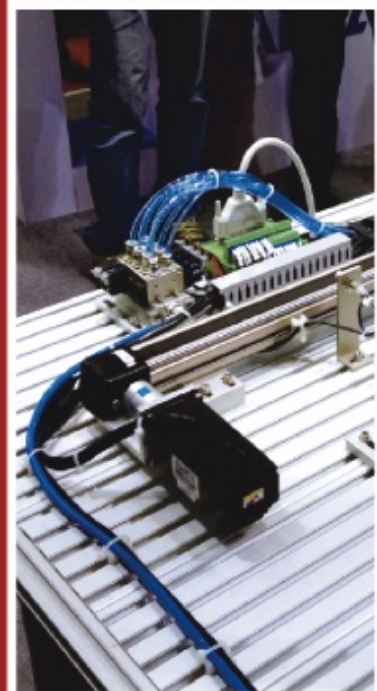


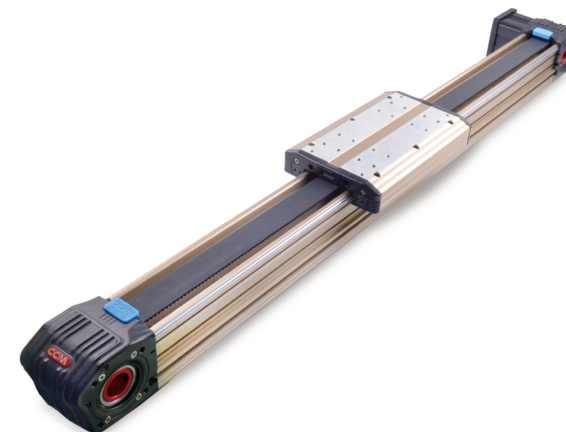


Low noise linear modules



L Series

Synchronized Belt Extended Slider Module

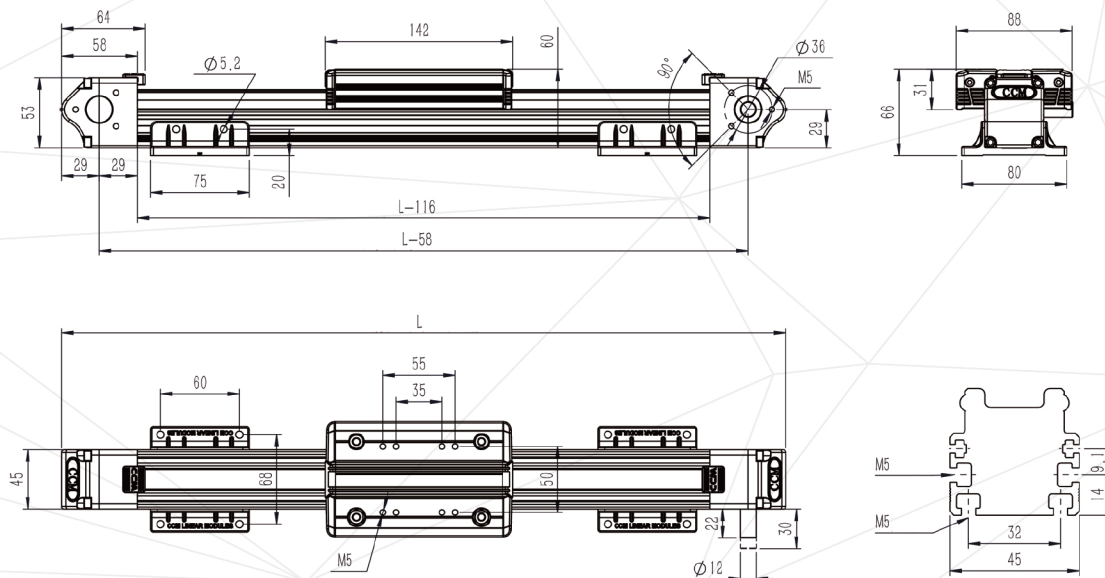


Specification	Max Load	Guide Width	Pitch	Torque	Positional Repeatability
L45-15	15 KG	45 MM	80 MM	$\leq 3 \text{ N.M}$	$\leq 0.05 \text{ MM}$
L50-25	25 KG	50 MM	95 MM	$\leq 6.5 \text{ N.M}$	$\leq 0.05 \text{ MM}$
L60-35	35 KG	60 MM	110 MM	$\leq 8.5 \text{ N.M}$	$\leq 0.05 \text{ MM}$
L80-60	60 KG	80 MM	190MM	$\leq 13.5 \text{ N.M}$	$\leq 0.05 \text{ MM}$

L45-15

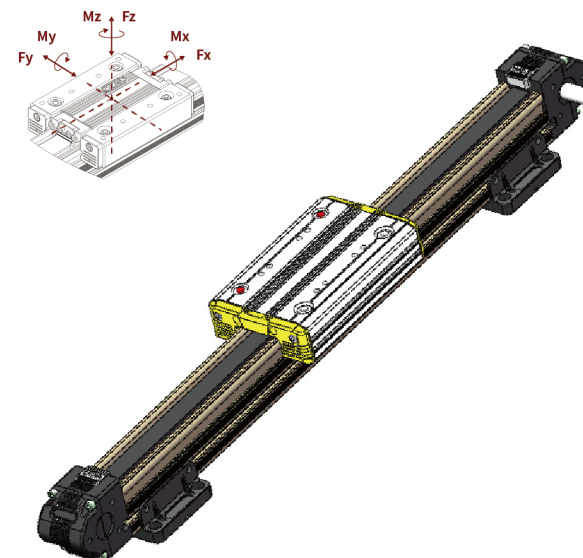
L Series

■ Dimensions (Unit : mm)



*Suggested length=Effective stroke+280MM

- Model : L45-15
 - Guide Width : 45 MM
 - Max Load : 15 KG
 - Pitch : 75 MM
 - Straightness : 0.05 / 300 MM
 - Recommended speed : ≤ 1.5 M/s
 - Input Torque : ≤ 3 N.M
 - Customized Length : Up to 6 meters
 - Belt Spec. : PU-5M-15 (STD)
 - 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		L45-15
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

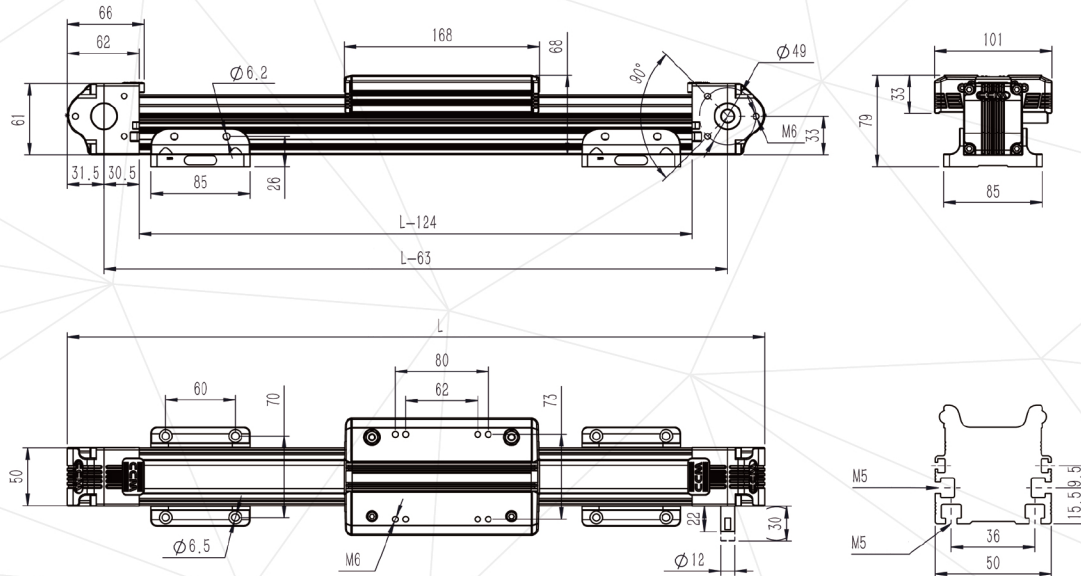
$$\text{Max. Load} = \frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

- 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)

L50-25

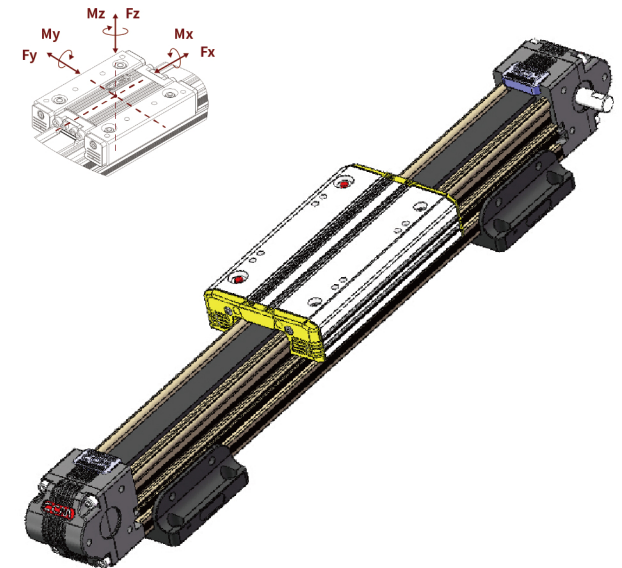
L Series

■ Dimensions (Unit : mm)



*Suggested length=Effective stroke+330MM

- Model : L50-25
- 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
- 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)

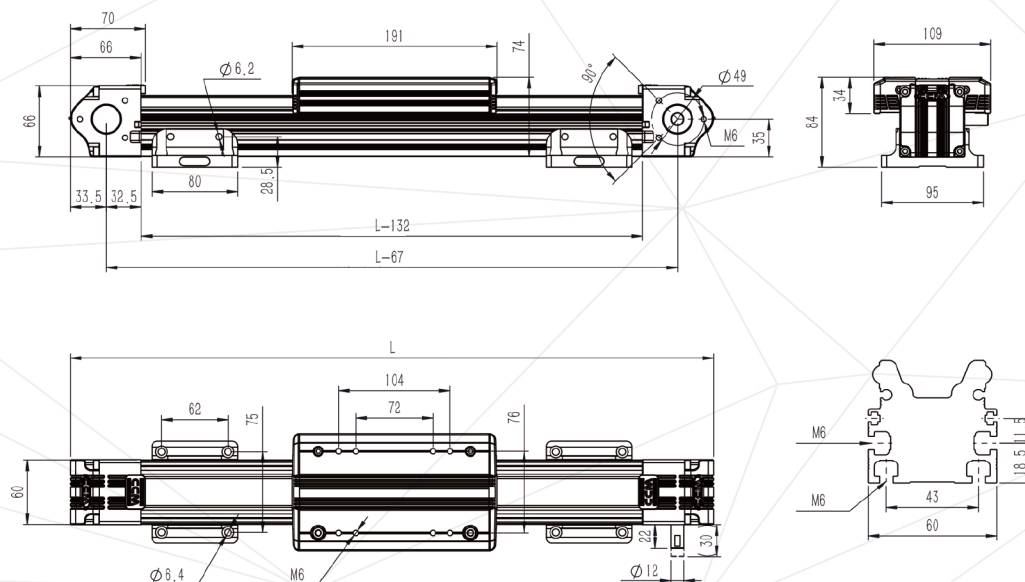


Model		L50-25
Carriage Parameter	Fx max (N)	500
	Fy max (N)	1502
	Fz max (N)	1746
	Mx max (N.M)	26.3
	My max (N.M)	68.5
	Mz max (N.M)	29.5
$\text{Max. Load} = \frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$		
♦ The maximum 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)		

L60-35

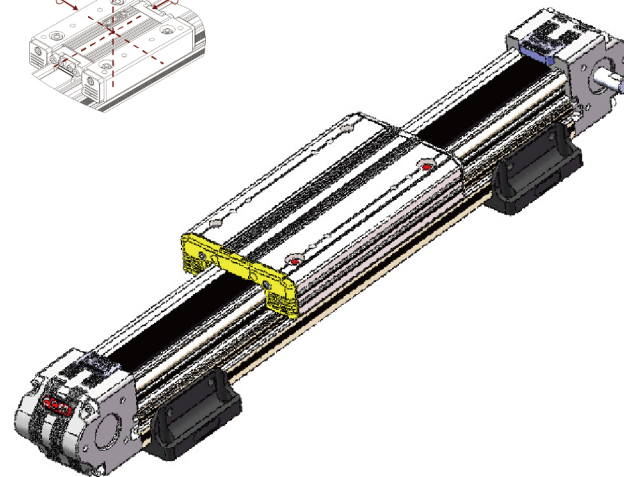
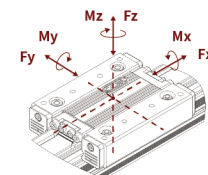
L Series

■ Dimensions (Unit : mm)



*Suggested length=Effective stroke+360MM

- Model : L60-35
- Guide Width : 60 MM
- Max Load : 35 KG
- Pitch : 110 MM
- Straightness : 0.05 / 300 MM
- Recommended speed : ≤ 2 M/s
- Input Torque : ≤ 8.5 N.M
- Customized Length : Up to 6 meters
- Belt Spec. : PU-5M-20 (STD)
- Synchronous Wheel Spec. : STD5M-22Z
- Applicable Motor and Mounting Way :
 - I. Stepper Motor: Nema 23 ;
Nema 34 (Direct Connection / Speed Reducer Set)
 - II. Servo Motor: 750W (Direct Connection) ;
200W/400W(DC/Speed Reducer Set)



Model	L60-35
Fx max (N)	500
Fy max (N)	1502
Fz max (N)	1746
Mx max (N.M)	48.9
My max (N.M)	124
Mz max (N.M)	53.3

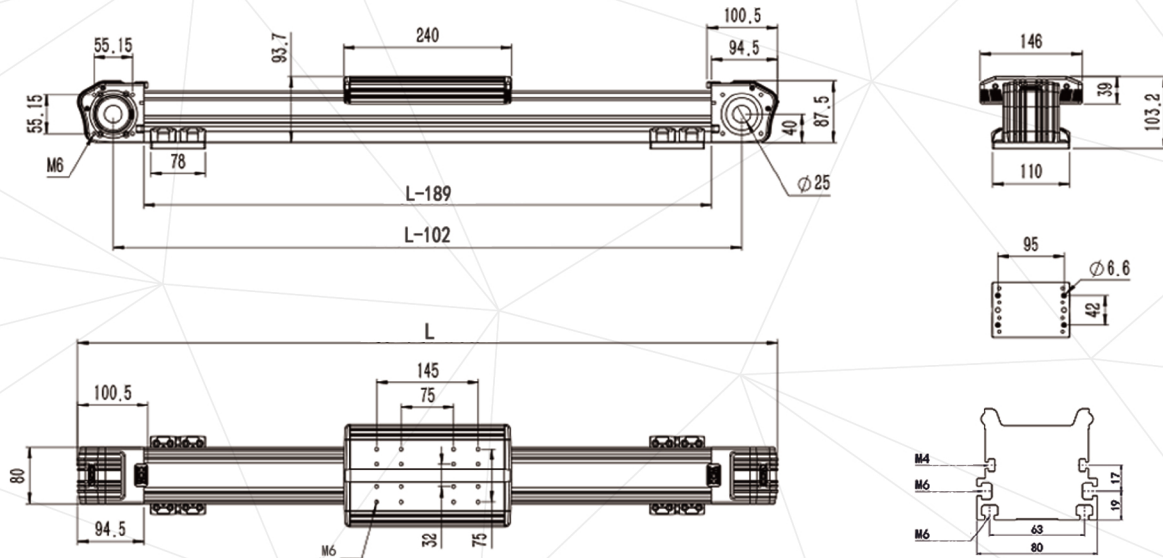
$$\text{Max. Load} = \frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

- ♦ 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)

L80-60

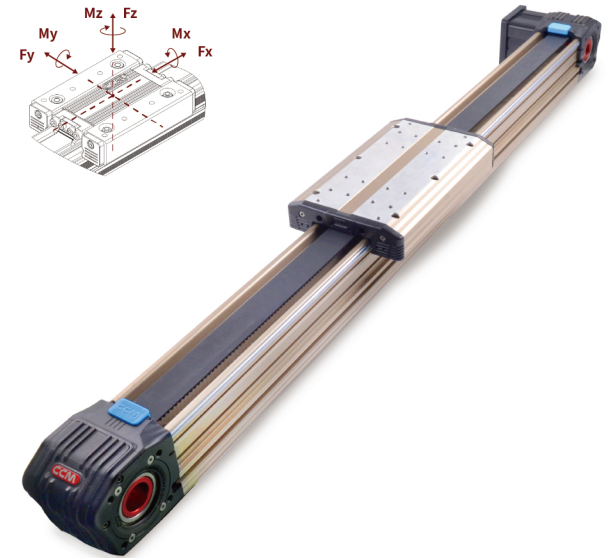
L Series

■ Dimensions (Unit : mm)



*Suggested length=Effective stroke+470MM

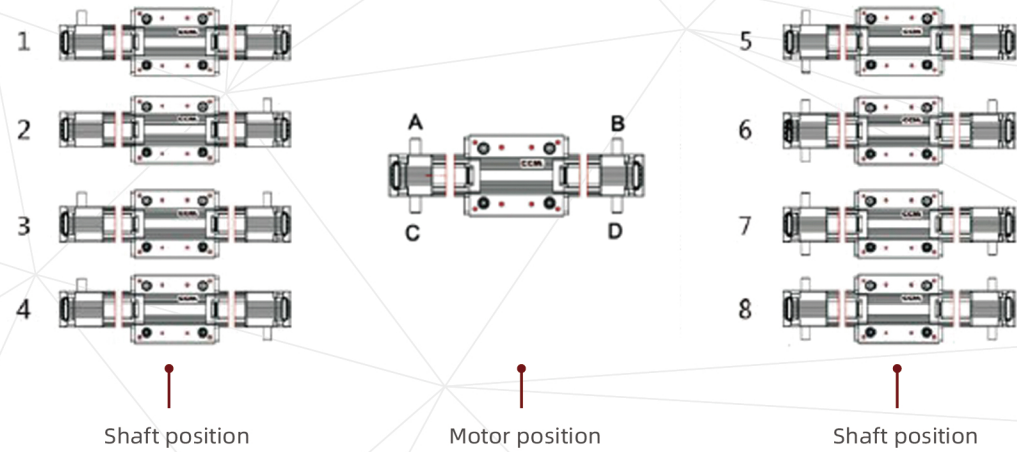
- Model : L80-60
- Guide Width : 80 MM
- Max Load : 60 KG
- Pitch : 190 MM
- Straightness : 0.05 / 300 MM
- Recommended speed : ≤ 2 M/s
- Input Torque : ≤13.5 N.M
- Customized Length : Up to 6 meters
- Belt Spec. : PU-5M-33 (STD)
- Synchronous Wheel Spec. : STD5M-38Z
- Applicable Motor and Mounting Way :
 - I. Stepper Motor: Nema 34 / Nema 42 (Direct Connection)
 - II. Servo Motor: 400W / 750W / 1000W / 1500W (Direct Connection)



Model		L80-60
Carriage Parameter	Fx max (N)	700
	Fy max (N)	2163
	Fz max (N)	2515
	Mx max (N.M)	95.6
	My max (N.M)	228.9
	Mz max (N.M)	98.4
$\text{Max. Load} = \frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$		
♦ 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)		

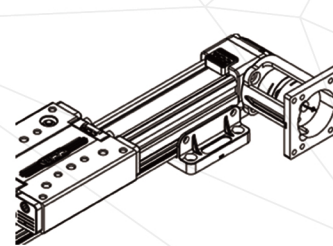
A

Motor Shaft position

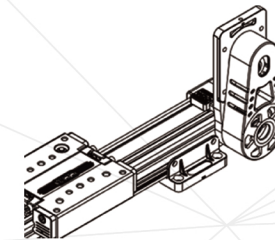


B

Motor Connections



Motor Bracket



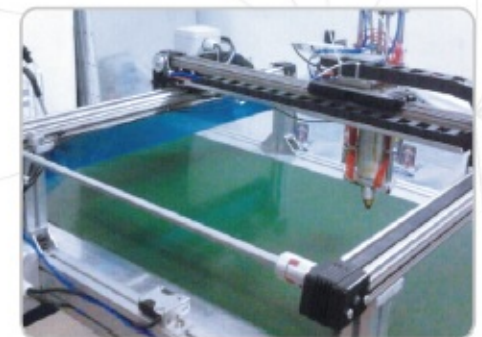
Speed Reducer Set



Agricultural Automation



Plasma cleaning machine



Glue dispensing



Company Profile

CCM Automation Technology Co.Ltd, with design office in HongKong and manufacturing 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. | |

