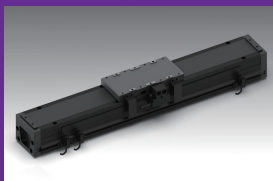


LC

直线电机模组

Linear motor module

LC6



最大行程 (mm)
Max Stroke 1360
最大载重 (KG)
Max Payload 10
重复定位精度
Repeatability(mm) $\pm 0.005/0.001$

LC8



最大行程 (mm)
Max Stroke 2014
最大载重 (KG)
Max Payload 20
重复定位精度
Repeatability(mm) $\pm 0.005/0.001$

LC14



最大行程 (mm)
Max Stroke 1700
最大载重 (KG)
Max Payload 70
重复定位精度
Repeatability(mm) $\pm 0.005/0.001$

LC17



最大行程 (mm)
Max Stroke 1700
最大载重 (KG)
Max Payload 70
重复定位精度
Repeatability(mm) $\pm 0.005/0.001$

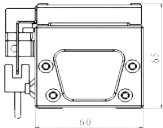
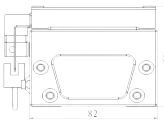
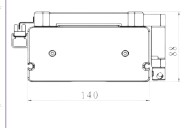
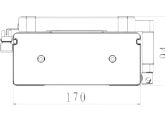
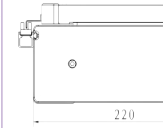
LC22



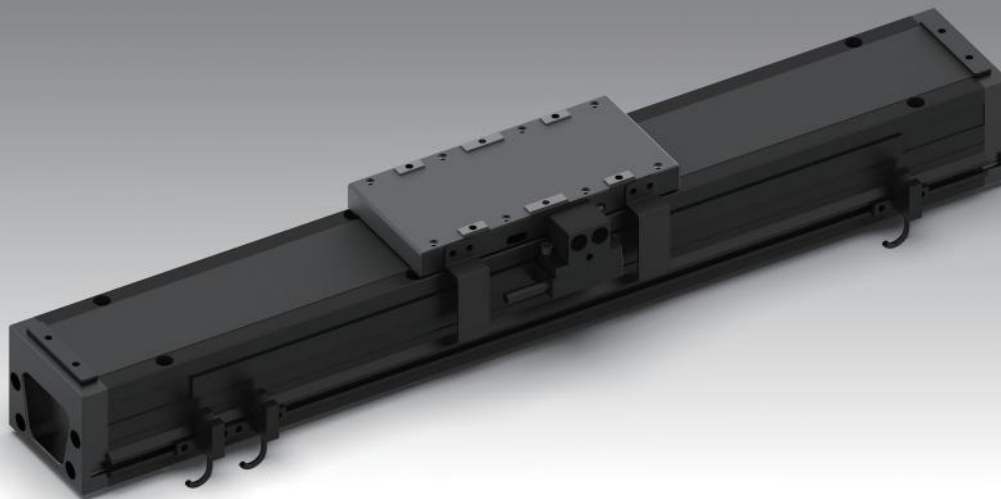
最大行程 (mm)
Max Stroke 1700
最大载重 (KG)
Max Payload 110
重复定位精度
Repeatability(mm) $\pm 0.005/0.001$

参数汇总

Parameter summary

结构型式 structural type	全封闭结构 Totally Enclosed													
规格 Specification	模组型号 Module Model		LC6	LC8	LC14			LC17			LC22			
	电机样式 Motor Style		LC6T1	LC8F3	LC14S1B	LC14S2B	LC14S3B	LC17E1B	LC17E2B	LC17E3B	LC22H1B	LC22H2B	LC22H3B	
	电机尺寸(WxHxL)		28x32.3x96	45x32.3x176	60x40x86	60x40x150	60x40x214	80x40x86	80x40x150	80x40x214	100x40x86	100x40x150	100x40x214	
电机参数 Motor Parameters	电流 Current	连续电流Continuous Current(A)	2.5			4								
		峰值电流Peak Current(A)	10			16								
	推力 Thrust	连续推力Continuous Thrust(N)	38	98	82	164	246	128.4	256.8	384.8	175.2	350.4	525.6	
		峰值推力Peak Thrust(N)	152	392	287	574	861	119.4	898.8	1346.8	613.2	1226.4	1839.6	
	重现精度 Repeat Accuracy	磁栅反馈Magnetic Grid Feedback(um)	+·5											
		光栅反馈Grating Feedback(um)	+·3											
尺寸 Dimensions	极距 Pole Pitch (mm)		20				32							
	截面尺寸(mm)													
驱动器 Driver	品牌 Brand	控制方式 Control Mode	型号 Model				通讯接口 Communication Interface					模拟输入 Analog Input		
		脉冲	FV5-E1-PA3R0/FV5-E1-PA4R5				模拟电压,脉冲 Analog voltage, pulse					1		
		EtherCAT总线	FV5-E1-NA3R0/FV5-E1-NA4R5				EtherCAT,模拟电压,脉冲Analog voltage, pulse					1		
	高创 Googoltech	脉冲	CDHD2S-0032AAP1/CDHD2S-4D52AAP1				模拟电压Analog voltage,脉冲pulse,USB					1		
		EtherCAT总线	CDHD2S-0032AEC2/CDHD2S-4D52AEC2				EtherCAT,模拟电压Analog voltage,脉冲pulse,USB,RS232					2		
	三菱 Mitsubishi	脉冲	MR-J4-40A-RJ001/MR-J4-70A-RJ001				脉冲pulse,USB,modbus RTU					1		
		SSCNETⅢ/H总线	MR-J4-40B-RJ001MR-J4-70B-RJ001				SSCNETⅢ/H,USB					/		
	松下 Panasonic	脉冲	MDDLT35SL/MDDLT45SL				脉冲pulse,USB					/		
EtherCAT总线		MDDLT35BL/MDDLT45BL				EtherCAT,USB					/			

LC6



■ 型号表示方式 Guide for Model Selection

LC6T1 — S640 — M1U0.5 — C 3 — ZG1

滑台数量 Number of sliding carrier	
1	1个滑台(可省略不写) 1 sliding carrier(omissible)
2	2个滑台 2 sliding carriers
3	3个滑台 3 sliding carriers
...	...

本体样式 Body Type	
LC6T1	LC6T1电机样式 LC6T1 motor type
/	/

行程 Stroke
40-1360

编码器 Encoder
M (数字量)磁性编码器 (Digital) magnetic encoder
O (数字量)光学编码器 (Digital) optical encoder

分辨率 Resolution
1U 分辨率1微米 Resolution of 1 μm
05U 分辨率0.5微米 Resolution of 0.5 μm

配线 Cable
0.5 电缆长度0.5m,不配延长线 Cable length 0.5m,not equipped with extension cords
3 电缆长度3m Cable length 3m
5 电缆长度5m Cable length 5m
10 电缆长度10m Cable length 10m

光电开关 Photoelectric switch
C3 3个外置式光电开关 3 external photoelectric switches
C4 4个外置式光电开关 4 external photoelectric switches
E 客户自配光电开关 Client self-photoelectric switch
感应器类型 Sensor type
无 NO NPN
P PNP

驱动器品牌 Drive brand	驱动器配置 Drive configuration
G1 高创1代 (Hiwin) 1 generation	空白 脉冲型 Blank Pulse type
G2 高创2代 (Hiwin) 2 generation	E EtherCAT总线型 EtherCAT main line
G3 高创3代 (Hiwin) 3 generation	C CANopen总线型 CANopen main line
P 松下 Panasonic	
T 台达 Delta	
V1 单轴驱动	
V2 双轴驱动	
Z 客户自配驱动器	

基本规格 Specification

项目 Items	电机样式 Motor Type	LC6T1
导轨规格 Items		直线无限循环型
分辨率(最高速度) Resolution (max speed)		Magnetic Scale: 1 μm Resol. / Grating Scale: 0.5 μm Resol/(1.5m/s)
重复定位精度(μm) Repeatability (μm)		磁性编码器+-5 光学编码器+-3 Magnetic encoder±5 Optical encoder±3
持续推力(N) Continuous Thrust (N)		38
峰值推力(N) Peak Thrust (N)		152
静态容许力矩(N.M) Static allowable Moment (N.M)		MP:112 MY:112 MR:160
动态容许力矩(N.M)(注1) Dynamic allowable Moment (N.M)(Note1)		MP:18.47 MY:18.47 MR:26.35
负荷允许伸出长度(mm)(注2) Overhang load length (mm)(Note2)		350
最大负载(kg)(注3) Max Payload (kg)(Note3)		10

注1: 基准额定寿命为10000km时的值。行走寿命因运行条件、安装状态不同而发生变化。

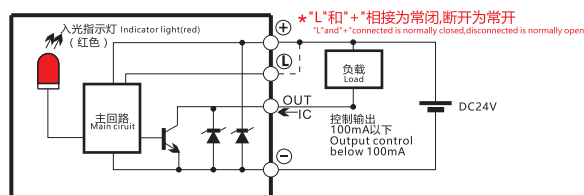
Note 1: The reference rating life is based on 10,000 km. Actual travel life may vary depending on running conditions and installation status.

注2: 即使满足负载和力矩容许范围, 当负载伸出长度过大时, 负载末端在定位时依然可能产生抖动或共振, 此时因适当下调和放宽动作条件。

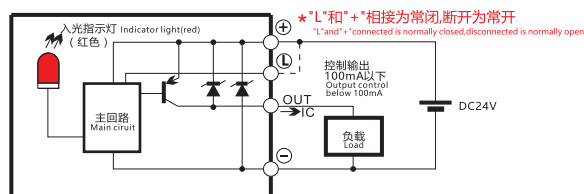
Note 2: Even if both the load and the torque stay within the acceptable range, excessive load overhang may still cause vibration or resonance at the end of the load during positioning. In such cases, the motion conditions shall be appropriately relaxed or expanded.

注3: 行程1000mm,速度500mm/s, 加速度0.5G, 停留时间0.1s条件下的值。

Note 3: Values are based on the following conditions:Stroke: 1,000 mm;Speed: 500 mm/s;Acceleration: 0.5 G;Dwell time: 0.1 s



NPN型感应开关接线图
NPN model magnetic switch wiring diagram



PNP型感应开关接线图
PNP model magnetic switch wiring diagram

动态容许力矩值(mm)

Dynamic allowable Moment(mm)

LC6T1					
水平安装 Horizontal Installation					
条件 Precondition	负载 Load	Lx	Ly	Lz	
V=1.5m/s a=1.5G S=1m	3.5	214	97	143	
	2.5	312	141	208	
	1.5	539	245	359	
V=1m/s a=1G S=1m	6.0	131	77	131	
	4.0	207	121	207	
	2.0	433	255	433	
V=0.8m/s a=0.8G S=1m	8.0	100	65	123	
	6.0	135	90	169	
	4.0	211	140	263	
V=0.5m/s a=0.5G S=1m	10.0	88	73	176	
	8.0	112	93	224	
	5.0	185	154	371	

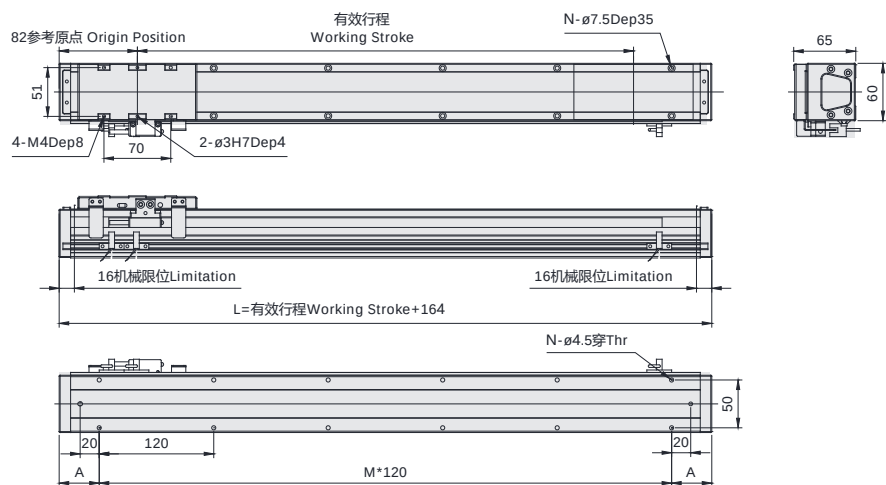
LC6T1					
壁挂安装 Wall Installation					
条件 Precondition	负载 Load	Lx	Ly	Lz	
V=1.5m/s a=1.5G S=1m	3.5	200	134	91	
	2.5	298	199	135	
	1.5	526	350	239	
V=1m/s a=1G S=1m	6.0	118	118	69	
	4.0	193	193	114	
	2.0	419	420	104	
V=0.8m/s a=0.8G S=1m	8.0	84	105	56	
	6.0	122	152	81	
	4.0	197	247	131	
V=0.5m/s a=0.5G S=1m	8.0	99	197	82	
	6.0	139	279	116	
	5.0	172	344	143	

- 1、可负载条件: $\frac{Lx1}{Lx} + \frac{Ly1}{Ly} + \frac{Lz1}{Lz} \leq 1$; ($Lx1$, $Ly1$, $Lz1$ 为实际值)
1.Allowable Load Conditions: $Lx1/Lx + Ly1/Ly + Lz1/Lz \leq 1$; $Lx1$, $Ly1$, and $Lz1$ represent actual values)
- 2、 Lx , Ly , Lz 表示该方向的重心位置;
2. Lx , Ly , and Lz represent the position of the center of gravity in each respective direction.
- 3、满足负载条件, 预测寿命60000KM;
3.If load conditions are met, the predicted service life is 60,000 KM.

LC6

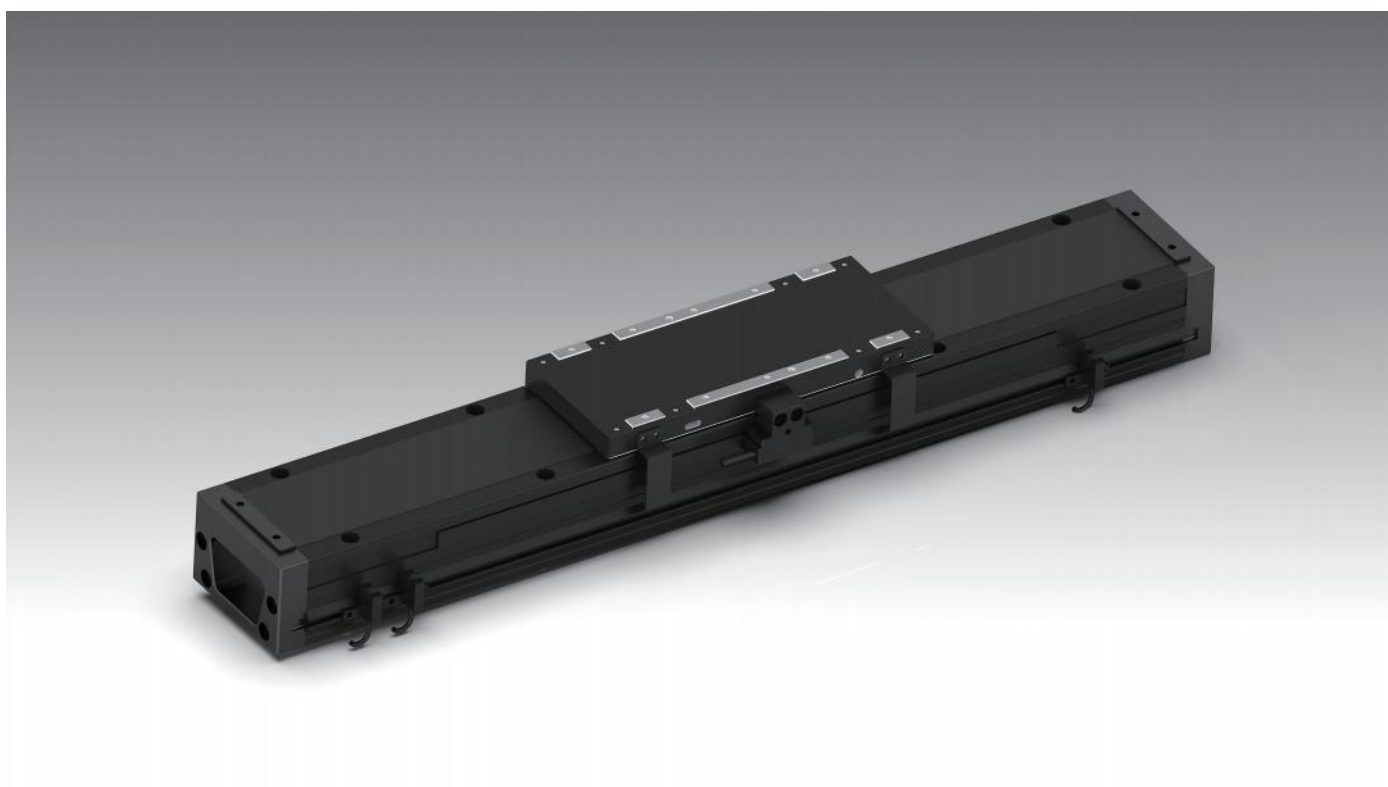
LC6T1

单位 Unit (mm)



行程	40	100	160	220	280	340	400	460	520	580	640	700	760	820	880	940	1000	1060	1120	1180	1240	1300	1360
L	204	264	324	384	444	504	564	624	684	744	804	864	924	984	1014	1104	1168	1224	1284	1344	1404	1464	1524
A	42	72	42	72	42	72	42	72	42	72	42	72	42	72	42	72	42	72	42	72	42	72	42
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
KG	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5.0	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8.0	8.3	8.6

注: ①、运动部位质量0.7kg
 ①、 The moving part weight is 0.7KG
 ②、 如需要长行程模组, 请联系沃姆公司。
 ②、 For longer stroke linear module, please contact WOMMER.



■ 型号表示方式 Guide for Model Selection

LC8F3 — S640 — M1U0.5 — C 3 — ZG1

滑台数量 Number of sliding carrier	
无	1个滑台(可省略不写) 1 sliding carrier(omissible)
2	2个滑台 2 sliding carriers
3	3个滑台 3 sliding carriers
...	...

本体样式 Body Type	
LC8F3	LC8F3电机样式 LC8F3 motor type

行程 Stroke	
60-1800	

编码器 Encoder	
M	(数字量)磁性编码器 (Digital) magnetic encoder
O	(数字量)光学编码器 (Digital) optical encoder

分辨率 Resolution	
1U	分辨率1微米 Resolution of 1 μ m
05U	分辨率0.5微米 Resolution of 0.5 μ m

配线 Cable	
0.5	电缆长度0.5m,不配延长线 Cable length 0.5m,not equipped with extension cords
3	电缆长度3m Cable length 3m
5	电缆长度5m Cable length 5m
10	电缆长度10m Cable length 10m

光电开关 Photoelectric switch	
C3	3个外置式光电开关 3 external photoelectric switches
C4	4个外置式光电开关 4 external photoelectric switches
E	客户自配光电开关 User self-photoelectric switch
感应器类型 Sensor type	
无	NPN
P	PNP

驱动器品牌 Drive brand	驱动器配置 Drive configuration
G1 高创1代	空白 脉冲型
G2 高创2代	E EtherCAT总线型
G3 高创3代	C CANopen总线型
P 松下	松下
T 台达	台达
V1 单轴驱动	单轴驱动
V2 双轴驱动	双轴驱动
Z.客户自配驱动器	客户自配驱动器

LC8

基本规格 Specification

项目 Items	电机样式 Motor Type	LC8F3
导轨规格 Items		直线无限循环型
分辨率(最高速度) Resolution (max speed)		Magnetic Scale: 1 μm Resol. / Grating Scale: 0.5 μm Resol. / (2m/s)
重复定位精度(μm) Repeatability (μm)		磁性编码器 ±5 光学编码器 ±3 Magnetic encoder ±5 Optical encoder ±3
持续推力(N) Continuous Thrust (N)		98
峰值推力(N) Peak Thrust (N)		392
静态容许力矩(N.M) Static allowable Moment (N.M)		MP:687 MY:687 MR:715
动态容许力矩(N.M)(注1) Dynamic allowable Moment (N.M)(Note1)		MP:109 MY:108 MR:113
负荷允许伸出长度(mm)(注2) Overhang load length (mm)(Note2)		700
最大负载(kg)(注3) Max Payload (kg)(Note3)		20

注1: 基准额定寿命为10000km时的值。行走寿命因运行条件、安装状态不同而发生变化。

Note 1: The reference rating life is based on 10,000 km. Actual travel life may vary depending on running conditions and installation status.

注2: 即使满足负载和力矩容许范围, 当负载伸出长度过大时, 负载末端在定位时依然可能产生抖动或共振, 此时因适当下调和放宽动作条件。

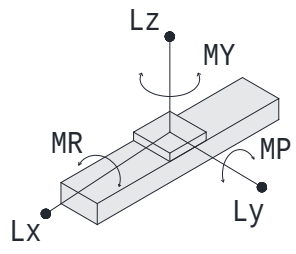
Note 2: Even if both the load and the torque stay within the acceptable range, excessive load overhang may still cause vibration or resonance at the end of the load during positioning. In such cases, the motion conditions shall be appropriately relaxed or expanded.

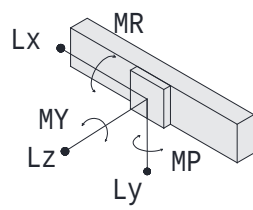
注3: 行程1000mm, 速度500mm/s, 加速度0.5G, 停留时间0.1s条件下的值。

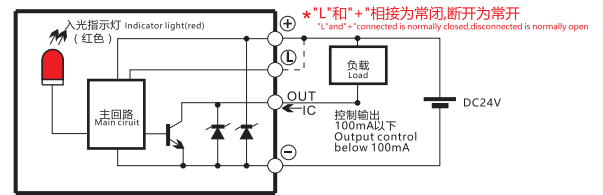
Note 3: Values are based on the following conditions: Stroke: 1,000 mm; Speed: 500 mm/s; Acceleration: 0.5 G; Dwell time: 0.1 s

动态容许力矩值(mm)

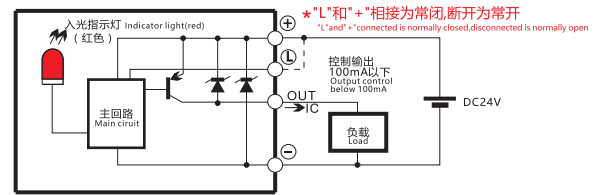
Dynamic allowable Moment(mm)

LC8F3				
水平安装 Horizontal Installation				
				
条件 Precondition	负载 Load	Lx	Ly	Lz
V=2m/s a=2G S=1m	4.0	1158	390	580
	3.0	1563	528	781
	2.0	1563	528	781
V=1.5m/s a=1.5G S=1m	7.0	677	275	450
	6.0	796	323	531
	5.0	964	392	642
V=1m/s a=1G S=1m	15.0	328	167	328
	10.0	506	258	506
	5.0	1040	531	1040
V=0.5m/s a=0.5G S=1m	20.0	274	187	548
	15.0	369	253	739
	10.0	561	384	1123

LC8F3				
壁挂安装 Wall Installation				
				
条件 Precondition	负载 Load	Lx	Ly	Lz
V=2m/s a=2G S=1m	4.0	1132	566	382
	3.0	1530	768	519
	2.0	1530	768	519
V=1.5m/s a=1.5G S=1m	7.0	651	434	264
	6.0	770	513	312
	5.0	938	625	381
V=1m/s a=1G S=1m	15.0	302	302	154
	10.0	480	480	245
	5.0	1013	1013	517
V=0.5m/s a=0.5G S=1m	20.0	247	495	169
	15.0	343	687	235
	10.0	535	1070	366



NPN型感应开关接线图
NPN model magnetic switch wiring diagram

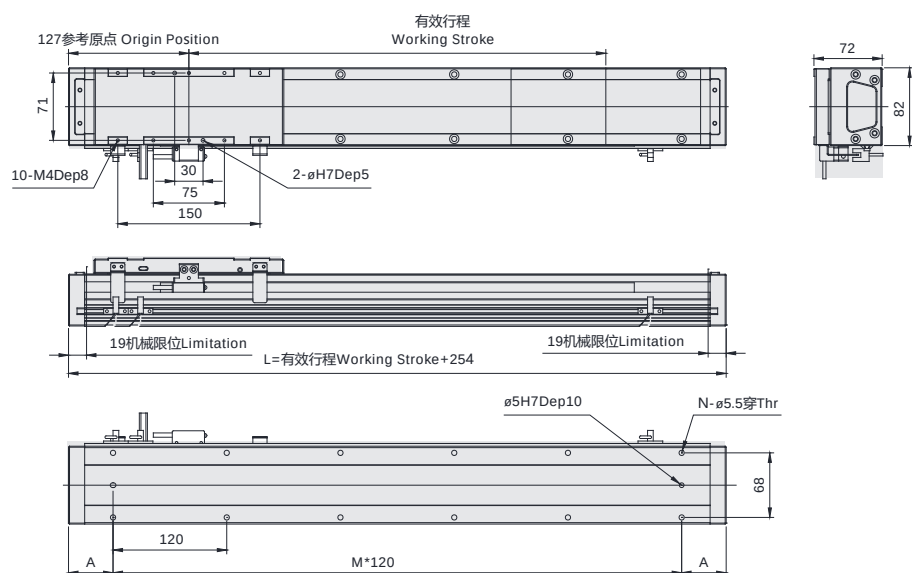


PNP型感应开关接线图
PNP model magnetic switch wiring diagram

- 1、可负载条件: $\frac{Lx1}{Lx} + \frac{Ly1}{Ly} + \frac{Lz1}{Lz} \leq 1$; ($Lx1$, $Ly1$, $Lz1$ 为实际值)
1.Allowable Load Conditions: $Lx1/Lx + Ly1/Ly + Lz1/Lz \leq 1$; $Lx1$, $Ly1$, and $Lz1$ represent actual values)
2. Lx , Ly , Lz 表示该方向的重心位置;
2. Lx , Ly , and Lz represent the position of the center of gravity in each respective direction.
3. 满足负载条件, 预测寿命60000KM;
3.If load conditions are met, the predicted service life is 60,000 KM.

LC8F3

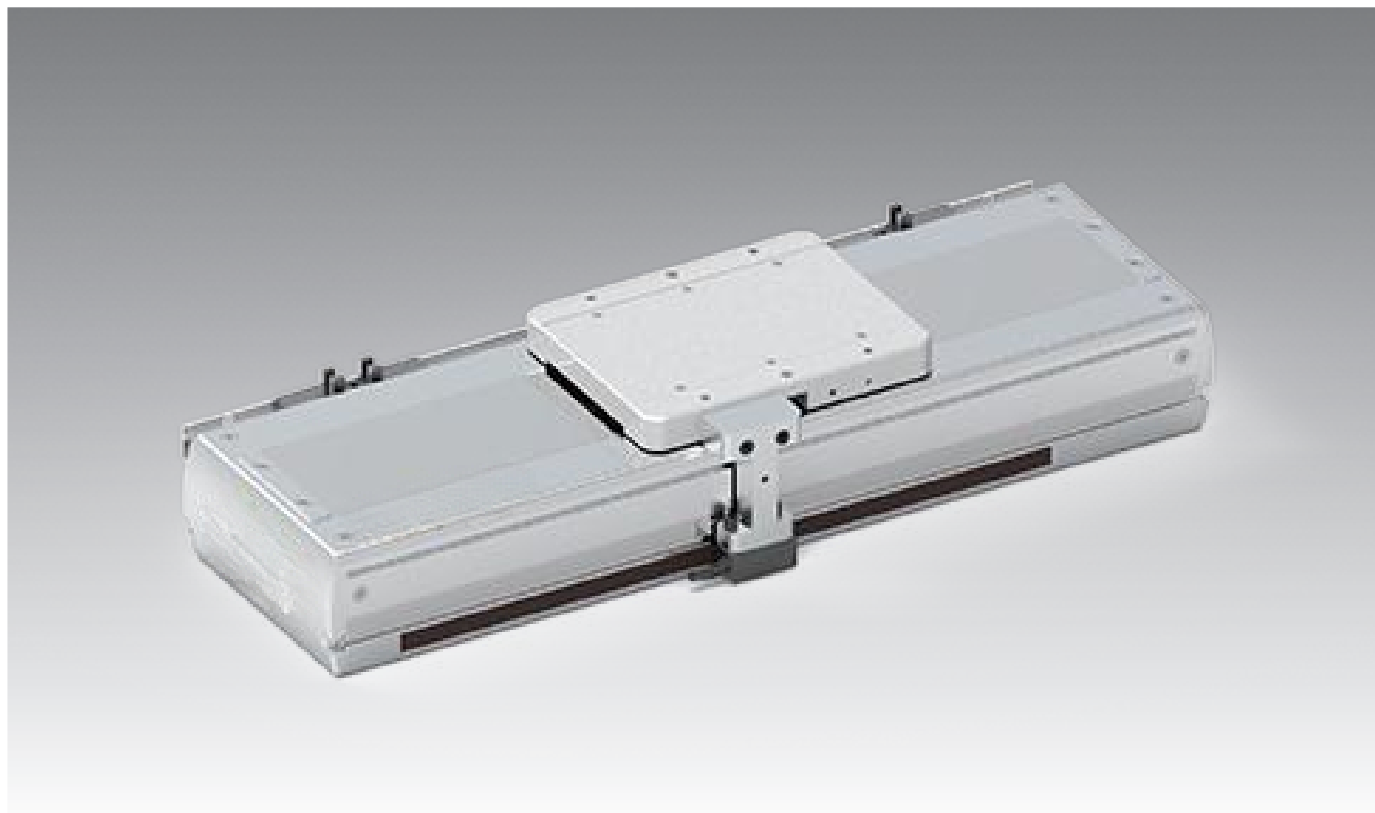
单位 Unit (mm)



行程	80	140	200	260	320	380	440	500	560	620	680	740	800	860	920	1234	1294	1354	1414	1474		2014
L	334	394	454	514	574	634	694	754	814	874	934	994	1054	1114	1174	1228	1288	1348	1408	1468		2008
A	50	80	50	80	50	80	50	80	50	80	50	80	50	80	50	78	48	78	48	78		78
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11		16
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24		34
KG	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1		19.6

注: ①、运动部位质量2.4kg
 ①、 The moving part weight is 2.4KG
 ②、如需更长行程模组, 请联系沃姆公司。
 ②、 For longer stroke linear module, please contact WOMMER.

LC14



■ 型号表示方式 Guide for Model Selection

LC14S1B — S500 — M1U0.5 — C 3 — ZG1

滑台数量 Number of sliding carrier	
1	1个滑台(可省略不写) 1 sliding carrier(omissible)
2	2个滑台 2 sliding carriers
3	3个滑台 3 sliding carriers
...	...

本体样式 Body Type	
LC14	本体宽度 Body Width
S1	电机尺寸86*60*40 Motor Dimensions86*60*40
S2	电机尺寸150*60*40 Motor Dimensions150*60*40
S3	电机尺寸214*60*40 Motor Dimensions214*60*40
B	VBM系列 VBM Series

行程 Stroke
100-3500

编码器 Encoder	
M	(数字量)磁性编码器 (Digital) magnetic encoder
O	(数字量)光学编码器 (Digital) optical encoder
MA	(数字量)磁性绝对值 (Digital) magnetic absolute encoder

分辨率 Resolution	
1U	分辨率1微米 Resolution of 1 μm
05U	分辨率0.5微米 Resolution of 0.5 μm

配线 Cable	
0.2	电缆长度0.2m,不配延长线 Cable length 0.2m,not equipped with extension cords
3	电缆长度3m Cable length 3m
5	电缆长度5m Cable length 5m
10	电缆长度10m Cable length 10m

光电开关 Photoelectric switch	
C3	3个外置式光电开关 3 external photoelectric switch
C4	4个外置式光电开关 4 external photoelectric switch
E	客户自配光电开关 Client self photoelectric switch
感应器类型 Sensor type	
无	NO
NPN	NPN
P	PNP

驱动器品牌 Drive brand	驱动器配置 Drive configuration
G1	高创1代 Blank
G2	高创2代 Blank
G3	高创3代 Blank
P	松下 Panasonic
T	台达 Delta
V1	经济型/单轴驱动 Economy Model with Single-Axis Drive
V2	经济型/双轴驱动 Economy Model with Dual-Axis Drive
Z	客户自配驱动器 Client Customized Drive System
其它: 特殊定制 Other: Special Customization	

基本规格 Specification

项目 Items	电机样式 Motor Type	LC14S1B	LC14S2B	LC14S3B
导轨规格 Items		15x12.5-2		
滑块数量 Number of linear block		4	4	4
分辨率(最高速度) Resolution (max speed)		Magnetic Scale: 1 μm Resol. / Grating Scale: 0.5 μm Resol/(3m/s)		
重复定位精度(um) Repeatability (um)		磁性编码器±5 光学编码器±3 Magnetic encoder±5 Optical encoder±3		
持续推力(N) Continuous Thrust (N)		82	164	246
峰值推力(N) Peak Thrust (N)		287	574	861
静态容许力矩(N.M) Static allowable Moment (N.M)		MP:360 MY:221 MR:524	MP:858 MY:526 MR:891	MP:1329 MY:815 MR:891
动态容许力矩(N.M)(注1) Dynamic allowable Moment (N.M)(Note1)		MP:169 MY:107 MR:245	MP:381 MY:242 MR:396	MP:590 MY:376 MR:396
负荷允许伸出长度(mm)(注2) Overhang load length (mm)(Note2)		400	600	800
最大负载(kg) (注3) Max Payload (kg)(Note3)		30	55	70

注1: 基准额定寿命为10000km时的值。行走寿命因运行条件、安装状态不同而发生变化。

Note 1: The reference rating life is based on 10,000 km. Actual travel life may vary depending on running conditions and installation status.

注2: 即使满足负载和力矩容许范围, 当负载伸出长度过大时, 负载末端在定位时依然可能产生抖动或共振, 此时因适当下调和放宽动作条件。

Note 2: Even if both the load and the torque stay within the acceptable range, excessive load overhang may still cause vibration or resonance at the end of the load during positioning. In such cases, the motion conditions shall be appropriately relaxed or expanded.

注3: 行程1000mm,速度500mm/s, 加速度0.5G, 停留时间0.1s条件下的值。

Note 3: Values are based on the following conditions:Stroke: 1,000 mm;Speed: 500 mm/s;Acceleration: 0.5 G;Dwell time: 0.1 s

动态容许力矩值(mm)

Dynamic allowable Moment(mm)

LC14S1B					LC14S1B				
水平安装 Horizontal Installation					壁挂安装 Wall Installation				
条件 Precondition	负载 Load	Lx	Ly	Lz	条件 Precondition	负载 Load	Lx	Ly	Lz
V=1.5m/s a=1.5G S=1m	5.0	1474	482	983	V=1.5m/s a=1.5G S=1m	5.0	908	605	655
	4.0	1864	609	1243		4.0	1155	770	833
	3.0	2515	822	1676		3.0	1567	1044	1130
V=1m/s a=1G S=1m	10.0	772	340	772	V=1m/s a=1G S=1m	10.0	463	463	433
	8.0	979	431	979		8.0	595	595	556
	6.0	1324	583	1324		6.0	813	813	760
V=0.5m/s a=0.5G S=1m	30.0	269	181	538	V=0.5m/s a=0.5G S=1m	25.0	183	366	243
	20.0	418	282	836		20.0	239	479	318
	10.0	864	584	1729		10.0	522	1044	693

LC14S2B					LC14S2B				
水平安装 Horizontal Installation					壁挂安装 Wall Installation				
条件 Precondition	负载 Load	Lx	Ly	Lz	条件 Precondition	负载 Load	Lx	Ly	Lz
V=2m/s a=2G S=1m	5.0	3282	798	1641	V=2m/s a=2G S=1m	5.0	2049	1024	1089
	4.0	4131	1004	2065		4.0	2589	1294	1376
	3.0	5546	1349	2773		3.0	3488	1744	1583
V=1m/s a=1G S=1m	20.0	877	345	877	V=1m/s a=1G S=1m	20.0	522	522	419
	15.0	1189	468	1189		15.0	720	720	578
	10.0	1812	714	1812		10.0	1116	1116	895
V=0.5m/s a=0.5G S=1m	55.0	337	192	675	V=0.5m/s a=0.5G S=1m	50.0	202	405	218
	45.0	418	239	837		40.0	266	533	287
	35.0	546	312	1093		30.0	373	746	402

LC14S3B					LC14S3B				
水平安装 Horizontal Installation					壁挂安装 Wall Installation				
条件 Precondition	负载 Load	Lx	Ly	Lz	条件 Precondition	负载 Load	Lx	Ly	Lz
V=2m/s a=2G S=1m	10.0	2520	543	1260	V=2m/s a=2G S=1m	10.0	1549	774	697
	8.0	3178	685	1589		8.0	1968	984	885
	6.0	4276	922	2138		6.0	2666	1333	1200
V=1m/s a=1G S=1m	35.0	771	251	771	V=1m/s a=1G S=1m	35.0	436	436	275
	25.0	1102	359	1102		25.0	647	647	408
	15.0	1875	612	1875		15.0	1139	1139	718
V=0.5m/s a=0.5G S=1m	70.0	417	183	835	V=0.5m/s a=0.5G S=1m	65.0	233	466	184
	60.0	492	215	984		55.0	289	578	227
	50.0	596	261	1192		45.0	369	738	291

1、可负载条件: $\frac{Lx1}{Lx} + \frac{Ly1}{Ly} + \frac{Lz1}{Lz} \leq 1$; ($Lx1$, $Ly1$, $Lz1$ 为实际值)

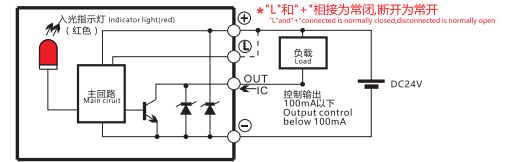
1.Allowable Load Conditions: $Lx1/Lx + Ly1/Ly + Lz1/Lz \leq 1$; $Lx1$, $Ly1$, and $Lz1$ represent actual values)

2、 Lx , Ly , Lz 表示该方向的重心位置;

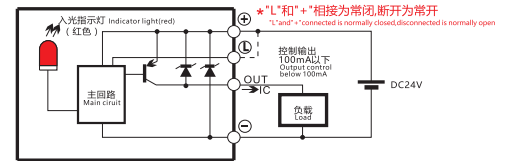
2. Lx , Ly , and Lz represent the position of the center of gravity in each respective direction.

3、满足负载条件, 预测寿命60000KM;

3.If load conditions are met, the predicted service life is 60,000 KM.



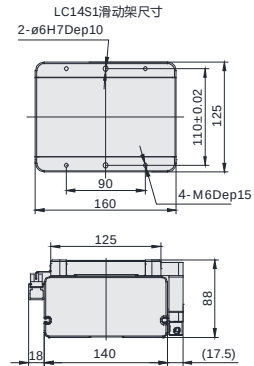
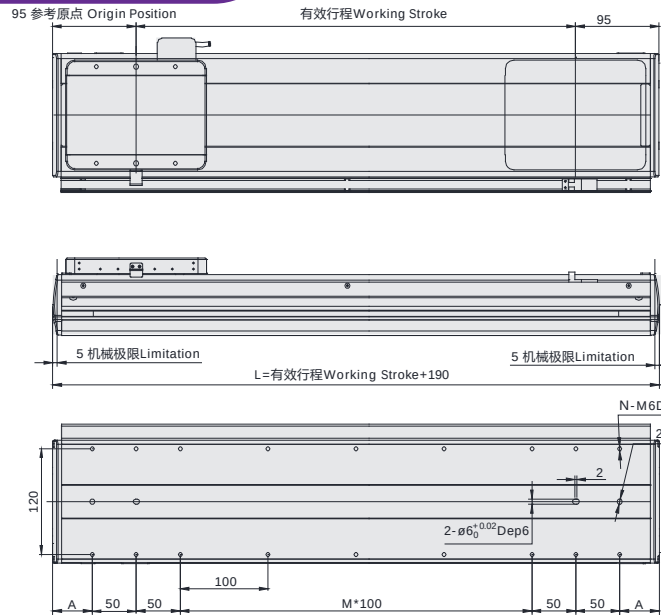
NPN型感应开关接线图
NPN model magnetic switch wiring diagram



PNP型感应开关接线图
PNP model magnetic switch wiring diagram

LC14

LC14S1



单位 Unit (mm)

注: ①、运动部位质量3.45kg

①、The moving part weight is 3.45KG

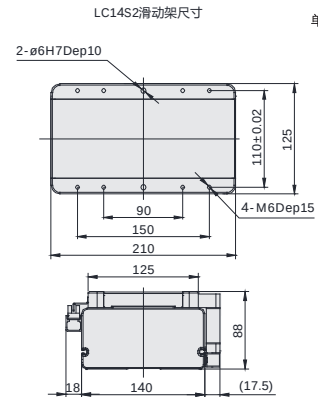
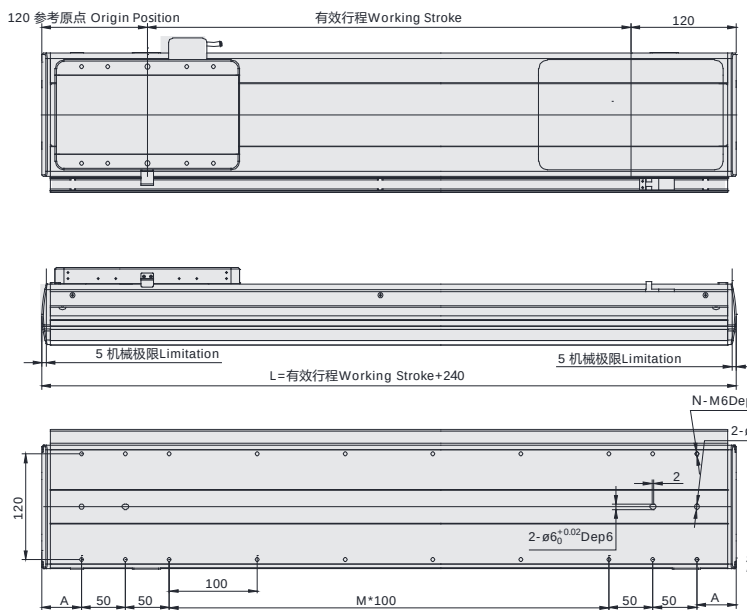
②、如需更长行程模组, 可联系沃姆公司.

②、For longer stroke linear module, please contact

WOMMER.

行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42
KG	9.2	9.9	10.6	11.3	12	12.7	13.4	14.1	14.8	15.5	16.2	16.9	17.6	18.3	19	19.7	20.4	21.1	21.8	22.5	23.2	23.9	24.6	25.3	26	26.7	28.4	29.1	29.8	30.5	31.2	31.9	32.6

LC14S2



单位 Unit (mm)

注: ①、运动部位质量4.94kg

①、The moving part weight is 4.94KG

②、如需更长行程模组, 可联系沃姆公司.

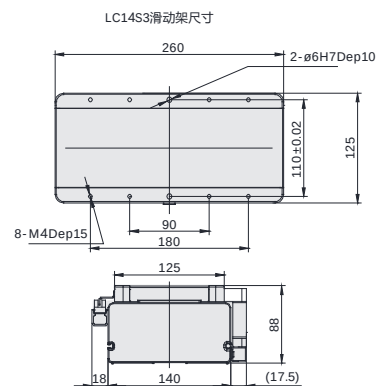
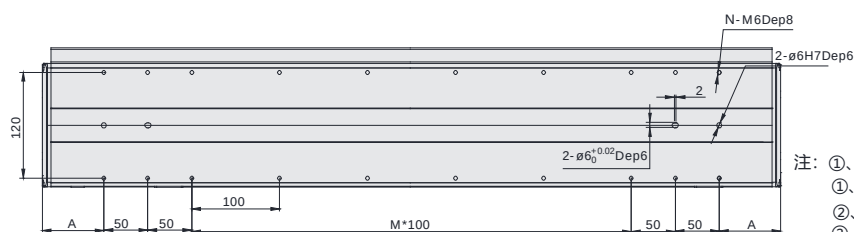
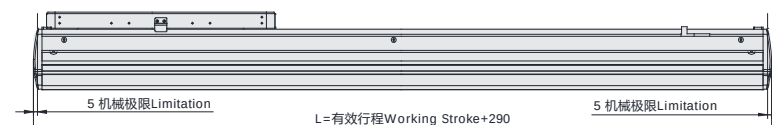
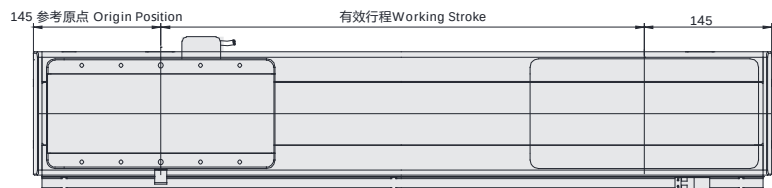
②、For longer stroke linear module, please contact

WOMMER.

行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940
A	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42
KG	9.3	10	10.7	11.4	12.1	12.8	13.5	14.2	14.9	15.6	16.3	17	17.7	18.4	19.1	19.8	20.5	21.2	21.9	22.6	23.3	24	24.7	25.4	26.1	26.8	27.5	28.2	28.9	29.6	30.3	31	31.7

LC14S3

单位 Unit (mm)

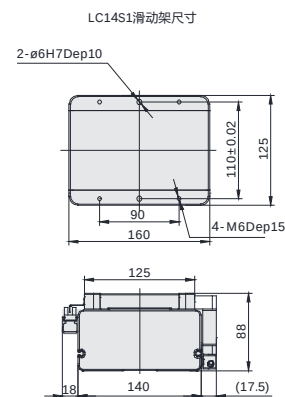
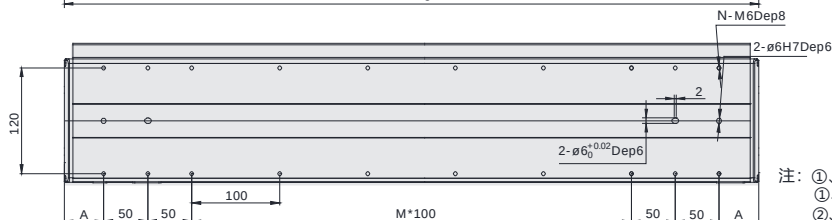
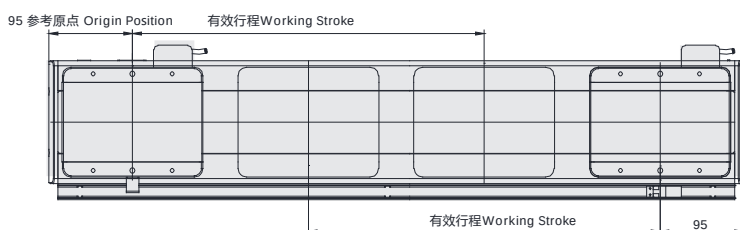


注：①、运动部位质量6.5kg
①、The moving part weight is 6.5 KG
②、如需更长行程模组，可联系沃姆公司。
②、For longer stroke linear module, please contact WOMMER.

行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44
KG	11.4	14.1	14.8	15.5	16.2	16.9	17.6	18.3	19	19.7	20.4	21.1	21.8	22.5	23.2	23.9	24.6	25.3	26	26.7	27.4	28.1	28.8	29.5	30.2	30.9	31.6	32.3	33	33.7	34.4	35.1	35.8

2LC14S1

单位 Unit (mm)



注：①、运动部位质量3.45kg
①、The moving part weight is 3.45KG
②、如需更长行程模组，可联系沃姆公司。
②、For longer stroke linear module, please contact WOMMER.

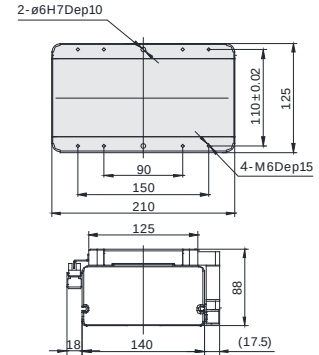
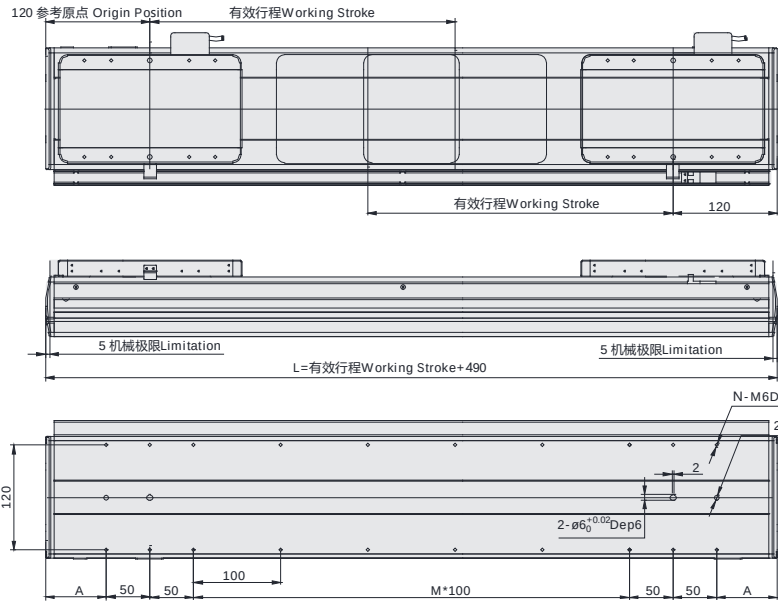
行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18
N	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46
KG	13.8	14.5	15.2	15.9	16.6	17.3	18	18.7	19.4	20.1	20.8	21.5	22.2	22.9	23.6	24.3	25	25.7	26.4	27.1	27.8	28.5	29.2	29.9	30.6	31.3	32	32.7	33.4	34.1	34.8	35.5	36.2

LC14

LC14S2

LC14S2滑动架尺寸

单位 Unit (mm)



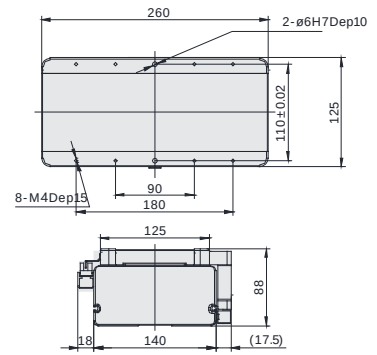
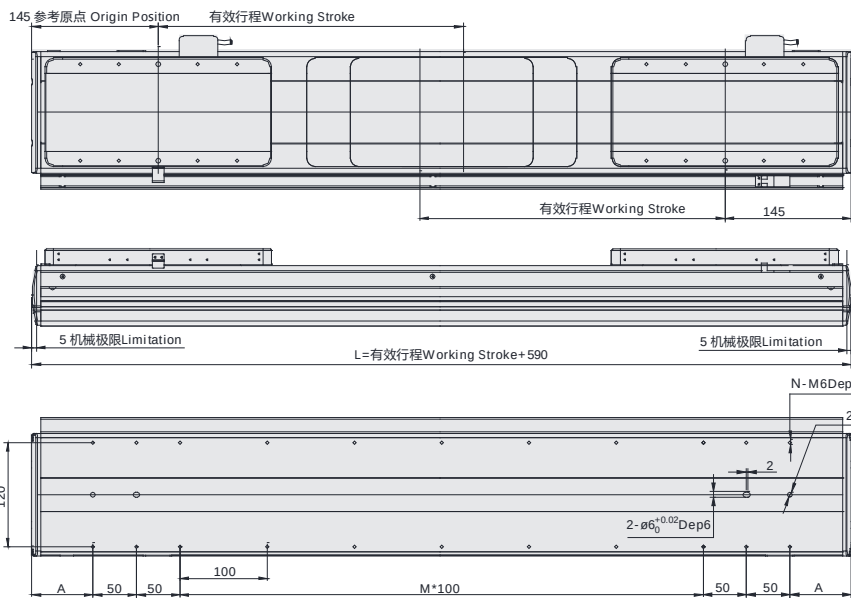
注: ①、运动部位质量4.94kg
①、The moving part weight is 4.94KG
②、如需更长行程模组, 可联系沃姆公司。
②、For longer stroke linear module, please contact WOMMER.

行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	2140	2190
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46	48
KG	18.7	19.4	20.1	20.8	21.5	22.2	22.9	23.6	24.3	25	25.7	26.4	27.1	27.8	28.5	29.2	29.9	30.6	31.3	32	32.7	33.4	34.1	34.8	35.5	36.2	36.9	37.6	38.3	39	39.7	40.4	41.1

2LC14S3

LC14S3滑动架尺寸

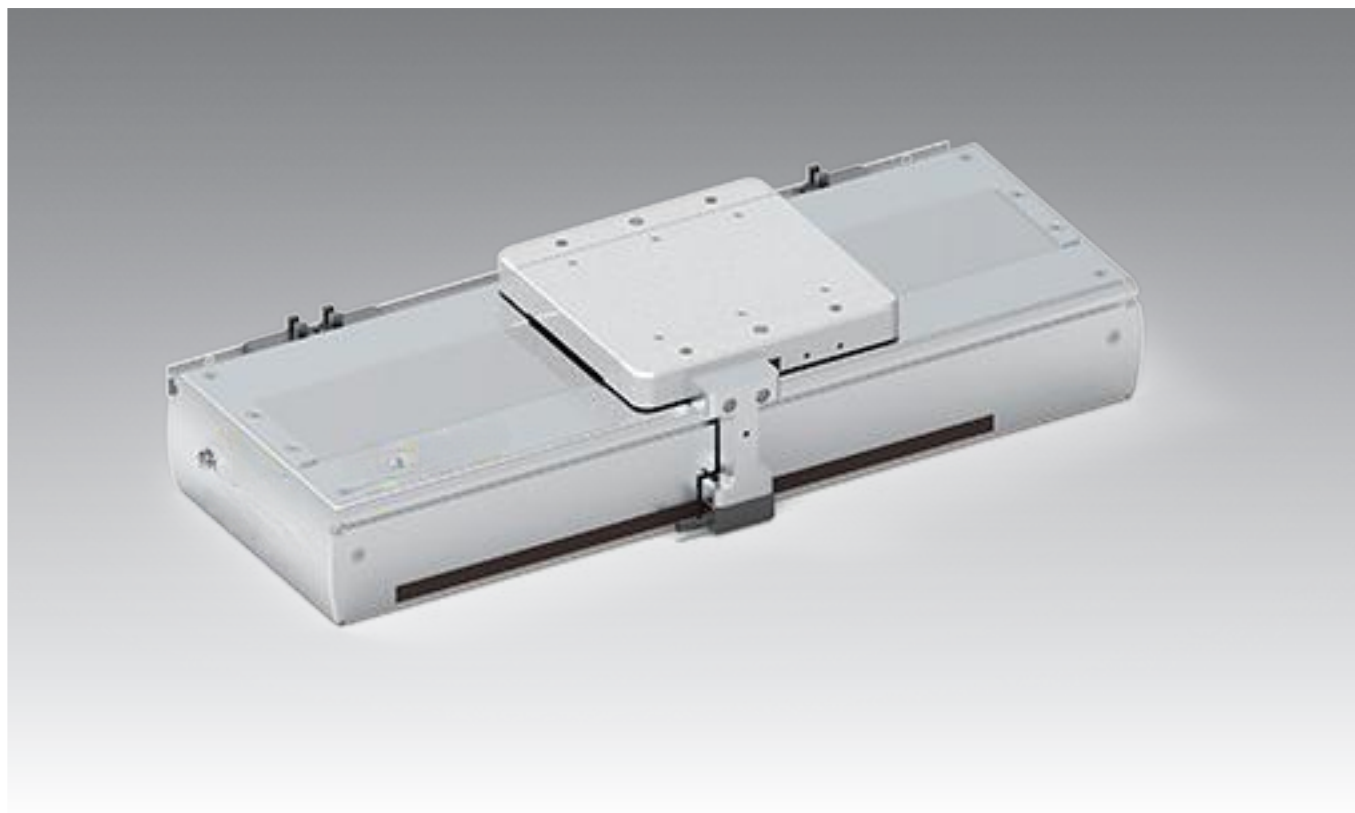
单位 Unit (mm)



注: ①、运动部位质量6.5kg
①、The moving part weight is 6.5 KG
②、如需更长行程模组, 可联系沃姆公司。
②、For longer stroke linear module, please contact WOMMER.

行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	2140	2190	2240	2290
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20
N	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46	48	48	50
KG	23.1	23.8	24.5	25.2	25.9	26.6	27.3	28	28.7	29.4	30.1	30.8	31.5	32.2	32.9	33.6	34.3	35	35.7	36.4	37.1	37.8	38.5	39.2	39.9	40.6	41.3	42	42.7	43.4	44.1	44.8	45.5

LC17



■ 型号表示方式 Guide for Model Selection

LC17E1B — S500 — M1U0.5 — C 3 — ZG1

滑台数量 Number of sliding carrier	
1	1个滑台(可省略不写) 1 sliding carrier(omissible)
2	2个滑台 2 sliding carriers
3	3个滑台 3 sliding carriers
...	...

本体样式 Body Type	
LC17	本体宽度 Body Width
E1	电机尺寸86*80*40 Motor Dimensions86*80*40
E2	电机尺寸150*80*40 Motor Dimensions150*80*40
E3	电机尺寸214*80*40 Motor Dimensions214*80*40
B	VBM系列 VBM Series

行程 Stroke
100-3500

编码器 Encoder	
M	(数字量)磁性编码器 (Digital) magnetic encoder
O	(数字量)光学编码器 (Digital) optical encoder
MA	(数字量)磁性绝对值 (Digital) magnetic absolute encoder

分辨率 Resolution	
1U	分辨率0.5微米 Resolution of 0.5 μ m
05U	分辨率0.05微米 Resolution of 0.05 μ m

配线 Cable	
0.2	电缆长度0.2m,不配延长线 Cable length 0.2m,not equipped with extension cords
3	电缆长度3m Cable length 3m
5	电缆长度5m Cable length 5m
10	电缆长度10m Cable length 10m

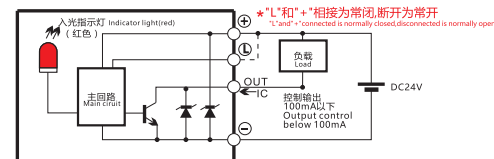
光电开关 Photoelectric switch	
C3	3个外置式光电开关 3 external photoelectric switches
C4	4个外置式光电开关 4 external photoelectric switches
E	客户自配光电开关 Client self-photoelectric switch
感应器类型 Sensor type	
无	NPN
P	PNP

驱动器品牌 Drive brand		驱动器配置 Drive configuration	
G1	高创1代 Servotronics 1 Generation	空白 Blank	脉冲型 Pulse type
G2	高创2代 Servotronics 2 Generation	E	EtherCAT总线型 EtherCATmain line
G3	高创3代 Servotronics 3 Generation	C	CANopen总线型 CANopen main line
P	松下 Panasonic		
T	台达 Delta		
V1	经济型/单轴驱动 Economy Model with Single-Axis Drive		
V2	经济型/双轴驱动 Economy Model with Dual-Axis Drive		
Z:客户自配驱动装置 Z Customer Provided Drive System			
其它: 特殊定制 Other: Special Customization			

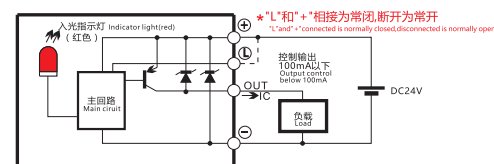
LC17

基本规格 Specification

项目 Items	电机样式 Motor Type	LC17E1B	LC17E2B	LC17E3B
导轨规格 Items		15x12.5-2		
滑块数量 Number of linear block		4	4	4
分辨率(最高速度) Resolution (max speed)		Magnetic Scale: 1 μ m Resol. / Grating Scale: 0.5 μ m Resol/(3m/s)		
重复定位精度(um) Repeatability (um)		磁性编码器+5 光学编码器+3 Magnetic encoder $\pm$ 5 Optical encoder $\pm$ 3		
持续推力(N) Continuous Thrust (N)		128	257	385
峰值推力(N) Peak Thrust (N)		449	899	1347
静态容许力矩(N.M) Static allowable Moment (N.M)		MP:360 MY:221 MR:682	MP:858 MY:526 MR:1160	MP:1329 MY:815 MR:1159
动态容许力矩(N.M)(注1) Dynamic allowable Moment (N.M)(Note1)		MP:169 MY:107 MR:319	MP:381 MY:242 MR:515	MP:591 MY:376 MR:515
负荷允许伸出长度(mm)(注2) Overhang load length (mm)(Note2)		400	600	800
最大负载(kg) (注3) Max Payload (kg)(Note3)		45	80	90



NPN型感应开关接线图
NPN model magnetic switch wiring diagram



PNP型感应开关接线图
PNP model magnetic switch wiring diagram

注1: 基准额定寿命为10000km时的值。行走寿命因运行条件、安装状态不同而发生变化。

Note 1: The reference rating life is based on 10,000 km. Actual travel life may vary depending on running conditions and installation status.

注2: 即使满足负载和力矩容许范围, 当负载伸出长度过大时, 负载末端在定位时依然可能产生抖动或共振, 此时因适当下调和放宽动作条件。

Note 2: Even if both the load and the torque stay within the acceptable range, excessive load overhang may still cause vibration or resonance at the end of the load during positioning. In such cases, the motion conditions shall be appropriately relaxed or expanded.

注3: 行程1000mm,速度500mm/s, 加速度0.5G, 停留时间0.1s条件下的值。

Note 3: Values are based on the following conditions: Stroke: 1,000 mm; Speed: 500 mm/s; Acceleration: 0.5 G; Dwell time: 0.1 s

动态容许力矩值(mm)

Dynamic allowable Moment(mm)

LC17E1B					LC17E1B				
水平安装 Horizontal Installation					壁挂安装 Wall Installation				
条件 Precondition	负载 Load	Lx	Ly	Lz	条件 Precondition	负载 Load	Lx	Ly	Lz
V=1.5m/s a=1.5G S=1m	9.0	773	266	515	V=1.5m/s a=1.5G S=1m	9.0	469	312	365
	8.0	882	304	588		8.0	537	358	418
	7.0	1021	352	681		7.0	625	417	487
V=1m/s a=1G S=1m	16.0	456	216	456	V=1m/s a=1G S=1m	16.0	268	268	276
	13.0	575	272	575		13.0	343	343	354
	10.0	767	363	767		10.0	464	464	479
V=0.5m/s a=0.5G S=1m	45.0	167	126	334	V=0.5m/s a=0.5G S=1m	40.0	100	201	154
	35.0	224	169	448		30.0	148	296	227
	25.0	326	247	652		20.0	242	484	371

LC17E2B					LC17E2B				
水平安装 Horizontal Installation					壁挂安装 Wall Installation				
条件 Precondition	负载 Load	Lx	Ly	Lz	条件 Precondition	负载 Load	Lx	Ly	Lz
V=2m/s a=2G S=1m	10.0	1574	404	787	V=2m/s a=2G S=1m	10.0	970	485	557
	8.0	1998	513	999		8.0	1240	620	712
	6.0	2706	698	1353		6.0	1689	844	971
V=1m/s a=1G S=1m	35.0	472	203	472	V=1m/s a=1G S=1m	35.0	270	270	244
	25.0	685	296	685		25.0	406	406	367
	15.0	1184	511	1184		15.0	722	722	654
V=0.5m/s a=0.5G S=1m	80.0	220	144	441	V=0.5m/s a=0.5G S=1m	75.0	121	243	154
	70.0	256	168	513		65.0	147	295	187
	60.0	304	199	609		55.0	183	367	233

LC17E3B					LC17E3B				
水平安装 Horizontal Installation					壁挂安装 Wall Installation				
条件 Precondition	负载 Load	Lx	Ly	Lz	条件 Precondition	负载 Load	Lx	Ly	Lz
V=2m/s a=2G S=1m	15.0	1632	300	816	V=2m/s a=2G S=1m	15.0	993	496	495
	10.0	2510	584	1255		10.0	1551	775	774
	5.0	5144	1198	2572		5.0	3227	1613	1611
V=1m/s a=1G S=1m	45.0	582	214	582	V=1m/s a=1G S=1m	45.0	325	325	237
	35.0	766	281	766		35.0	442	442	323
	25.0	1097	403	1097		25.0	653	653	477
V=0.5m/s a=0.5G S=1m	90.0	316	163	632	V=0.5m/s a=0.5G S=1m	85.0	168	337	161
	80.0	359	185	718		75.0	199	399	190
	70.0	415	214	830		65.0	240	481	229

1、可负载条件: $\frac{Lx1}{Lx} + \frac{Ly1}{Ly} + \frac{Lz1}{Lz} \leq 1$; ($Lx1$ 、 $Ly1$ 、 $Lz1$ 为实际值)

1.Allowable Load Conditions: $Lx1/Lx + Ly1/Ly + Lz1/Lz \leq 1$; $Lx1$, $Ly1$, and $Lz1$ represent actual values)

2、 Lx 、 Ly 、 Lz 表示该方向的重心位置;

2. Lx , Ly , and Lz represent the position of the center of gravity in each respective direction.

3、满足负载条件, 预测寿命60000KM;

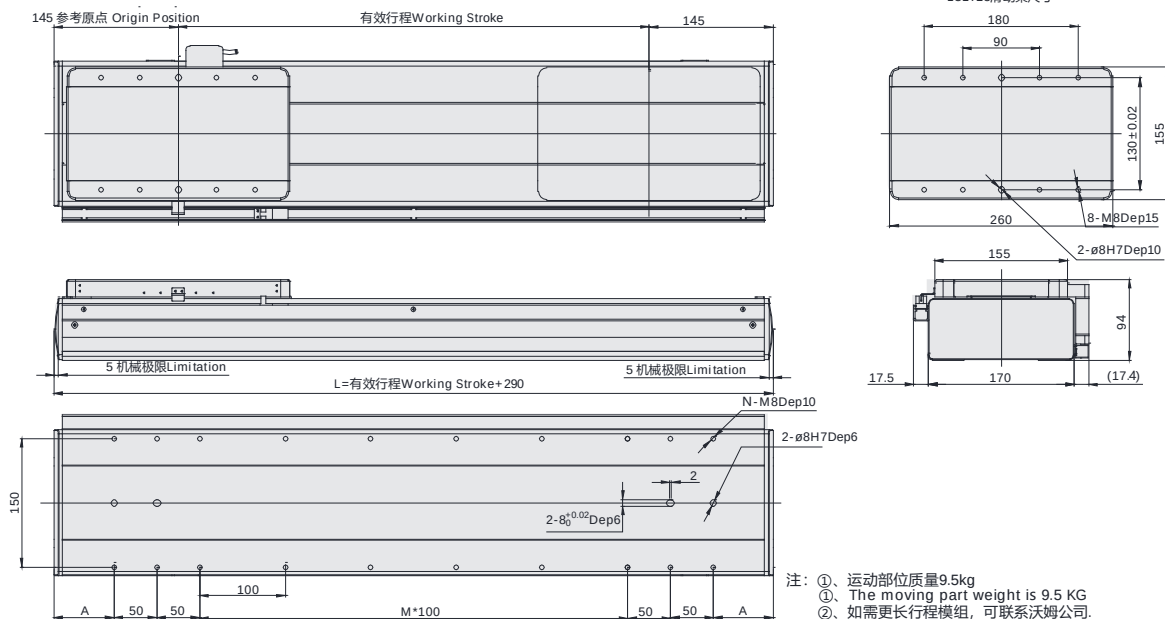
3.If load conditions are met, the predicted service life is 60,000 KM.

		WOMMER																															
行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940
A	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16
N	0	1	1	2	14	14	16	16	18	18	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42
KG	16.6	17.4	18.2	19	19.8	20.6	21.4	22.2	23	23.8	24.6	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2

LC17

LC17E3

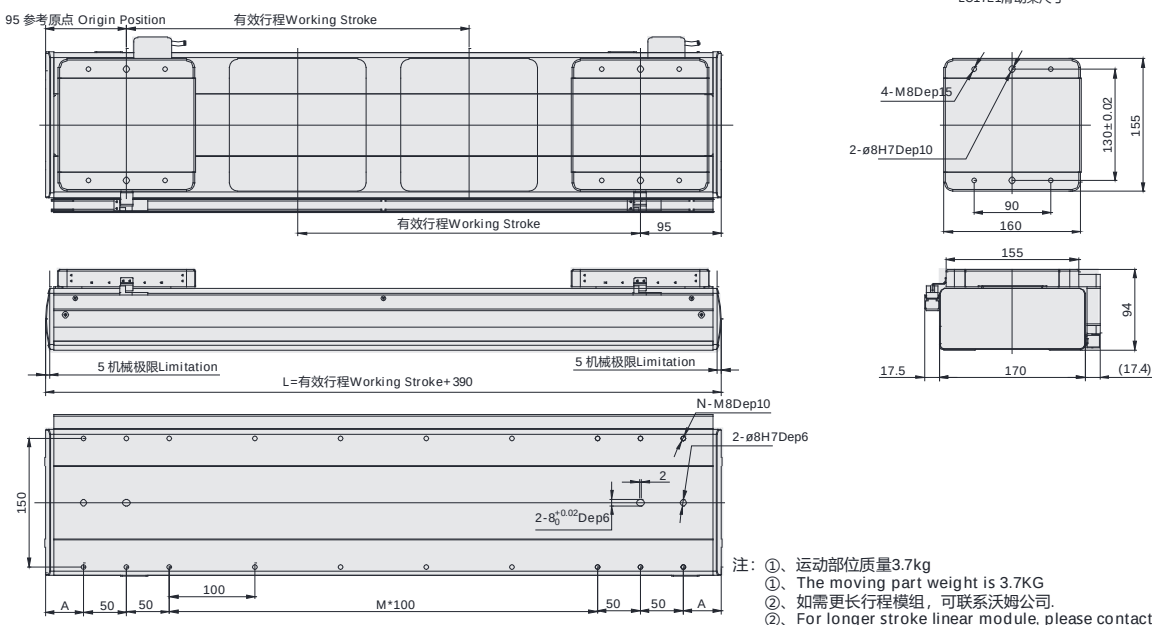
单位 Unit (mm)



行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44
KG	19.2	20	20.8	21.6	22.4	23.2	24	24.8	25.6	26.4	27.2	28	28.8	29.6	30.4	31.2	32	32.8	33.6	34.4	35.2	37	37.8	38.6	39.4	40.2	41	41.8	42.6	43.4	44.2	45	45.8

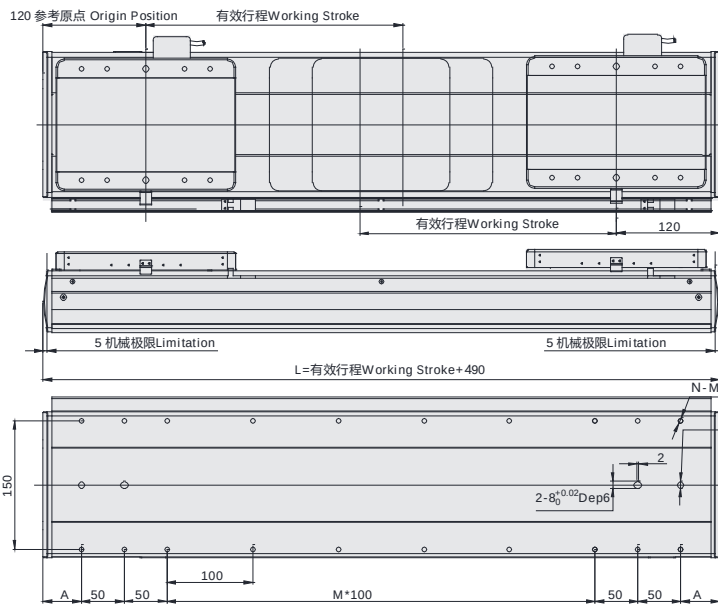
2LC17E1

单位 Unit (mm)



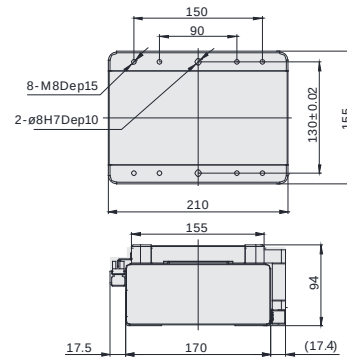
行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18
N	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46
KG	23.6	24.4	25.2	26	26.8	27.6	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2

2LC17E2



LC17E2滑动架尺寸

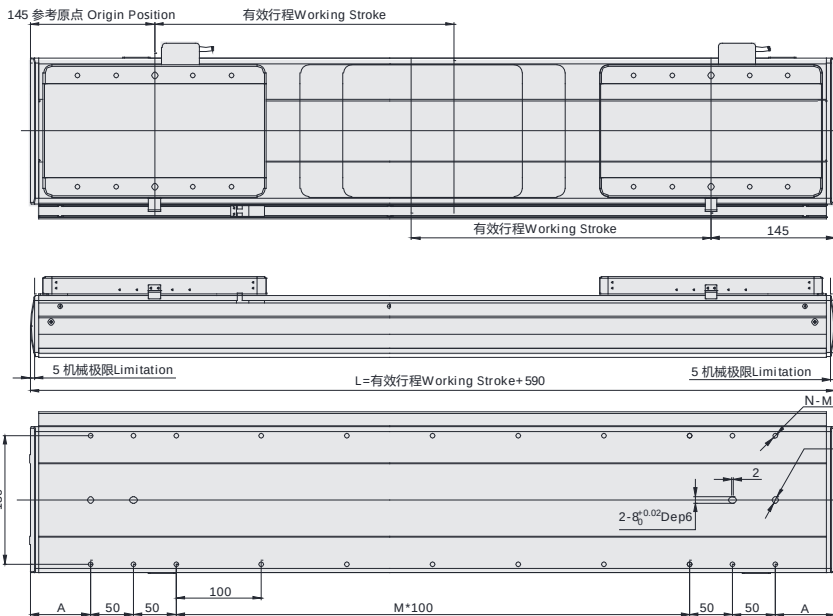
单位 Unit (mm)



注：①、运动部位质量5.3kg
①、The moving part weight is 5.3KG
②、如需更长行程模组，可联系沃姆公司。
②、For longer stroke linear module, please contact WOMMER.

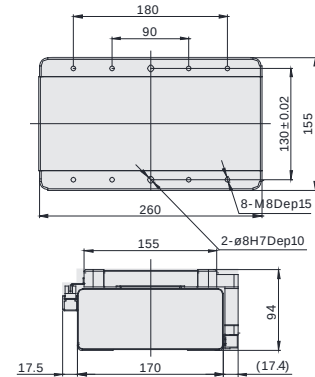
行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	2140	2190
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46	48
KG	27.6	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2

2LC17E3



LC17E3滑动架尺寸

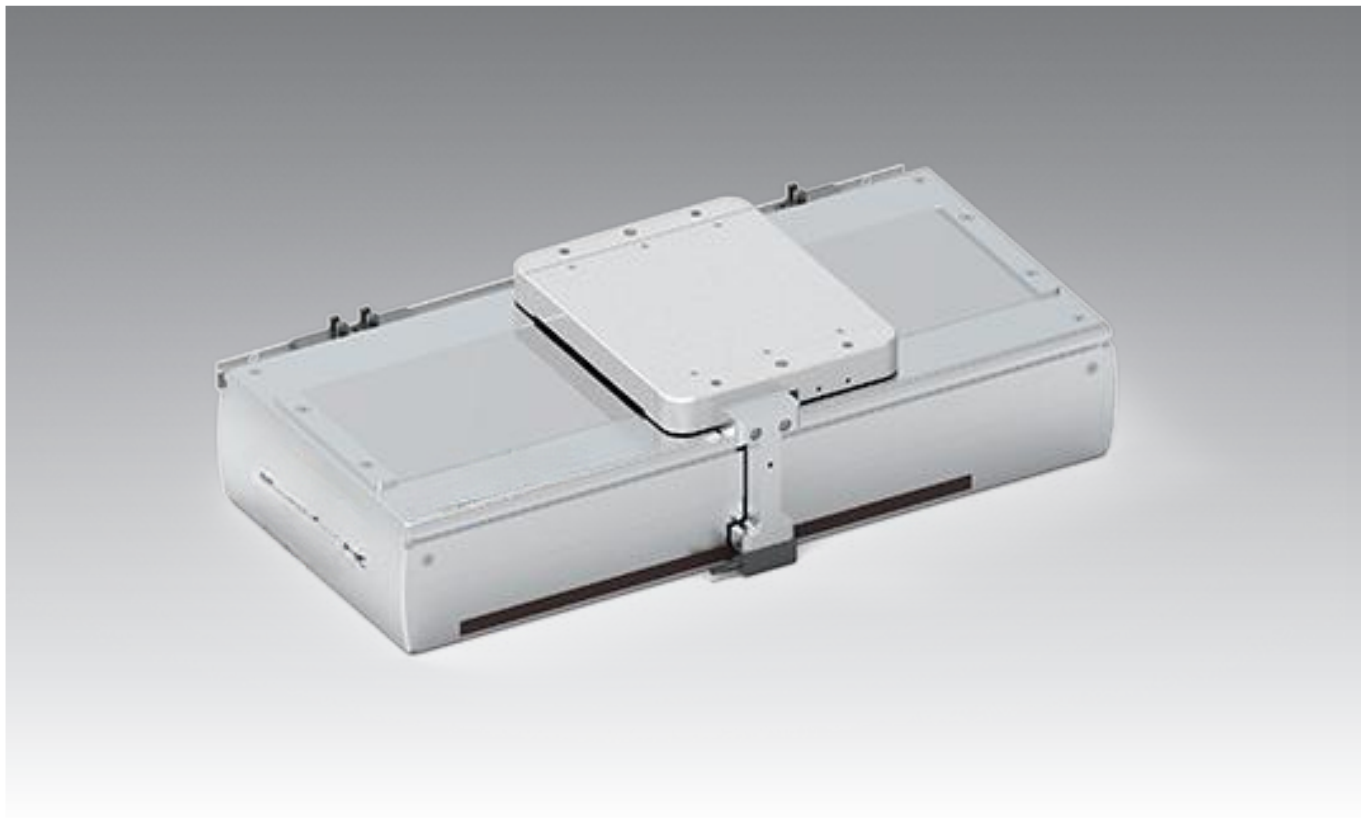
单位 Unit (mm)



注：①、运动部位质量9.5kg
①、The moving part weight is 9.5 KG
②、如需更长行程模组，可联系沃姆公司。
②、For longer stroke linear module, please contact WOMMER.

行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	2140	2190	2240	2290
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20
N	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46	48	48	50
KG	33.2	34	34.8	35.6	36.4	37.2	38	38.8	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8

LC22



■ 型号表示方式 Guide for Model Selection

LC22H1B — S500 — M1U0.5 — C 3 — ZG1

滑台数量 Number of sliding carrier	
1	1个滑台(可省略不写) 1 sliding carrier(omissible)
2	2个滑台 2 sliding carriers
3	3个滑台 3 sliding carriers
...	...

本体样式 Body Type	
LC22	本体宽度 Body Width
H1	电机尺寸86*100*40 Motor Dimensions86*100*40
H2	电机尺寸150*100*40 Motor Dimensions150*100*40
H3	电机尺寸214*100*40 Motor Dimensions214*100*40
B	VBM系列 VBM Series

行程 Stroke
100-3500

编码器 Encoder	
M	(数字量)磁性编码器 (Digital) magnetic encoder
O	(数字量)光学编码器 (Digital) optical encoder
MA	(数字量)磁性绝对值 (Digital) magnetic absolute encoder

分辨率 Resolution	
1U	分辨率1微米 Resolution of 1 μm
05U	分辨率0.05微米 Resolution of 0.05 μm

配线 Cable	
0.2	电缆长度0.2m,不配延长线 Cable length 0.2m,not equipped with extension cords
3	电缆长度3m Cable length 3m
5	电缆长度5m Cable length 5m
10	电缆长度10m Cable length 10m

光电开关 Photoelectric switch	
C3	3个外置式光电开关 3 external photoelectric switches
C4	4个外置式光电开关 4 external photoelectric switches
E	客户自配光电开关 Client self-photoelectric switch
传感器类型 Sensor type	
无	NPN
P	PNP

驱动器品牌 Drive brand	驱动器配置 Drive configuration
G1	高创1代 Blank
G2	高创2代 E
G3	高创3代 C
P	松下 Panasonic
T	台达 Delta
V1	经济型/单轴驱动 Economy Model only Single Axis Drive
V2	经济型/双轴驱动 Economy Model only Dual Axis Drive
Z	客户自配驱动器 Customer furnished drive system
其它	特殊定制 Other Special Customization

基本规格 Specification

项目 Items	电机样式 Motor Type	LC22H1B	LC22H2B	LC22H3B
导轨规格 Items		20x15.5-2		
滑块数量 Number of linear block		4	4	4
分辨率(最高速度) Resolution (max speed)		Magnetic Scale: 1 μm Resol. / Grating Scale: 0.5 μm Resol/(3m/s)		
重复定位精度(μm) Repeatability (μm)		磁性编码器 ±5 光学编码器 ±3 Magnetic encoder ±5 Optical encoder ±3		
持续推力(N) Continuous Thrust (N)		175	350	525
峰值推力(N) Peak Thrust (N)		613	1226	1839
静态容许力矩(N.M) Static allowable Moment (N.M)		MP:469 MY:287 MR:1358	MP:1076 MY:660 MR:2206	MP:1745 MY:1070 MR:2206
动态容许力矩(N.M)(注1) Dynamic allowable Moment (N.M)(Note1)		MP:218 MY:138 MR:630	MP:450 MY:286 MR:921	MP:729 MY:464 MR:921
负荷允许伸出长度(mm)(注2) Overhang load length (mm)(Note2)		450	675	900
最大负载(kg) (注3) Max Payload (kg)(Note3)		55	100	110

注1: 基准额定寿命为10000km时的值。行走寿命因运行条件、安装状态不同而发生变化。

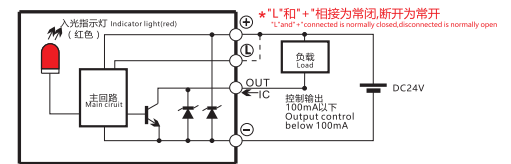
Note 1: The reference rating life is based on 10,000 km. Actual travel life may vary depending on running conditions and installation status.

注2: 即使满足负载和力矩容许范围, 当负载伸出长度过大时, 负载末端在定位时依然可能产生抖动或共振, 此时因适当下调和放宽动作条件。

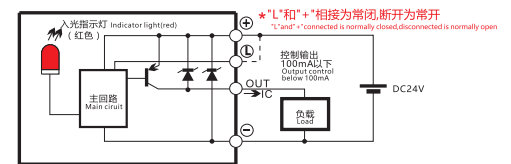
Note 2: Even if both the load and the torque stay within the acceptable range, excessive load overhang may still cause vibration or resonance at the end of the load during positioning. In such cases, the motion conditions shall be appropriately relaxed or expanded.

注3: 行程1000mm,速度500mm/s, 加速度0.5G, 停留时间0.1s条件下的值。

Note 3: Values are based on the following conditions: Stroke: 1,000 mm; Speed: 500 mm/s; Acceleration: 0.5 G; Dwell time: 0.1 s



NPN型感应开关接线图
NPN model magnetic switch wiring diagram



PNP型感应开关接线图
PNP model magnetic switch wiring diagram

LC22H1B					LC22H1B				
水平安装 Horizontal Installation					壁挂安装 Wall Installation				
条件 Precondition	负载 Load	Lx	Ly	Lz	条件 Precondition	负载 Load	Lx	Ly	Lz
V=1.5m/s a=1.5G S=1m	10	899	331	599	V=1.5m/s a=1.5G S=1m	10	553	369	473
	8	1150	423	767		8	712	475	609
	6	1570	578	1046		6	978	652	837
V=1m/s a=1G S=1m	23	393	204	393	V=1m/s a=1G S=1m	23	233	233	273
	20	463	240	463		20	277	277	325
	17	557	289	557		17	337	337	395
V=0.5m/s a=0.5G S=1m	55	173	152	347	V=0.5m/s a=0.5G S=1m	50	107	215	200
	45	220	193	440		40	144	288	268
	35	293	258	586		30	204	409	382

LC22H2B					LC22H2B				
水平安装 Horizontal Installation					壁挂安装 Wall Installation				
条件 Precondition	负载 Load	Lx	Ly	Lz	条件 Precondition	负载 Load	Lx	Ly	Lz
V=2m/s a=2G S=1m	13	1399	385	699	V=2m/s a=2G S=1m	13	867	433	548
	10	1862	512	931		10	1161	580	734
	7	2722	748	1361		7	1707	853	1080
V=1m/s a=1G S=1m	45	419	203	419	V=1m/s a=1G S=1m	45	244	244	258
	35	559	271	559		35	333	333	352
	25	811	393	811		25	493	493	521
V=0.5m/s a=0.5G S=1m	100	202	158	404	V=0.5m/s a=0.5G S=1m	90	123	246	195
	90	228	179	456		80	144	288	229
	80	261	205	522		70	171	342	272

LC22H3B					LC22H3B				
水平安装 Horizontal Installation					壁挂安装 Wall Installation				
条件 Precondition	负载 Load	Lx	Ly	Lz	条件 Precondition	负载 Load	Lx	Ly	Lz
V=2m/s a=2G S=1m	25	1156	294	578	V=2m/s a=2G S=1m	25	700	350	394
	20	1481	376	740		20	907	453	510
	15	2023	514	1011		15	1251	625	704
V=1m/s a=1G S=1m	75	405	171	405	V=1m/s a=1G S=1m	75	222	222	194
	65	478	202	478		65	268	268	235
	55	578	245	578		55	332	332	291
V=0.5m/s a=0.5G S=1m	110	314	199	628	V=0.5m/s a=0.5G S=1m	100	186	372	226
	90	392	248	784		80	247	495	301
	70	514	326	1029		60	349	699	425

1、可负载条件: $\frac{Lx1}{Lx} + \frac{Ly1}{Ly} + \frac{Lz1}{Lz} \leq 1$; ($Lx1$, $Ly1$, $Lz1$ 为实际值)

1. Allowable Load Conditions: $Lx1/Lx + Ly1/Ly + Lz1/Lz \leq 1$; $Lx1$, $Ly1$, and $Lz1$ represent actual values)

2、 Lx , Ly , Lz 表示该方向的重心位置;

2. Lx , Ly , and Lz represent the position of the center of gravity in each respective direction.

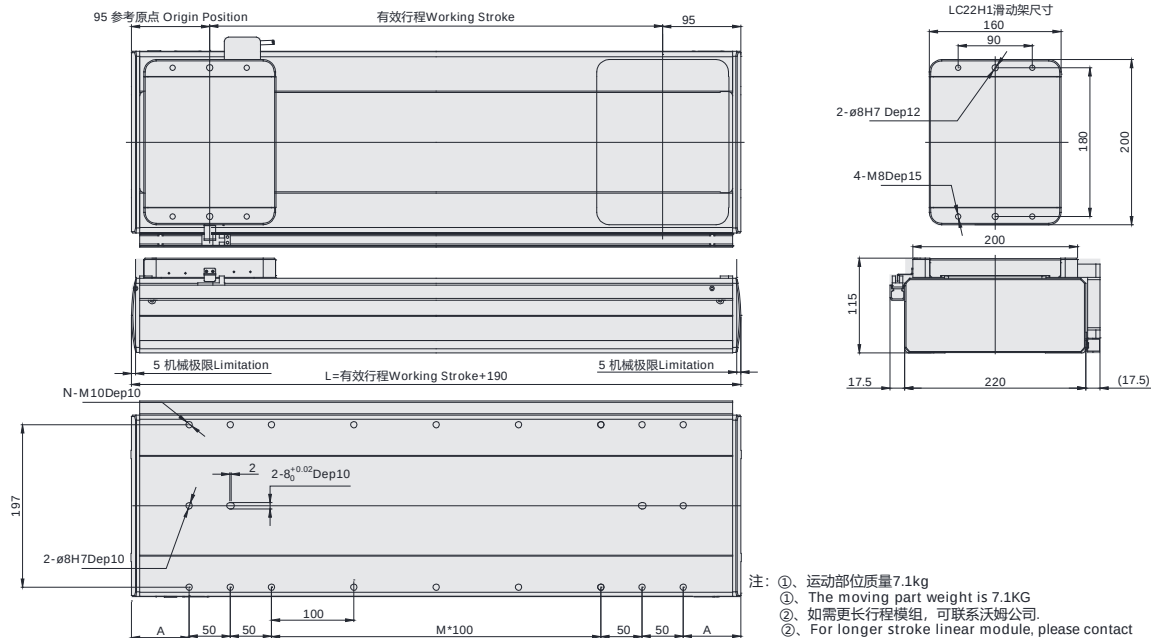
3、满足负载条件, 预测寿命60000KM;

3. If load conditions are met, the predicted service life is 60,000 KM.

LC22

LC22H1

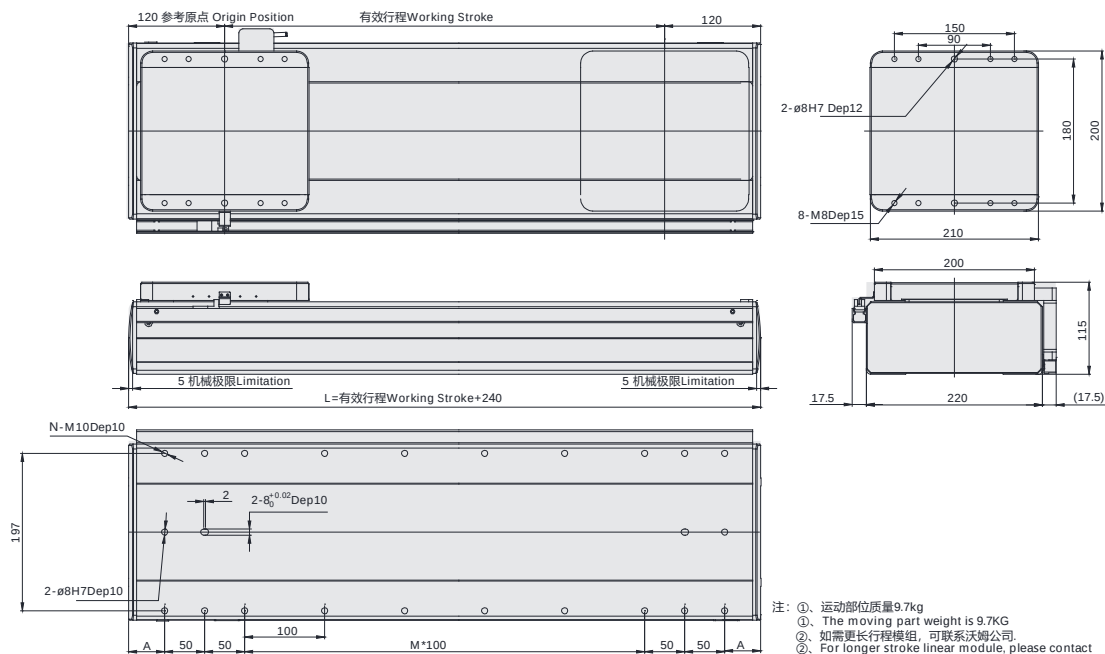
单位 Unit (mm)



行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42
KG	14.6	15.9	17.2	18.5	19.8	21.1	22.4	23.7	25	26.3	27.6	28.9	30.2	31.5	32.8	34.1	35.4	36.7	38	39.3	40.6	41.9	44.5	45.8	47.1	48.4	49.7	51	52.3	53.6	54.9	56.2	57.5

LC22H2

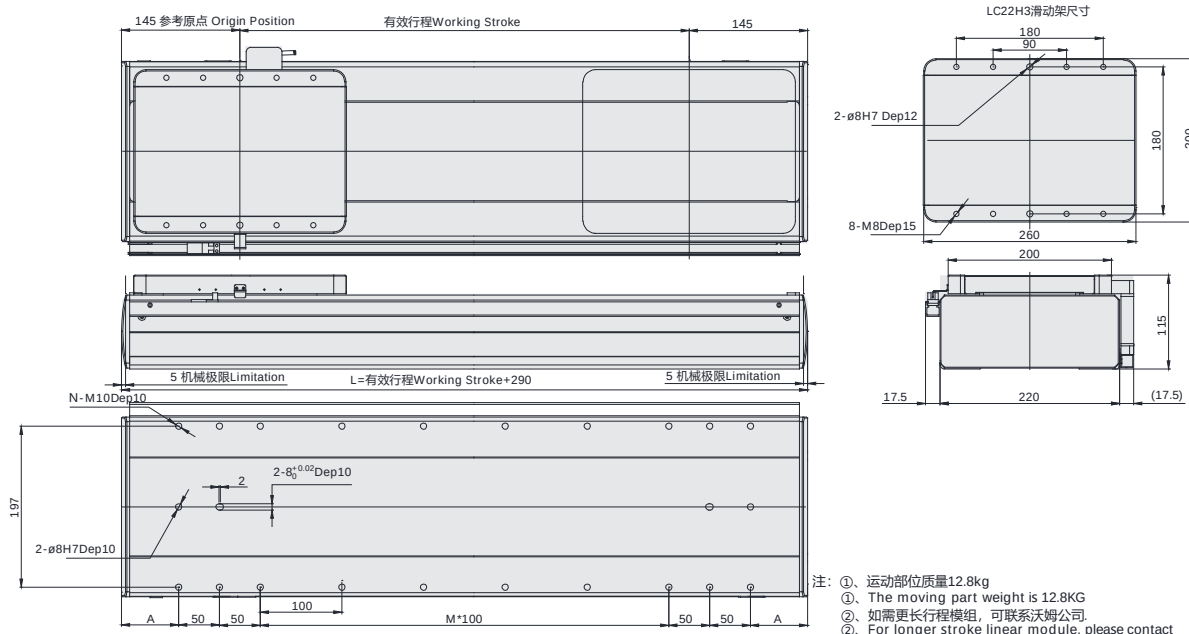
单位 Unit (mm)



行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940
A	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42
KG	18.6	19.9	21.2	22.5	23.8	25.1	26.4	27.7	29	30.3	31.6	32.9	34.2	35.5	36.8	38.1	39.4	40.7	42	43.3	44.6	45.9	47.2	48.5	49.8	51.1	52.4	53.7	55	56.3	57.6	58.9	60.2

LC22H3

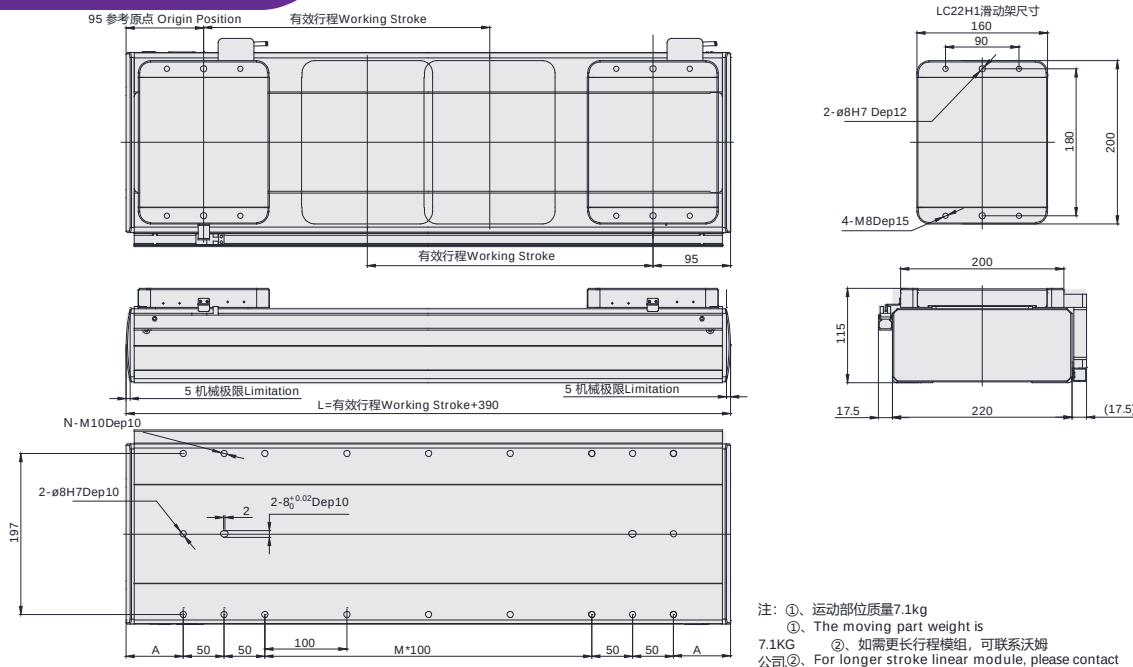
单位 Unit (mm)



行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44
KG	22.6	23.9	25.2	26.5	27.8	29.1	30.4	31.7	33	34.3	35.6	36.9	38.2	39.5	40.8	42.1	43.4	44.7	46	47.3	48.6	49.9	51.2	52.5	53.8	55.1	56.4	57.7	59	60.3	61.6	62.9	64.2

2LC22H1

单位 Unit (mm)

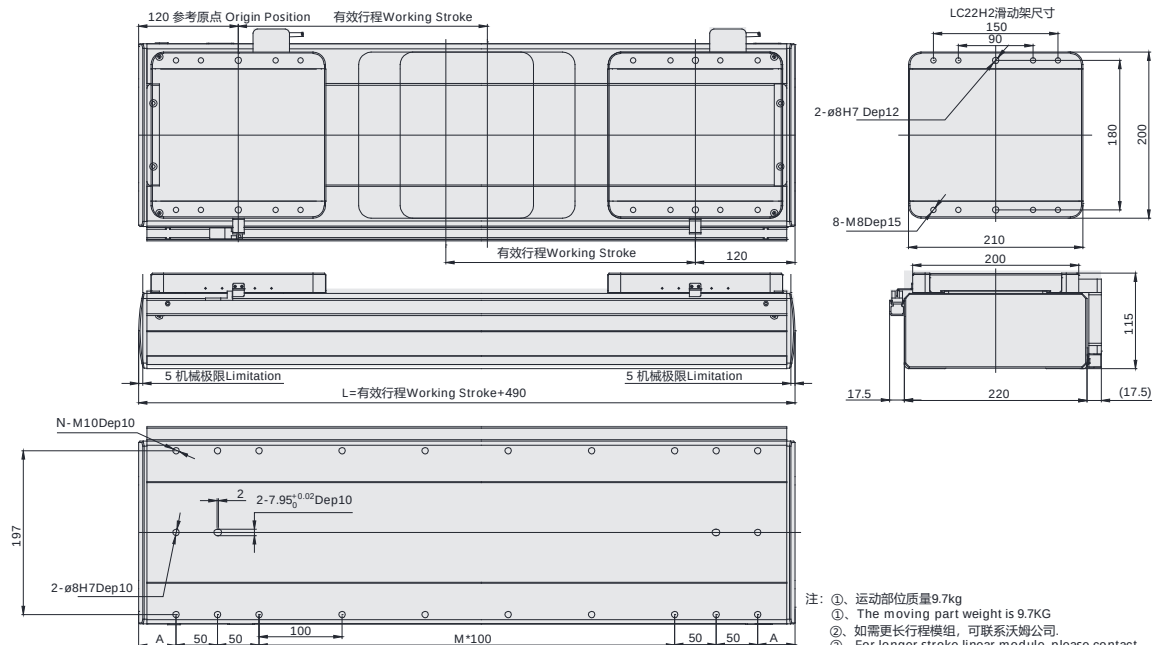


行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18
N	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46
KG	25.2	26.5	27.8	29.1	30.4	31.7	33	34.3	35.6	36.9	38.2	39.5	40.8	42.1	43.4	44.7	46	47.3	48.6	49.9	51.2	52.5	53.8	55.1	56.4	57.7	59	60.3	61.6	62.9	64.2	65.5	66.8

LC22

2LC22H2

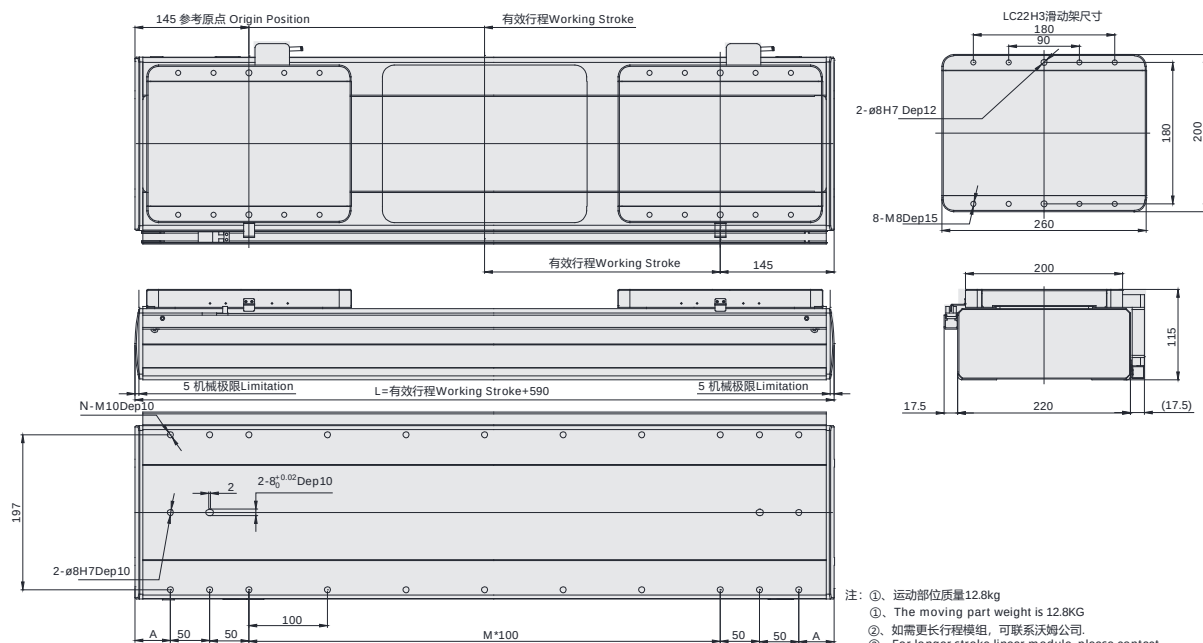
单位 Unit (mm)



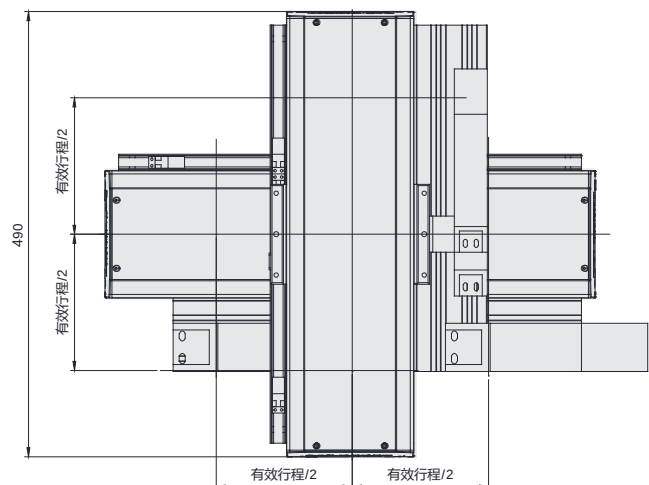
	WOMMER																																
行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	2140	2190
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46	48
KG	33.2	34.5	35.8	37.1	38.4	39.7	41	42.3	43.6	44.9	46.2	47.5	48.8	50.1	51.4	52.7	54	55.3	56.6	57.9	59.2	60.5	61.8	63.1	64.4	65.7	67	68.3	69.6	70.9	71.2	72.5	73.8

2LC22H3

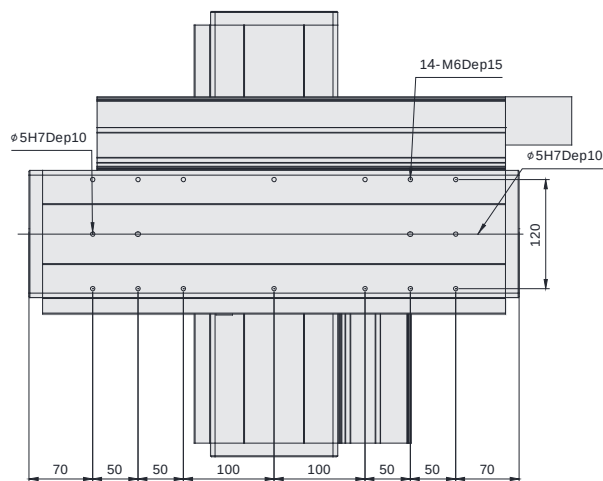
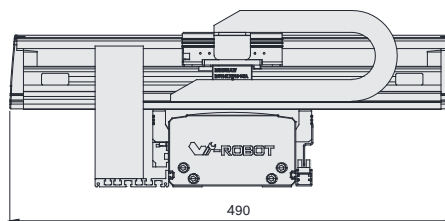
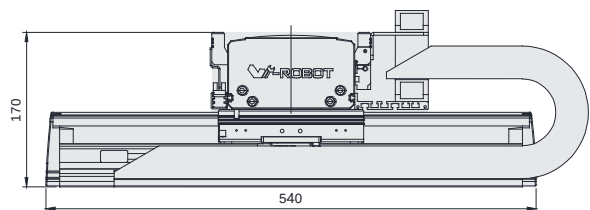
单位 Unit (mm)



行程	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	2140	2190	2240	2290
A	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45
M	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20
N	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46	48	48	50
KG	41.2	42.5	43.8	45.1	46.4	47.7	49	50.3	51.6	52.9	54.2	55.5	56.8	58.1	59.4	60.7	62	63.3	64.6	65.9	67.2	68.5	69.8	71.1	72.4	73.7	75	76.3	77.6	78.9	80.2	81.5	82.8



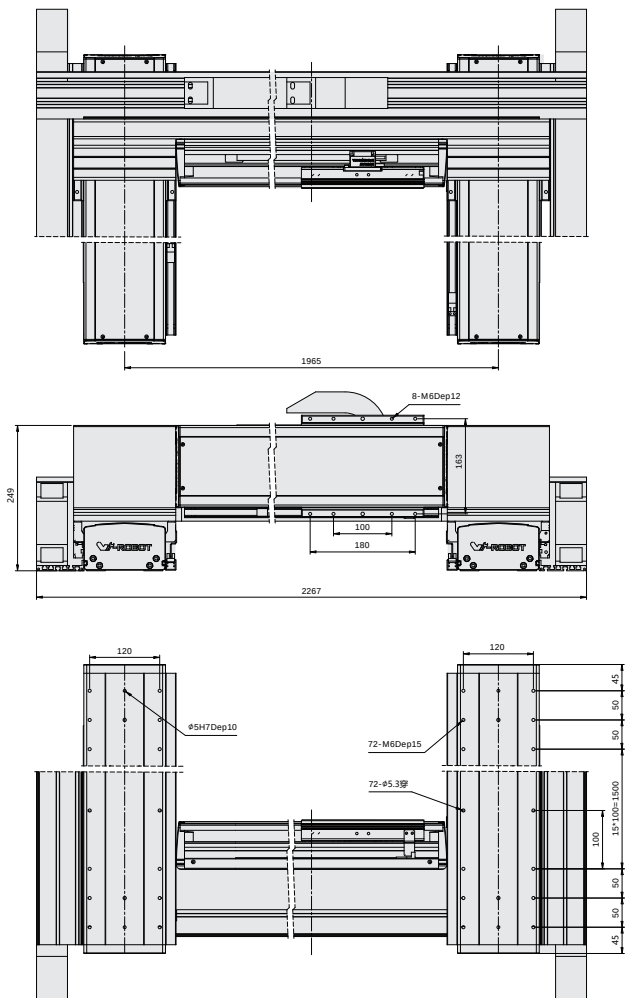
XY组合



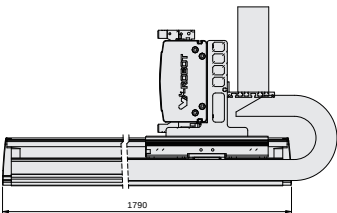
平台规格: Table model:	VL66-F1-300S2-300S1			
峰值推力(N) Peak force(N)	上轴: 300 Up axial 300	下轴: 452 Lower axial 452	重复定位精度(um) Repeatability(um)	磁性编码器 + -5 光学编码器 + -2 Magnetic encoder ±5 Optical encoder ±2
持续推力(N) Continuous force(N)	上轴: 92 Up axial 92	下轴: 132 Lower axial 132	定位精度(um) Position accuracy(um)	磁性编码器 + -15 光学编码器 + -6 Magnetic encoder ±15 Optical encoder ±6
行程(mm) Stroke(mm)	上轴: 300 Up axial 300	上轴: 300 Lower axial 300	限位开关 Limit switch	光电开关 Photoelectric switch
最大加速度(m/s/s) Max acceleration(m/s/s)	8		外观 Facade	黑色 black
最大速度(mm/s) Maximum Speed(mm/s)	800		基座材质 Base seat material	铝合金 Alufer
额定载荷(kg) Rated Payload(kg)	10		安装方式 Installation way	水平安装 Horizontal
编码器(um) Encoder(um)	磁性编码器或光学编码器可选 Magnetic encoder or optical encoder is optional		平台重量(kg) Table weight(kg)	23.2

客户定制产品

Customized products



龙门双驱组合



平台规格: Table model:		VL66-G1-1500S3-1500F3				
峰值推力(N) Peak force(N)	Y轴: 345 Y axial	345	X轴: 604 X axial	604	重复定位精度(um) Repeatability(um)	磁性编码器+ -5 光学编码器+ -2 Magnetic encoder±5 Optical encoder±2
持续推力(N) Continuous force(N)	Y轴: 97 Y axial	97	X轴: 172 X axial	172	定位精度(um) Position accuracy(um)	磁性编码器+ -15 光学编码器+ -6 Magnetic encoder±15 Optical encoder±6
行程(mm) Stroke(mm)	Y轴: 1500 Y axial	1500	X轴: 1500 X axial	1500	限位开关 Limit switch	光电开关 Photoelectric switch
最大加速度(m/s/s) Max.acceleration(m/s/s)	10				外观 Facade	黑色 black
最大速度(mm/s) Maximum Speed(mm/s)	1000				基座材质 Base seat material	铝合金 Alufer
额定载荷(kg) Rated Payload(kg)	5				安装方式 Installation way	水平安装 Horizontal
编码器(um) Encoder(um)	磁性编码器或光学编码器可选 Magnetic encoder or optical encoder is optional				平台重量(kg) Table weight(kg)	23.2