



Low noise linear modules

Company Profile

CCM Automation Technology Co.Ltd,with design office in HongKong and manufaturing plants in China,supplying the most economical solution with simple , exquisite and innovative linear modules for industrial automation .

CCM has over 23 years of experience in this field and been consistently researching and developing new models each year. CCM brings together professional individuals from multiple fields,including mechanical design , mechanical engineer , motor , computer , sales , etc , thus we can professional advice on module selection.

CCM protects intellectual property rights of products.CCM owns over ten patents that all authorized by the State Intellectual Property Office of China.The features of the CCM linear actuators are

- | | |
|-----------------------|---------------------------------------|
| 1) high accuracy. | 2) customized length up to 6 meters. |
| 3) anti-corrosion. | 4) maintenance-free. |
| 5) low vibration. | 6) low noise. |
| 7) high reliability. | 8) high durability. |
| 9) high speed. | |



W Series

Linear Modules



Specification	Max Load	Guide Width	Pitch	Torque	Positional Repeatability
W40-03	3KG	40MM	75MM	$\leq 3 \text{ N.M}$	$\leq 0.05 \text{ MM}$
W40-10	10KG	40MM	75MM	$\leq 3 \text{ N.M}$	$\leq 0.05 \text{ MM}$
W45-15	15KG	45MM	80MM	$\leq 4.5 \text{ N.M}$	$\leq 0.05 \text{ MM}$
W50-25	25KG	50MM	95MM	$\leq 6.5 \text{ N.M}$	$\leq 0.05 \text{ MM}$
W60-35	35KG	60MM	95MM	$\leq 8.5 \text{ N.M}$	$\leq 0.05 \text{ MM}$
W35	3KG	35MM	63MM	$\leq 3 \text{ N.M}$	$\leq 0.05 \text{ MM}$
W100	30KG	100MM	125MM	$\leq 8.5 \text{ N.M}$	$\leq 0.05 \text{ MM}$

WH Series

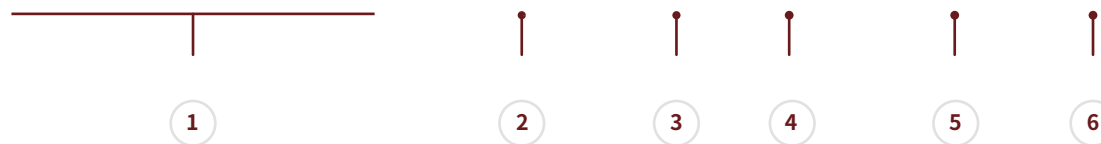
Linear Modules



Specification	Max Load	Guide Width	Pitch	Torque	Positional Repeatability
WH35	3 KG	35 MM	63 MM	$\leq 1 \text{ N.M}$	$\leq 0.1 \text{ MM}$
WH100	30 KG	100 MM	125 MM	$\leq 4.5 \text{ N.M}$	$\leq 0.1 \text{ MM}$

Model Number

CCM - W40-10 - L1000 - DC -1A - 60(D14)

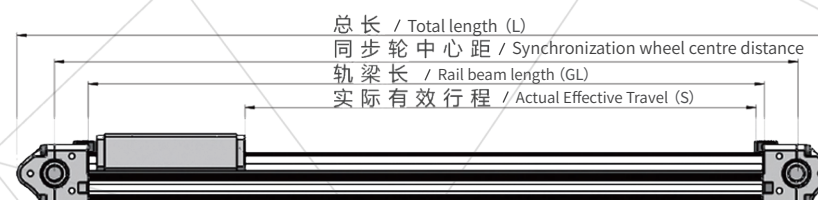


- 1 **Brand, Model :** CCM-W40-10 / W45-15 / W50-25 ...
- 2 **Total length :** L1000 (Total length 1000mm); GL1000 (Rail length 1000mm); S1000 (Stroke length 1000mm) Length relationship refers to "Module Length Indication" on the right.
- 3 **Motor Connections :** DC (Direct connection); DG (Connect by speed reducer set); More details, please see the illustration.
- 4 **Shaft position :** 1~8 (Shaft Position); A~D (Motor Position); More details, please see the illustration.
- 5 Dimension of Motor/Planetary Gearbox
- 6 Shaft Diameter of Motor/Planetary Gearbox

Note: If you need rail mount,sensor, motor, planetary gearbox and other accessory, please contact us to order.

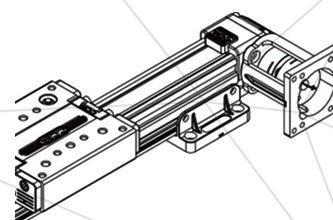
A

Part Length Indication >>

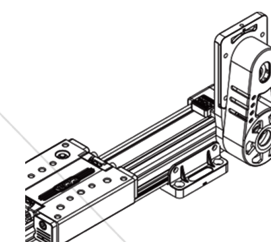


B

Motor Connections >>



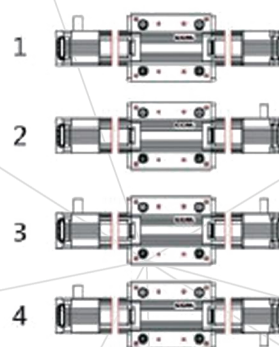
Motor Bracket



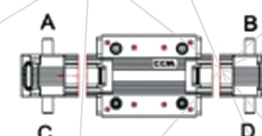
Speed Reducer Set

C

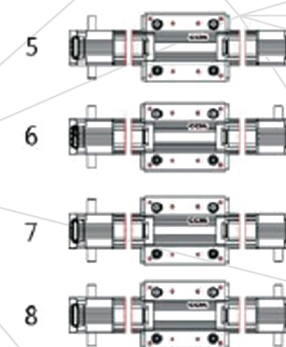
Motor Shaft position >>



Shaft position



Motor position

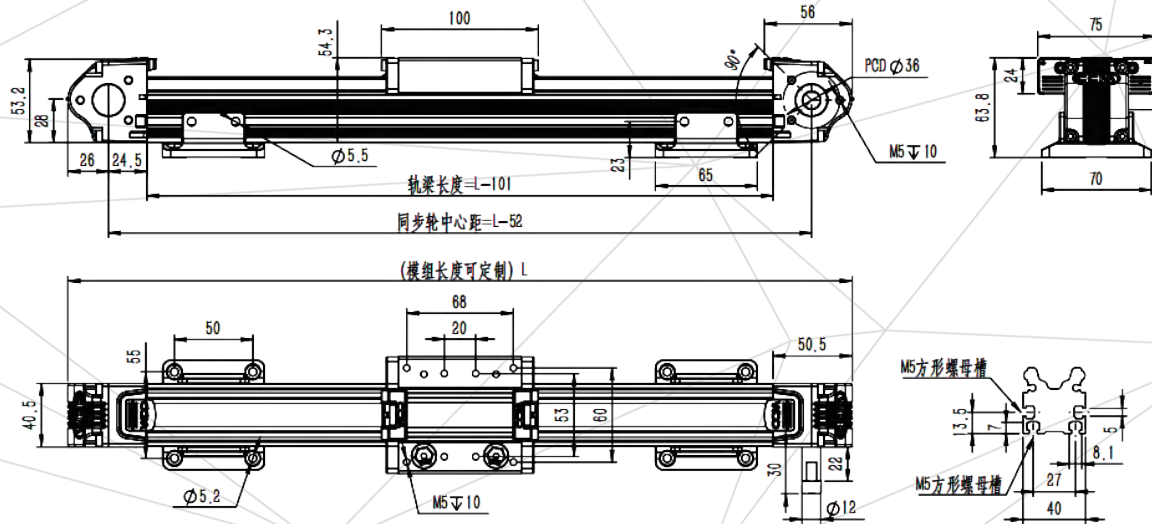


Shaft position

W40-03

W Series

■ Dimensions (Unit : mm)



* Suggested length=Effective stroke+230MM

- Model : W40-03
- Guide Width : 40 MM
- Max Load : 3 KG
- Pitch : 75 MM
- Straightness : 0.05 / 300 MM
- Recommended speed : ≤ 1.5 M/s
- Input Torque : ≤ 3 N.M

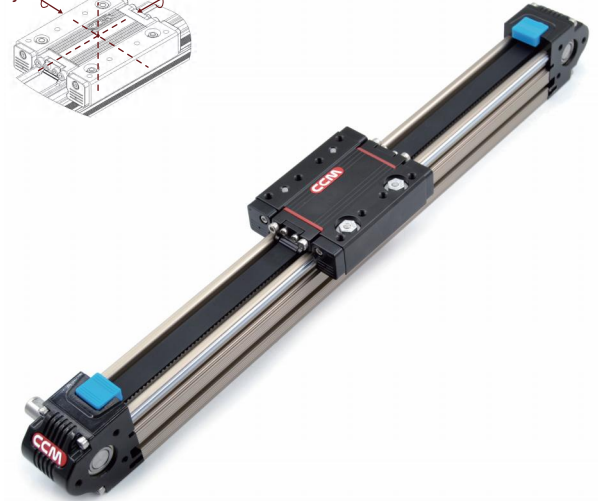
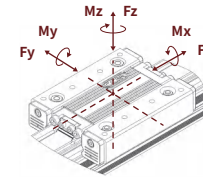
- Customized Length : Up to 4 meters

* Length of 50mm increase and decrease, such as 1000mm, 1050mm, 1100mm...

- Belt Spec. : PU-3M-15(STD)
- Synchronous Wheel Spec. : HTD3M-25Z
- Applicable Motor and Mounting Way

I. Stepper Motor: Nema 17 (Direct Connection) ;
Nema 23 (DC/Speed Reducer Set)

II. Servo Motor: 100W (Direct Connection) ;
200W/400W (DC/Speed Reducer Set)



Model		W40-03
Carriage Parameter	Fx max (N)	100
	Fy max (N)	370
	Fz max (N)	429
	Mx max (N.M)	8.1
	My max (N.M)	9.6
	Mz max (N.M)	4.2

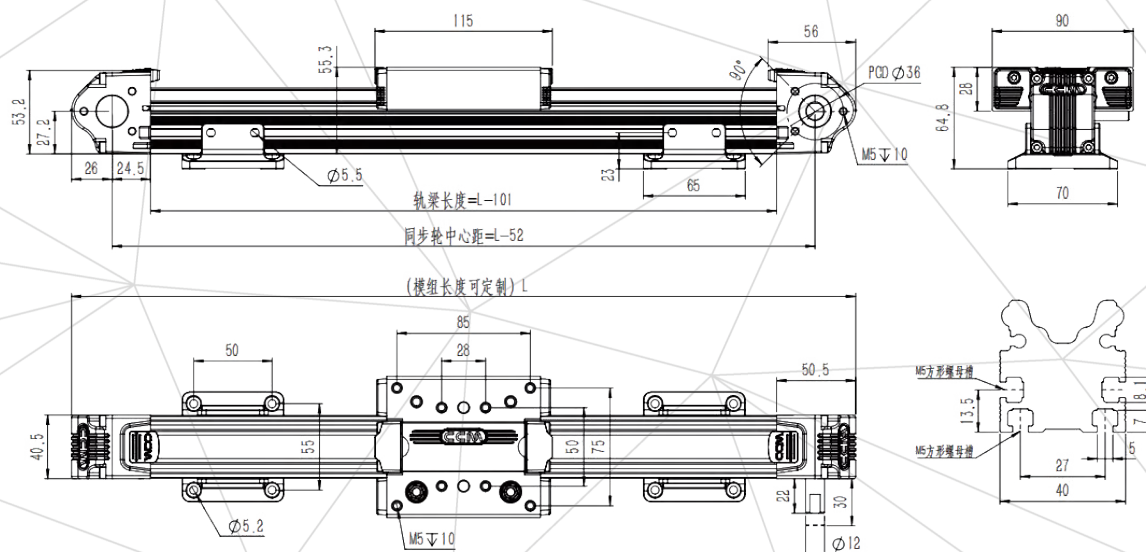
$$\text{最大负载系数 (Max Load Factor)} = \frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

♦ The maximum load coefficient is the coefficient of the linear module's operating life of 10000KM, which is the final basis for linear module selection. (It needs to consider the force and torque generated by acceleration in single or multiple-axis)

W40-10

W Series

■ Dimensions (Unit : mm)



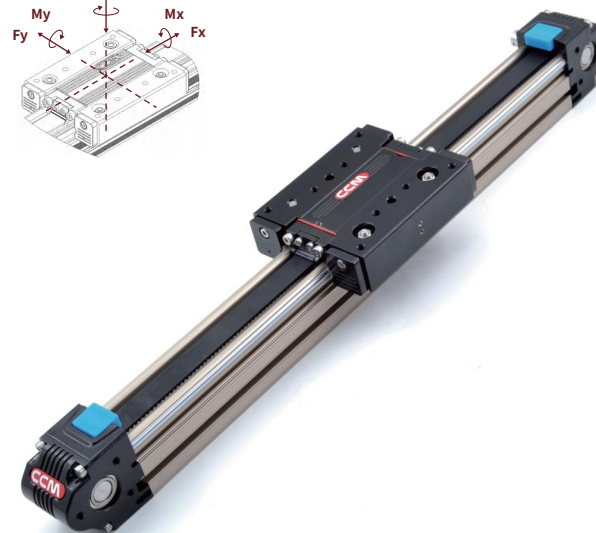
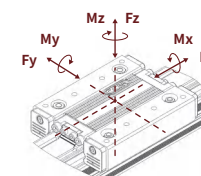
* Suggested length=Effective stroke+250MM

- Model : W40-10
- Guide Width : 40 MM
- Max Load : 10 KG
- Pitch : 75 MM
- traightness : 0.05 / 300 MM
- Recommended speed : ≤ 1.5 M/s
- Input Torque : ≤ 3 N.M

- Customized Length : Up to 4 meters

*Length of 50mm increaseand decrease, such as 1000mm, 1050mm, 1100mm...

- Belt Spec. : PU-3M-15(STD)
- Synchronous Wheel Spec. : HTD3M-25Z
- Applicable Motor and Mounting Way
 - Stepper Motor: Nema 17 (Direct Connection) ; Nema 23 (DC/Speed Reducer Set)
 - Servo Motor: 100W (Direct Connection) ; 200W/400W (DC/Speed Reducer Set)

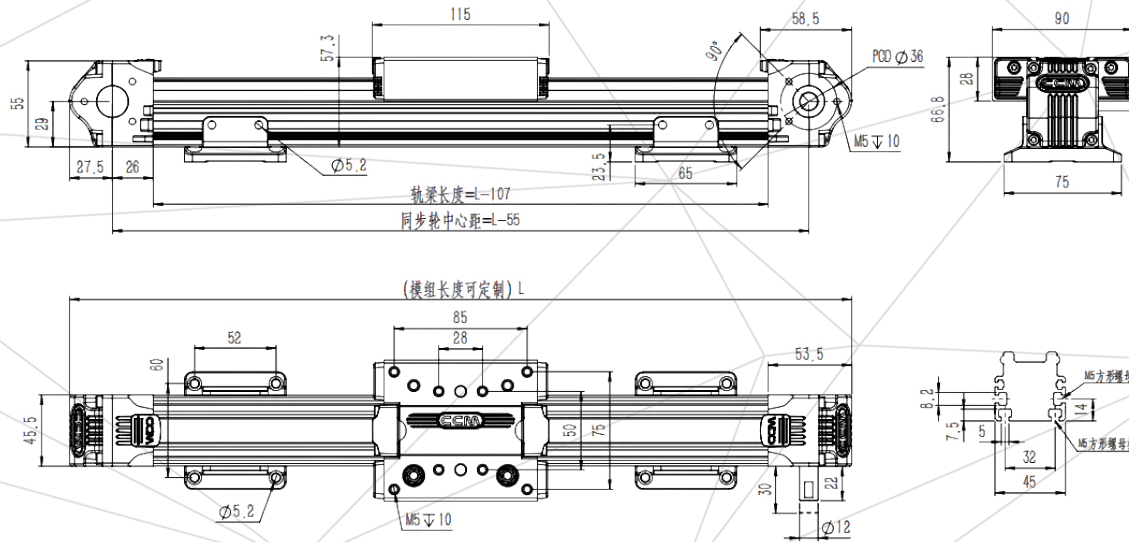


Model		W40-10
Carriage Parameter	Fx max (N)	100
	Fy max (N)	655
	Fz max (N)	762
	Mx max (N.M)	14.5
	My max (N.M)	22.8
	Mz max (N.M)	9.8
最大负载系数 (Max Load Factor) = $\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$		
• The maximum load coefficient is the coefficient of the linear module's operating life of 10000KM, which is the final basis for linear module selection.(It needs to consider the force and torque generated by acceleration in single or multiple-axis)		

W45-15

W Series

■ Dimensions (Unit : mm)



* Suggested length=Effective stroke+250MM

■ Model : W45-15

■ Guide Width : 45 MM

■ Max Load : 15 KG

■ Pitch : 80 MM

■ Straightness : 0.05 / 300 MM

■ Recommended speed : ≤ 1.5 M/s

■ Input Torque : ≤ 3 N.M

■ Customized Length : Up to 6 meters

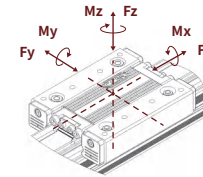
* Length of 50mm increase and decrease, such as 1000mm, 1050mm, 1100mm...

■ Belt Spec. : PU-5M-15(Stainless Steel)

■ Synchronous Wheel Spec. : STD5M-16Z

■ Applicable Motor and Mounting Way

- Stepper Motor: Nema 17 (Direct Connection) ; Nema 23 (DC/Speed Reducer Set)
- Servo Motor: 100W (Direct Connection) ; 200W/400W (DC/Speed Reducer Set)



Model		W45-15
Carriage Parameter	Fx max (N)	200
	Fy max (N)	655
	Fz max (N)	762
	Mx max (N.M)	14.5
	My max (N.M)	22.8
	Mz max (N.M)	9.8

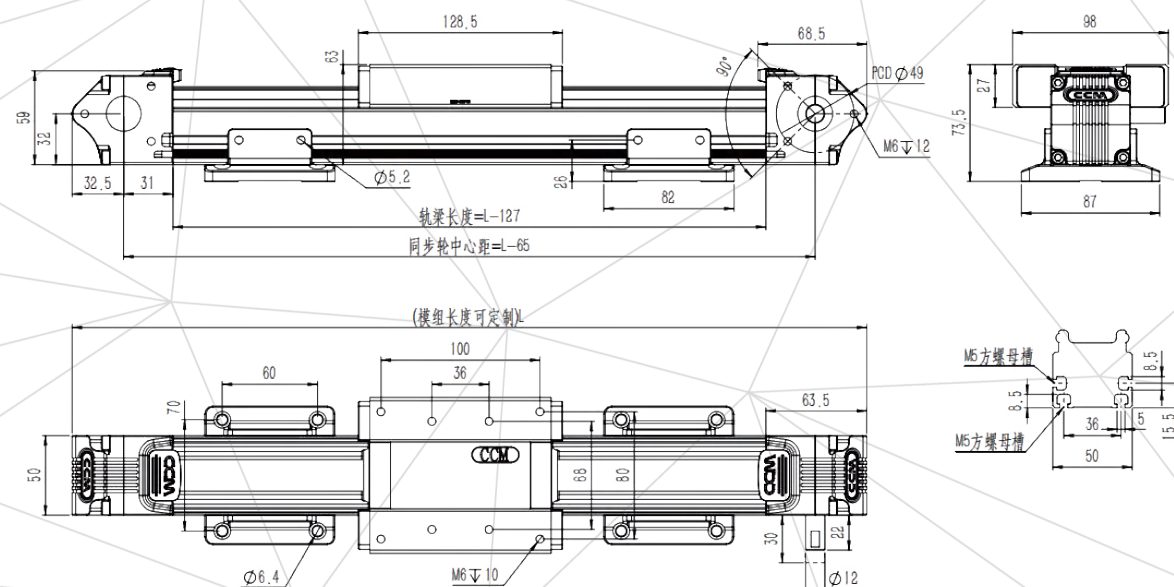
$$\text{最大负载系数 (Max Load Factor)} = \frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

* The maximum load coefficient is the coefficient of the linear module's operating life of 10000KM, which is the final basis for linear module selection. (It needs to consider the force and torque generated by acceleration in single or multiple-axis)

W50-25

W Series

■ Dimensions (Unit : mm)



* Suggested length=Effective stroke+290MM

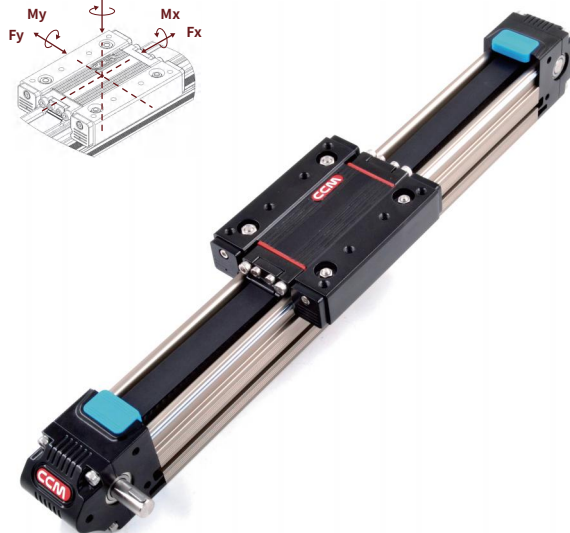
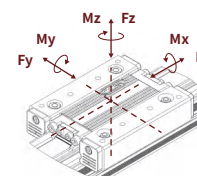
- Model : W50-25
- Guide Width : 50 MM
- Max Load : 25 KG
- Pitch : 95 MM
- Straightness : 0.05 / 300 MM
- Recommended speed : ≤ 2 M/s
- Input Torque : ≤ 6.5 N.M

■ Customized Length : Up to 6 meters

* Length of 50mm increase and decrease, such as 1000mm, 1050mm, 1100mm...

- Belt Spec. : PU-5M-20(STD)
- Synchronous Wheel Spec. : STD5M-19Z
- Applicable Motor and Mounting Way

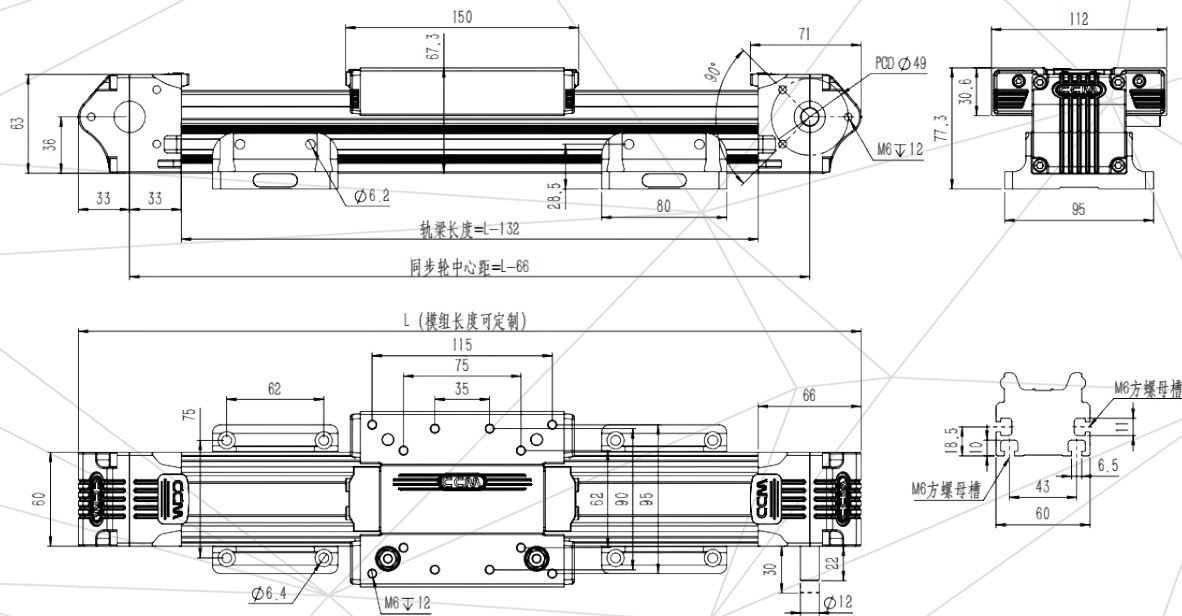
- Stepper Motor: Nema 23 (Direct Connection/Speed Reducer Set) ; Nema 34 (DC/Speed Reducer Set)
- Servo Motor: 750W (Direct Connection) ; 200W/400W (DC/Speed Reducer Set)



Model		W50-25
Carriage Parameter	Fx max (N)	500
	Fy max (N)	655
	Fz max (N)	762
	Mx max (N.M)	17.5
	My max (N.M)	30.5
	Mz max (N.M)	13.1
最大负载系数 (Max Load Factor) = $\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$		
* The maximum load coefficient is the coefficient of the linear module's operating life of 10000KM, which is the final basis for linear module selection. (It needs to consider the force and torque generated by acceleration in single or multiple-axis)		

W Series

■ Dimensions (Unit : mm)



* Suggested length=Effective stroke+310MM

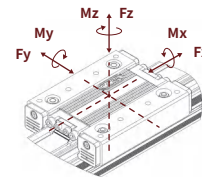
- Model : W60-35
- Guide Width : 60 MM
- Max Load : 35 KG
- Pitch : 95 MM
- Straightness : 0.05 / 300 MM
- Recommended speed : ≤ 2 M/s
- Input Torque : ≤ 8.5 N.M

- Customized Length : Up to 6 meters

* Length of 50mm increase and decrease, such as 1000mm, 1050mm, 1100mm...

- Belt Spec. : PU-5M-20(STD)
- Synchronous Wheel Spec. : STD5M-19Z
- Applicable Motor and Mounting Way

- I. Stepper Motor: Nema 23 (Direct Connection/Speed Reducer Set) ;
Nema 34 (DC/Speed Reducer Set)
- II. Servo Motor: 750W (Direct Connection) ;
200W/400W (DC/Speed Reducer Set)



Model		W60-35
Carriage Parameter	Fx max (N)	515
	Fy max (N)	1001
	Fz max (N)	1164
	Mx max (N.M)	32.6
	My max (N.M)	55.3
	Mz max (N.M)	23.8

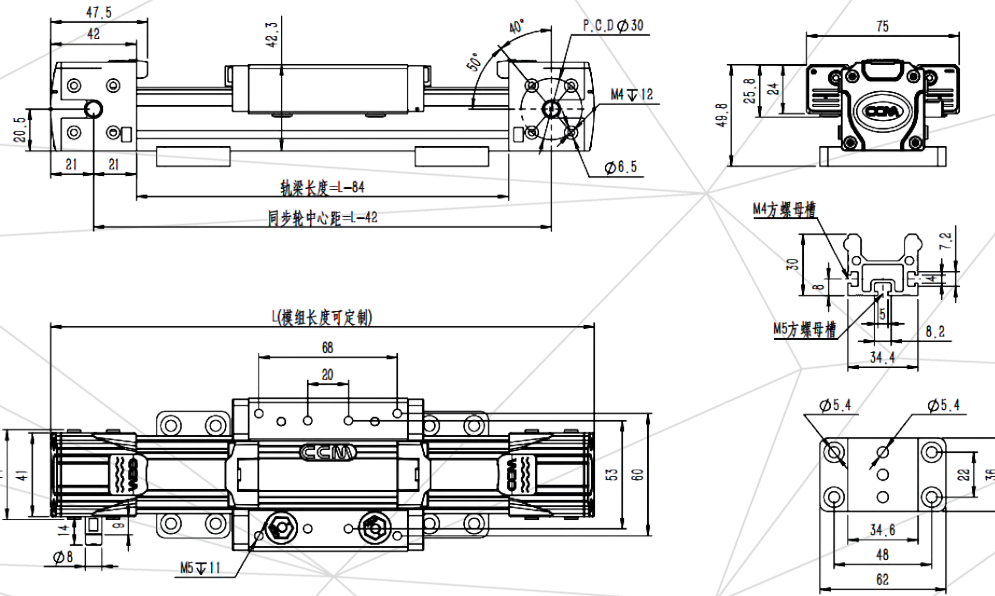
$$\text{最大负载系数 (Max Load Factor)} = \frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

- ♦ The maximum load coefficient is the coefficient of the linear module's operating life of 10000KM, which is the final basis for linear module selection.(It needs to consider the force and torque generated by acceleration in single or multiple-axis)

W35

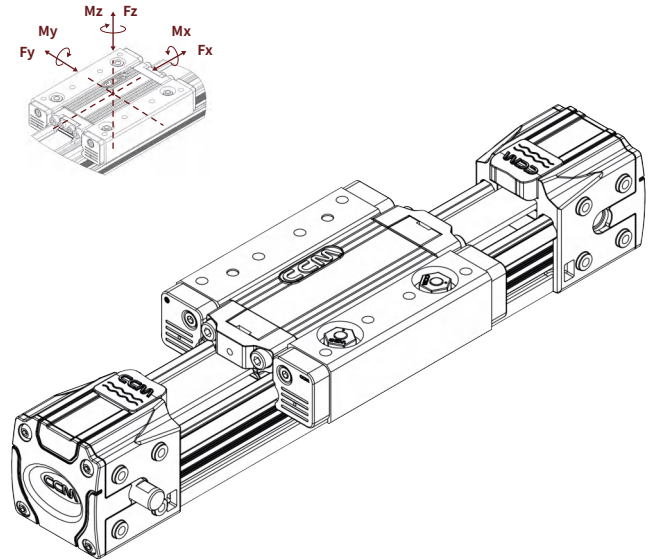
W Series

■ Dimensions (Unit : mm)



*Rail beam length is customized, the unit is millimeter, such as GL800, GL1000, GL1200....

- Model : W35
- Guide Width : 35 MM
- Max Load : 3 KG
- Pitch : 63 MM
- Straightness : 0.03 / 300 MM
- Recommended speed : ≤ 0.8 M/s
- Input Torque : ≤ 0.8 N.M
- Customized Length : Up to 1.5 meters
 - * Length of 50mm increase and decrease, such as 1000mm, 1050mm, 1100mm...
- Belt Spec. : PU-3M-15(Stainless Steel)
- Synchronous Wheel Spec. : HTD3M-21Z
- Applicable Motor and Mounting Way
 - Stepper Motor: Nema 17 (Direct Connection) ; Nema 23 (DC)
 - Servo Motor: 100W (Direct Connection)



Model		W35
Carriage Parameter	Fx max (N)	90
	Fy max (N)	180
	Fz max (N)	210
	Mx max (N.M)	4
	My max (N.M)	4.8
	Mz max (N.M)	2.1

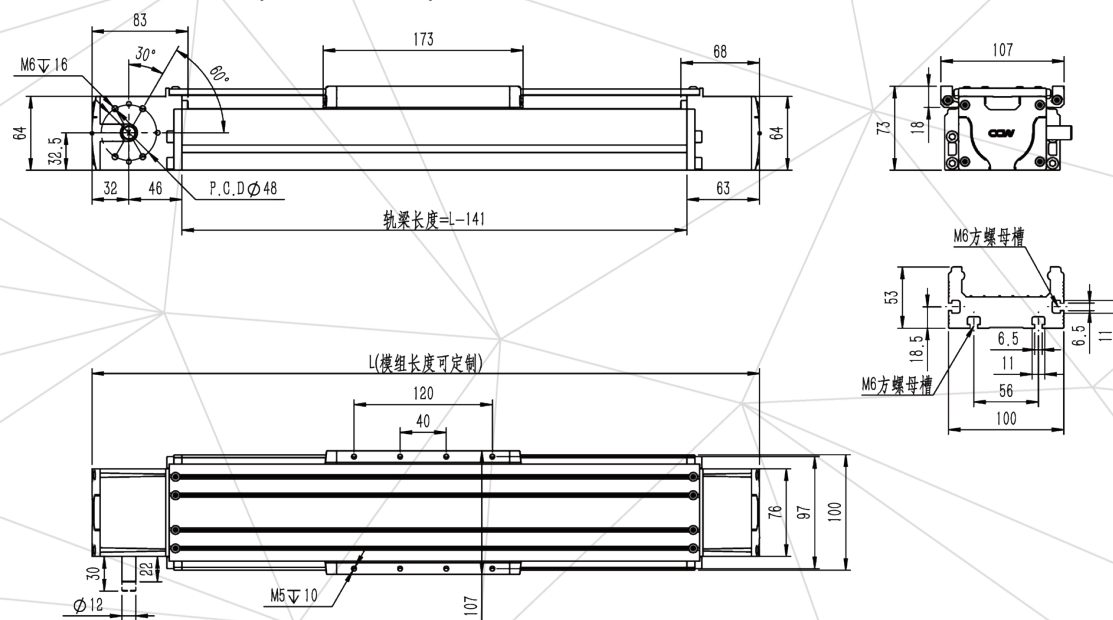
$$\text{最大负载系数 (Max Load Factor)} = \frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

♦ The maximum load coefficient is the coefficient of the linear module's operating life of 10000KM, which is the final basis for linear module selection. (It needs to consider the force and torque generated by acceleration in single or multiple-axis)

W100

W Series

■ Dimensions (Unit : mm)



*Rail beam length is customized, the unit is millimeter, such as GL1000, GL1200, GL1400....

- Model : W100
- Guide Width : 100MM
- Max Load : 30 KG
- Pitch : 125 MM
- Straightness : 0.05 / 300 MM
- Recommended speed : 0.5~1.5 M/s
- Input Torque : ≤ 4.5 N.M

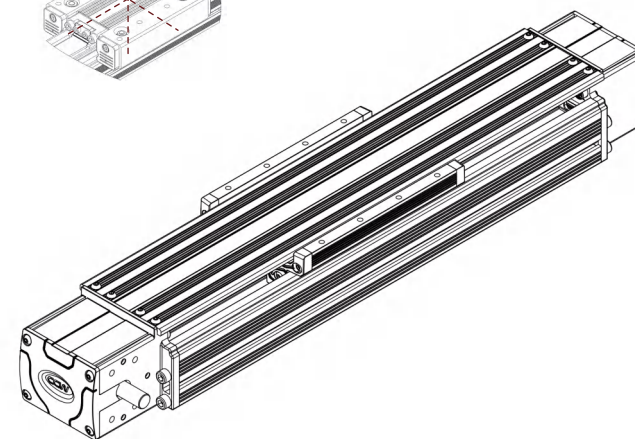
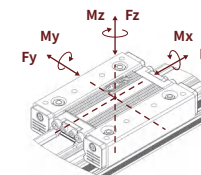
■ Customized Length : Up to 6 meters

* Length of 50mm increase and decrease, such as 1000mm, 1050mm, 1100mm...

- Belt Spec. : PU-5M-33(STD)
- Synchronous Wheel Spec. : HTD-K5M-25Z
- Applicable Motor and Mounting Way

I. Stepper Motor: Nema 23 (Direct Connection/Speed Reducer Set) ;
Nema 34 (DC/Speed Reducer Set)

II. Servo Motor: 400W (or 200W/750W)

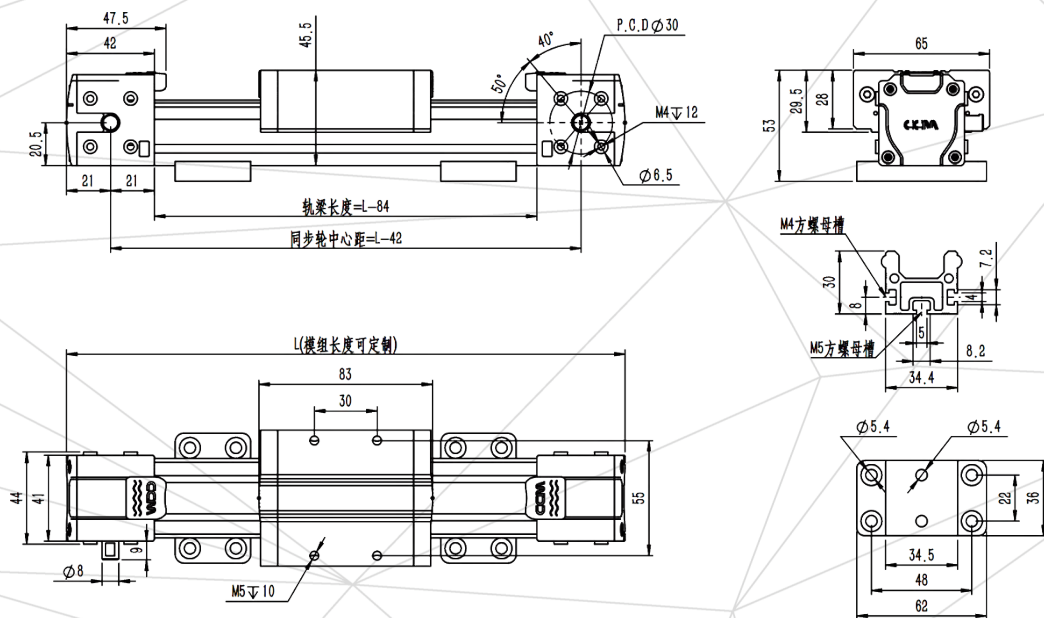


Model		W100
Carriage Parameter	Fx max (N)	650
	Fy max (N)	1000
	Fz max (N)	1000
	Mx max (N.M)	38
	My max (N.M)	50
	Mz max (N.M)	25
最大负载系数 (Max Load Factor) = $\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$		
• The maximum load coefficient is the coefficient of the linear module's operating life of 10000KM, which is the final basis for linear module selection. (It needs to consider the force and torque generated by acceleration in single or multiple-axis)		

WH35

WH Series

■ Dimensions (Unit : mm)



*Rail beam length is customized, the unit is millimeter, such as GL800, GL1000, GL1200....

■ Model : WH35

■ Guide Width : 35 MM

■ Max Load : 3 KG

■ Pitch : 63 MM

■ Straightness : 0.03 / 300 MM

■ Recommended speed : 0.3~1.2M/S

■ Input Torque : ≤1 N.M

■ Customized Length : Up to 1.5 meters

* Length of 50mm increase and decrease, such as 1000mm, 1050mm, 1100mm...

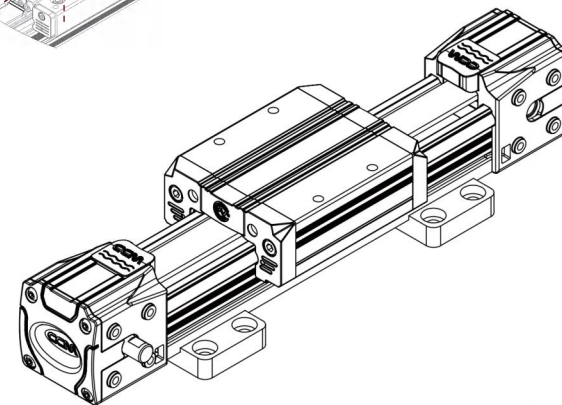
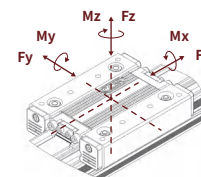
■ Belt Spec. : PU-3M-15(Stainless Steel)

■ Synchronous Wheel Spec. : HTD3M-21Z

■ Applicable Motor and Mounting Way

I. Stepper Motor: Nema 17 (Direct Connection) ; Nema 23 (DC)

II. Servo Motor: 100W (Direct Connection)



Model		WH35
Carriage Parameter	Fx max (N)	90
	Fy max (N)	250
	Fz max (N)	210
	Mx max (N.M)	8.1
	My max (N.M)	9.6
	Mz max (N.M)	4.2

$$\text{最大负载系数 (Max Load Factor)} = \frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

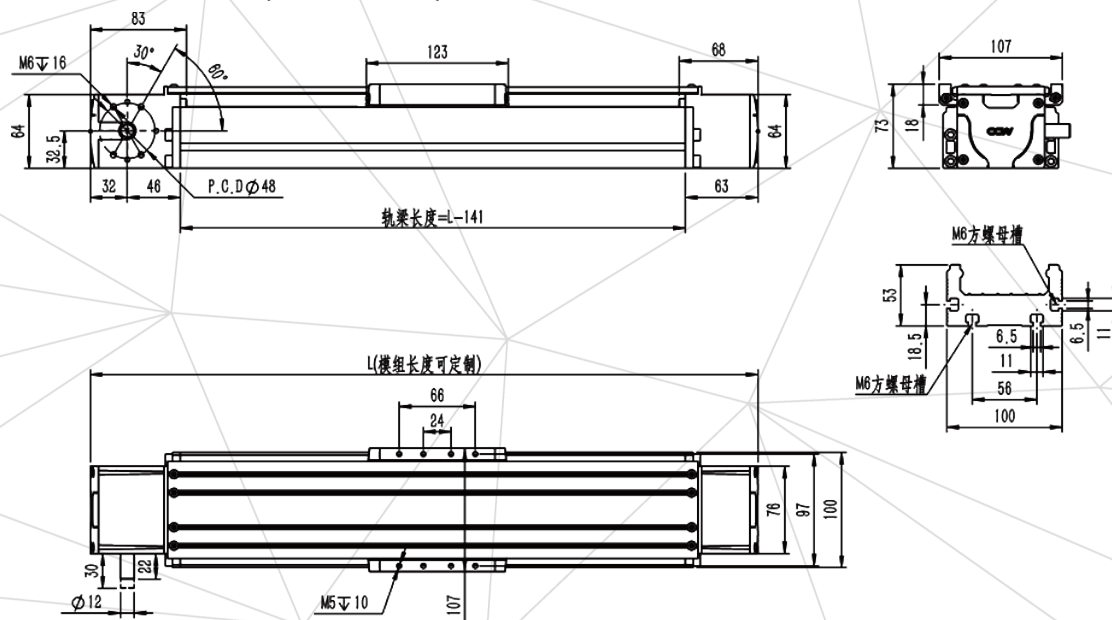
♦ The maximum load coefficient is the coefficient of the linear module's operating life of 10000KM, which is the final basis for linear module selection. (It needs to consider the force and torque generated by acceleration in single or multiple-axis)

For sliding linear module, the components of slider is made from polymer composite material, which needs to avoid high temperature working environment to cause unusual slide.

WH100

WH Series

■ Dimensions (Unit : mm)



*Rail beam length is customized, the unit is millimeter, such as GL1000, GL1200, GL1400....

■ Model : WH100

■ Guide Width : 100 MM

■ Max Load : 30 KG

■ Pitch : 125 MM

■ Straightness : 0.05 / 300 MM

■ Recommended speed : 0.5~1.5M/S

■ Input Torque : ≤4.5 N.M

■ Customized Length : Up to 6 meters

* Length of 50mm increase and decrease, such as 1000mm, 1050mm, 1100mm....

■ Belt Spec. : PU-K5M-33

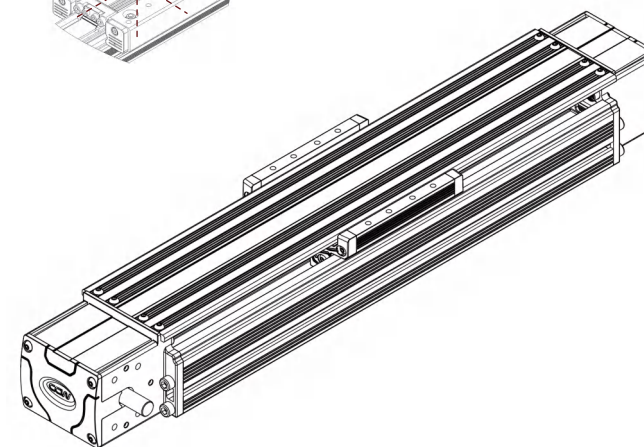
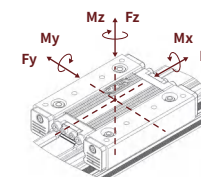
■ Synchronous Wheel Spec. : HTD-K5M-25Z

■ Applicable Motor and Mounting Way

I. Stepper Motor: Nema 23 (Direct Connection/Speed Reducer Set) ;
Nema 34 (DC/Speed Reducer Set)

II. Servo Motor: 400W (or 200W/750W)

For sliding linear module, the components of slider is made from polymer composite material, which needs to avoid high temperature working environment to cause unusual slide.



Model		WH100
Carriage Parameter	Fx max (N)	650
	Fy max (N)	500
	Fz max (N)	500
	Mx max (N.M)	38
	My max (N.M)	50
	Mz max (N.M)	30
最大負載係數 (Max Load Factor) = $\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$		
• The maximum load coefficient is the coefficient of the linear module's operating life of 10000KM, which is the final basis for linear module selection. (It needs to consider the force and torque generated by acceleration in single or multiple-axis)		

Auxiliary Parts

A Motor Brackets



40-W40 45
42-W40 45



57-W4045
60-W4045



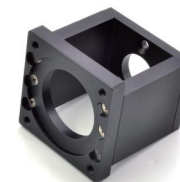
57-W5060
60-W5060



86-W5060
—



42-H35
—



80-W5060
90-W5060



H80 Motor Mount
—

B Speed Reducers



57-W4050
60-W4050



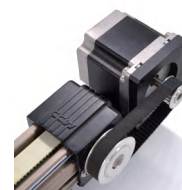
57-W50
57-W60



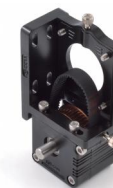
60-W50
60-W60



86-W50
86-W60



57-W45A
—



Nema 23
Central Speed Reducer Set
Nema 34
Central Speed Reducer Set



400W Servo
Central Speed Reducer Set
—

C Structural Attachments



Rail Mount



T shape connector



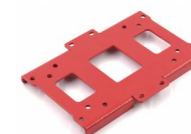
L shape connector



H80 Rail Mount



Coupler



Double Slider
Connecting Plate



Tripod

D Other Parts



Optical Sensor



Proximity Sensor



Synchronous belt



Stepper Motor



Servo Motor

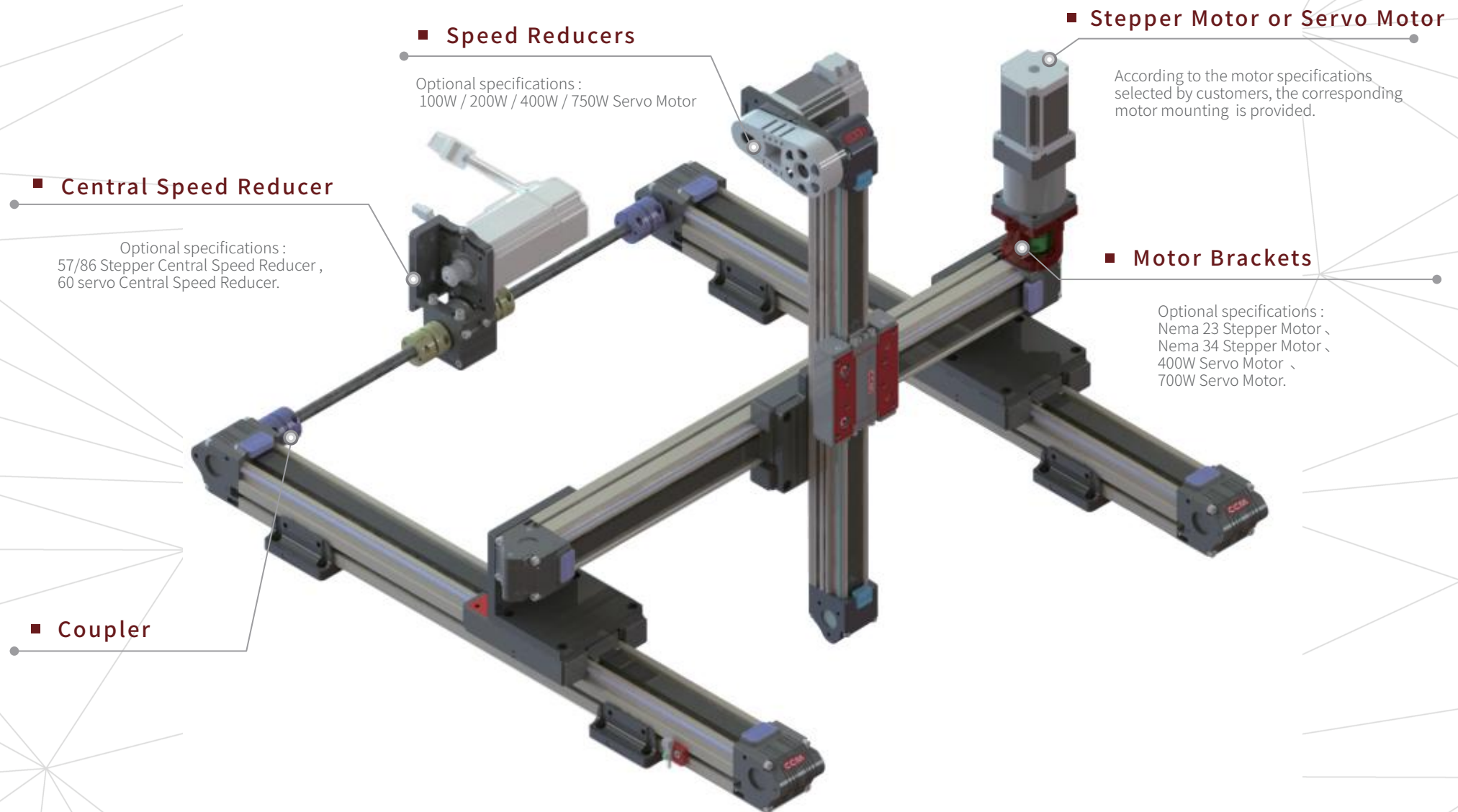


Planetary Reducer



PLC Singlechip

Introduction to Fittings Assembly



■ L shape connector

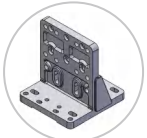
Optional specifications : L1 / L2 / L3 / L4 / Ly Shape connector



A. L 连接板
A. L Shape connector



B. Ly 连接板
B. Ly Shape connector



C. Ly2 连接板
C. Ly2 Shape connector

■ T shape connector

Optional specifications : T1 / T2 / T3 / T4 Shape connector



A. T shape connector



B. Double Slider Connecting Plate

■ Rail Mount

Optional specifications : DJ40 、 DJ45 、 DJ50 、 DJ60.



* 压脚套件 Rail Mount

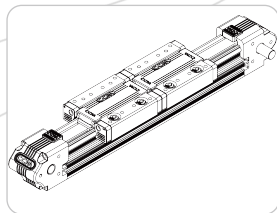
■ Proximity Sensor

Optional specifications: NPN(NO) 、 NPN(NC) 、 PNP(NO) 、 PNP (NC)

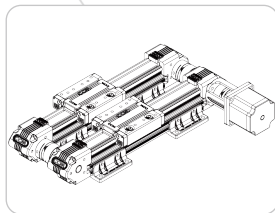
■ Optical Sensor

Optional specifications : NPN 、 PNP .

Common Structures



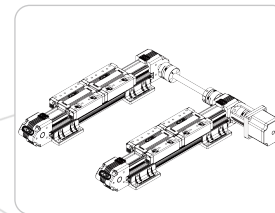
— NO.1 01 —



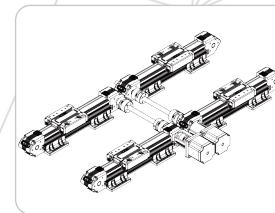
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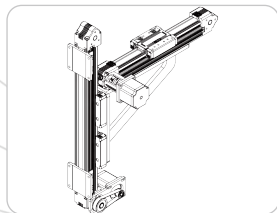
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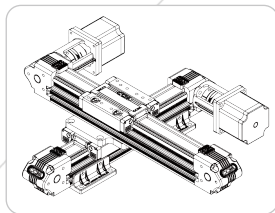
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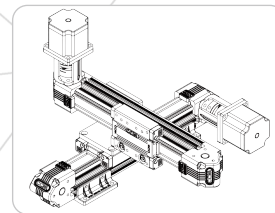
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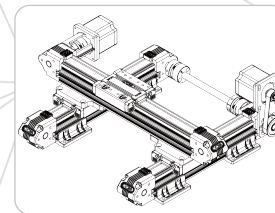
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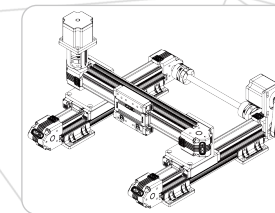
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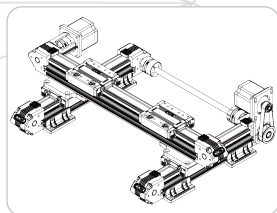
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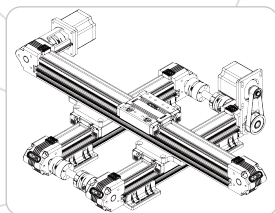
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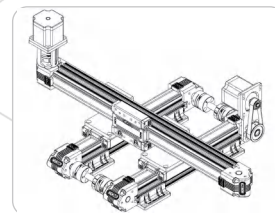
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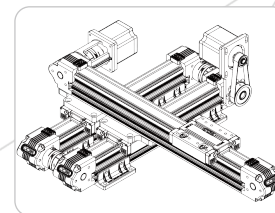
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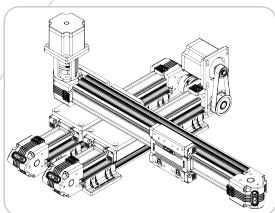
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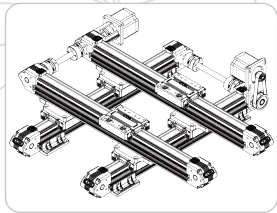
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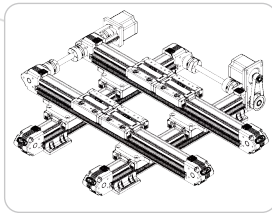
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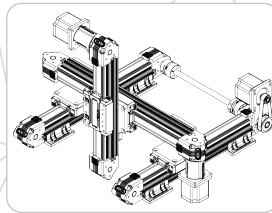
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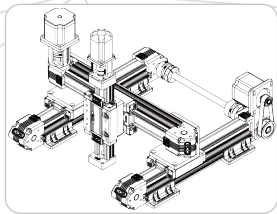
NO.2 11



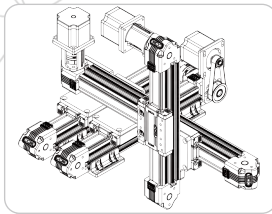
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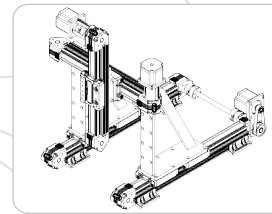
NO.3 01



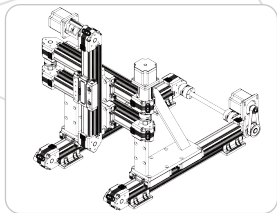
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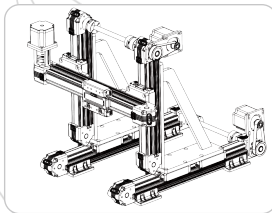
NO.3 03



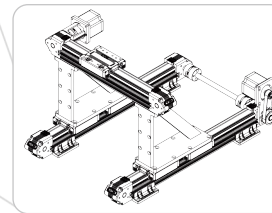
NO.3 04



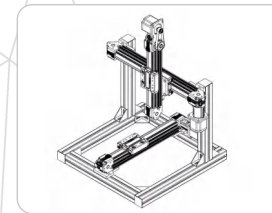
NO.3 05



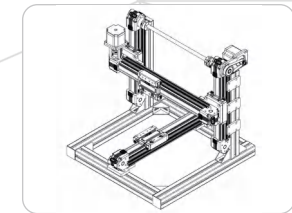
NO.3 06



NO.3 07



NO.3 08

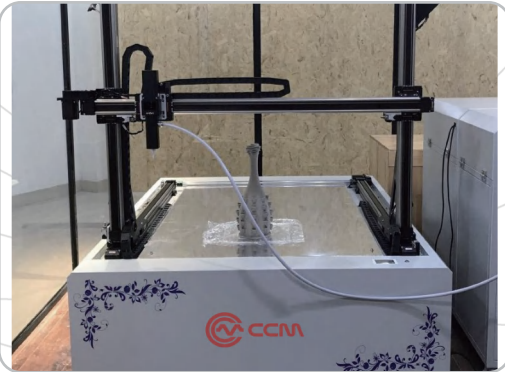


NO.3 09

- Versatile design for various configuration,the length of linear rail can be customized as per your requests.
- We provide high quality,protable and long service life linear rail,which can achieve mounting multi-carriages flexibly and maintenance-free.
- There are nut grooves on the aluminium profile to fix the linear rail and others.
- Multi-applications rail mount can be conveniently used to connect the linear rail and finish mounting the linear modules in the short time.
- Special design of the carriage to achieve to adjusting the tension of carriage and belt easily and quickly.

Examples of application

Time-lapse tracking dolly , laser cutting and engraving machines , CNC machines , glue dispenser , 3D printing , medical devices , spray machinery , lab testing ,optics inspection , factory conveyors ,etc



3D Printing

Applicable module structure:

XYZ Linear Module 、
XYZ Gantry Robot 、
Aluminum Frame XYZ Linear Stage ...



Industrial Adhesive

Applicable module structure:

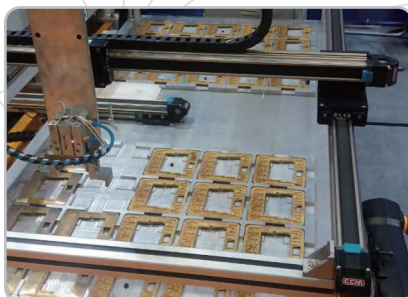
XY Linear Module 、
XYZ Gantry Robot 、
Aluminum Frame XYZ Linear Stage ...



Intelligent Warehouse Storage

Applicable module structure:

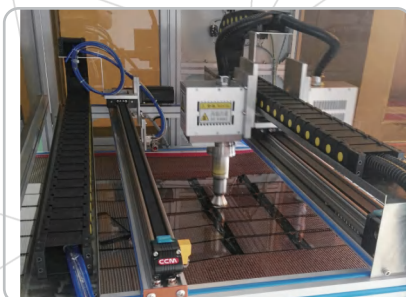
XY Linear Module 、
XYZ Gantry Robot 、
Aluminum Frame XYZ Linear Stage ...



Industrial Machine

Applicable module structure:

XY Linear Stage 、
XYZ Linear Stage ...



Plasma cleaning machine

Applicable module structure:

Parrallel Axis Linear Module 、
XY Linear Stage



Vacuum packing

Applicable module structure:

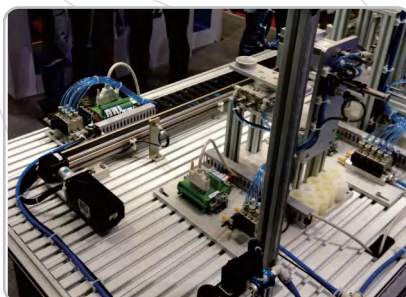
XY Linear Stage



Photography

Applicable module structure:

Single module、
Parallel Axis Linear Module ...



industrial production

Applicable module structure:

XYZ Linear Stage 、
XYZ Gantry Robot ...



New energy manufacturing

Applicable module structure:

Single module、
Parallel Axis Linear Module ...



TV Wall

Applicable module structure:

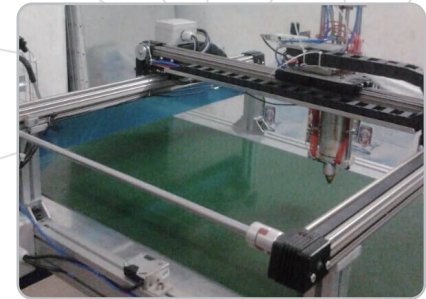
Single module,
Parallel Axis Linear Module ...



Automatic sewing machine

Applicable module structure:

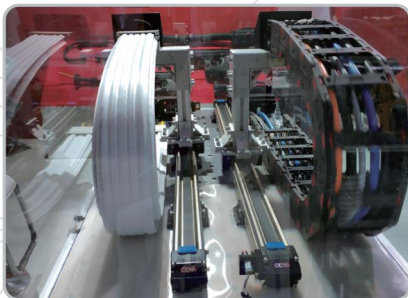
Single module



Glue dispensing

Applicable module structure:

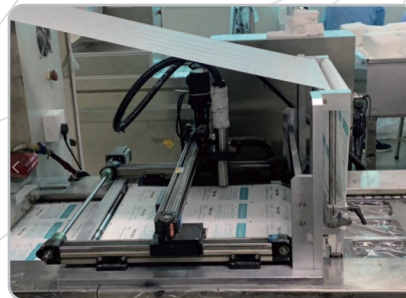
Single module,
Parallel Axis Linear Module ...



Transmission feeding

Applicable module structure:

XY Linear Stage,
XYZ Linear Stage ...



Automatic spurting

Applicable module structure:

Aluminum Frame XYZ Linear Stage,
XYZ Linear Stage ...



Multi-media

Applicable module structure:

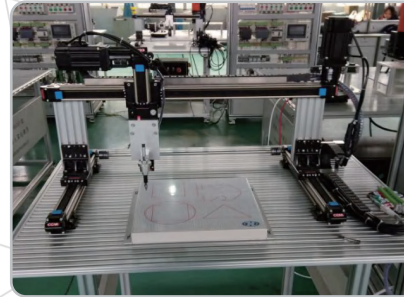
Single module,
Parallel Axis Linear Module ...



Glue dispenser machine

Applicable module structure:

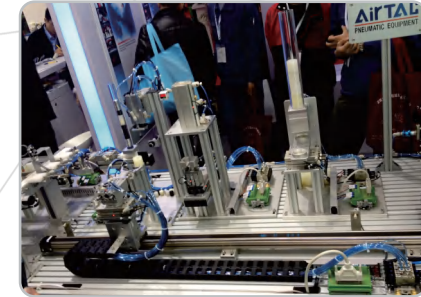
XY Linear Stage,
XYZ Linear Stage ...



Laser Machine

Applicable module structure:

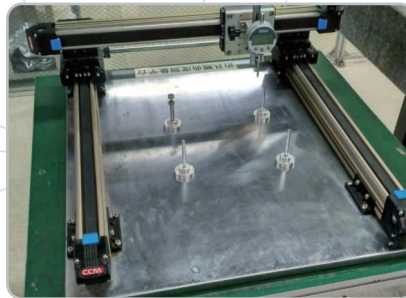
XYZ Gantry Robot, XYZ Gantry System ...



Teaching equipment

Applicable module structure:

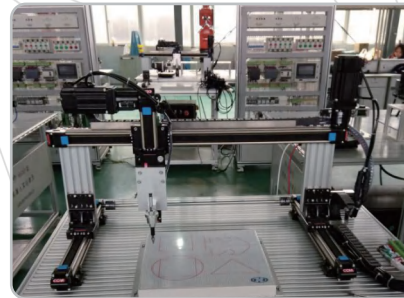
Single Module,
XY Linear Stage,
XYZ Linear Stage



Measuring Equipment

Applicable module structure:

XY Linear Stage,
XYZ Linear Stage ...



industrial production

Applicable module structure:

XY Linear Stage,
XYZ Linear Stage ...



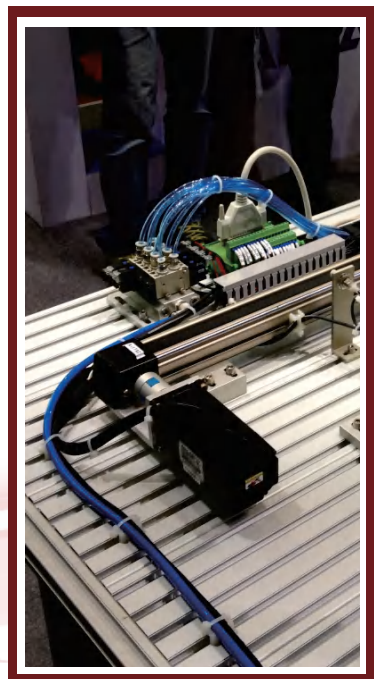
Agricultural Automation

Applicable module structure:

Single module,
Parallel Axis Linear Module ...



Low noise linear modules



Website



Express

CCM Automation Technology Co.,Ltd.

- Website : www.ccmrails.com (English Version)
- Email : sales@ccm-rails.com