3 sizes
- Small diameter / high-speed rotation
- P&P, Ideal for turntable and assembly



Click!

Standard Type AX4R Series

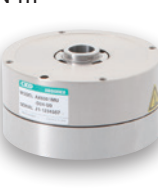
- Maximum torque: 9 to 1000 N·m
- 8 sizes
- Large hollow bore
- P&P, Ideal for turntable and assembly



Click!

Small Type AX6000M Series

- Maximum torque: 1.2 to 3 N·m
- 2 sizes
- Smallest class in the industry (CKD research)
- Ideal for fine workpiece transport and Θ-axis correction



Click!

Waterproof / Dustproof Type AX8R Series

- Special Specifications
- Maximum torque: 45 to 70 N·m
- 2 sizes
- Waterproof specs. (IP65 or equivalent)
- Ideal for inspection and alignment



Click!

Various Drivers

- Compatible within each series
- The startup support tool is available for free on our HP



AXD Series

Parallel IO
EtherCAT
CC-Link
EtherNet/IP



AX-MU Series

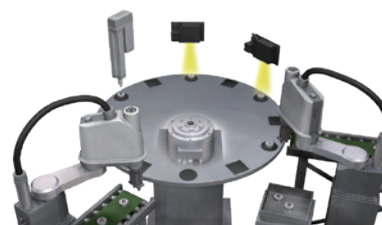


Click!

Application Example

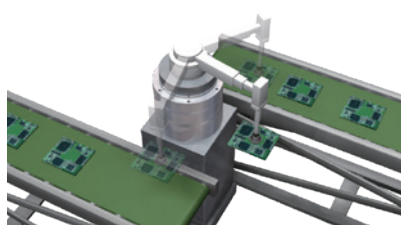
Assembly / Inspection

Assembly and inspection can be realized on a rotary table with indexing operation.



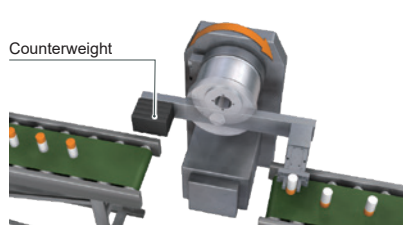
Pick & Place

Handling between processes is possible by oscillating.



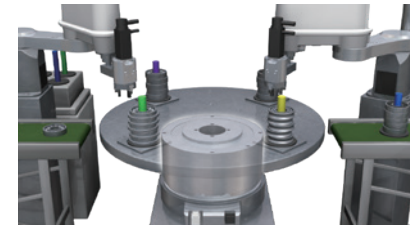
Reversing transfer

Can be used for reversing mechanism by balancing the workpiece.



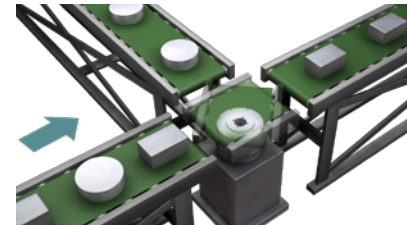
Stocker

Can be used for stocker for workpiece supply. Enables support for multiple product types.



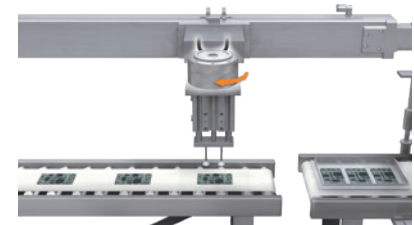
Conveyor transfer

Can be used for direction change and posture change on conveyor. * Attention to rigidity is required.



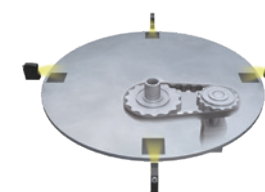
Handling Θ axis

Can be used as tip axis for workpiece angle adjustment. * Attention to rigidity is required.

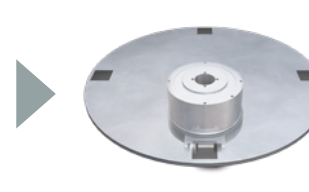


Benefits of ABSODEX

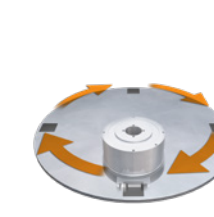
- Reduction of the number of parts
- No backlash
- Space-saving
- Maintenance-free
- Sensorless
- Reduced design processes
- Silent
- Improved environmental friendliness



Motor + Timing belt



ABSODEX



Indexing operation



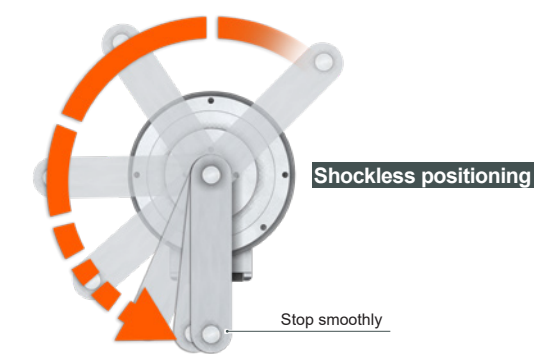
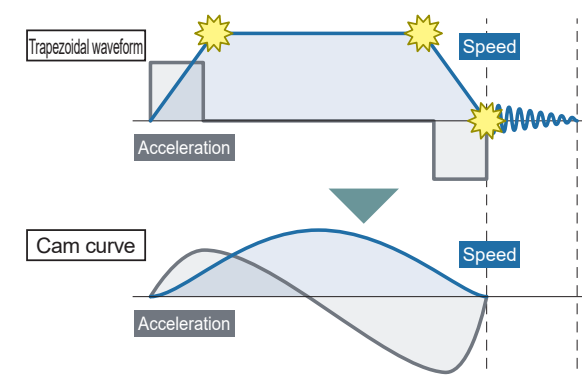
Oscillate



Continuous rotation

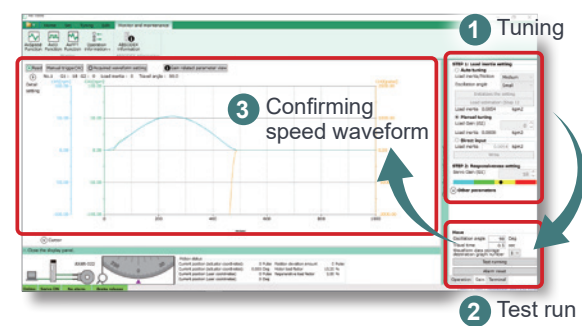
High motion characteristics

Smooth acceleration/deceleration by cam curve enables high speed and high cycle operation.



Gain adjustment is easy

Gain adjustment is 2 steps: load estimation and response adjustment. Load estimation now allows direct setting of inertia value. Response adjustment has increased from conventional 16 levels to 32 levels, allowing finer adjustment. Furthermore, executing test operation allows immediate confirmation of adjustment results, shortening adjustment time.



STEP 1: Load inertia setting

Auto tuning

Load inertia/friction Medium

Oscillation angle Small

Initializes the setting

Load estimation (Step 1)

Load inertia 0.0054 kgm2

Manual tuning

Load Gain (G2)

Load inertia 0.0000 kgm2

Direct input

Load inertia 0.0054 kgm2

Write

STEP 2: Responsiveness setting

Servo Gain (G1) 18

Gain adjustment according to load is possible

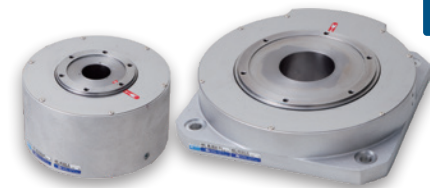
- Reduction of startup time
- Suppression of overshoot

High performance direct drive motor

τ DISC[®] Servo Motor

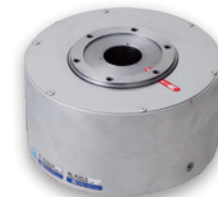
Standard Type ND-S Series

- Space saving/cost balance
- Rated torque: 3.4 to 500 N·m



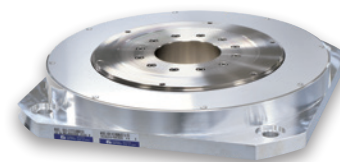
High Speed Rotation Type ND-s HS Series

- High speed pick&Place, continuous high-speed rotation
- Rated torque: 8 to 24 N·m



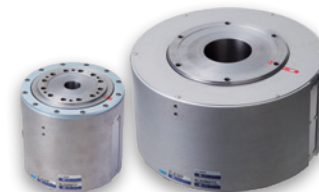
Low-profile Type ND-u Series

- Ultra-thin motor with a thickness of 39.5 mm
- Rated torque: 11.5 to 35 N·m



High Rigidity / High Precision Type DD-S Series

- High load, large inertia, stopping accuracy
- Rated torque: 10 to 2000 N·m



High Response Type HD-S Series

- Cylinder shape, high-speed index, high torque/high-speed rotation
- Rated torque: 27 to 68 N·m



Large Torque / Cylinder Type iD Series (air-cooling)

- Can save energy by combining with a power regenerative Drivers
- Rated torque: 150 to 7,000 N·m

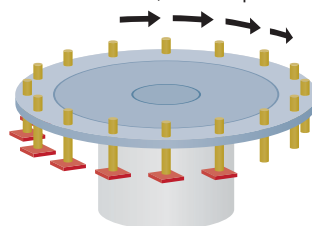


* Water-cooled type with even larger capacity is also available.

Application Examples

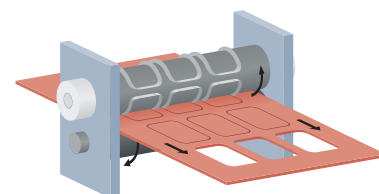
High Speed Index Drive

Can be used for high-speed indexing operations in handlers, visual inspections, etc.



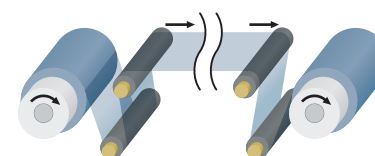
Rotary Drive

Can be used in operations where speed stability is important, such as die cutters and printing machines.



Unwinding, Winding Drive

Can be used in film handling processes such as laminators and coaters.

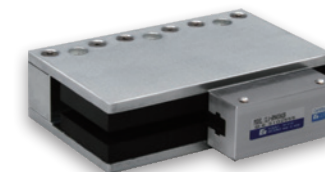


Diverse lineup from straight units to arcs

τ Linear

Linear Type

- Rated thrust: 13.8 to 1500 N



τ Servo Compass

Coreless / Arc Type

- Rated tangential thrust: 120 to 300 N



High-spec stage that focuses on accuracy

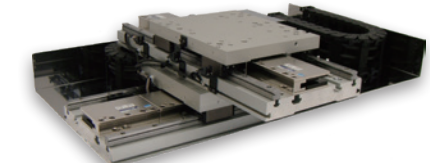
τ Linear Stage

High Precision Type τ Linear Stage



Low Cost Type Stage Block

- Effective stroke: 100 to 1140 mm



X

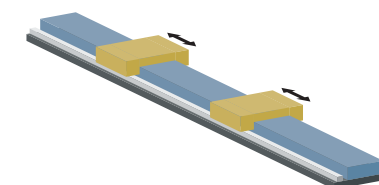
XY

XY θ etc...

Application Examples

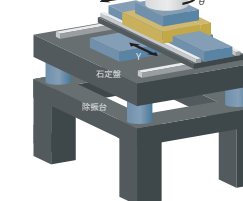
Stage Block

Compatible with max. stroke 21.3 m and max. speed 5 m/s.



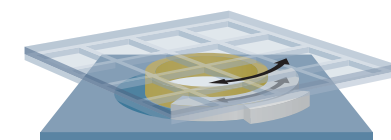
τ Linear Stage

Construction of X/Y/ θ stages is possible. Positioning accuracy, speed stability performance guarantee (Option).



τ Servo Compass

Compatible from minute angle to 1 rotation operation. Space-saving alignment stage can be realized.



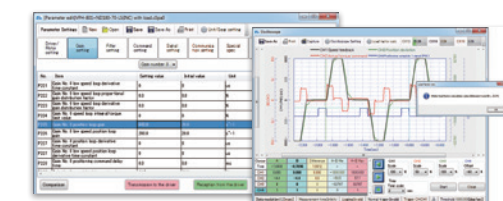
Driver

High Performance Type VPH Series

- Excellent speed stability that significantly suppresses torque ripple
- Stable operation when stopped
- Smooth operation reduces Positioning time



Configuration Tool



niEAT

- Interactive support for typical initial setup
- Automatic adjustment is completed in about 5 mins. by simply entering the conditions being used
- Automatically sets filters and adjusts the gain

Index Drives

Synchronized motion of multiple axes

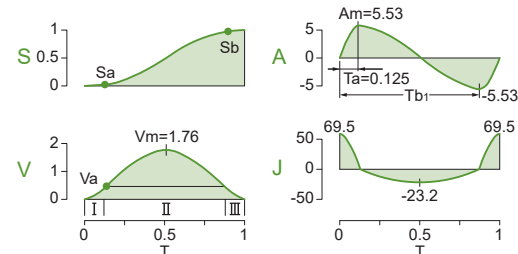
Synchronization characteristics

Operation of multiple cam units is possible with one drive

High-speed/frequency swiveling and stopping of output shaft

Motion characteristics

Realizes smooth motion curve by cam



High-precision repeated motion using uniform rotation speed

Repetitive characteristics

By giving constant speed rotation to the input shaft, a series of motions can be repeated with extremely excellent precision

Ideal for driving index tables

Roller Gear Cam Unit

Compact, high speed, high output, high precision, high rigidity



Ideal for driving index tables

Pick and Place

● High Precision/High Rigidity ● Compact, thin and space saving

Linear P&P Unit

Arm Type A

PPLX 040 to 080



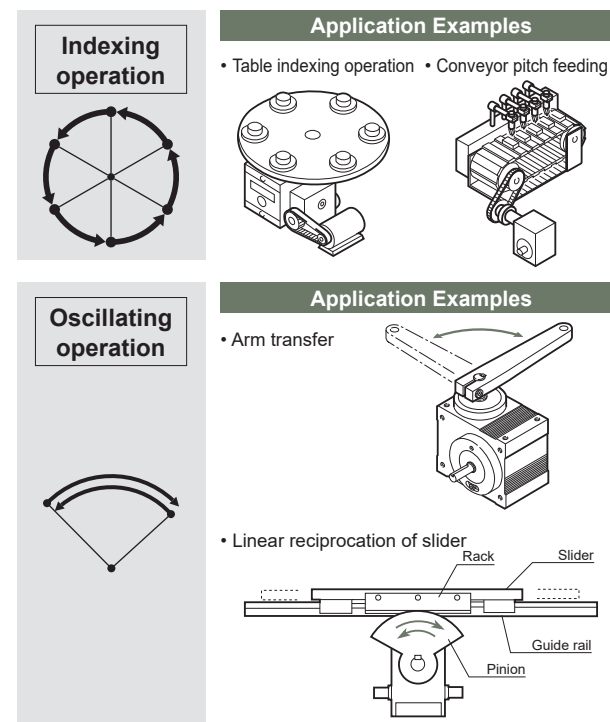
Table Type B

PPLX 040 to 080



Two motions available

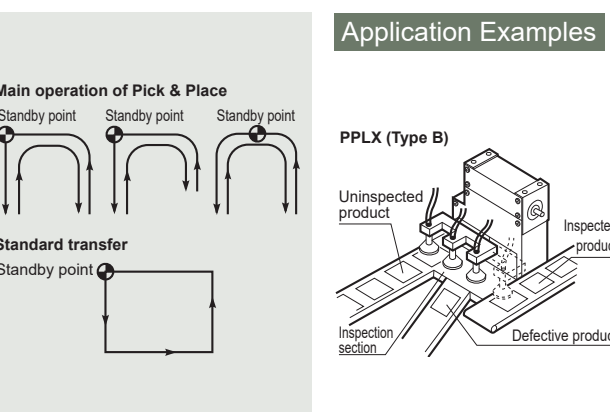
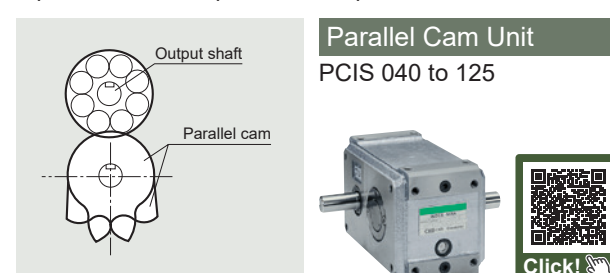
Continuously performs movement and stop at a determined angle around the output shaft. Index operation and oscillate operation can be selected.



Ideal for conveyor drive

Parallel Cam Unit

Input shaft and output shaft are parallel



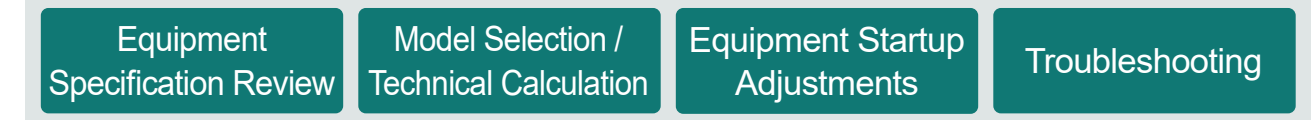
Caravan car

You can see various demo machines

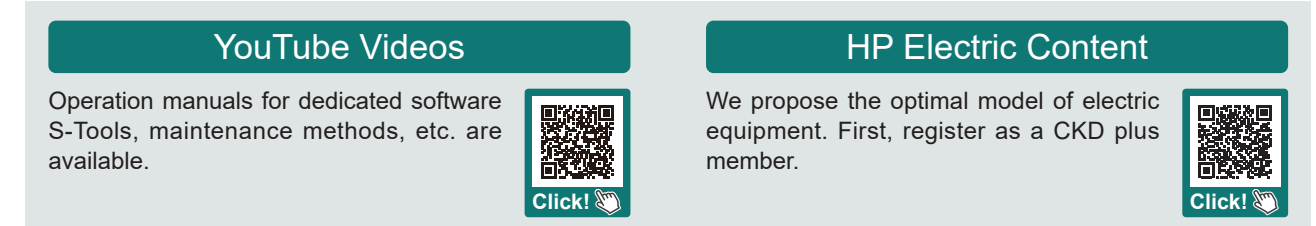


Customer service

We solve customer problems related to electric products!

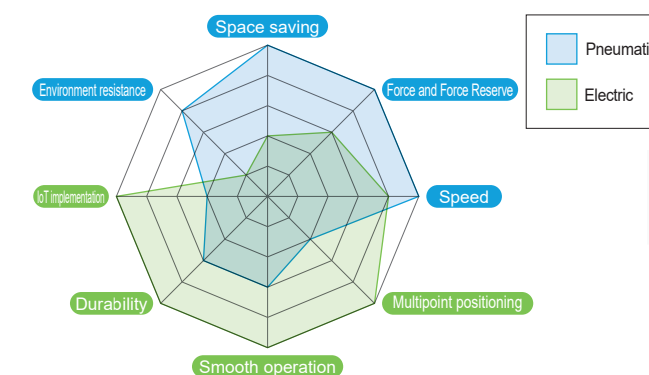


Delivering information easier and faster



Pneumatic and Electric Motion benefits comparison

In this case, Pneumatic or Electric?



Here is a hint!





Red cube icon: Distributors

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Website <https://www.ckd.co.jp/en/>

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