



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. | |



H Series

Linear Modules

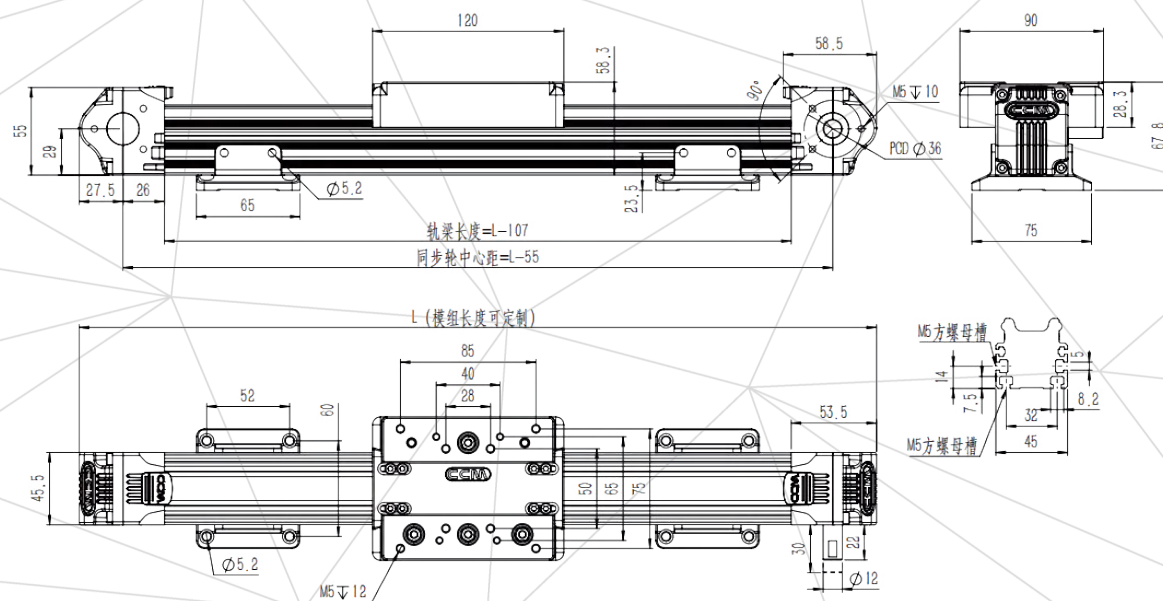


Specification	Max Load	Guide Width	Pitch	Torque	Positional Repeatability
H45-20	20 KG	45 MM	80 MM	$\leq 3 \text{ N.M}$	$\leq 0.05 \text{ MM}$
H60-40	40 KG	60 MM	95 MM	$\leq 8.5 \text{ N.M}$	$\leq 0.05 \text{ MM}$
H80-50	50 KG	80 MM	190 MM	$\leq 13.5 \text{ N.M}$	$\leq 0.05 \text{ MM}$

H45-20

H Series

■ Dimensions (Unit : mm)



* Suggested length=Effective stroke+250MM

- Model : H45-20
- Guide Width : 45 MM
- Max Load : 20KG
- Pitch : 80 MM
- Straightness : 0.05 / 300 MM
- Recommended speed : ≤ 1.5 M/s
- Input Torque : ≤ 3 N.M

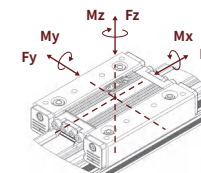
- Customized Length : Up to 4 meters

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

- Belt Spec. : PU-5M-15(Stainless Steel)
- Synchronous Wheel Spec. : STD5M-16Z
- 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)

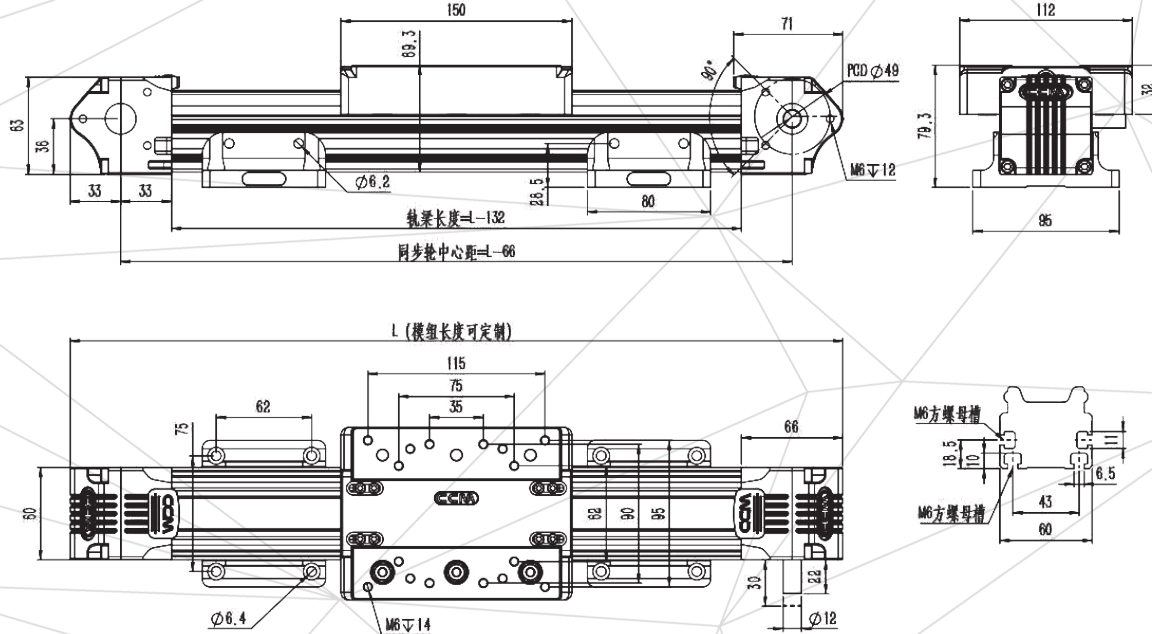


Model		H45-20
Carriage Parameter	Fx max (N)	200
	Fy max (N)	983
	Fz max (N)	1142
	Mx max (N.M)	21.7
	My max (N.M)	54.3
	Mz max (N.M)	23.3
$\text{最大负载系数 (Max Load Factor)} = \frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$		
• 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)		

H60-40

H Series

■ Dimensions (Unit : mm)



* Suggested length=Effective stroke+310MM

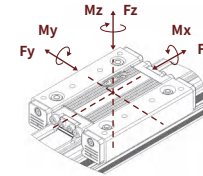
- Model : H60-40
- Guide Width : 60 MM
- Max Load : 40 KG
- Pitch : 95 MM
- Straightness : 0.05 / 300 MM
- Recommended speed : ≤ 2 M/s
- Input Torque : ≤ 8.5 N.M

■ 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

- 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)



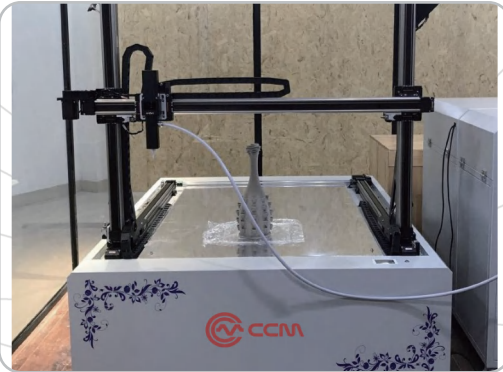
Model		H60-40
Carriage Parameter	$F_{x\max}$ (N)	500
	$F_{y\max}$ (N)	1502
	$F_{z\max}$ (N)	1746
	$M_{x\max}$ (N.M)	48.9
	$M_{y\max}$ (N.M)	124
	$M_{z\max}$ (N.M)	53.3

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

* 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)

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:

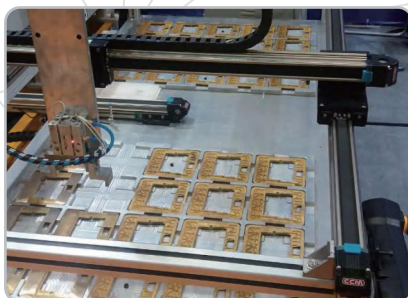
XY Linear Module 、
XYZ Gantry Robot 、
Aluminum Frame XYZ Linear Stage ...



Intelligent Warehouse Storage

Applicable module structure:

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



Industrial Machine

Applicable module structure:

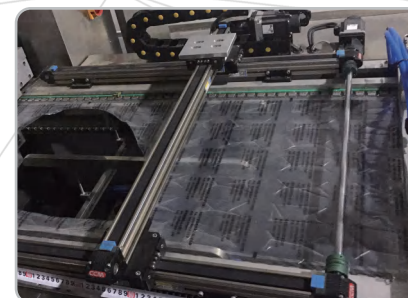
XY Linear Stage 、
XYZ Linear Stage ...



Plasma cleaning machine

Applicable module structure:

Parrallel Axis Linear Module 、
XY Linear Stage



Vacuum packing

Applicable module structure:

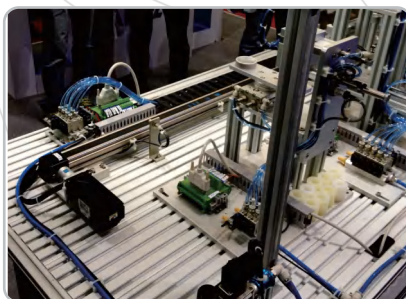
XY Linear Stage



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:

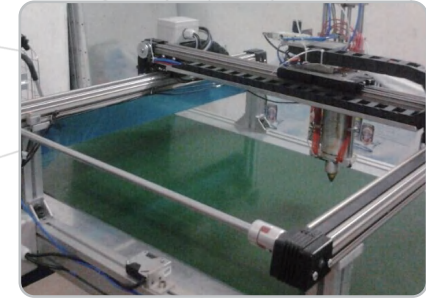
Single module,
Parallel Axis Linear Module ...



Automatic sewing machine

Applicable module structure:

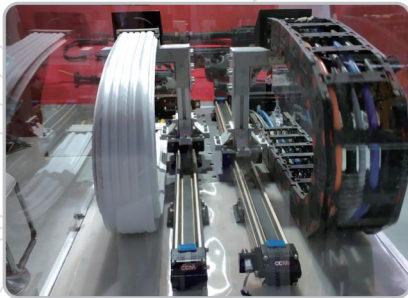
Single module



Glue dispensing

Applicable module structure:

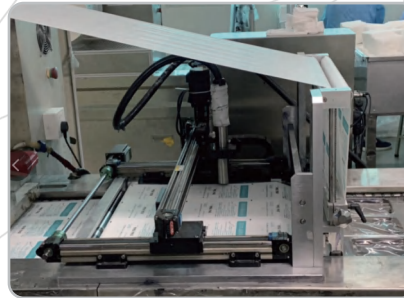
Single module,
Parallel Axis Linear Module ...



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:

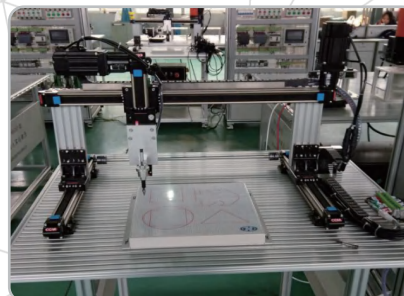
Single module,
Parallel Axis Linear Module ...



Glue dispenser machine

Applicable module structure:

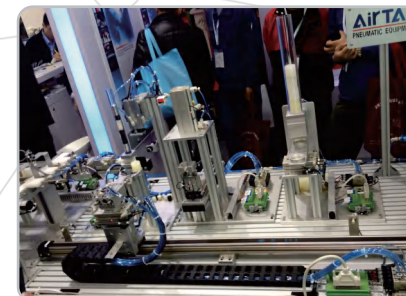
XY Linear Stage,
XYZ Linear Stage ...



Laser Machine

Applicable module structure:

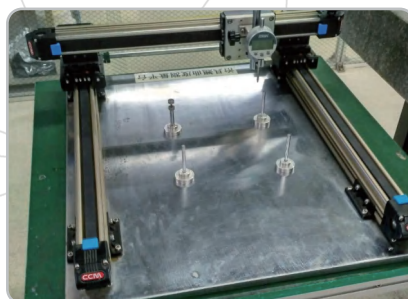
XYZ Gantry Robot, XYZ Gantry System ...



Teaching equipment

Applicable module structure:

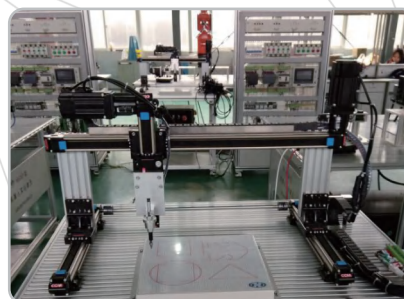
Single Module,
XY Linear Stage,
XYZ Linear Stage



Measuring Equipment

Applicable module structure:

XY Linear Stage,
XYZ Linear Stage ...



industrial production

Applicable module structure:

XY Linear Stage,
XYZ Linear Stage ...



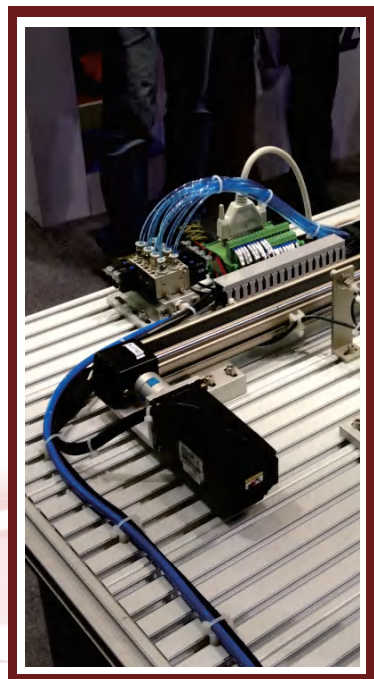
Agricultural Automation

Applicable module structure:

Single module,
Parallel Axis Linear Module ...



Low noise linear modules



Website



Express

CCM Automation Technology Co.,Ltd.

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