

Multi-Axis Type Actuator

Multi-axis system change the movement from one dimension to two or three

Highly customizable the multi-axis design, like XY, XYZ and/or adding a rotation axis for the applications are possible Besides, it can also use two Y axis or two Z axis for the applications Multi-axis system change the movement from one dimension to two or three dimensions. Maximize the application possibilities, and minimize the time of assembly Also, can keep the consistency of the appearance.

XYGH Moving Arm Type

Multi-axis Actuator

XYGH10-A
XYGH20-A
XYGH30-A
XYGH40-A

XYMH Moving Arm Type

Arm Type Gantry Type

XYMH40-A
XYMH50-A
XYMH60-A
XYMH70-A
XYMH80-A
XYMH90-A
XYMH100-A

Moving Arm Type

XYMH100-P
XYMH120-P
XYMH140-P
XYMH160-P
XYMH180-P
XYMH200-P
XYMH220-P

X-Y Type

XYMH100-F
XYMH120-F
XYMH140-F
XYMH160-F
XYMH180-F
XYMH200-F
XYMH220-F

XYMP Moving Arm Type

Arm Type Gantry Type X-Y Type

XYMP60-A
XYMP70-A
XYMP80-A
XYMP90-A
XYMP100-A
XYMP120-A
XYMP140-A

Arm Type

XYMP60-P
XYMP70-P
XYMP80-P
XYMP90-P
XYMP100-P
XYMP120-P
XYMP140-P

Gantry Type

XYMP60-F
XYMP70-F
XYMP80-F
XYMP90-F
XYMP100-F
XYMP120-F
XYMP140-F



Multi-Axis Type

XYGH Low cost compared with vertical multi-joints robot.

XYMH Ingenious mechanical design making Cartesian robots achieve high rigidity for reducing vibration and deformation.

Easy design

XYMP Multiple combination of single axis actuator.

Rack&Pinion Actuator

Ultra High Loads, Unlimited Stroke

ZRH is a cost-effective rack&pinion actuator. It adopts a double guide rail and double slider design, with good dynamic performance, high stiffness of the slide table, small thermal deformation, and high stability, thus ensuring the actual accuracy of the load in the processing state. Designed and manufactured with aluminum, the actuator has a beautiful shape, reasonable design, good rigidity, reliable and stable performance, and the whole series can be used vertically.

ZRH Standard Gear

Rack & Pinion Actuator

ZRH17/22/28

Max. stroke: 7000mm*
Repeatability: ±0.08mm
Horizontal load: 350kg
Vertical load: 155kg



Rack and pinion



Ultra-high loads

Unlimited Stroke, good rigidity, reliable performance

Width: 170-280mm

Typical Stroke: 7000mm

Maximum Payload Horizontal 350kg Vertical 155kg

3D Model Selection Tool

Powered By CADENAS



PRODUCT INTRODUCTION



PI
FA.ROBOT
Precision Industry

Electric Linear Actuator

ENG AM

Standard Ball Screw Actuator

High Precision, High Performance

Ball screw driven actuator design can provide the high accuracy and steady movement. Also secure the reliability and quality. Providing the $\pm 0.01\text{mm}$ of the repeatability. This series can support the payload from 5kg to 320kg, which could be applied widely.

GRH Standard

Guide Embedded Ball Screw Actuator

GRH4/5/7/8/12/15/5M/8M/12M

Max. stroke: 1350mm
Repeatability: $\pm 0.01\text{mm}$
Horizontal load: 120kg
Vertical load: 40kg



RMH Standard

Standard Ball Screw Actuator

RMH12/14/17/22/28/17S/22S

Max. stroke: 2200mm
Repeatability: $\pm 0.01\text{mm}$
Horizontal load: 320kg
Vertical load: 150kg



GEC Standard

Rod Type Actuator

GEC5/8/12

Max. stroke: 800mm
Repeatability: $\pm 0.01\text{mm}$
Horizontal load: 110kg
Vertical load: 33kg



Ball Screw Driven

High Accuracy, High Payload

GRH

Guide Embedded Ball Screw Actuator Small size, easy to install
Width: 44~150mm Max. stroke: 1350mm
Maximum Payload: Horizontal 120kg Vertical 40kg

RMH

Long stroke Ball Screw Actuator High precision, High speed
Width: 102~280mm Max. stroke: 2200mm
Maximum Payload: Horizontal 320kg Vertical 150kg

GEC

Guide Embedded Type Actuator Ball Screw
Width: 54~120mm Max. stroke: 800mm
Maximum Payload: Horizontal 110kg Vertical 33kg

Standard Belt Actuator

High Velocity Belt driven actuator design can provide the longer stroke

Belt driven actuator design can provide the longer stroke, which can apply in a long distance movement required applications. Compact structure design resulting in lower cost and time saving. This series can support the stroke up to 16,000mm, and speed can up to 3,000mm/s maximize your production efficiency.

RMP Standard

Standard Belt Actuator

RMP14S/17S/22S/28R/28RN

Max. stroke: 4600mm
Repeatability: $\pm 0.04\text{mm}$
Horizontal load: 230kg



MKR Standard

Europe Type Belt Actuator

MKR40/65/80/110

Max. stroke: 5500mm
Repeatability: $\pm 0.1\text{mm}$
Horizontal load: 200kg
Vertical load: 50kg



MKR Standard

Europe Type Belt Actuator

MKR40/65/80/110

Max. stroke: 5500mm
Repeatability: $\pm 0.1\text{mm}$
Horizontal load: 200kg
Vertical load: 50kg



Belt Type Driven
Long Stroke, High Speed

RMP

Guide Embedded Type Belt Actuator
Width: 102~280mm Max. stroke: 4600mm
Maximum Payload: Horizontal 230kg

MKR

Europe Type Belt Actuator Long stroke
Width: 40~110mm Max. stroke: 5500mm
Maximum Payload: Horizontal 200kg Vertical 50kg

GRP

Belt driven, not easy to dust, High life
Width: 54~120mm Max. stroke: 800mm
Maximum Payload: Horizontal 110kg

GRP

Belt driven, not easy to dust, High life

Integrated Steel Body Actuator

Miniaturization Design High Rigidity High Precision

Integrated Steel Body Actuator, Max. stroke: 640mm Repeatability: $\pm 0.005\text{mm}$.

KKS Standard

Standard Belt Actuator

Integrated Steel Ball Screw Actuator

Max. stroke: 640mm
Repeatability: $\pm 0.005\text{mm}$
Horizontal load: 40kg



Ball Screw Driven
High Accuracy, High Payload

KKS500

The body and the slider integrated into steel to improve the poor rigidity of the original aluminum body material.

Ball Screw stroke: 510mm Max. stroke: 610mm
Maximum Payload: 120kg

KKS500

It is more rigid than the general aluminum body material. Unaffected by customer style, it is more rigid and the structure is less prone to distortion.

Ball Screw stroke: 1020mm Max. stroke: 640mm
Maximum Velocity: 600mm/s

Linear Motor Actuator

High Rigidity, High Precision, Compact Design

The linear motor adopts a flat design and is directly coupled to the driven load. Due to the elimination of the use of mechanical transmission components, it has excellent performance, rigidity, dynamic speed and acceleration positioning accuracy, as well as operation and efficiency. In addition, the direct drive linear motor has a compact structure, low noise, no maintenance and smooth operation.

GLH Standard

Embedded Linear Motor Actuator

GLH7/12/15

Max. stroke: 3600mm*
Repeatability: $\pm 0.003\text{mm}$
Horizontal load: 60kg



LRH Standard

Linear Motor Actuator

LRH12/14/17/22

Max. stroke: 5500mm*
Repeatability: $\pm 0.003\text{mm}$
Horizontal load: 120kg



LMH Standard

Linear Motor Actuator

LMH14S/17S/22S

Max. stroke: 4500mm*
Repeatability: $\pm 0.002\text{mm}$
Horizontal load: 120kg



*If you need a longer stroke, please contact sales.

Linear Motor Driven

Zero contact, maintenance free

GLH

Provide convenient and low-cost solutions for ultra long travel applications
Width: 44~150mm Max. stroke: 3600mm
Maximum Payload: Horizontal 60kg

LRH

High Thrust, High Stiffness, High velocity, High Precision
Width: 102~220mm Max. stroke: 5500mm
Maximum Payload: Horizontal 120kg

GEC

Smooth, High Stiffness, High velocity, High Precision
Width: 135~220mm Max. stroke: 4500mm
Maximum Payload: Horizontal 120kg

Clean Room Type Actuator

Effectively minimize the pollution of the actuator and working environment.

Same performance as RMD/RMF/GRC Sealing design can prevent dirt and foreign objects from penetrating inside. Equipped with air fitting device, which can keep the internal component clean. Clean type can support to clean room grade class 10 (examined by SGS) widely applying in the semiconductor industry and food supply chain. Effectively reduce the pollution of the actuator and working environment.

GRC Clean Room Type

Clean Room Ball Screw Actuator

GRC5/8/12/15

Max. stroke: 1350mm
Repeatability: $\pm 0.01\text{mm}$
Horizontal load: 120kg
Vertical load: 50kg



RMD Clean Room Type

Clean Room Ball Screw Actuator

RMD12/14/17/22/28

Max. stroke: 1950mm
Repeatability: $\pm 0.01\text{mm}$
Horizontal load: 120kg
Vertical load: 150kg



RMF Clean Room Type

Clean Room Belt Actuator

RMF14/17/22/28R/28RN

Max. stroke: 6150mm
Repeatability: $\pm 0.04\text{mm}$
Horizontal load: 230kg



Clean Room Type

Fab

Dust Sealing, Long life

GRC

Clean Room Ball Screw Actuator Cost-effective, easy to maintain
Width: 54~150mm Max. stroke: 1350mm
Maximum Payload: Horizontal 120kg Vertical 50kg

RMD

Long stroke Ball Screw Actuator High precision high speed
Width: 102~280mm Max. stroke: 1950mm
Maximum Payload: Horizontal 120kg Vertical 150kg

RMF

Clean Room Type Belt Actuator Not easy to fall dust, Long life
Width: 135~280mm Max. stroke: 6150mm
Maximum Payload: Horizontal 230kg