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VERTEX AUTOMATION TECH CO.,LTD



COMPANY INTRODUCTION

企业简介

Vertex Automation Tech Co., Ltd Founded in 2001, is an ISO-9001:2015 certified company headquartered in Shenzhen, Mainland China. We have 15 years of experience in manufacturing single-axis robots, multi-axis robots, ball screws, linear guides, and other automation equipment. We have a highly skilled and experienced development team and a strict quality control system, so our customers are very satisfied with our products.

Vertex Automation Tech is one of the largest manufacturers of automation equipment in China. Our company covers an area of 3,5000 square meters . We strengths lie in precision control and stable product quality.

Currently, our products have been exported to more than 50 countries and regions around the world, including Europe, North America, South America and Southeast Asia.

Excellent quality, competitive price, timely delivery and satisfactory service are the long term tenets of our company. We are looking forward to cooperating with you.

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Single-Axis Robot CK Series

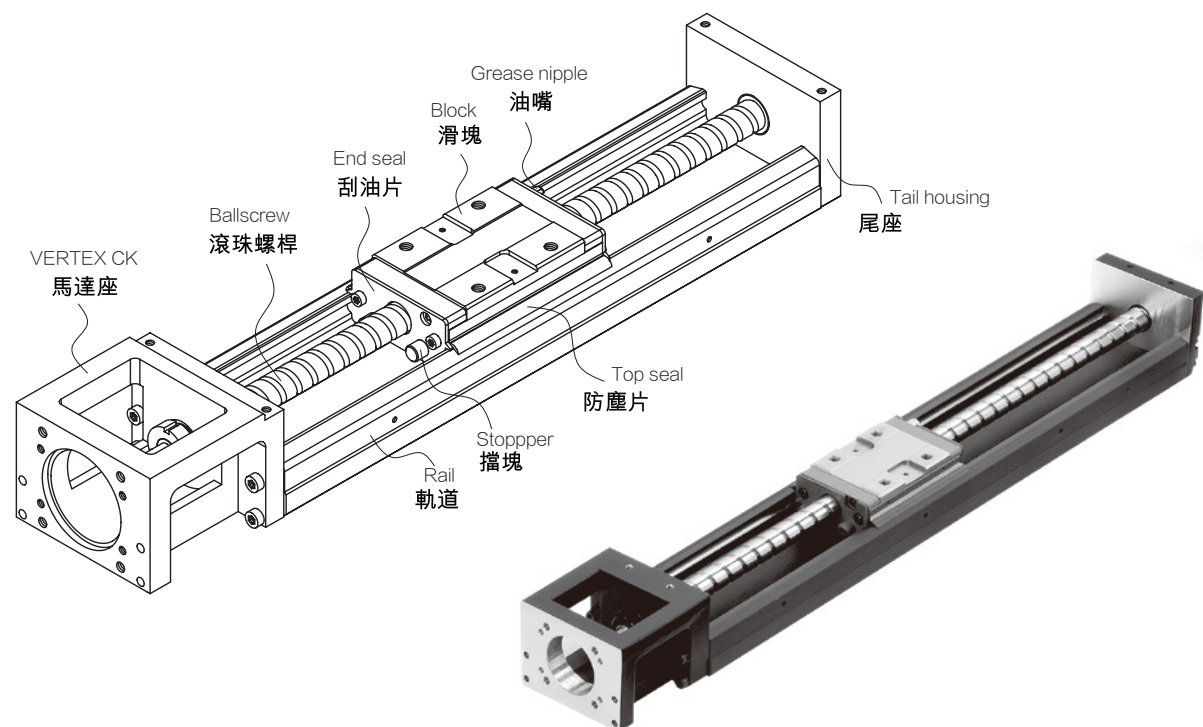
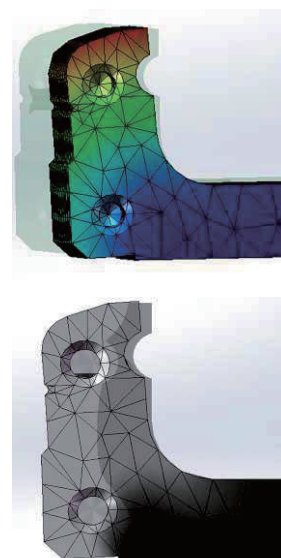
The VERTEX CK single-axis robot is driven by a ballscrew while a guideway slides on an optimized U-rail to achieve higher accuracy and greater stiffness.

CK 工业机器人主要是透过模组化之设计，将滚珠螺杆和线性滑轨整合在一起，因此可提供具有高精度快速安装、选用、高刚性、体积小、节省空间等特性。
藉由高精度之滚珠螺杆做为传动机构，以及配合最佳化设计之 U 型轨道做为导引机构，来确保精度与刚性之需求。

1.1 Features 特性

- An integrated system
- Easy installation and maintenance
- Compact and lightweight
- High accuracy
- High stiffness
- Complete line of accessories
- 设计及安装容易
- 体积小重量轻
- 高精度
- 高刚性
- 配备齐全
- 最适化设计

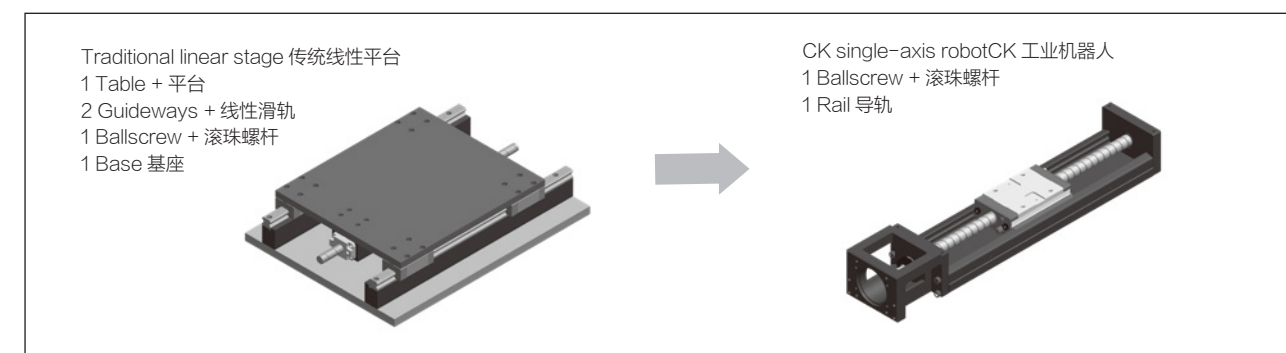
The structure of rail is analyzed by FEA to get the best rigidity and weight. The analysis results are shown as the right figures.
轨道结构由有限元素分析得到最好刚性与重量，分析如右图所述



1.1.1 Modulization 模组化

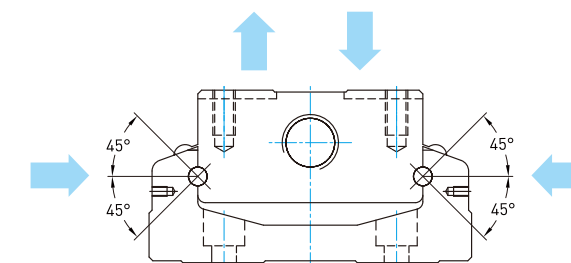
The CK single-axis robot integrating a ballscrew and guideway forms a modularized product. The modularized design can help customers save time, cost and system inspection. Therefore, installation efficiency and a spacesaving design are also promoted.

CK 工业机器人透过模组化之设计，整合滚珠螺杆和线性滑轨，可节省以往传统致动平台需经过导引和驱动元件之选用、安装校验、体积大、佔空间等缺点。因此 CK 工业机器人可提供快速选用、安装、体积精简、高刚性等特性，可大幅减少客户端的使用空间与时间。



1.1.2 Equivalent Load 四方向等负荷

The gothic arch contact design sustains load from all directions and offers high rigidity and accuracy. 轨道和滑块之间的回流系统，其滚珠与珠槽接触面采用 2 列式歌德牙型之设计，具有 45 度接触角之特性，该设计可使得 CK 工业机器人可承受四方向等负荷之能力。



1.1.3 High Stiffness 高刚性

Using finite element analysis on the U-shaped cross section allows the volume and rigidity to be made balanced, therefore, a high rigidity rail, compact design and a light weight design are also accomplished simultaneously.

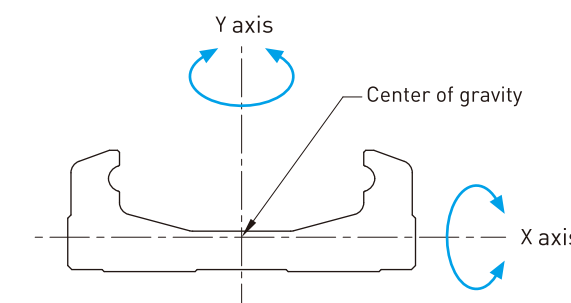
轨道构型采用 U 型断面，并透过有限元素分析软体的设计，在体积与刚性上取得平衡点，使得轨道具有高刚性、体积精简、重量轻等特性。

Moment of inertia 惯性矩

Unit 单位: mm⁴

Model no. 型号	Ix	Iy
CK40	3.533x10 ³	5.317x10 ⁴
CK50	9.6x10 ³	1.34x10 ⁵
CK60	2.056x10 ⁴	2.802x10 ⁵
CK86	7.445x10 ⁴	1.134x10 ⁶
CK100	1.296x10 ⁵	2.035x10 ⁶
CK130	2.546x10 ⁵	5.073x10 ⁶

I_{xx} : Moment of inertia computed about X axis 延著 X 轴之惯性矩
I_{yy} : Moment of inertia computed about Y axis 延著 Y 轴之惯性矩

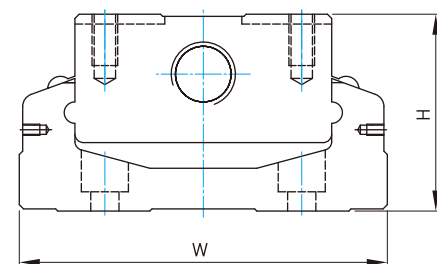


1.1.4 Various Specification 规格多样化

CK single-axis robots of various specifications are developed, providing customers with different choices relating to space and loading conditions.

针对各种不同的使用需求，开发出下列多种 CK 工业机器人，提供客户依使用需求、空间、负载来选用。

Model no. 型号	W	H
CK40	40	20
CK50	50	26
CK60	60	33
CK86	86	46
CK100	100	55
CK130	130	65

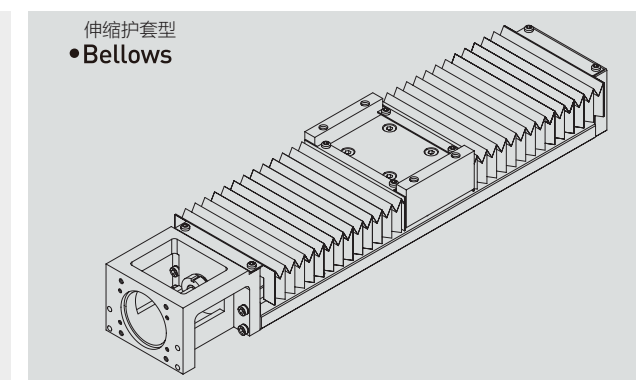
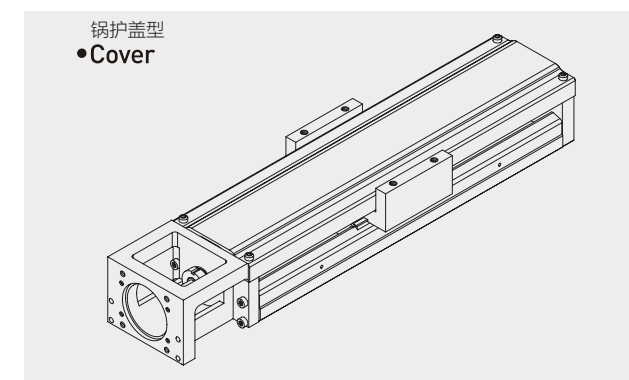
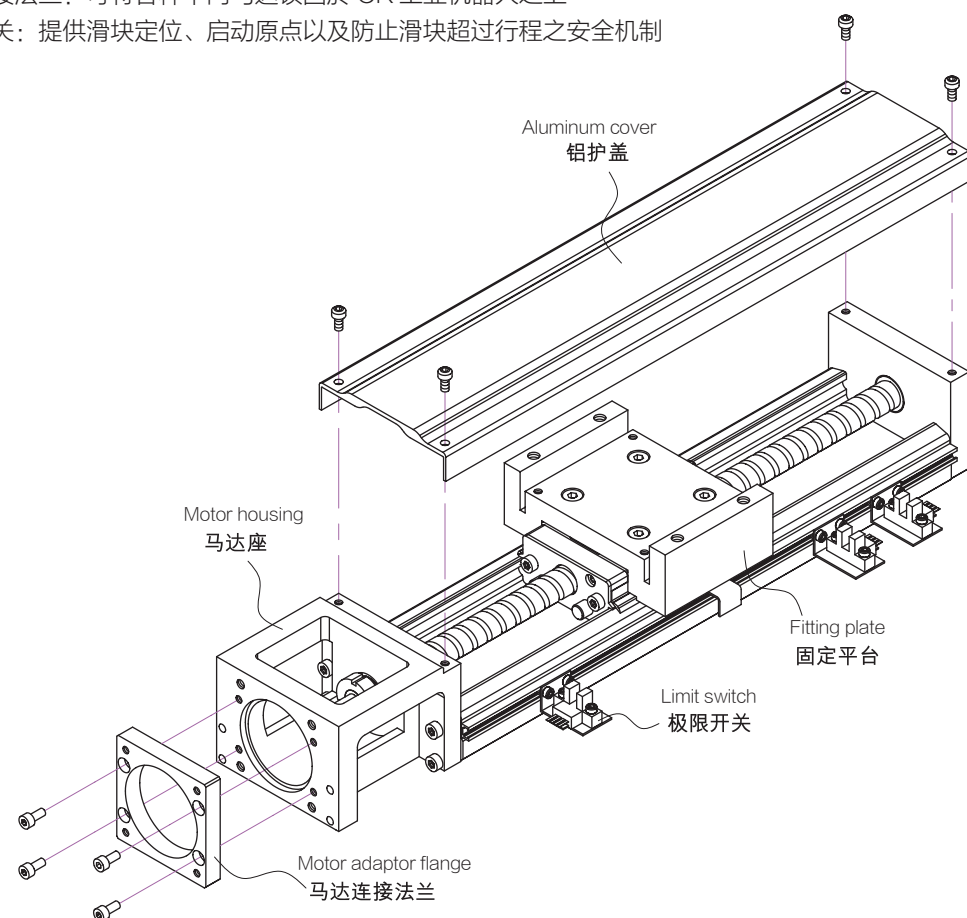


1.2 Accessories 选购配件

Accessories of CK single-axis robot are also supported for specific demands, such as an aluminum cover, bellows, motor adaptor flange and limit switches.

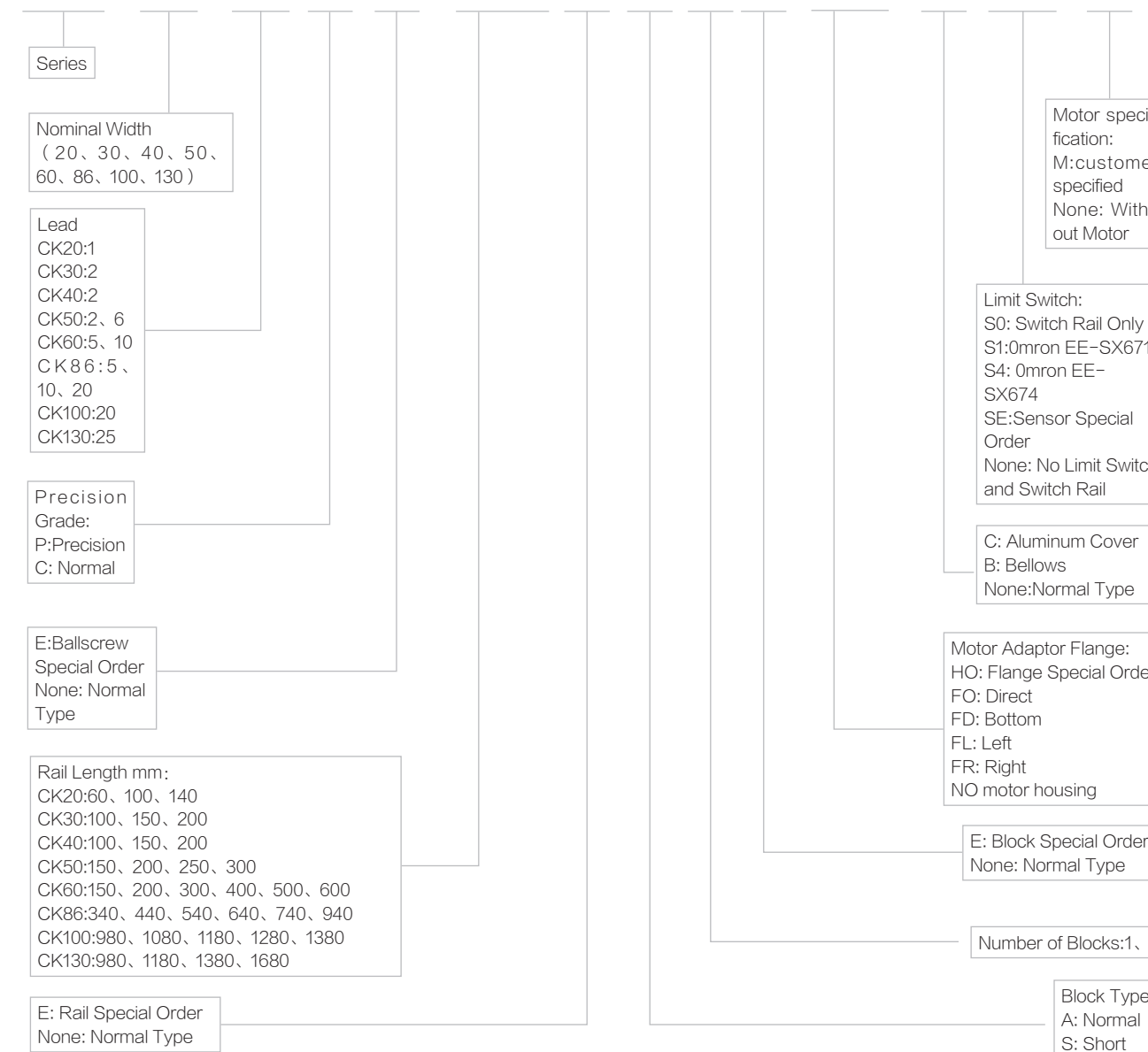
为因应各种的使用需求，CK 工业机器人可另外选购铝护盖、伸缩护套、马达连接法兰、极限开关。

- ◎ Aluminum cover and bellow: contamination protection
- ◎ Motor adaptor flange: connection for different types of motors
- ◎ Limit switches: starting point, positioning and other safety matters
- ◎ 铝护盖、伸缩护套：可防止异物、杂质进入 CK 工业机器人之内而影响其使用寿命、精度、顺畅度
- ◎ 马达连接法兰：可将各种不同马达锁固於 CK 工业机器人之上
- ◎ 极限开关：提供滑块定位、启动原点以及防止滑块超过行程之安全机制

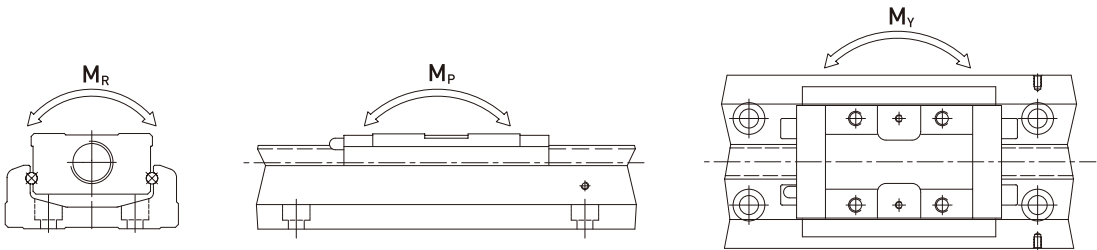


1.3 Model Number of CK Series 产品型号

CK 60 10 P E-400 E A 2 E-FO C S0-M



1.4 Specifications 负载规格



Model No. 型号		Ballscrew 滚珠螺杆				Guideway 线性滑轨															
		Nominal Diameter 公称外径 (mm)	Lead 导程 (mm)	Basic Dynamic Load 基本动额定负荷 (N)	Basic Static Load Rating 基本静额定负荷 (N)	Static Rated Moment 容许静力矩															
						Basic Dynamic Load Rating 基本动额定负荷 (N)				Basic Static Load Rating 基本静额定负荷 (N)				Allowable Static Moment MP (N-m) (pitching) 俯仰 MP(N - m)							
						Block 滑座 A	Block 滑座 S	Block 滑座 A	Block 滑座 S	Block 滑座 A1	Block 滑座 A2	Block 滑座 S1	Block 滑座 S2	Block 滑座 A1	Block 滑座 A2	Block 滑座 S1	Block 滑座 S2	Block 滑座 A1	Block 滑座 A2	Block 滑座 S1	Block 滑座 S2
CK2001	Precision 精密级	4	1	290	420	620	—	810	—	10	52	—	—	10	52	—	—	20	40	—	—
	Normal 一般级			250	320																
CK3002	Precision 精密级	6	2	645	1058	2200	—	3500	—	14	73			14	73	—	—	41	82	—	—
	Normal 一般级			615	1008																
CK4002	Precision 精密级	8	2	735	1538	3920	—	6468	—	33	182	—	—	33	182	—	—	81	162	—	—
	Normal 一般级			676	1284																
CK5002	Precision 精密级	8	2	2136	3489	8007	—	12916	—	116	545	—	—	116	545	—	—	222	444	—	—
	Normal 一般级			1813	2910																
CK6005	Precision 精密级	12	5	3744	6243	13230	7173	21462	11574	152	760	72	367	152	760	72	367	419	838	241	482
	Normal 一般级			3377	5625																
CK6010	Precision 精密级	12	10	2410	3743	13230	7173	21462	11574	152	760	72	367	152	760	72	367	419	838	241	482
	Normal 一般级			2107	3234																
CK8610	Precision 精密级	16	10	7144	12642	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014	847	1694
	Normal 一般级			6429	11387																
CK8620	Precision 精密级	16	20	4645	7655	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014	847	1694
	Normal 一般级			4175	6889																
CK10020	Precision 精密级	20	20	7046	12544	39200	—	63406	—	960	4763	—	—	960	4763	—	—	2205	4410	—	—
	Normal 一般级			4782	9163																
CK13025	Precision 精密级	25	25	7897	15931	48101	—	84829	—	1536	7350	—	—	1536	7350	—	—	3885	7770	—	—
	Normal 一般级			7092	14352																

1.5 Accuracy Grade 精度等级

Unit 单位: mm

Model 型号	Rail Length 轨道长度	Repeatability 定位重现性		Accuracy 定位精度		Running Parallelism 行走平行度		Starting Torque 最大启动扭力 (N-cm)	
		Precision 精密级	Normal 一般级	Precision 精密级	Normal 一般级	Precision 精密级	Normal 一般级	Precision 精密级	Normal 一般级
CK20	60	±0.003	±0.01	0.020		0.010		0.7	0.5
	100								
	140								
CK30	100	±0.003	±0.01	0.020		0.010		0.8	0.5
	150								
	200								
CK40	100	±0.003	±0.01	0.020		0.010		1.2	0.8
	150								
	200								
CK50	150	±0.003	±0.01	0.020		0.010		4	2
	200								
	250								
	300								
CK60	150	±0.003	±0.01	0.020		0.010		15	7
	200								
	300								
	400								
	500	±0.003	±0.01	0.025		0.015		15	7
	600								
CK86	340	±0.003	±0.01	0.025		0.015		15	10
	440								
	540								
	640								
	740	±0.003	±0.01	0.030		0.020		17	10
	940	±0.003	±0.01	0.040		0.030		25	10
CK100	980	±0.005	±0.01	0.035		0.025		17	12
	1080								
	1180	±0.005	±0.01	0.040		0.03		20	12
	1280								
	1380								
CK130	980	±0.005	±0.01	0.035		0.025		25	15
	1180								
	1380								
	1680	±0.007	±0.012	0.05		0.04		27	18

1.6 Maximum Speed Limit 最大速度

Model 型号	Ballscrew Lead 滚珠螺杆导程 (mm)	Rail Length L2 轨道长度 L2(mm)	Speed 速度 (mm/sec)	
			Precision 精密级	Normal 一般级
CK20	01	60	100	100
		100	100	100
		140	100	100
CK30	02	100	200	200
		150	200	200
		200	200	200
CK40	02	100	270	270
		150	270	270
		200	270	270
CK50	02	150	270	270
		200	270	270
		250	270	270
		300	270	270
CK60	05	150	550	390
		200	550	390
		300	550	390
		400	550	390
		500	550	390
		600	340	340
	10	150	1100	790
		200	1100	790
		300	1100	790
		400	1100	790
		500	1100	790
		600	670	670
CK86	10	340	740	520
		440	740	520
		540	740	520
		640	740	520
		740	740	520
		940	610	430
	20	340	1480	1050
		440	1480	1050
		540	1480	1050
		640	1480	1050
		740	1480	1050
		940	1220	870
CK100	20	980	1120	800
		1080	980	800
		1180	750	750
		1280	510	630
		1380	440	530
CK130	25	980	1120	800
		1180	1120	800
		1380	830	800
		1680	550	550

1.7 Life Calculations 寿命的计算

1.7.1 Service Life 寿命

Under repeated stress between the raceway and the rolling elements, pitting and flaking will occur as it reaches fatigue failure. The service life of the CK single-axis robot is defined as the distanced traveled before any failure of the raceway or rolling elements appear.

线性滑轨承受负荷并作运动时，珠道表面与钢珠因不断地受到循环应力的作用， 一但到连滚动疲劳的临界值，接 触面就会开始产生疲劳破损，并在部份表面发生鱼鳞状薄片的剥落现象，此种现象叫做表面剥离。寿命的定义即为 珠道表面及钢珠因材料疲劳而产生表面剥离时为止的总运行距离。

1.7.2 Nominal Life (L) 额定寿命

The service life varies greatly even when the CK units are manufactured in the same way or operated under the same conditions. For this reason, nominal life is used as the criteria for predicting the service life of a CK unit.

直线工业机器人的寿命，具有很大的分散性，即使同一批制造的产品，在相同的运动状态下使用，寿命也会所有不同。因此额定寿命即用来定义 CK 模组在操作过程中寿命的基准。

1.7.3 Nominal Life Calculation CK 模组之额定寿命计算

The calculating formulas are divided into two parts, guideway and ballscrew. The smaller value of the two would be the recommended nominal life of the CK unit.

Nominal life formulas for both the guideway and ballscrew depend on several parameters and are shown below.

工业机器人之寿命计算可分为两部分进行，包括线性滑轨与滚珠螺杆，并以计算过程中数值较小者为该模组之额定寿命。其计算式分别如下：

Guideway 线性滑轨

$$L = \left(\frac{f_i}{f_w} \cdot \frac{C}{P_n} \right)^3 \times 50 \text{ km}$$

L: Life Rating 额定寿命 (公里 km)

f_i: Contact Coefficient (ref. Table 1) 接触系数 (参考表格 1)

f_w: Loading Coefficient (ref. Table 2) 负荷系数 (参考表格 2)

C: Basic Dynamic Load Rating 基本动额定负荷 (N)

P_n: Calculated Loading 工作负荷 (N)

Table 表格 1

Block Type 滑座型式	Contact Coefficient 接触係系数 f _i
A1,S1	1.0
A2,S2	0.81

Table 表格 2

Operating Condition 工作环境		负荷系数 f _w
Thrust and Vibration 负荷状况	Velocity 速度 (V)	
No Thrust 无冲击力且平滑	V 低速 V<15m/min	1.0 ~ 1.5
普通负荷力	Low Vibration 中速 15<V<60m/min	1.5 ~ 2.0
受冲击力及振动	High Vibration 高速 V>60m/min	2.0 ~ 3.5

Ballscrew and Bearing 滚珠螺杆及轴承

$$L = \left(\frac{1}{f_w} \cdot \frac{C_a}{P_{a,n}} \right)^3 \times 10^6 \text{ rev}$$

L: Life Rating (rev.) 额定寿命 (旋转数)

f_w: Loading Coefficient (ref. Table 2) 负荷系数 (参考表格 2)

C_a: Basic Dynamic Load Rating 基本动额定负荷 (N)

P_{an}: Axial Loading 轴向工作负荷 (N)

CK30-FO 电机直联



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座			Block A1 滑座	Block A2 滑座
100	154	56	—	25	2	0.22	—
150	204	106	70	25	3	0.28	0.32
200	254	156	120	25	4	0.34	0.38

CK30-HO 电机直联



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座			Block A1 滑座	Block A2 滑座
100	154	56	-	25	2	0.24	-
150	204	106	70	25	3	0.30	0.34
200	254	156	120	25	4	0.36	0.40

CK40-FO 电机直联



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座			Block A1 滑座	Block A2 滑座
100	159	36	—	20	2	0.46	—
150	209	86	34	15	3	0.59	0.67
200	259	136	84	40	3	0.72	0.8

CK40-FL 电机左装

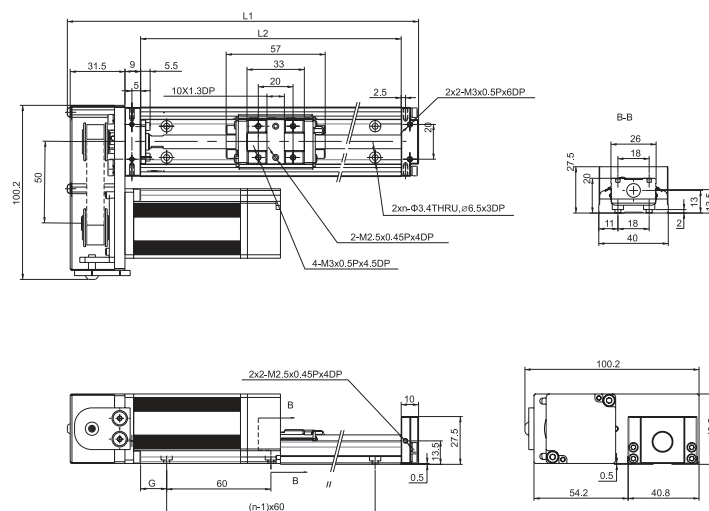


Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座			Block A1 滑座	Block A2 滑座
100	152	36	-	20	2	0.6	-
150	202	86	34	15	3	0.73	0.81
200	252	136	86	40	3	0.86	0.94

CK40 Standard 标准
With cover 含护盖

Unit 单位: mm

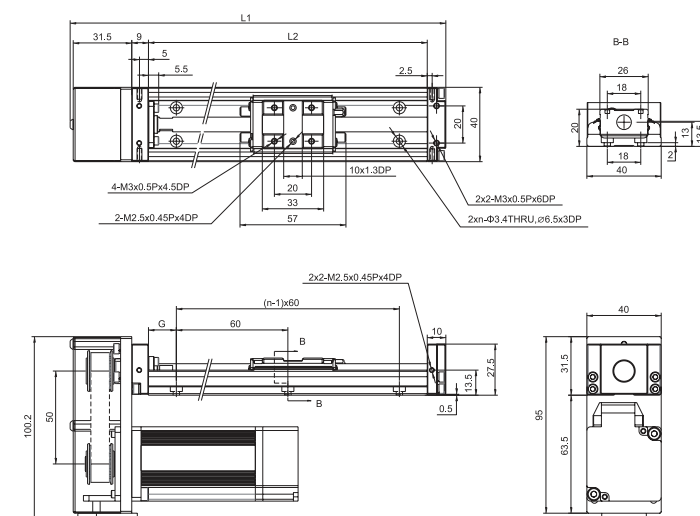
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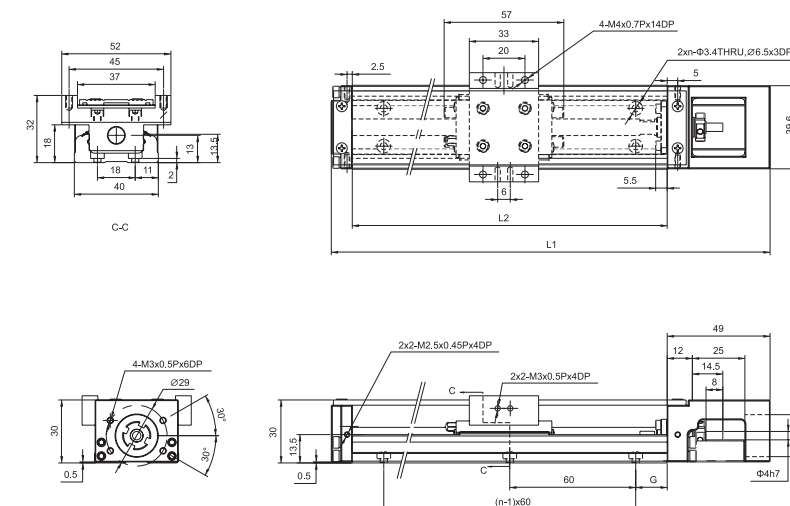
Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座			Block A1 滑座	Block A2 滑座
100	152	36	—	20	2	0.6	—
150	202	86	34	15	3	0.73	0.81
200	252	136	86	40	3	0.86	0.94

CK40-FL 电机左装

Unit 单位: mm

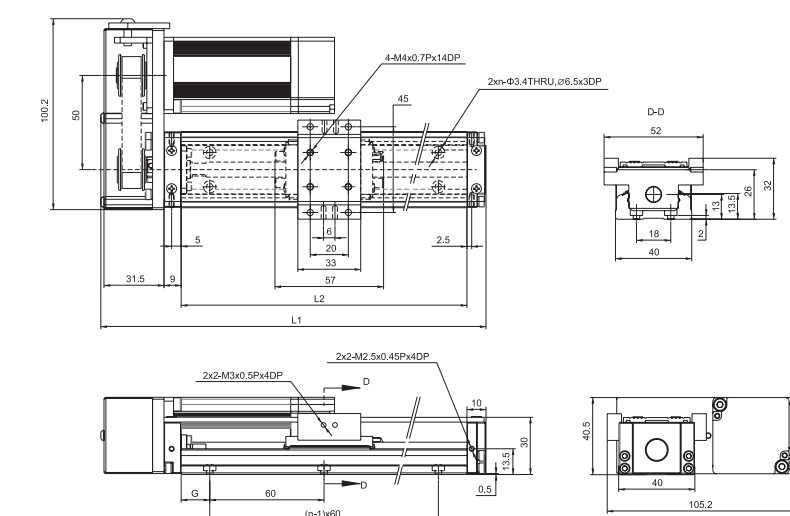


Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座			Block A1 滑座	Block A2 滑座
100	152	36	-	20	2	0.6	-
150	202	86	34	15	3	0.73	0.81
200	252	136	86	40	3	0.86	0.94



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座			Block A1 滑座	Block A2 滑座
100	159	36	—	20	2	0.53	—
150	209	86	34	15	3	0.67	0.79
200	259	136	84	40	3	0.81	0.93

Unit 单位: mm



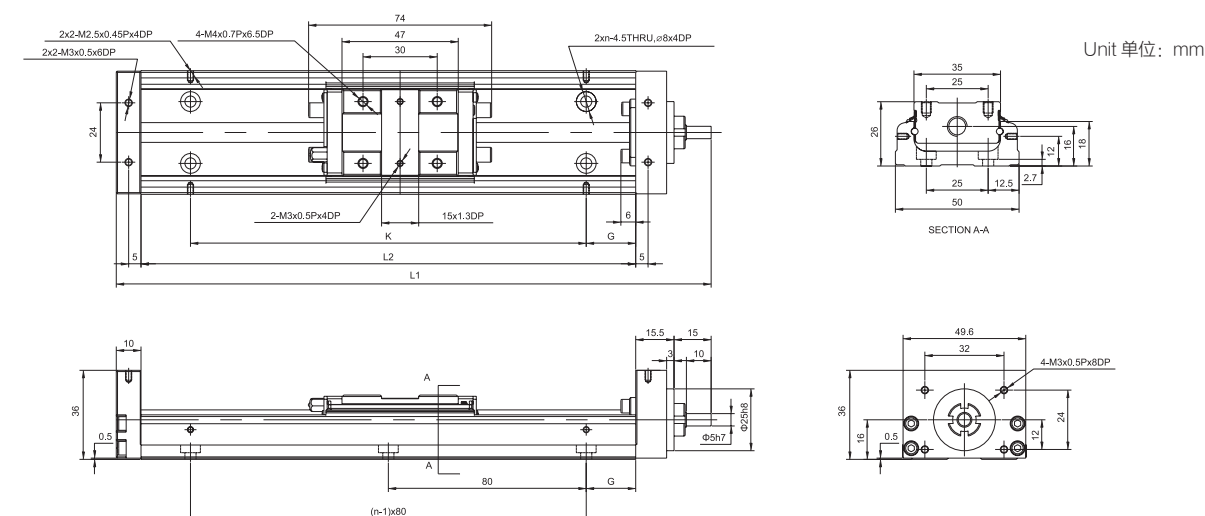
Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座			Block A1 滑座	Block A2 滑座
100	152	36	—	20	2	0.67	—
150	202	86	34	15	3	0.81	0.93
200	252	136	86	40	3	0.95	1.07

CK50 Standard 标准
Without cover 不含护盖

[illegible]

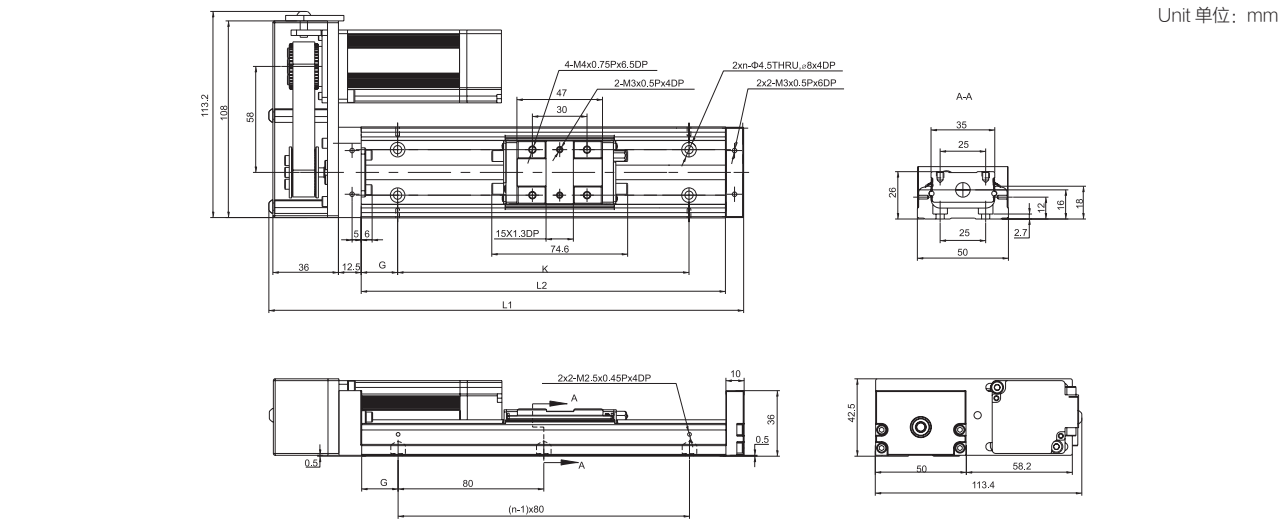
Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座				Block A1 滑座	Block A2 滑座
150	220	70	—	35	80	2	1	—
200	270	120	55	20	160	3	1.2	1.4
250	320	170	105	45	160	3	1.4	1.6
300	370	220	155	30	240	4	1.6	1.8

CK50-HO



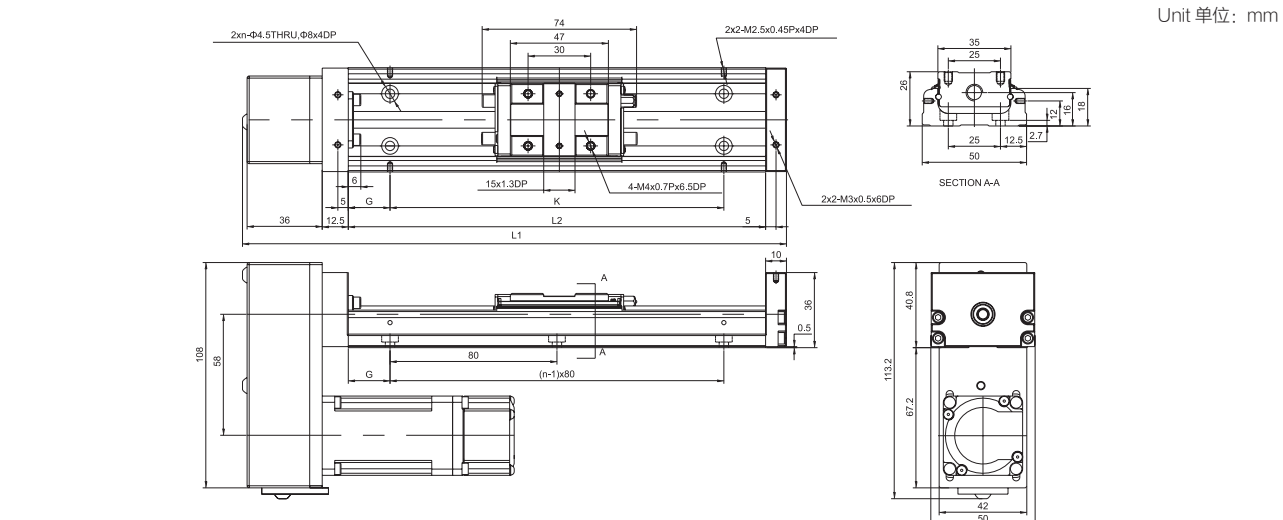
Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座				Block A1 滑座	Block A2 滑座
150	190.5	70	—	35	80	2	0.9	—
200	240.5	120	55	20	160	3	1.1	1.3
250	290.5	170	105	45	160	3	1.3	1.5
300	340.5	220	155	30	240	4	1.5	1.7

CK50-FL 电机左装



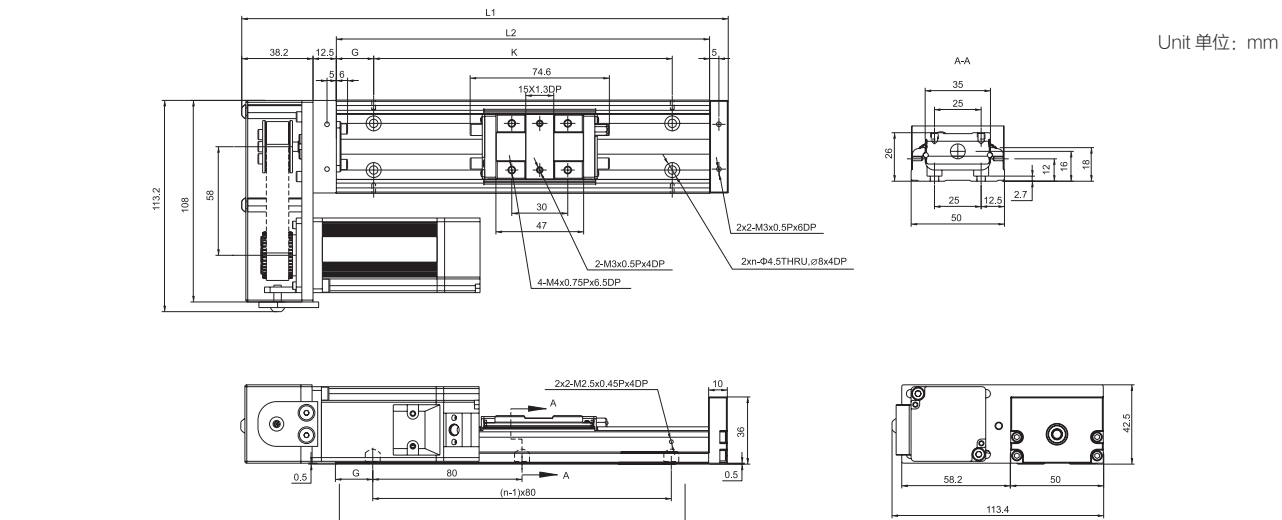
Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座				Block A1 滑座	Block A2 滑座
150	210.7	70	-	35	80	2	0.9	-
200	260.7	120	55	20	160	3	1.1	1.3
250	310.7	170	105	45	160	3	1.3	1.5
300	360.7	220	155	30	240	4	1.5	1.7

CK50-FD 电机下装



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座				Block A1 滑座	Block A2 滑座
150	210.7	70	-	35	80	2	0.9	-
200	260.7	120	55	20	160	3	1.1	1.3
250	310.7	170	105	45	160	3	1.3	1.5
300	360.7	220	155	30	240	4	1.5	1.7

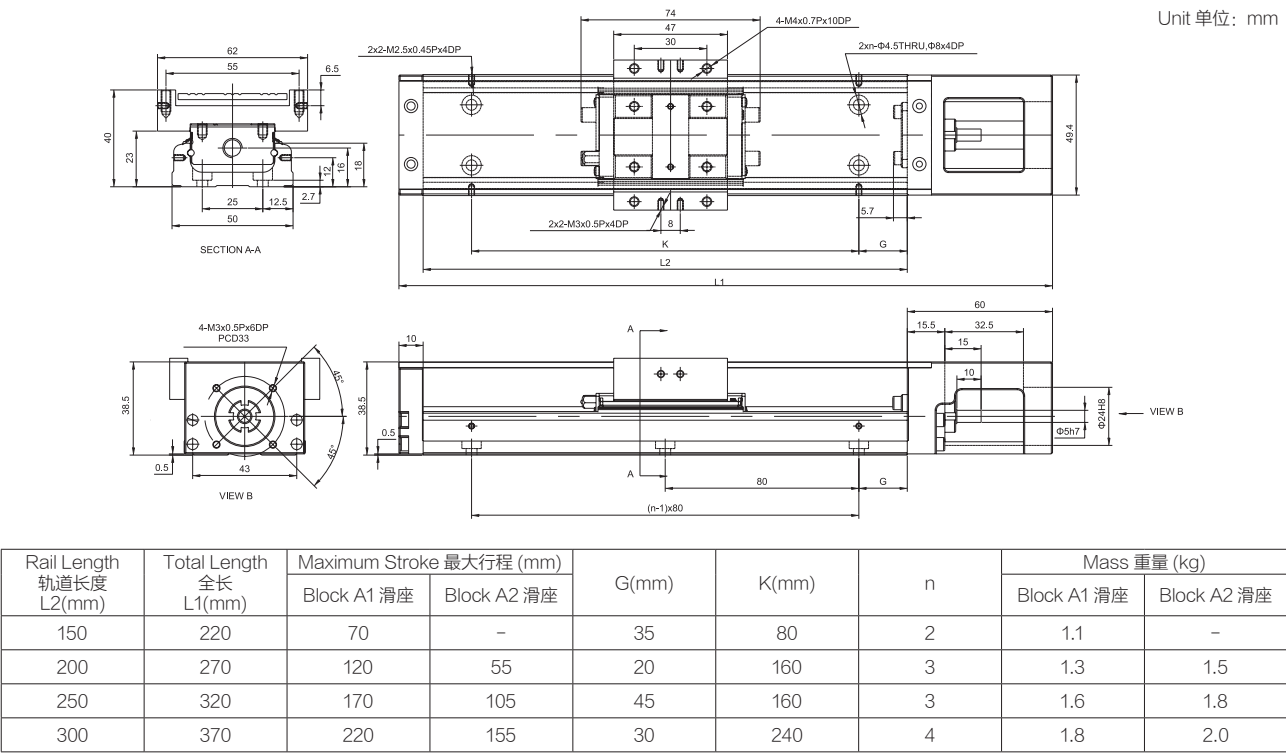
CK50-FR 电机右装



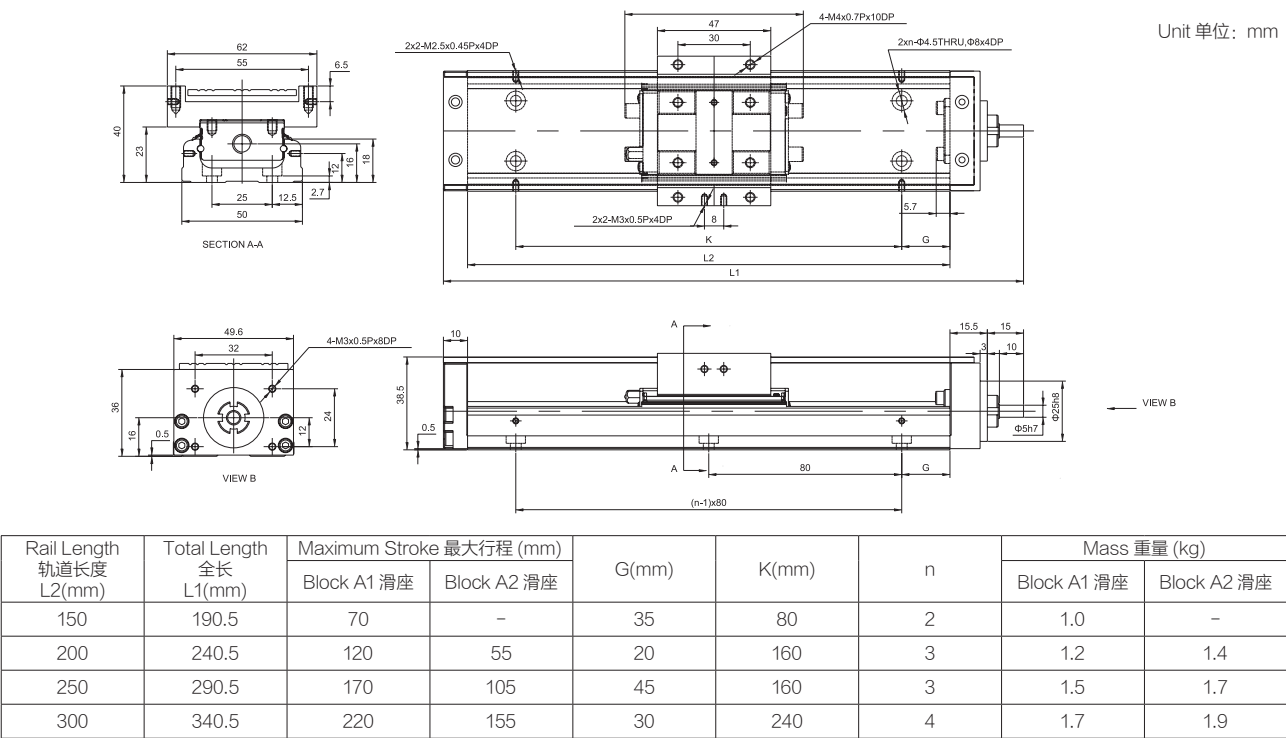
Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座				Block A1 滑座	Block A2 滑座
150	210.7	70	-	35	80	2	0.9	-
200	260.7	120	55	20	160	3	1.1	1.3
250	310.7	170	105	45	160	3	1.3	1.5
300	360.7	220	155	30	240	4	1.5	1.7

CK50 Standard 标准
With cover 含护盖

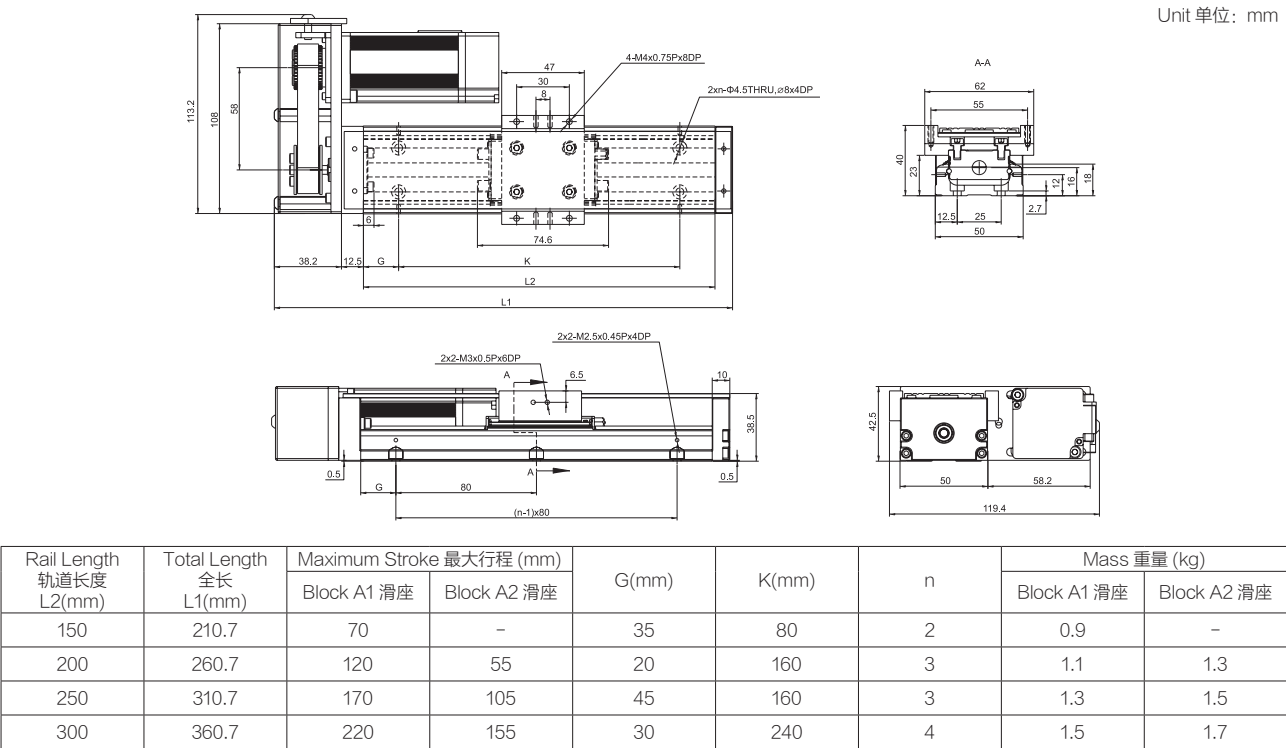
CK50-FO 电机直联



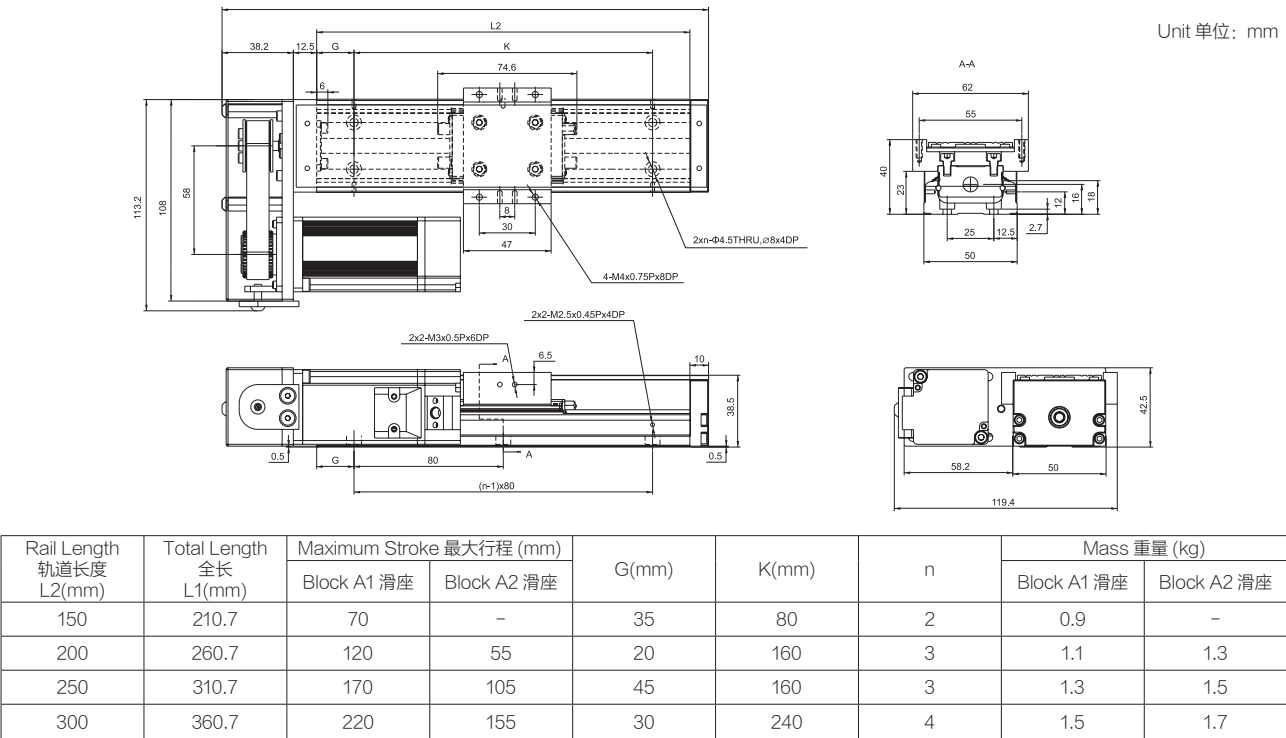
CK50-HO



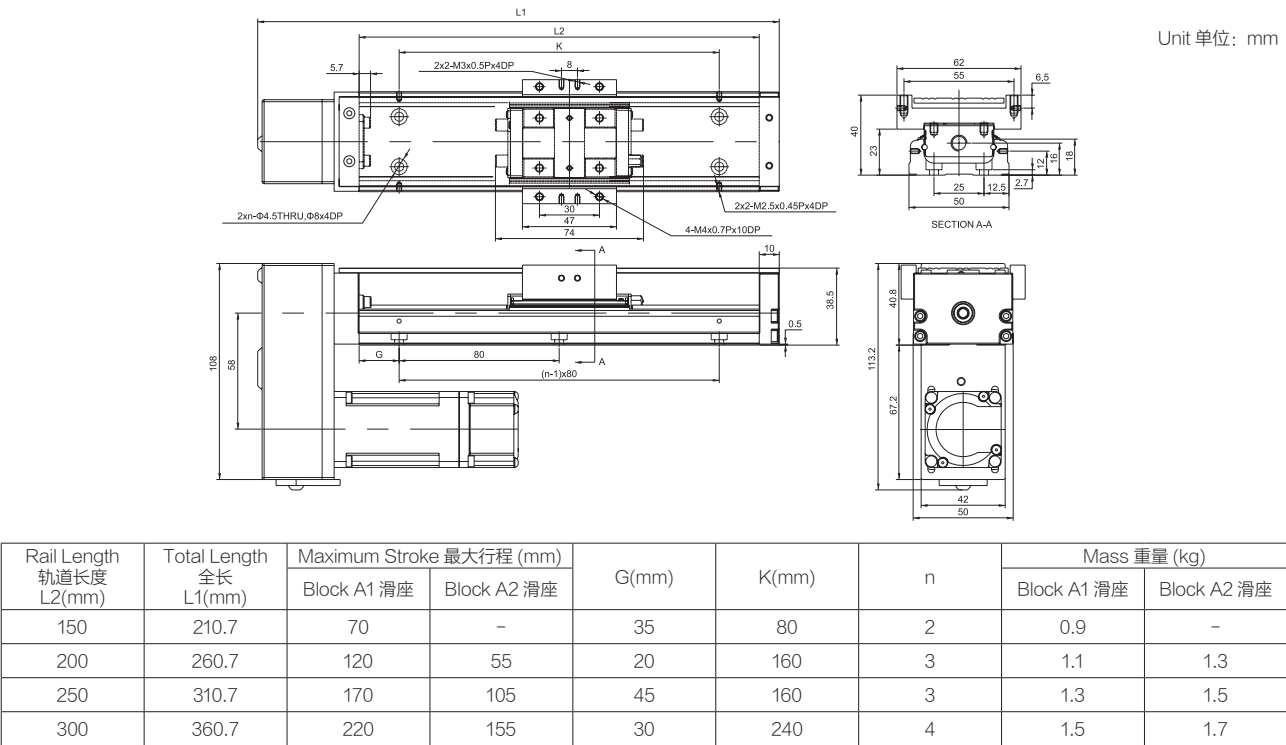
CK50-FL 电机左装



CK50-FR 电机右装

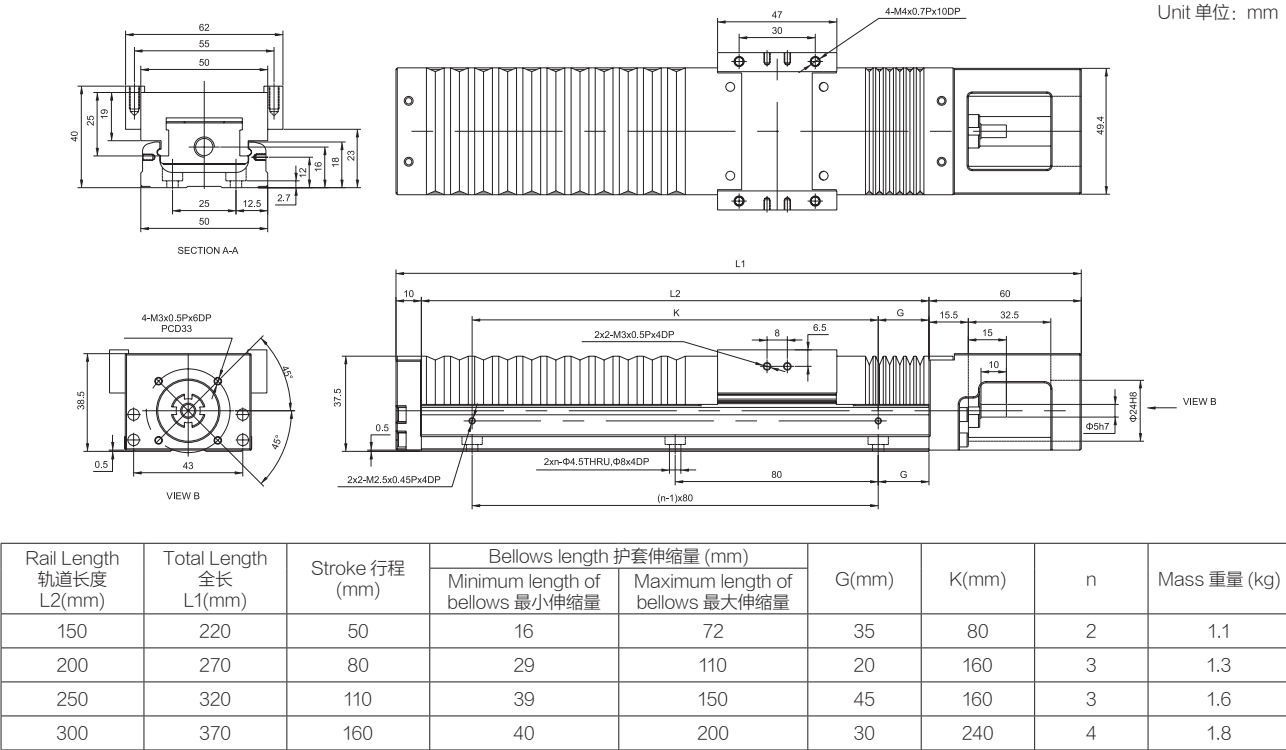


CK50-FD 电机下装

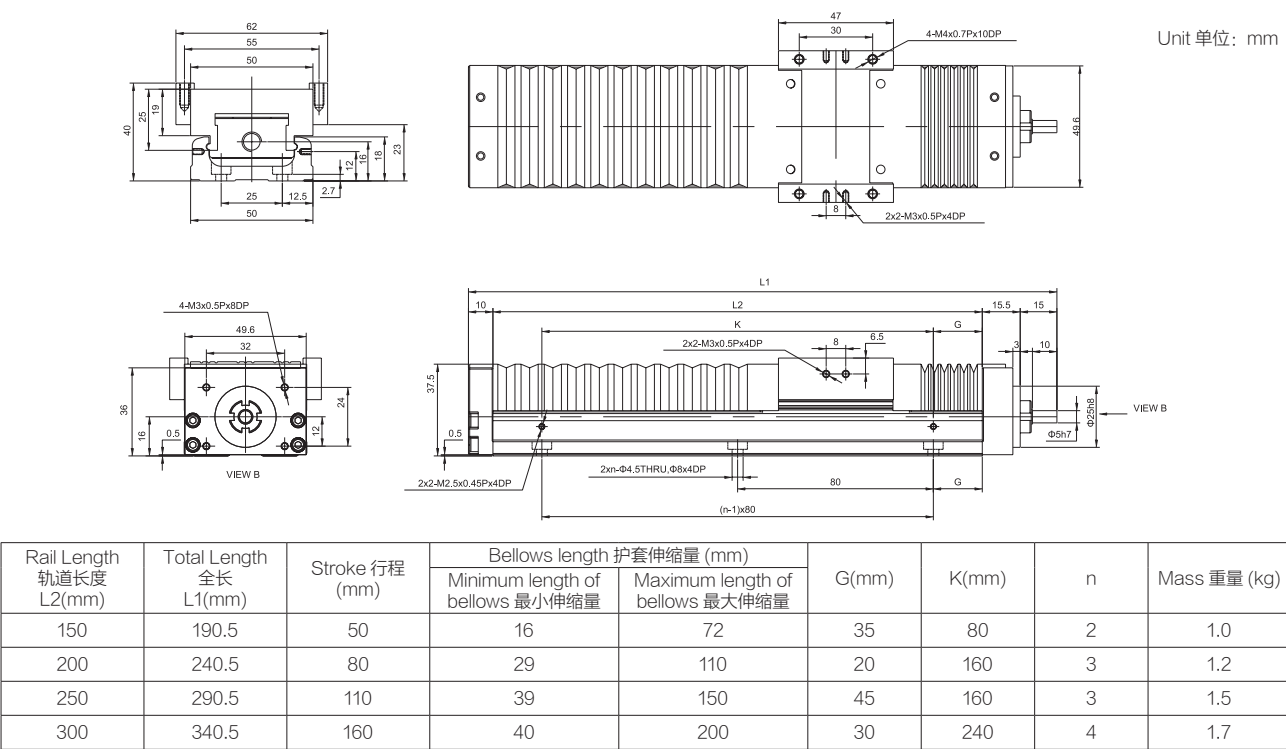


CK50 Standard 标准
With Bellows 含伸缩护罩

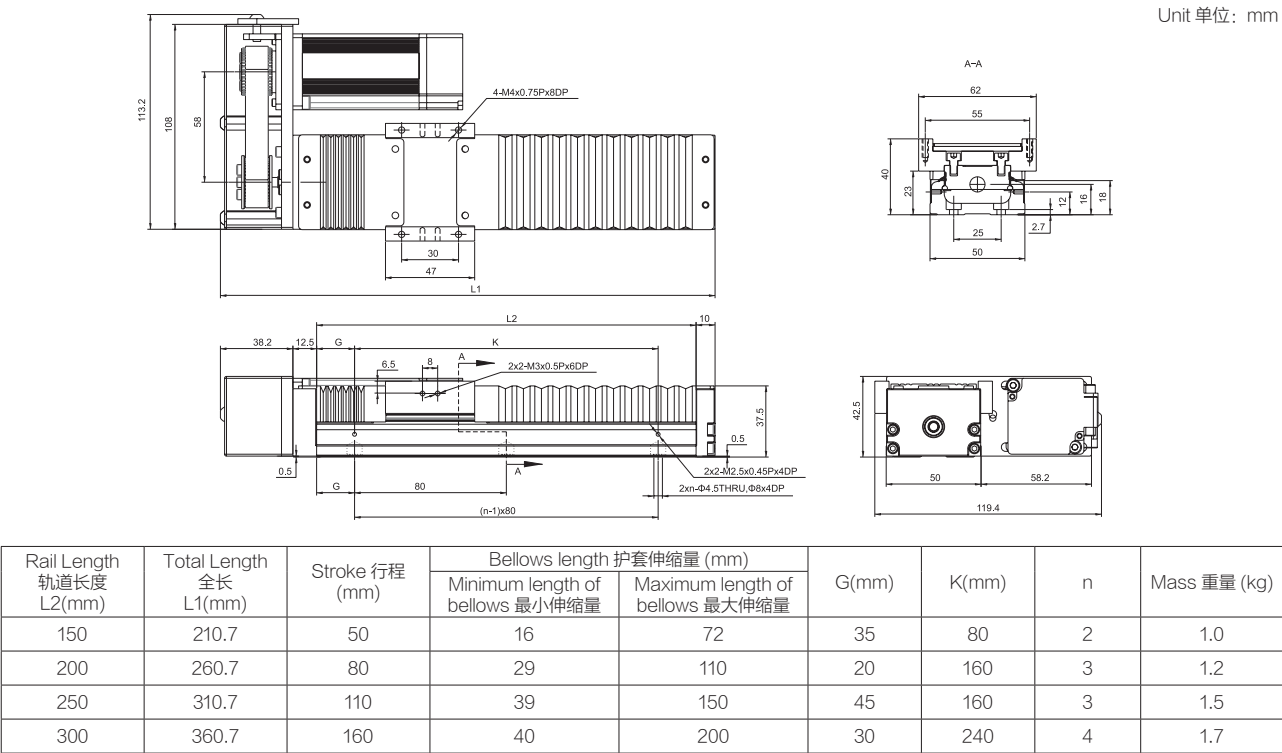
CK50-FO 电机直联



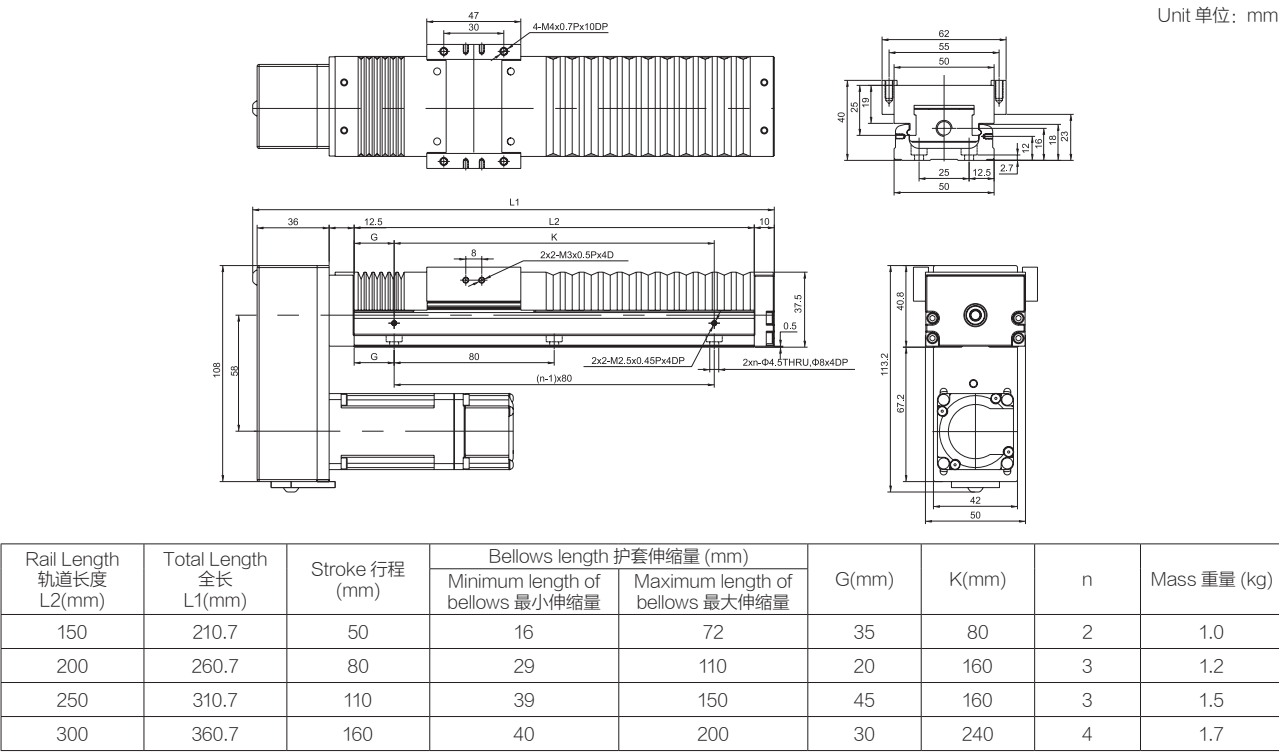
CK50-HO



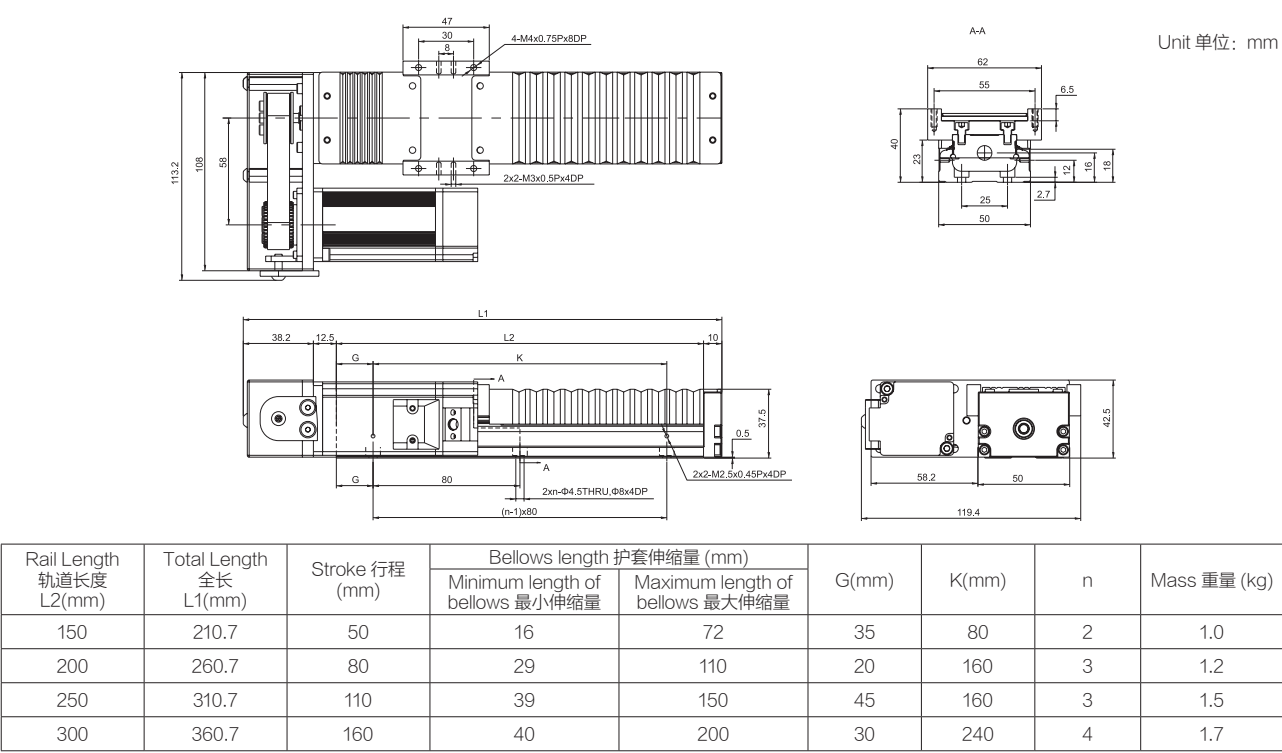
CK50-FL 电机左装



CK50-FD 电机下装



CK50-FR 电机右装

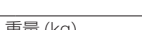


CK60-FO 电机直联



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block S1 滑座	Block S2 滑座
150	220	60	—	25	100	2	2	1.5	—
200	270	110	—	50	100	2	2	1.8	—
300	370	210	135	50	200	3	2	2.4	2.7
400	470	310	235	50	100	4	4	3	3.3
500	570	410	335	50	200	5	3	3.6	3.9
600	670	510	435	50	100	6	6	4.2	4.6

Unit 单位: mm



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
150	195	60	-	25	100	2	2	1.4	-
200	245	110	-	50	100	2	2	1.7	-
300	345	210	135	50	200	3	2	2.3	2.6
400	445	310	235	50	100	4	4	3.2	3.2
500	545	410	335	50	200	5	3	3.5	3.8
600	645	510	435	50	100	6	6	4.1	4.5

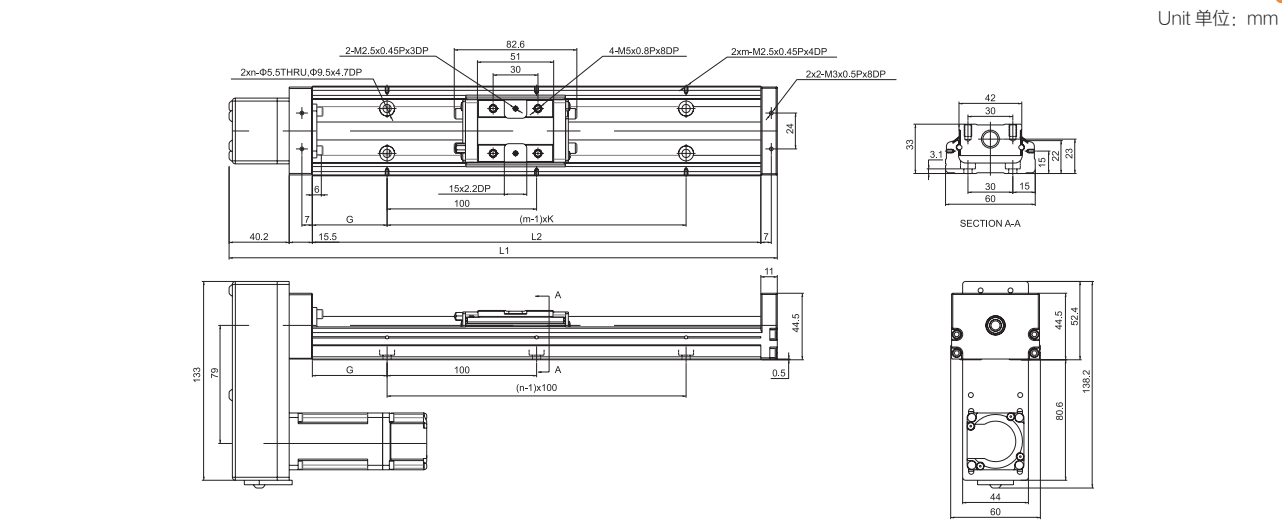
Unit 单位: mm



Unit 单位: mm



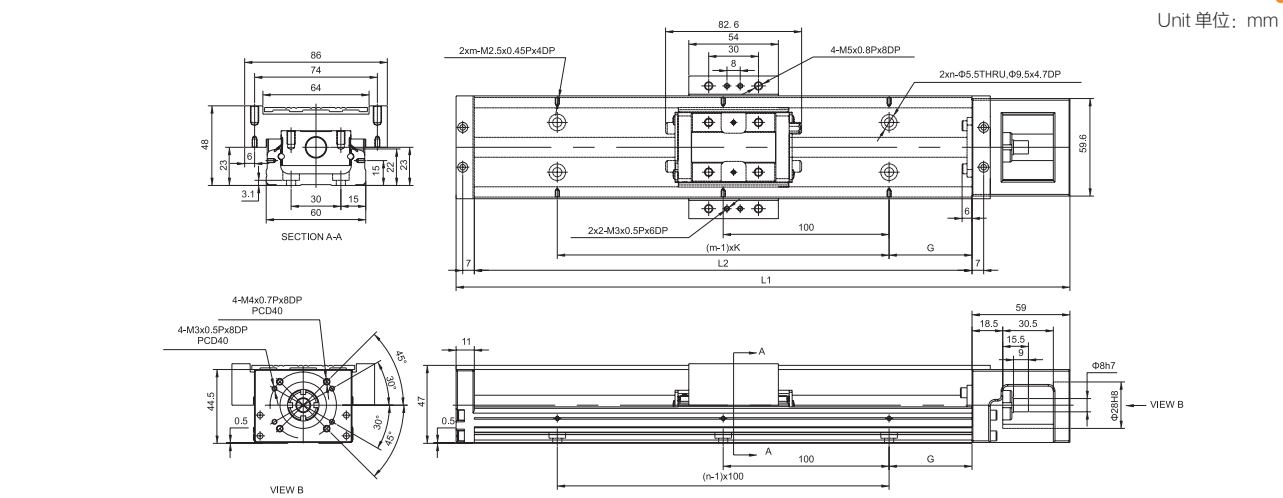
CK60-FD 电机下装



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
150	216.7	60	-	25	100	2	2	1.4	-
200	266.7	110	-	50	100	2	2	1.7	-
300	366.7	210	135	50	200	3	2	2.3	2.6
400	466.7	310	235	50	100	4	4	3.2	3.2
500	566.7	410	335	50	200	5	3	3.5	3.8
600	666.7	510	435	50	100	6	6	4.1	4.5

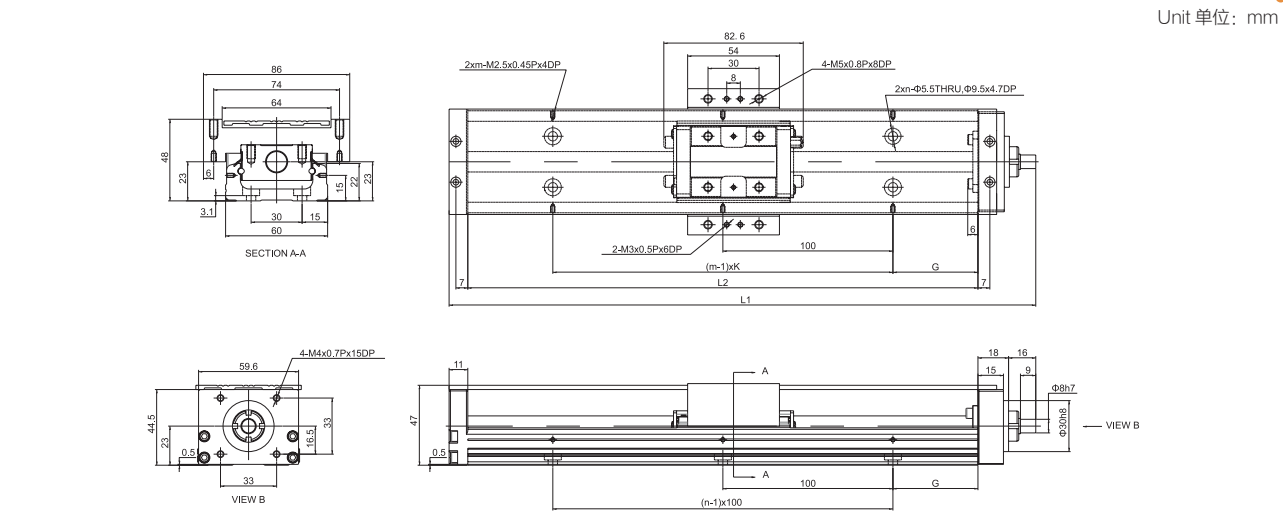
CK60 Standard 标准
With Cover 含护罩

CK60-FO 电机直联



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
150	220	60	-	25	100	2	2	1.7	-
200	270	110	-	50	100	2	2	2.1	-
300	370	210	135	50	200	3	2	2.7	3.0
400	470	310	235	50	100	4	4	3.3	3.6
500	570	410	335	50	200	5	3	3.9	4.2
600	670	510	435	50	100	6	6	4.6	5.0

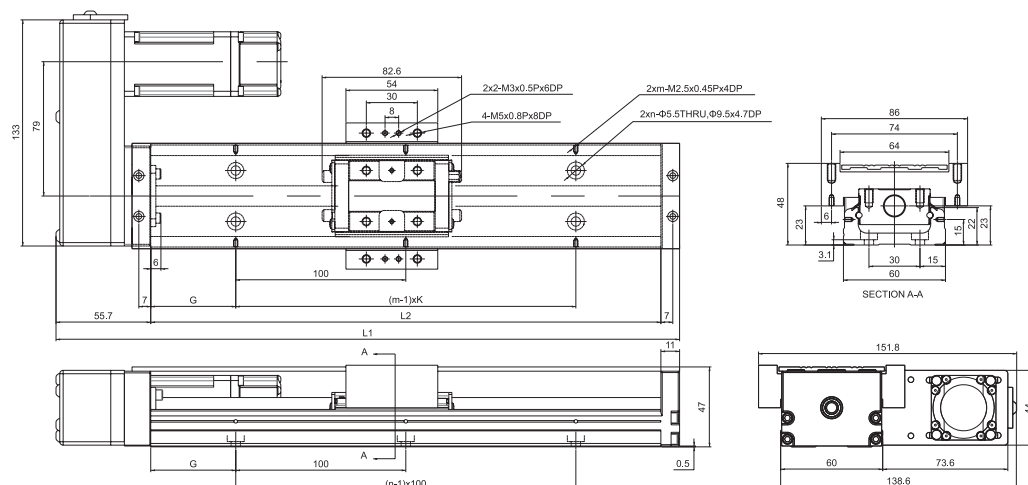
CK60-HO



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
150	195	60	-	25	100	2	2	1.6	-
200	245	110	-	50	100	2	2	2.0	-
300	345	210	135	50	200	3	2	2.6	2.9
400	445	310	235	50	100	4	4	3.2	3.5
500	545	410	335	50	200	5	3	3.8	4.1
600	645	510	435	50	100	6	6	4.5	4.9

CK60-FL 电机左装

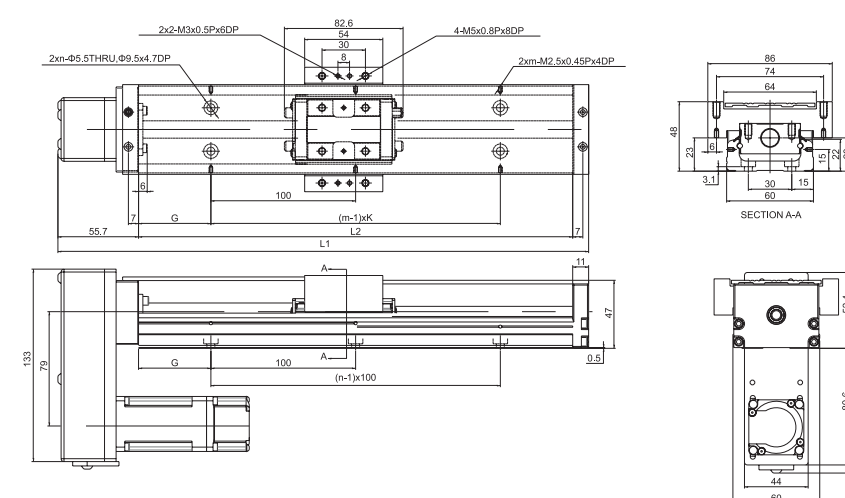
Unit 单位: mm



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
150	216.7	60	-	25	100	2	2	1.6	-
200	266.7	110	-	50	100	2	2	2.0	-
300	366.7	210	135	50	200	3	2	2.6	2.9
400	466.7	310	235	50	100	4	4	3.2	3.5
500	566.7	410	335	50	200	5	3	3.8	4.1
600	666.7	510	435	50	100	6	6	4.5	4.9

CK60-FD 电装下装

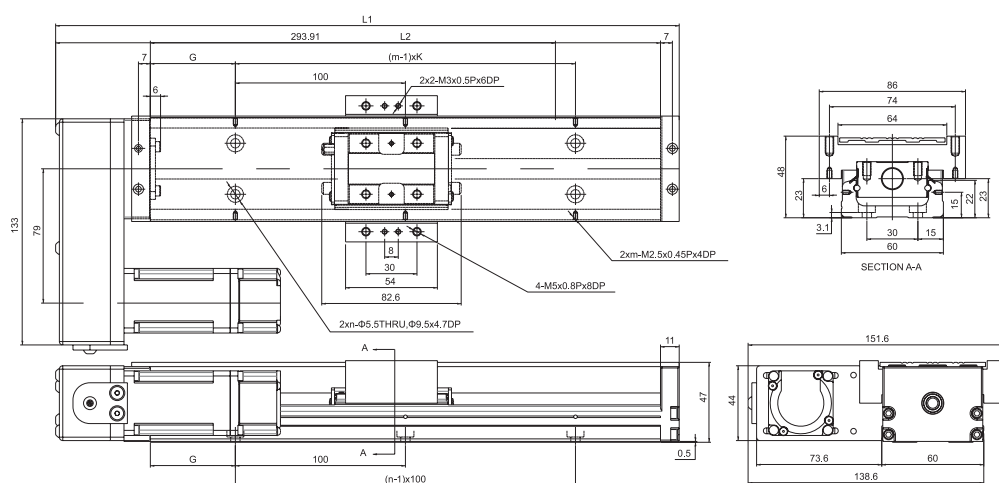
Unit 单位: mm



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
150	216.7	60	--	25	100	2	2	1.6	-
200	266.7	110	--	50	100	2	2	2.0	-
300	366.7	210	135	50	200	3	2	2.6	2.9
400	466.7	310	235	50	100	4	4	3.2	3.5
500	566.7	410	335	50	200	5	3	3.8	4.1
600	666.7	510	435	50	100	6	6	4.5	4.9

CK60-FR 电装右装

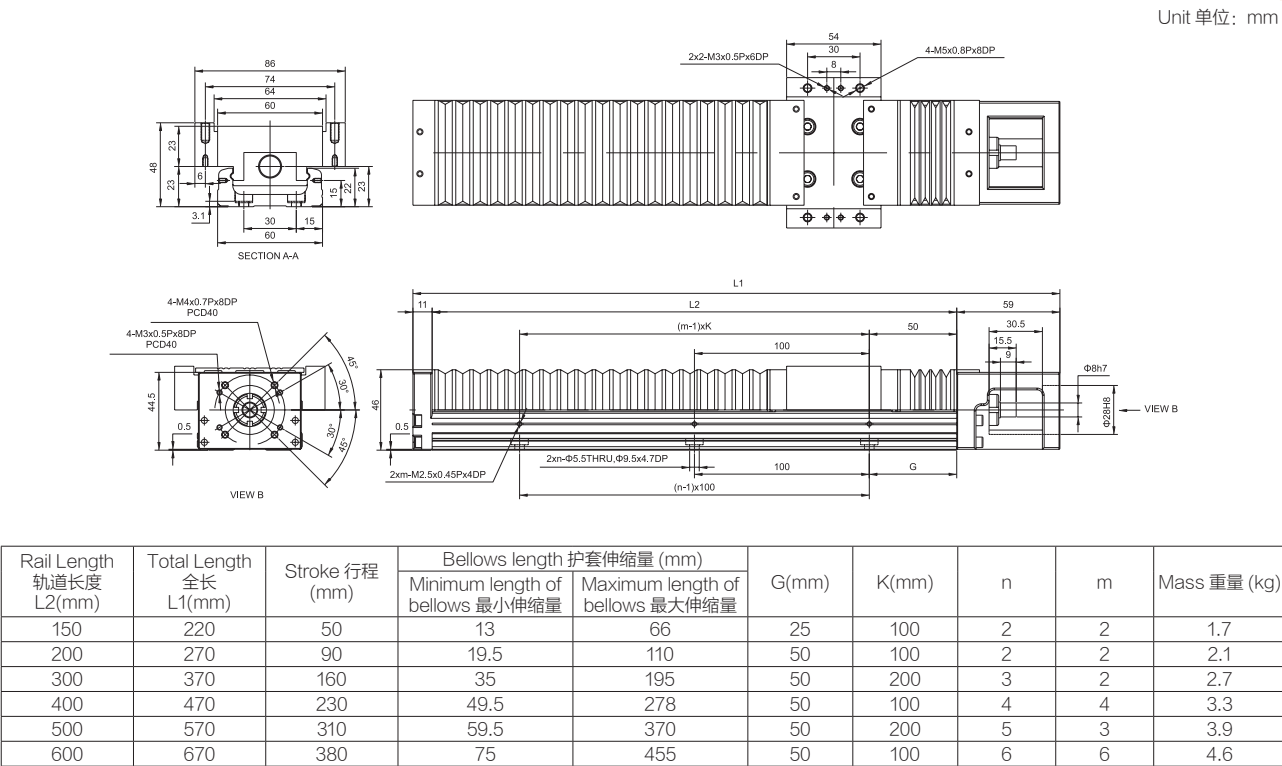
Unit 单位: mm



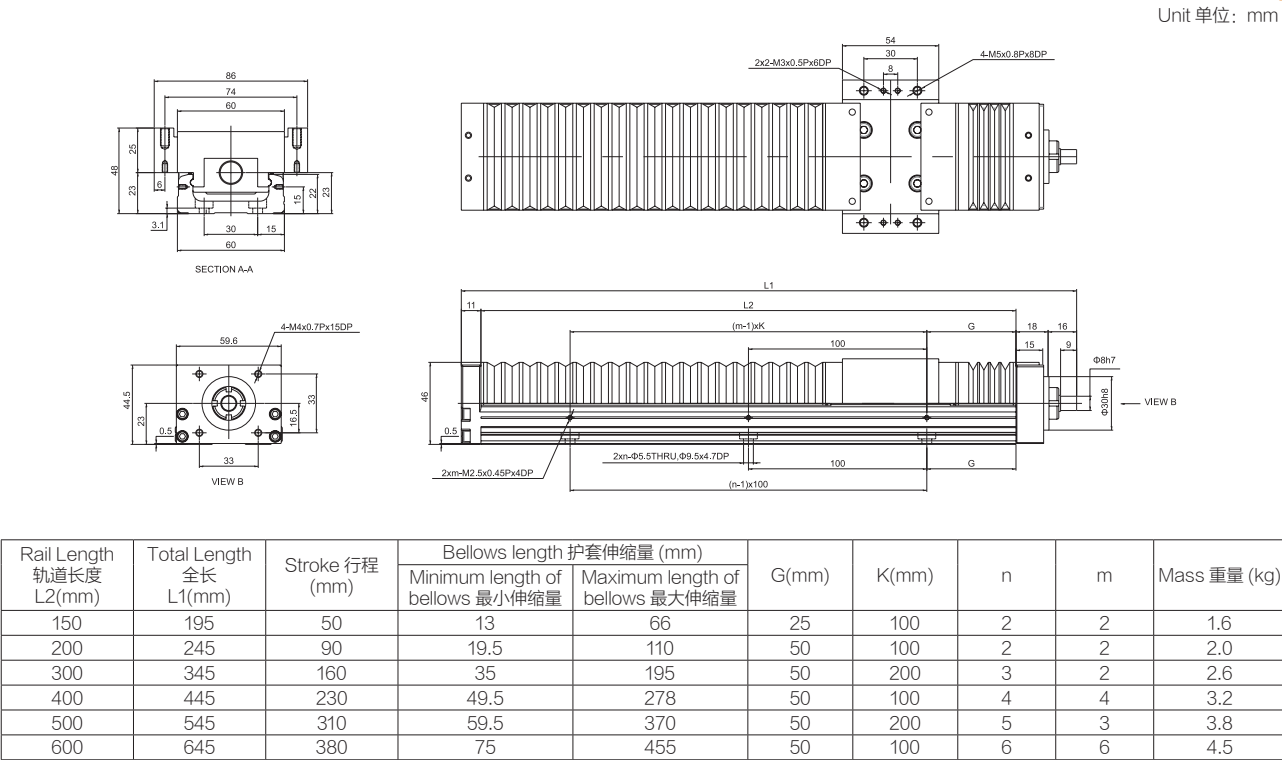
Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	K(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
150	216.7	60	-	25	100	2	2	1.6	-
200	266.7	110	-	50	100	2	2	2.0	-
300	366.7	210	135	50	200	3	2	2.6	2.9
400	466.7	310	235	50	100	4	4	3.2	3.5
500	566.7	410	335	50	200	5	3	3.8	4.1
600	666.7	510	435	50	100	6	6	4.5	4.9

CK60 Standard 标准
With Bellows 含伸缩护罩

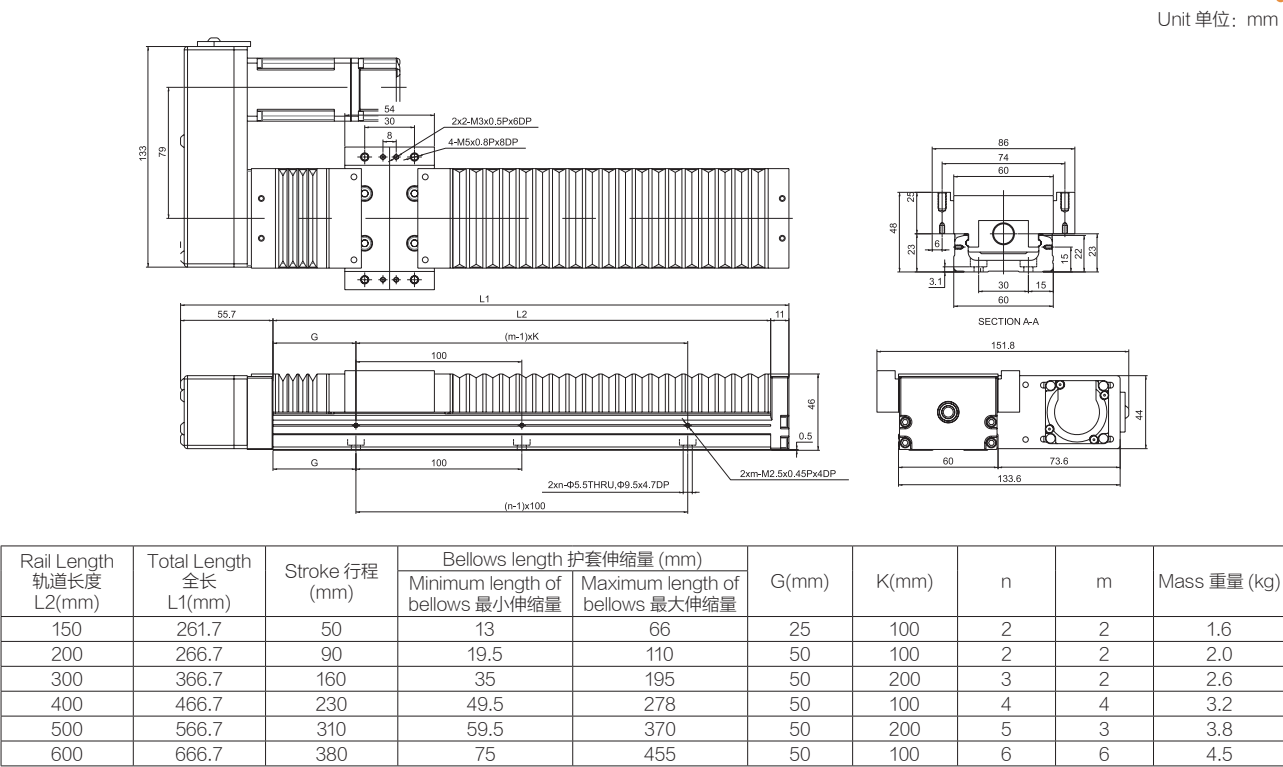
CK60-FO 电机直联



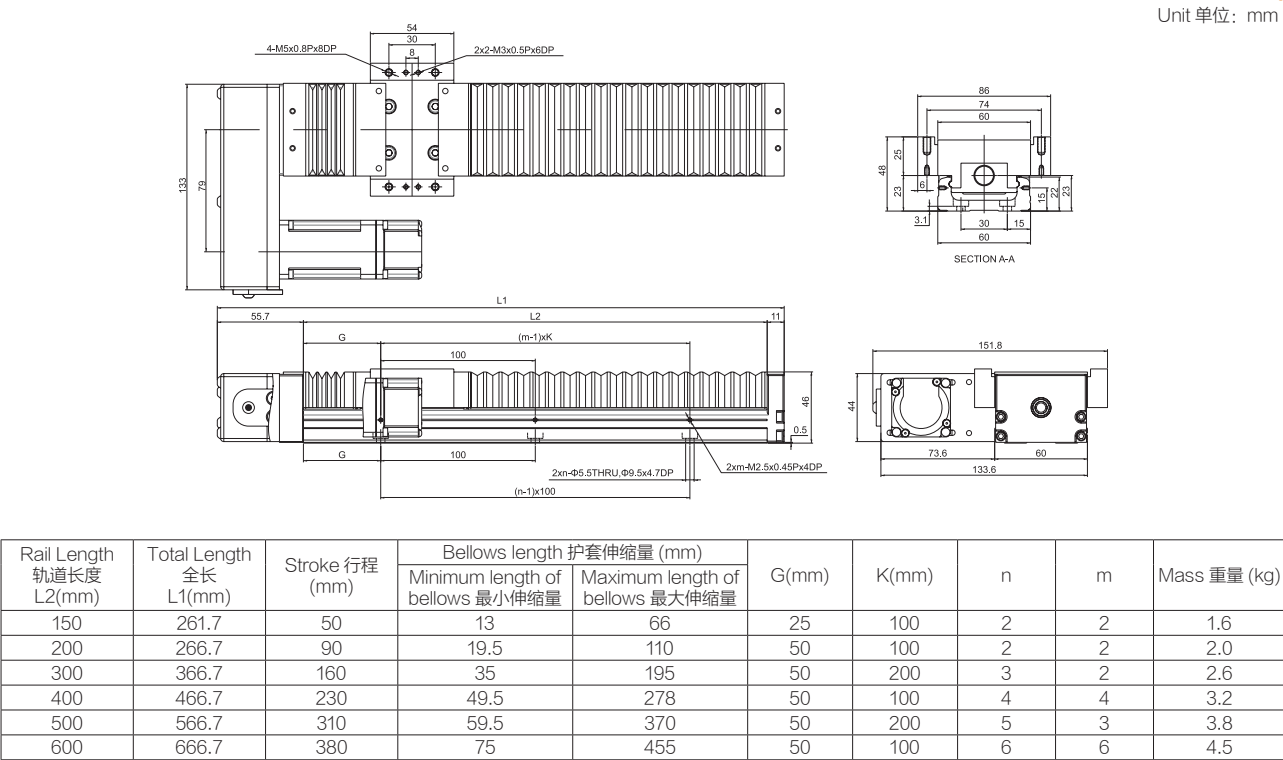
CK60-HO



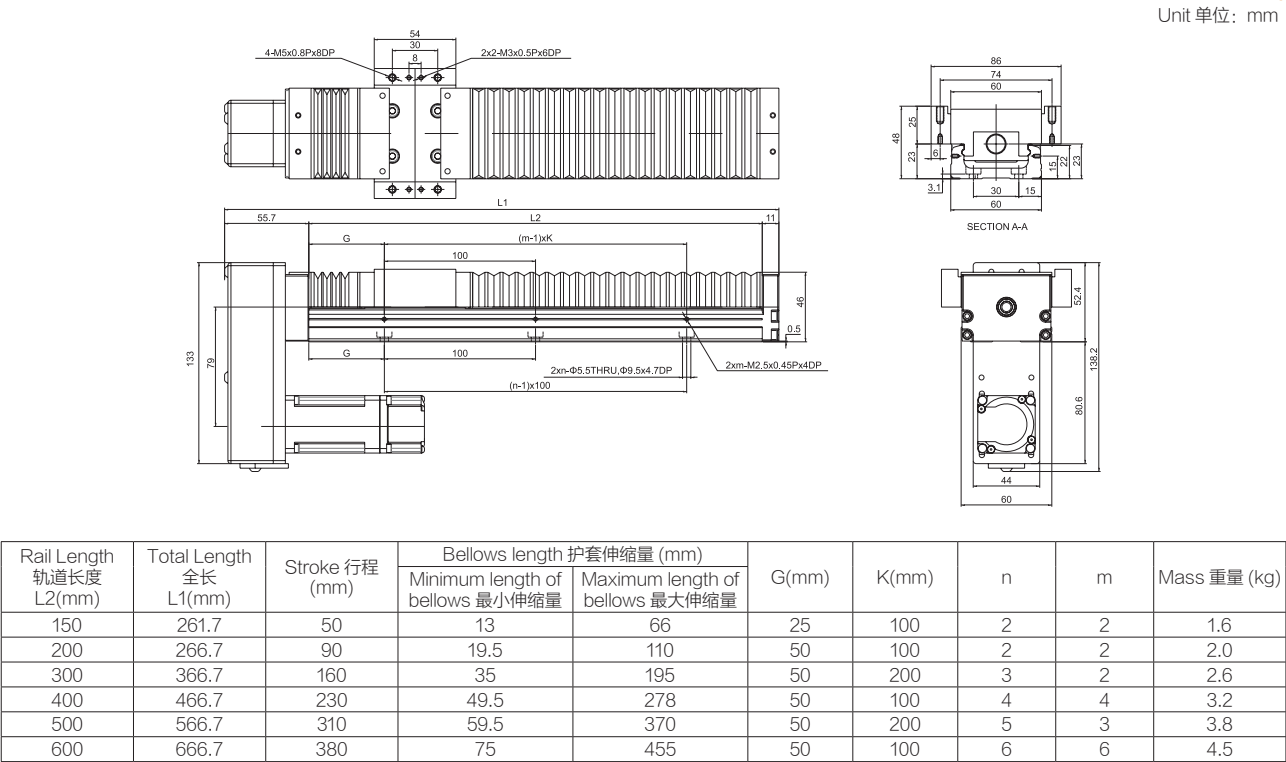
CK60-FL 电机左装



CK60-FR 电机右装

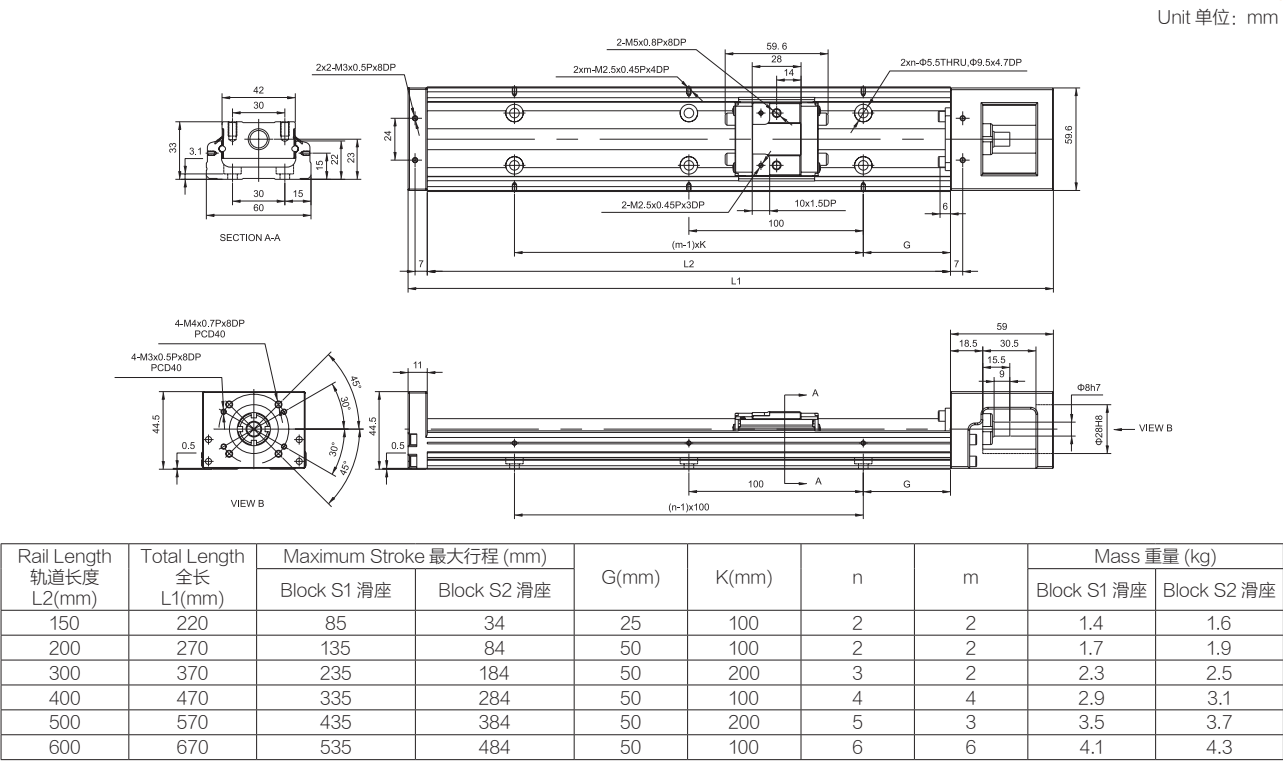


CK60-FD 电机下装

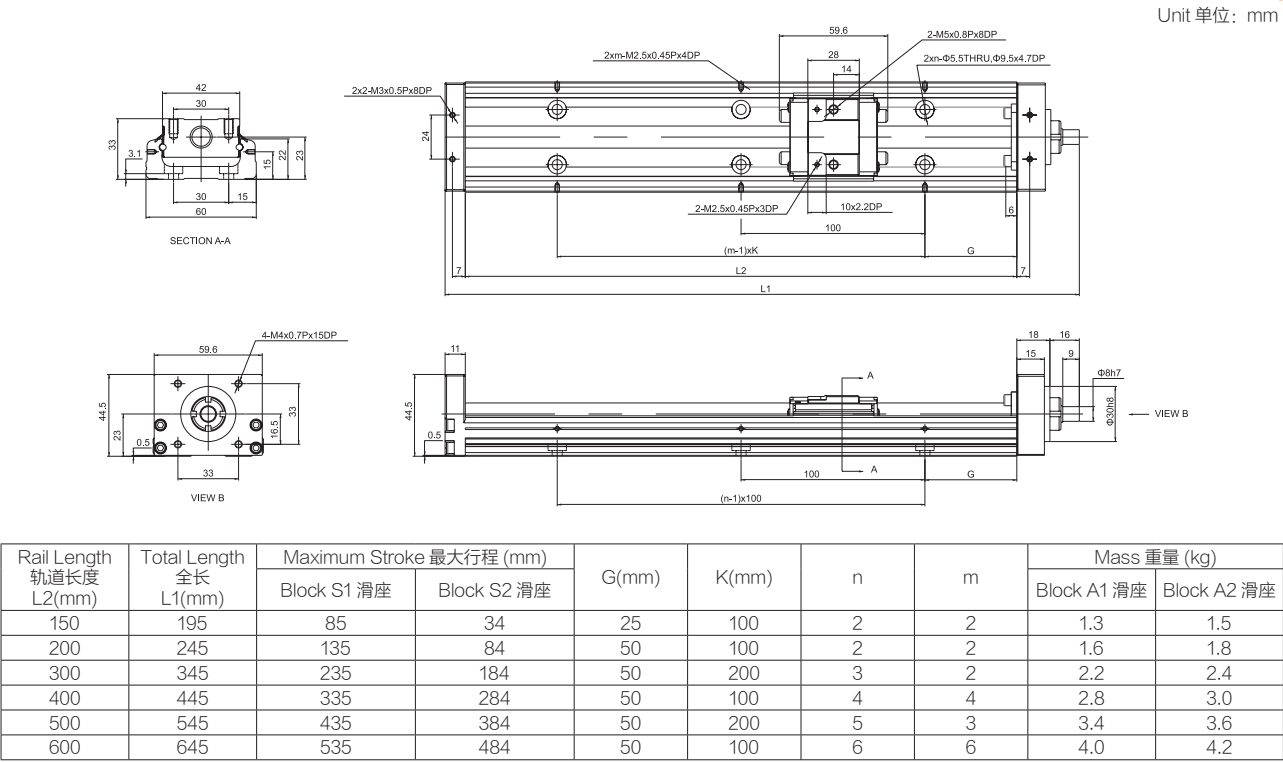


CK60 Light Duty 轻载
Without cover 不含护盖

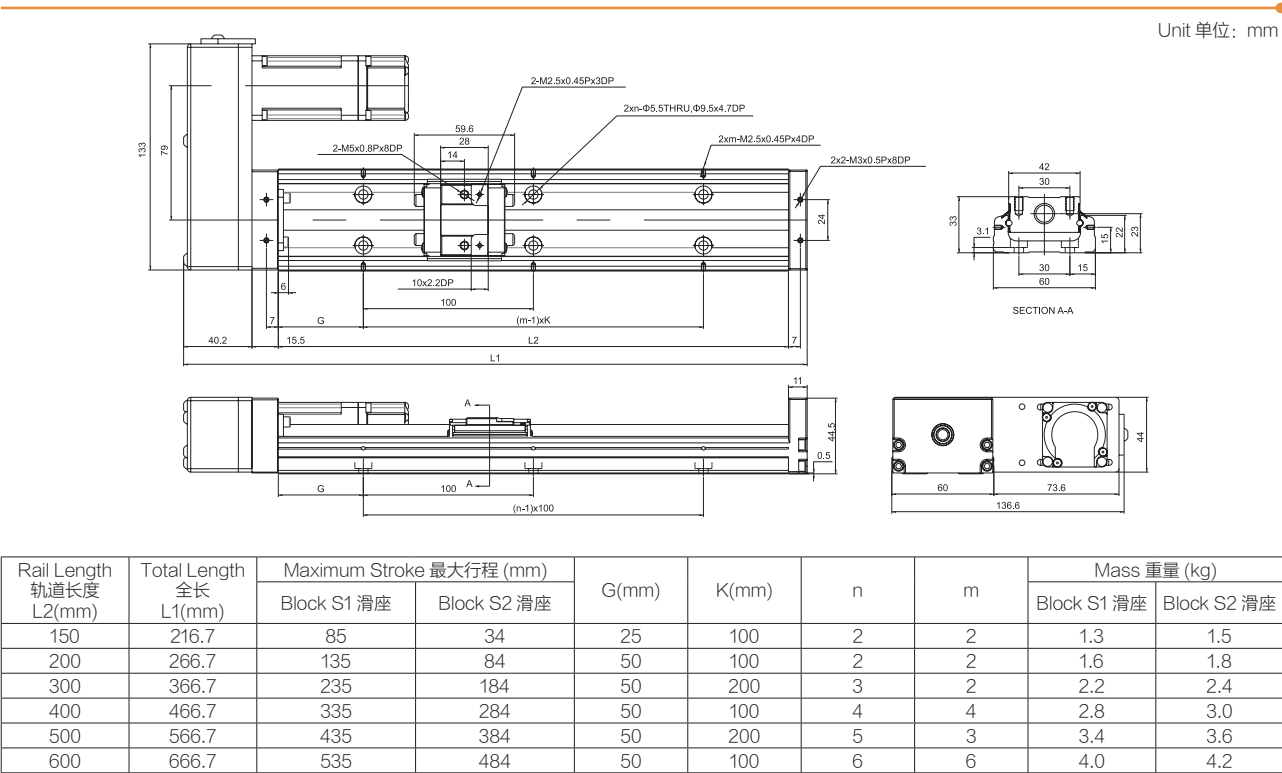
CK60-FO 电机直联



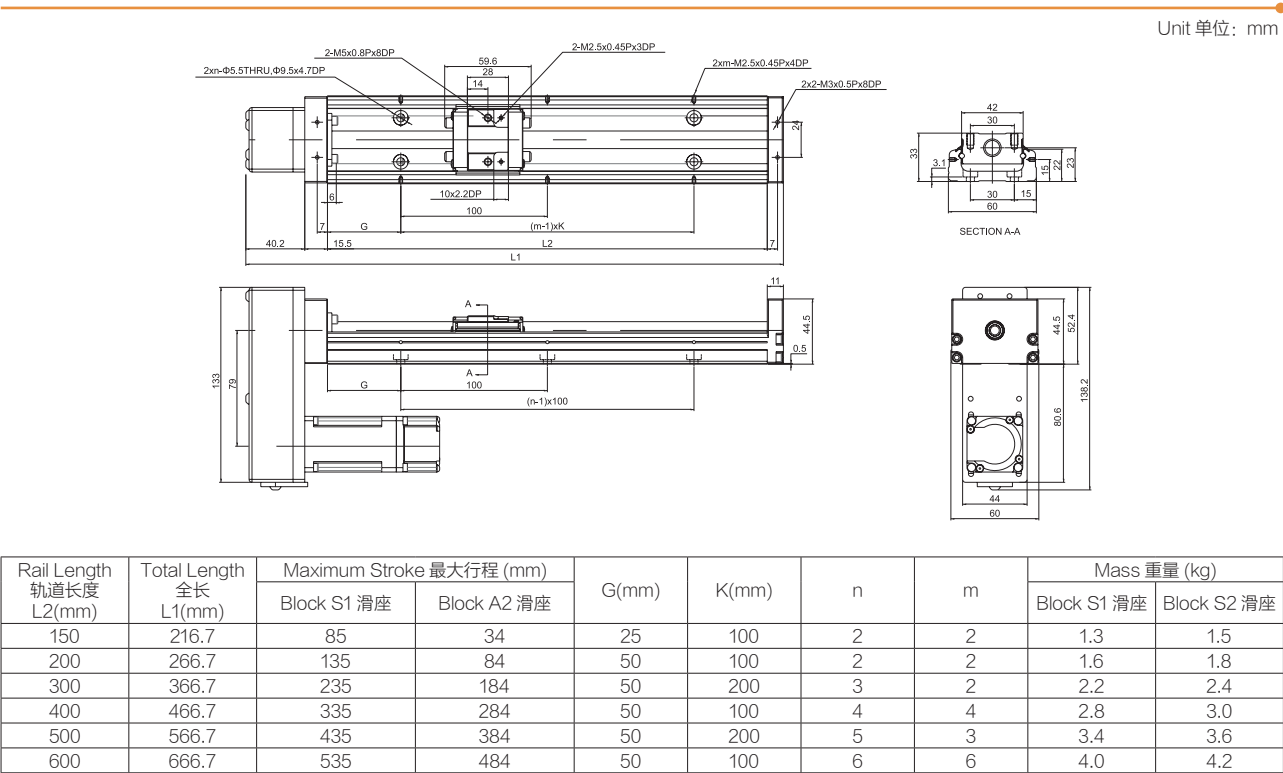
CK60-HO



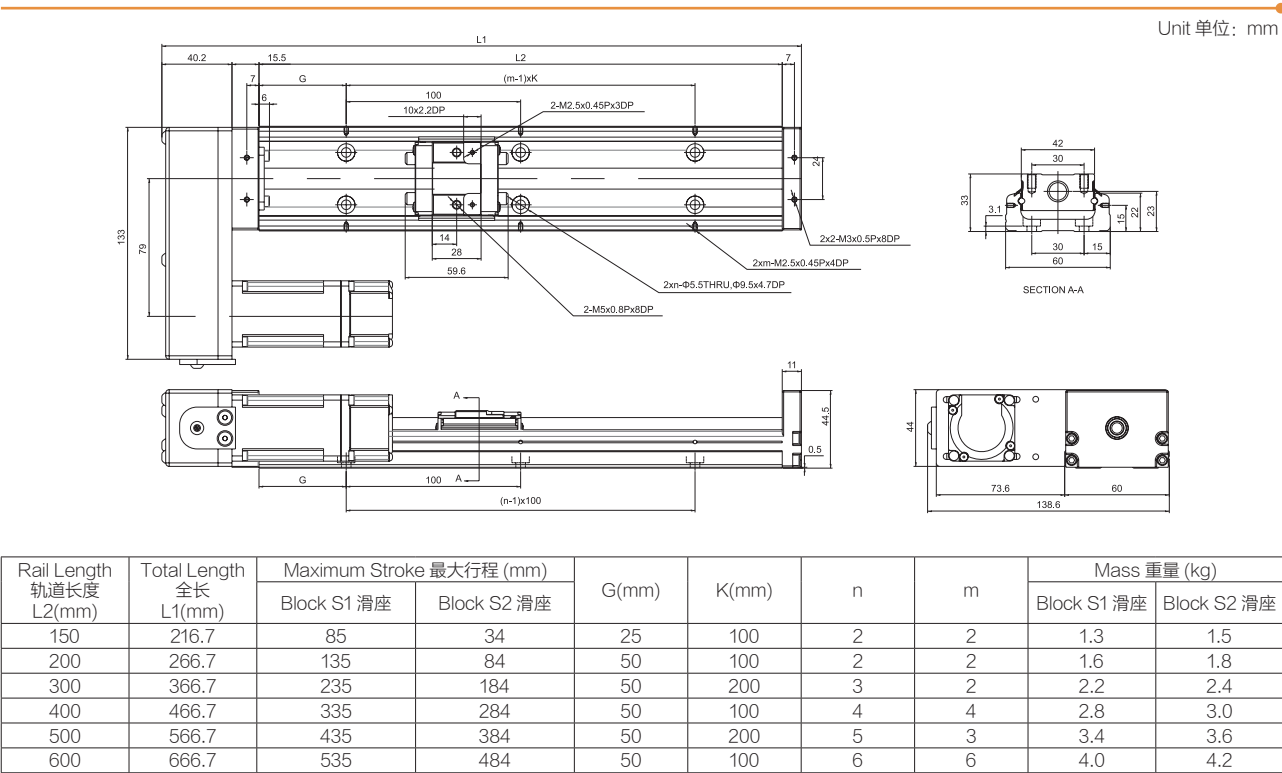
CK60-FL 电机左装



CK60-FD 电机下装

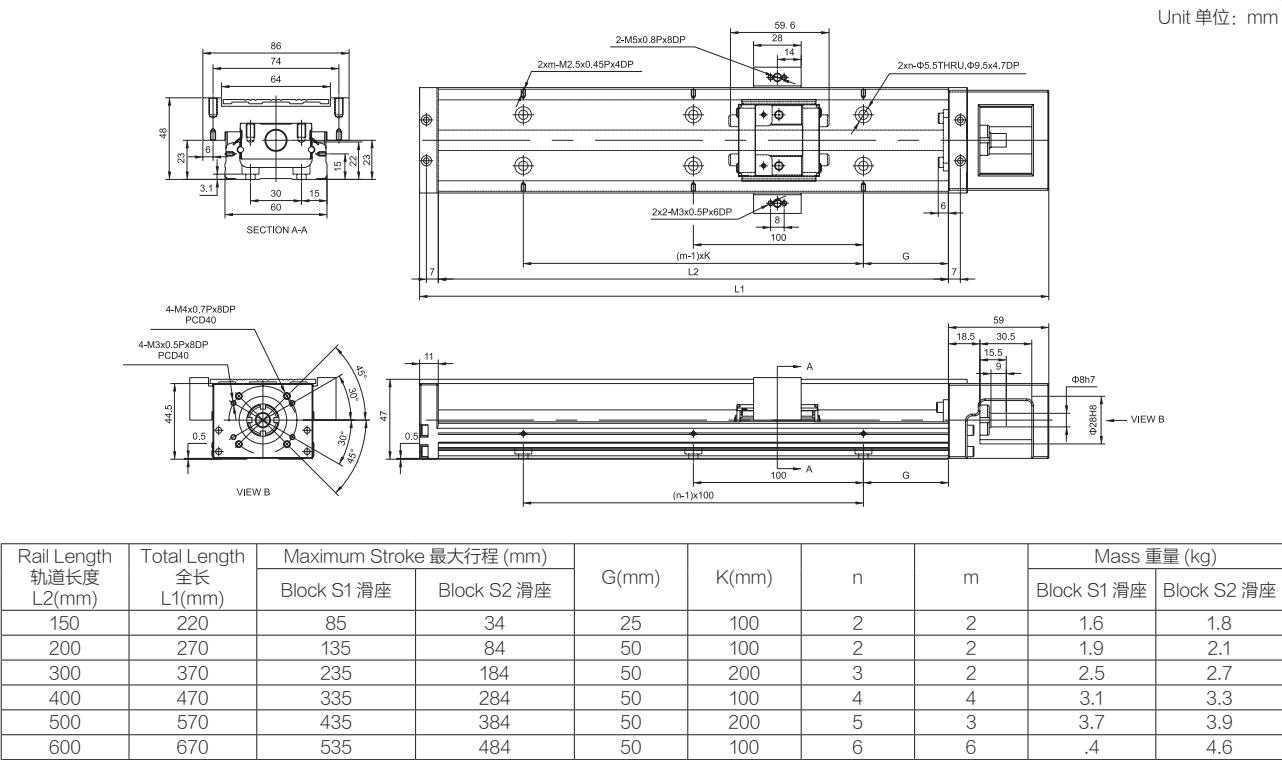


CK60-FR 电机右装

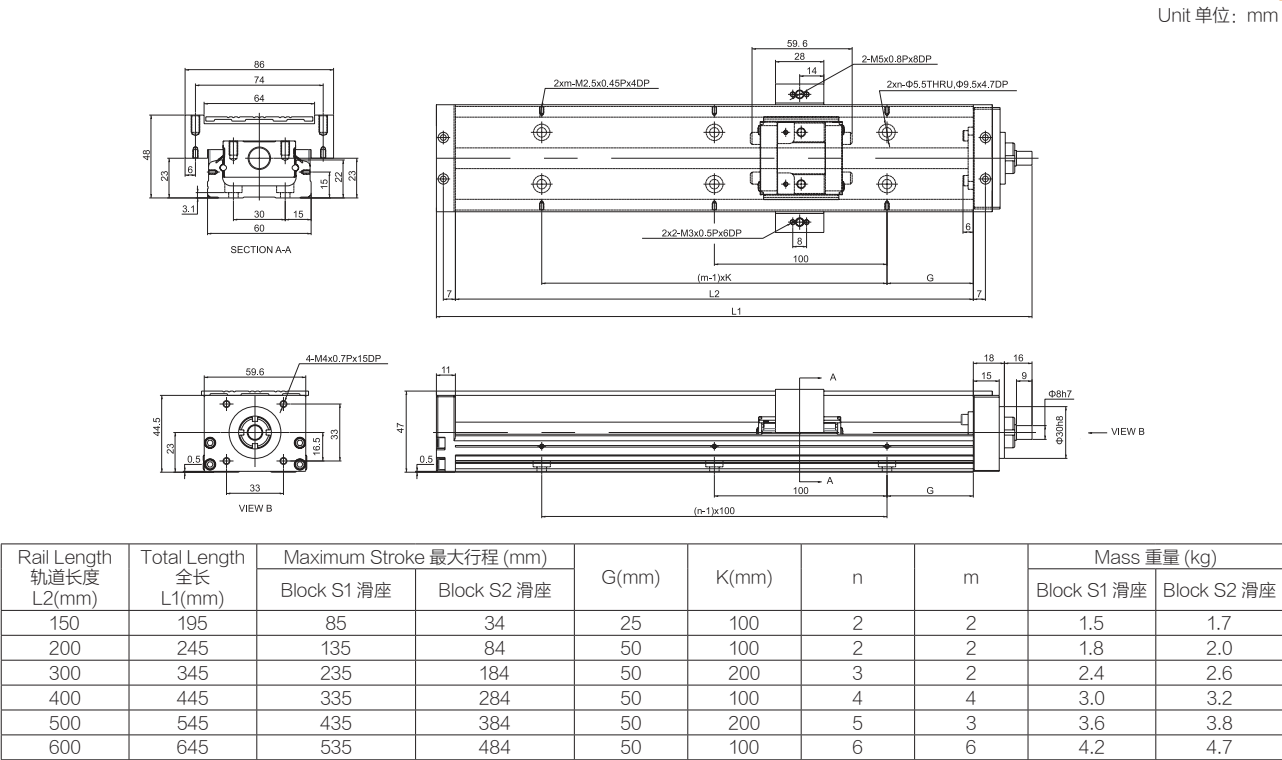


CK60 Light Duty 轻载
With cover 含护盖

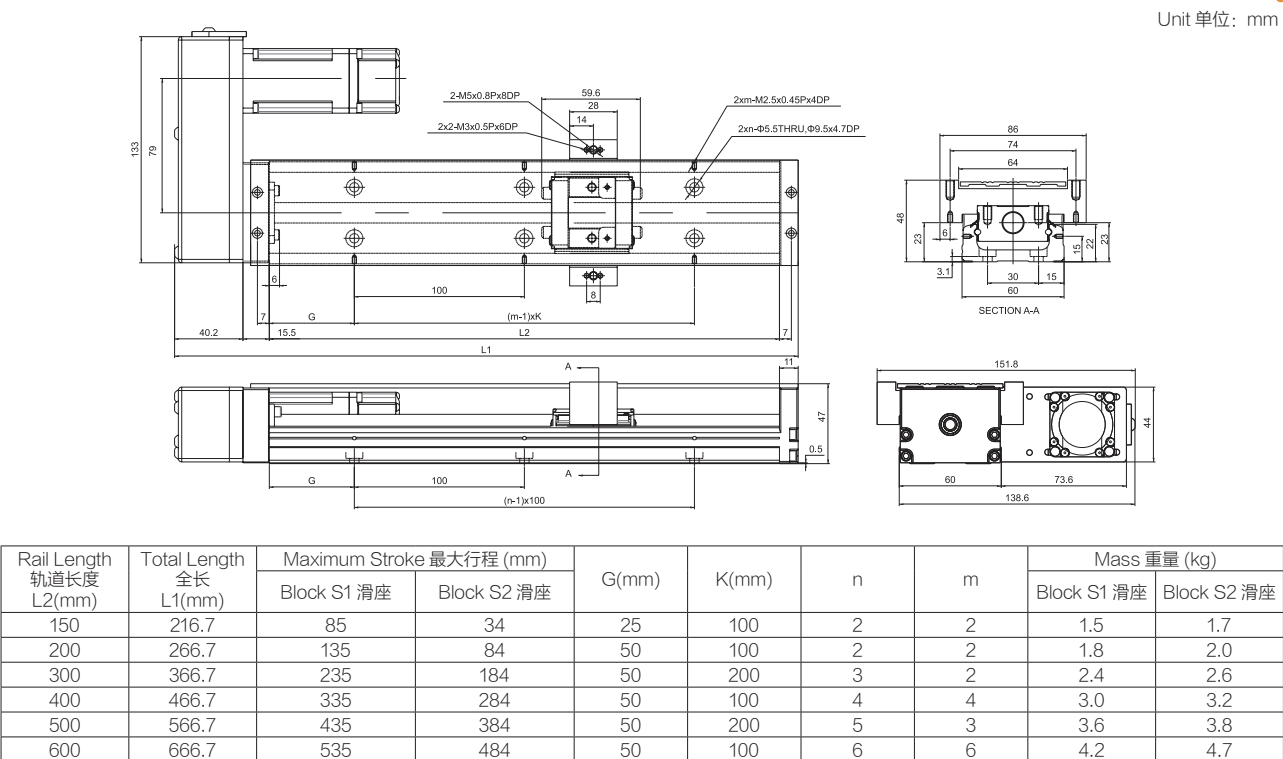
CK60-FO 电机直联



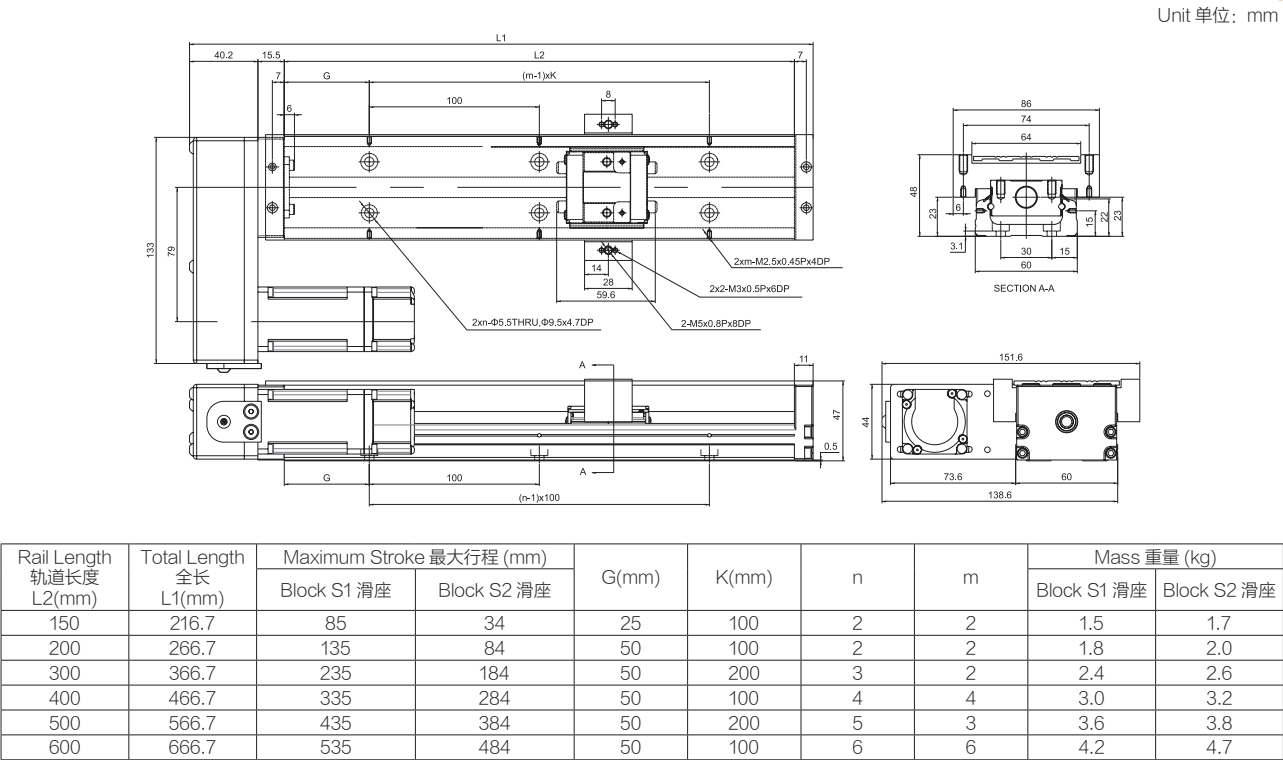
CK60-HO



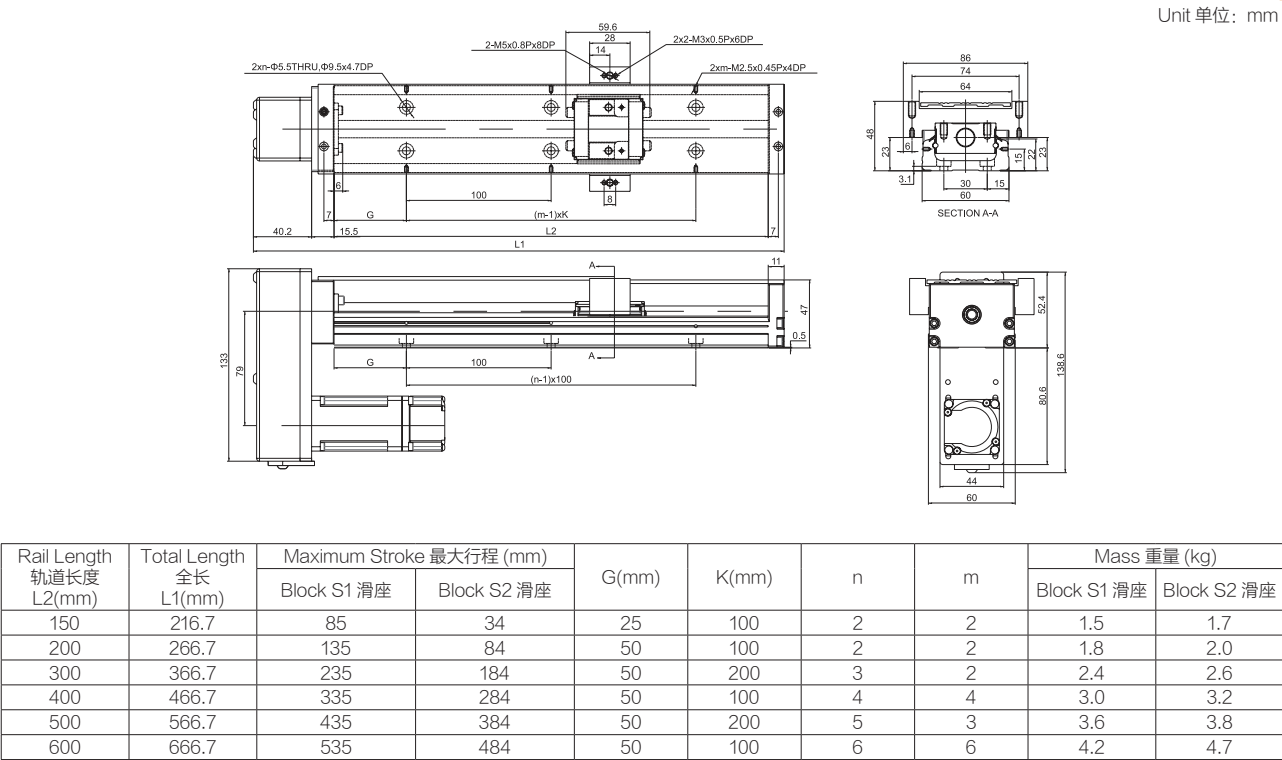
CK60-FL 电机左装



CK60-FR 电机右装

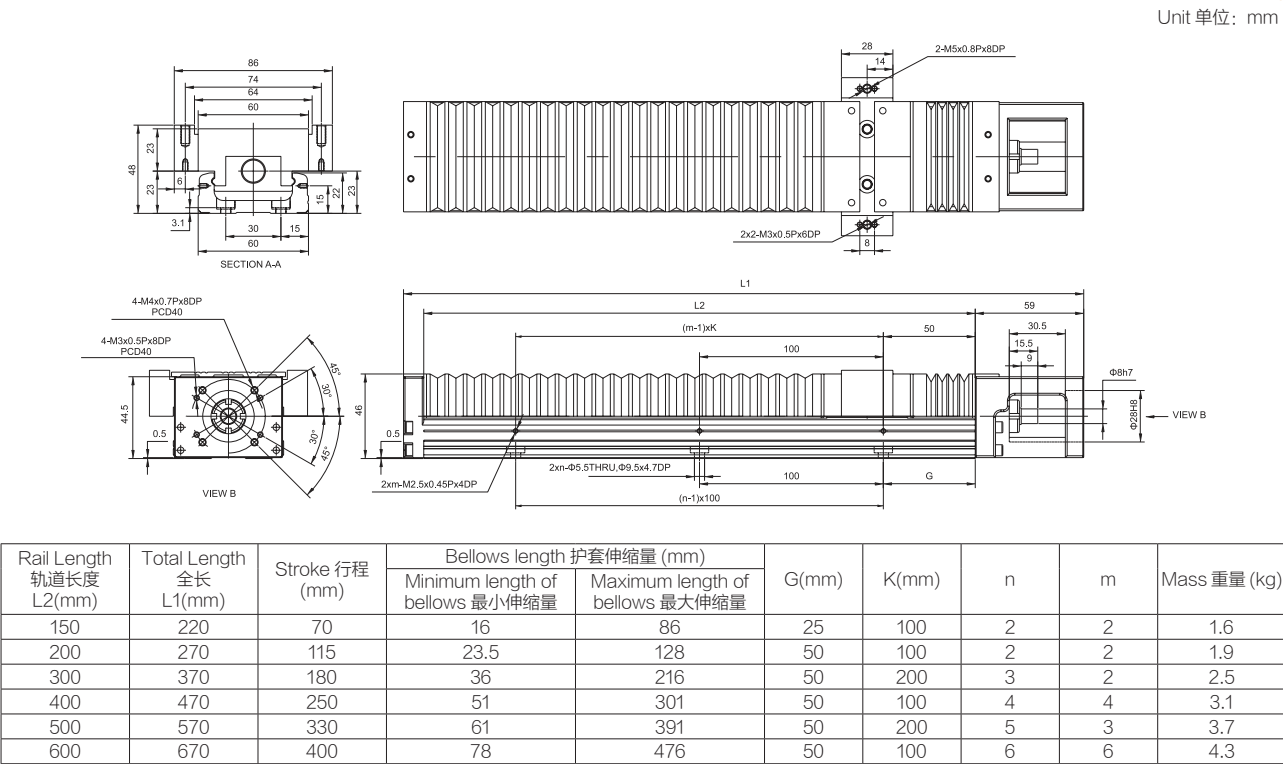


CK60-FD 电机下装

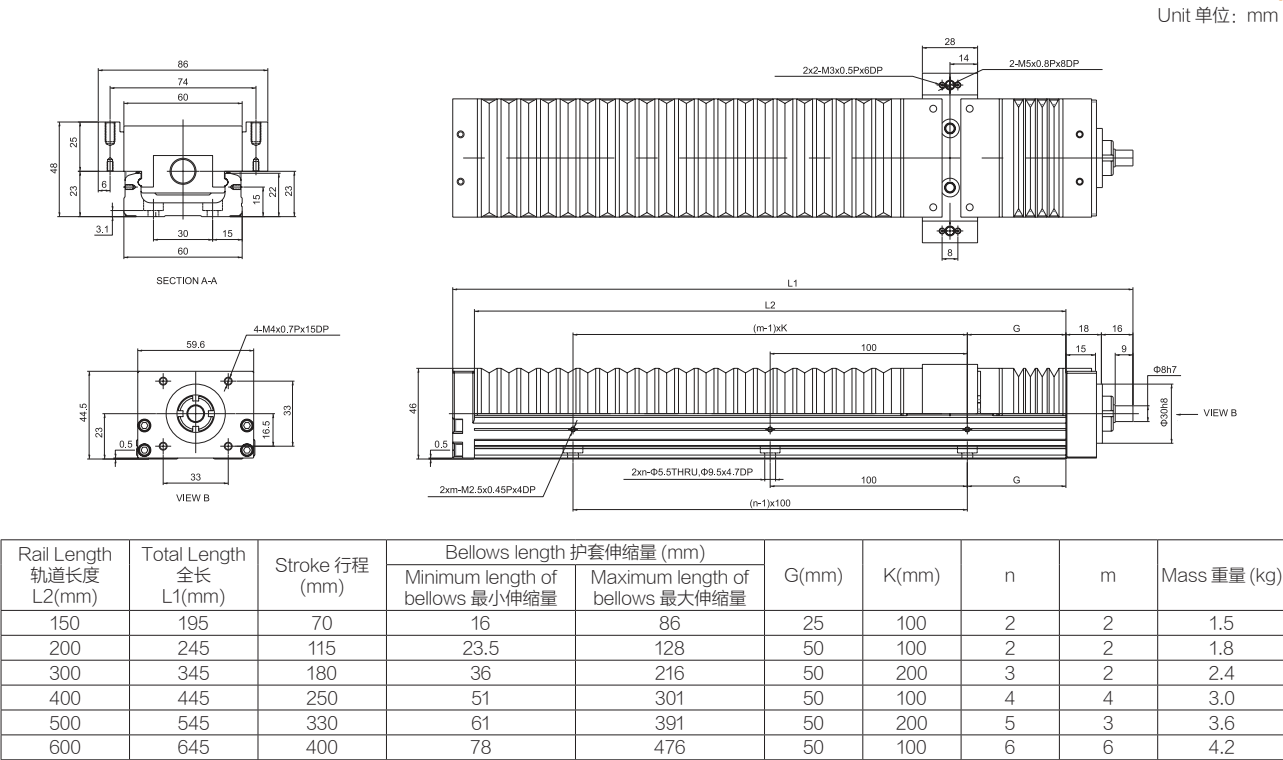


CK60 Light Duty 轻载
With Bellows 含伸缩护罩

CK60-FO 电机直联

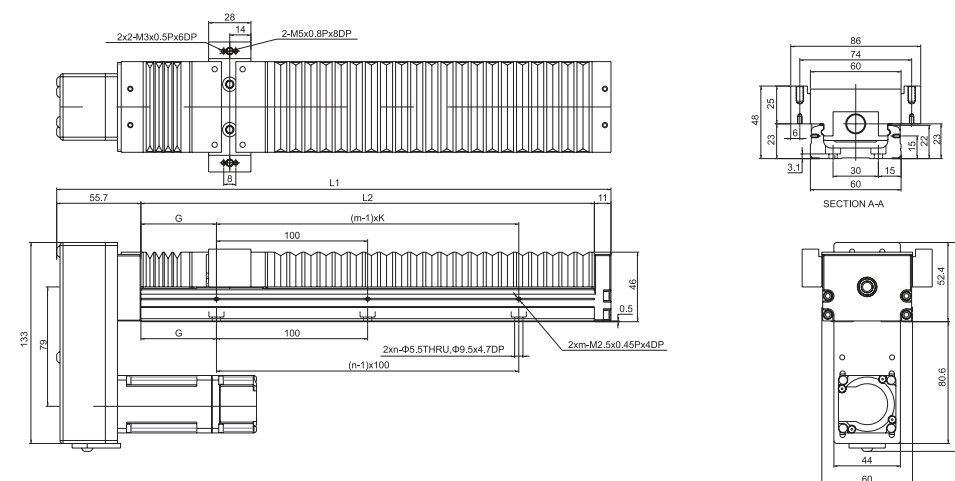


CK60-HO



CK60-FD 电机下装

Unit 单位: mm



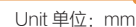
Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Stroke 行程 (mm)	Bellows length 护套伸缩量 (mm)		G(mm)	K(mm)	n	m	Mass 重量 (kg)
			Minimum length of bellows 最小伸缩量	Maximum length of bellows 最大伸缩量					
150	261.7	70	16	86	25	100	2	2	1.6
200	266.7	115	23.5	128	50	100	2	2	2.0
300	366.7	180	36	216	50	200	3	2	2.6
400	466.7	250	51	301	50	100	4	4	3.2
500	566.7	330	61	391	50	200	5	3	3.8
600	666.7	400	76	476	50	100	6	6	4.5

CK86-FO 电机直联



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		H(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座				Block A1 滑座	Block A2 滑座
340	440	210	100	70	3	2	5.7	6.5
440	540	310	200	20	4	3	6.9	7.7
540	640	410	300	70	5	3	8.0	8.8
640	740	510	400	20	6	4	9.2	10.0
740	840	610	500	70	7	4	10.4	11.2
940	1040	810	700	70	9	5	11.6	12.4

CK86-HO



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		H(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座				Block A1 滑座	Block A2 滑座
340	404	210	100	70	3	2	5.6	6.4
440	504	310	200	20	4	3	6.8	7.6
540	604	410	300	70	5	3	7.9	8.7
640	704	510	400	20	6	4	9.1	9.9
740	804	610	500	70	7	4	10.3	11.1
940	1004	810	700	70	9	5	11.5	12.3

CK86-FL 电机左装



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		H(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座				Block A1 滑座	Block A2 滑座
340	423.2	210	100	70	3	2	5.6	6.4
440	523.2	310	200	20	4	3	6.8	7.6
540	623.2	410	300	70	5	3	7.9	8.7
640	723.2	510	400	20	6	4	9.1	9.9
740	823.2	610	500	70	7	4	10.3	11.1
940	1023.2	810	700	70	9	5	11.5	12.3

CK86-FR 电机右装



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		H(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座				Block A1 滑座	Block A2 滑座
340	423.2	210	100	70	3	2	5.6	6.4
440	523.2	310	200	20	4	3	6.8	7.6
540	623.2	410	300	70	5	3	7.9	8.7
640	723.2	510	400	20	6	4	9.1	9.9
740	823.2	610	500	70	7	4	10.3	11.1
940	1023.2	810	700	70	9	5	11.5	12.3

Unit 单位: mm



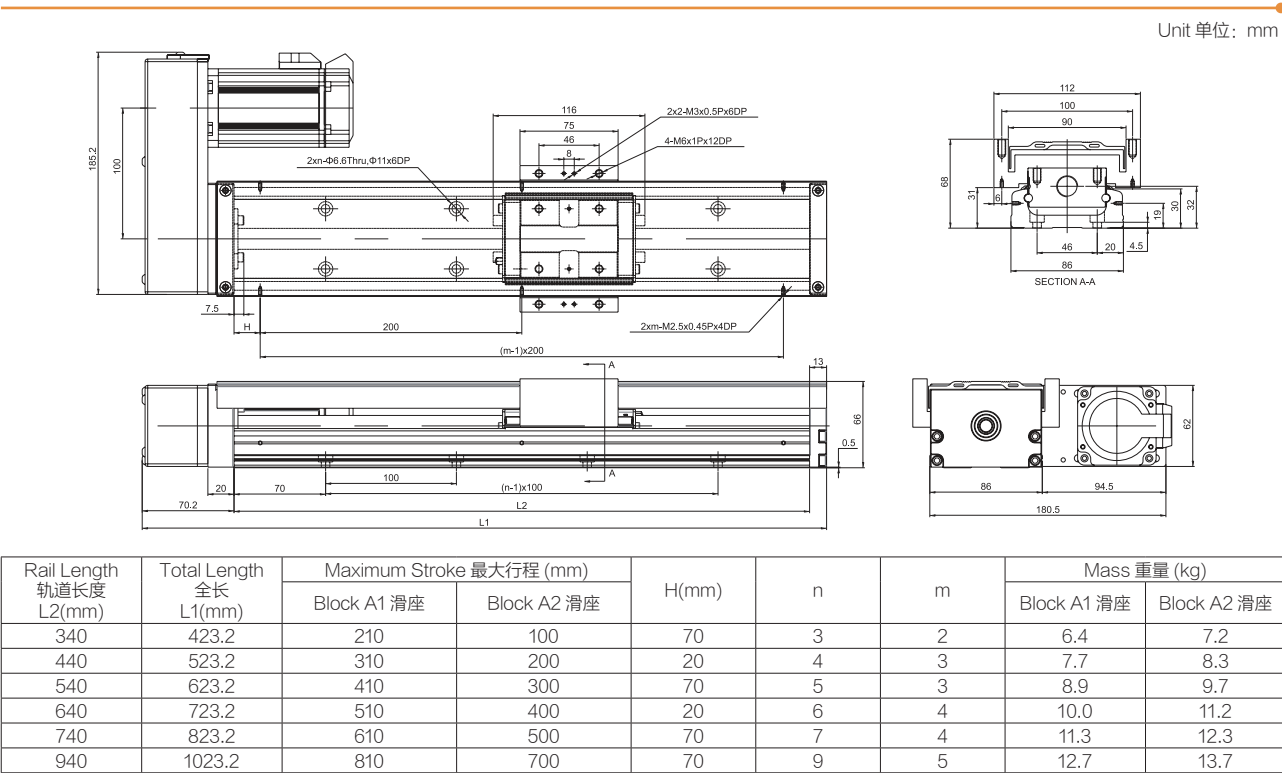
Unit 单位: mm



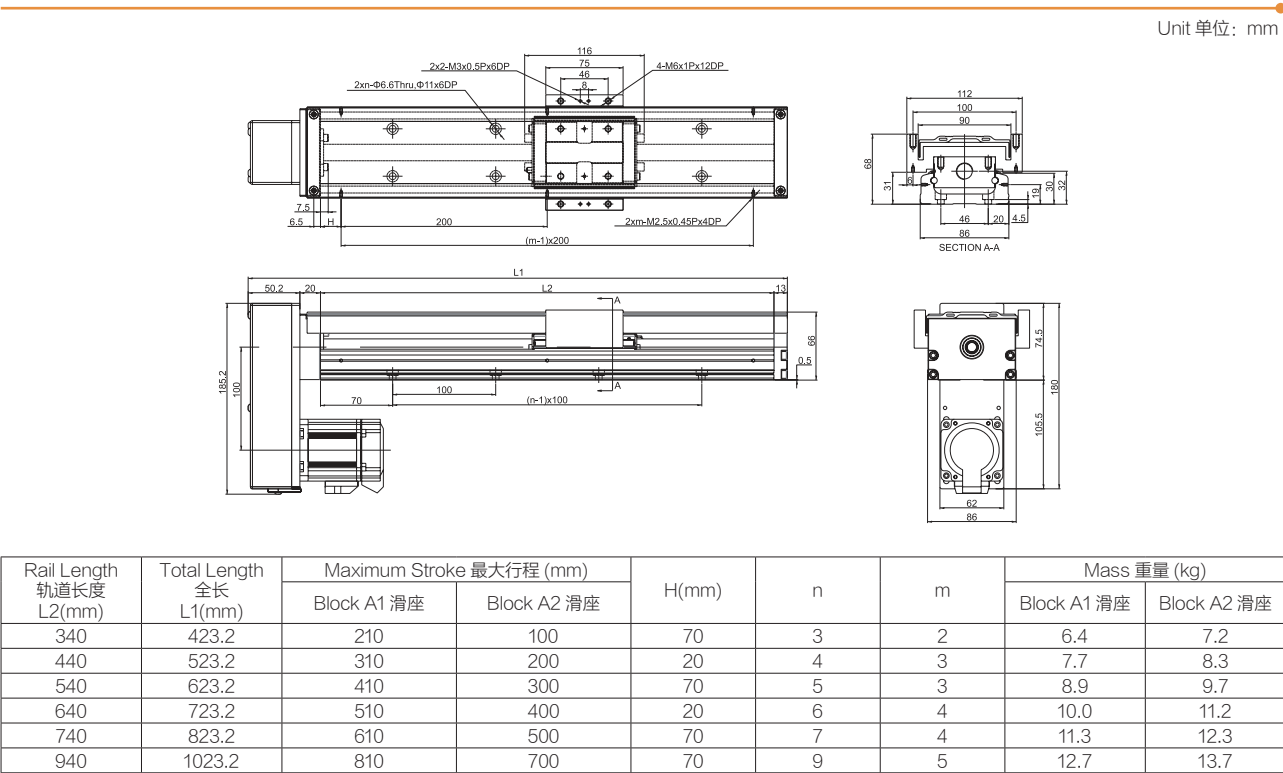
Unit 单位: mm



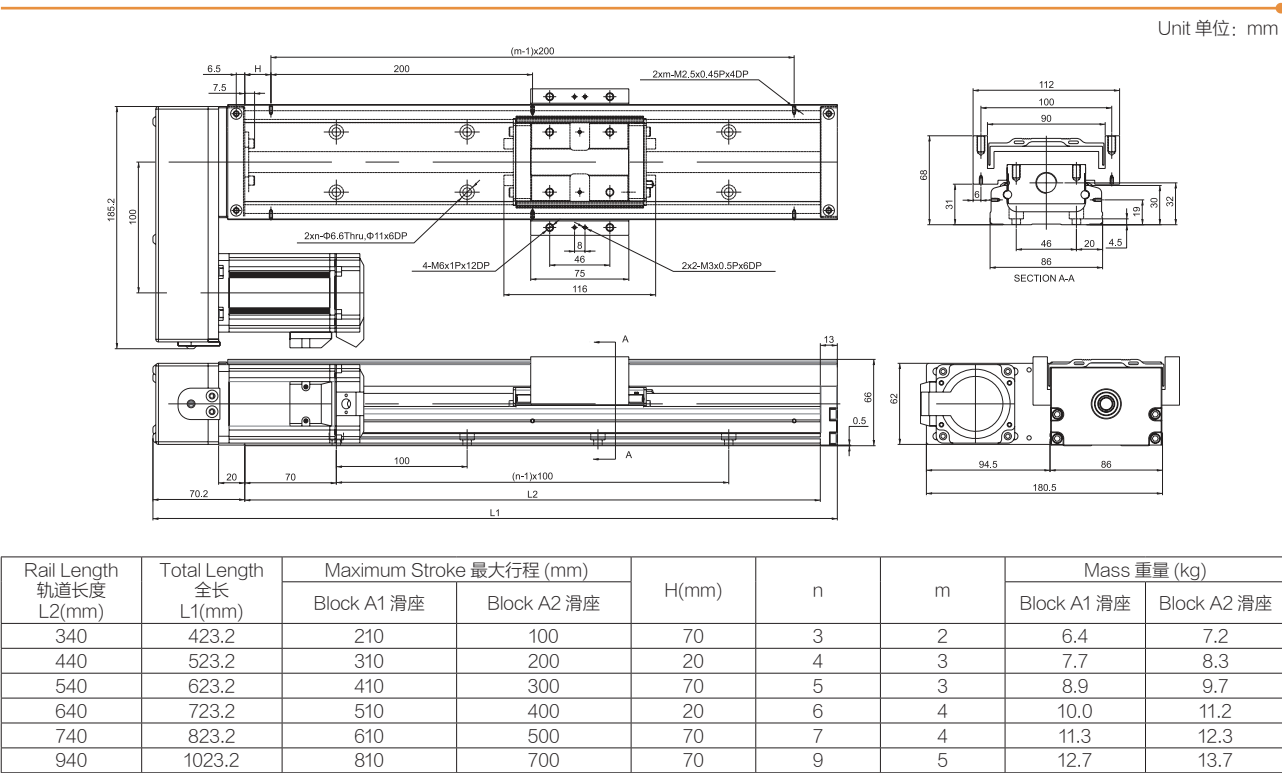
CK86-FL 电机左装



CK86-FD 电机下装

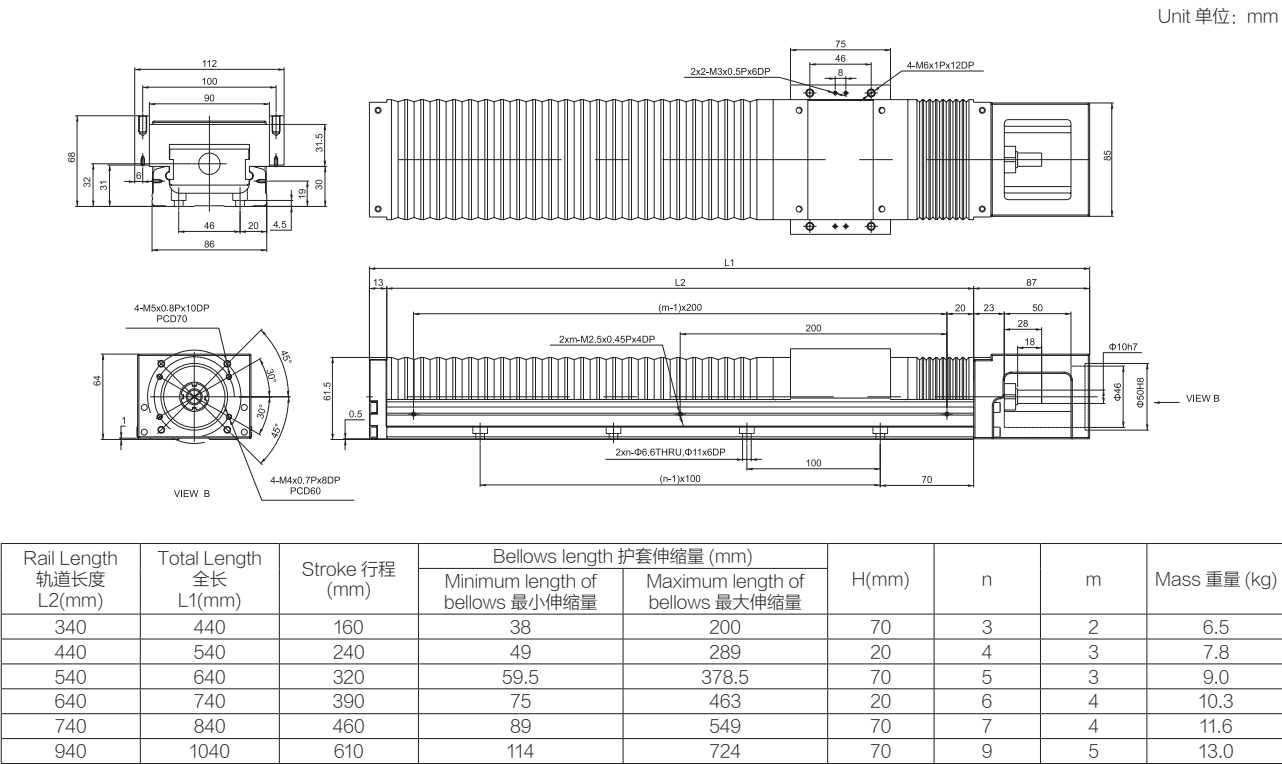


CK86-FR 电机右装

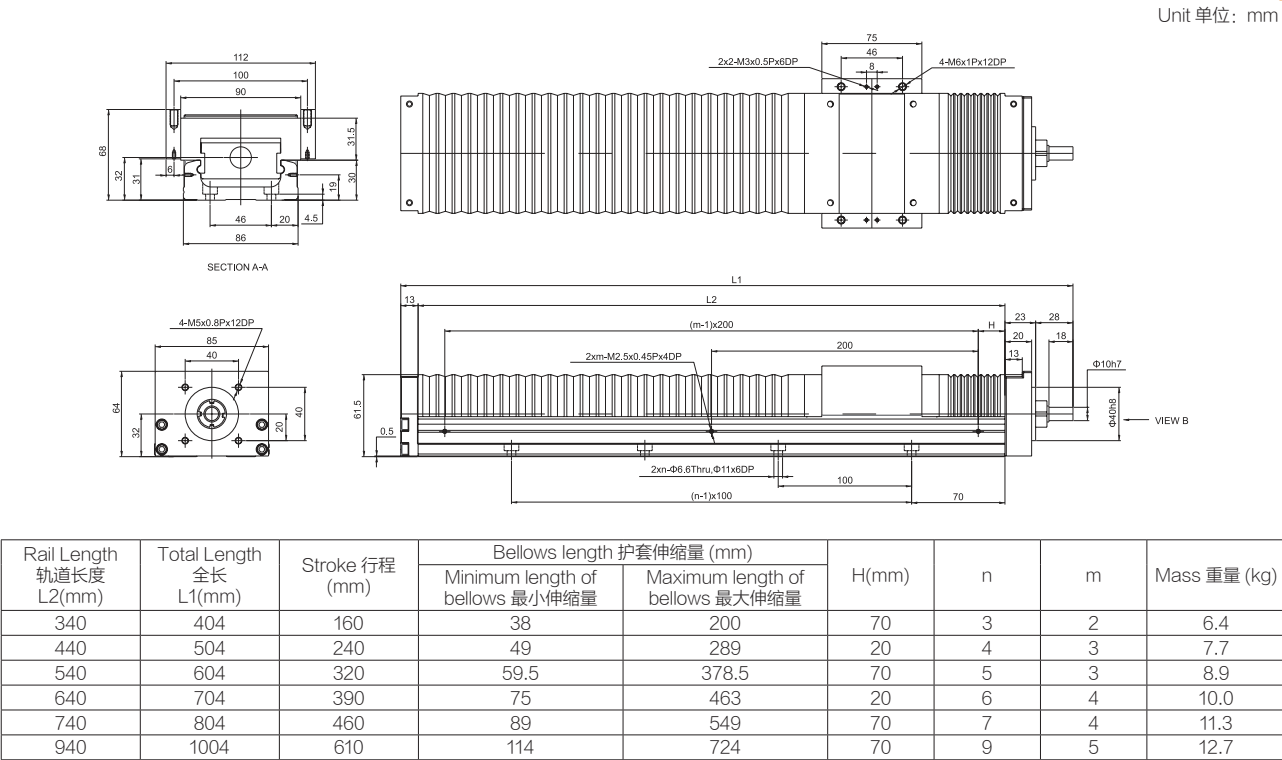


CK86 Standard 标准
With Bellows 含伸缩护罩

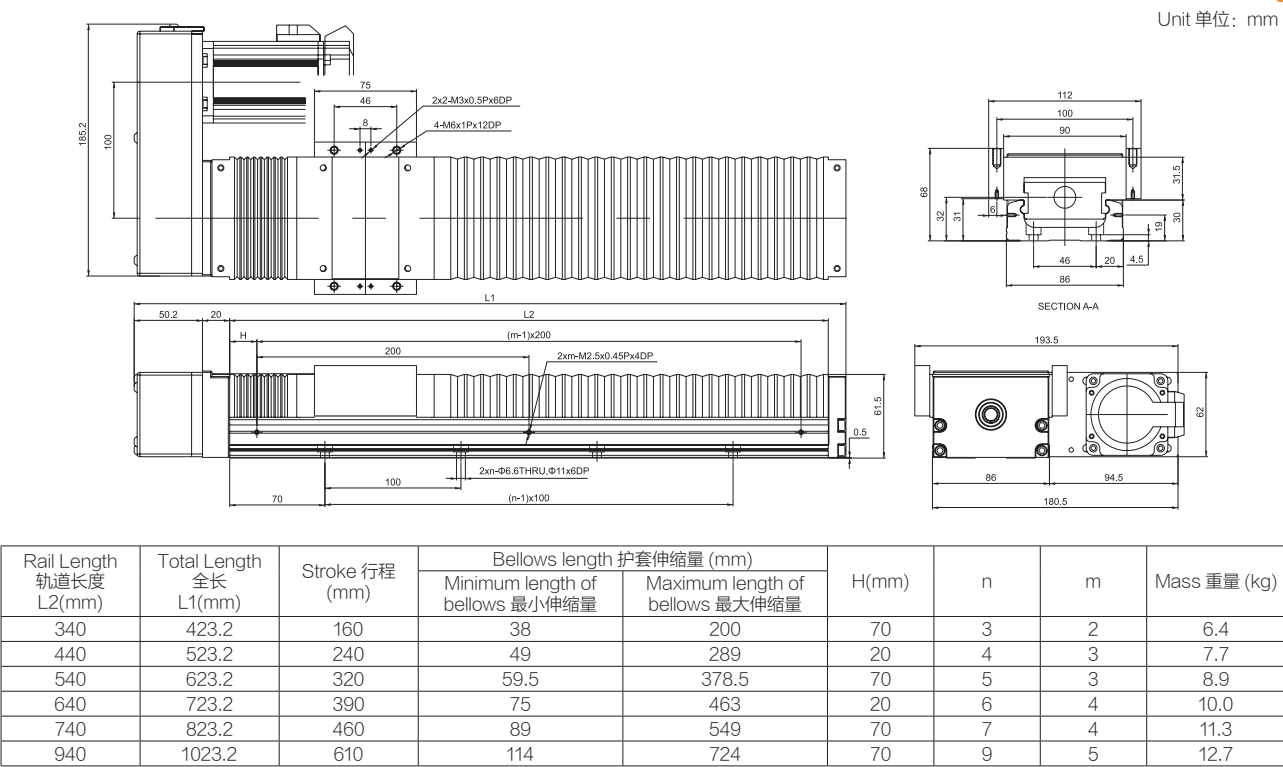
CK86-FO 电机直联



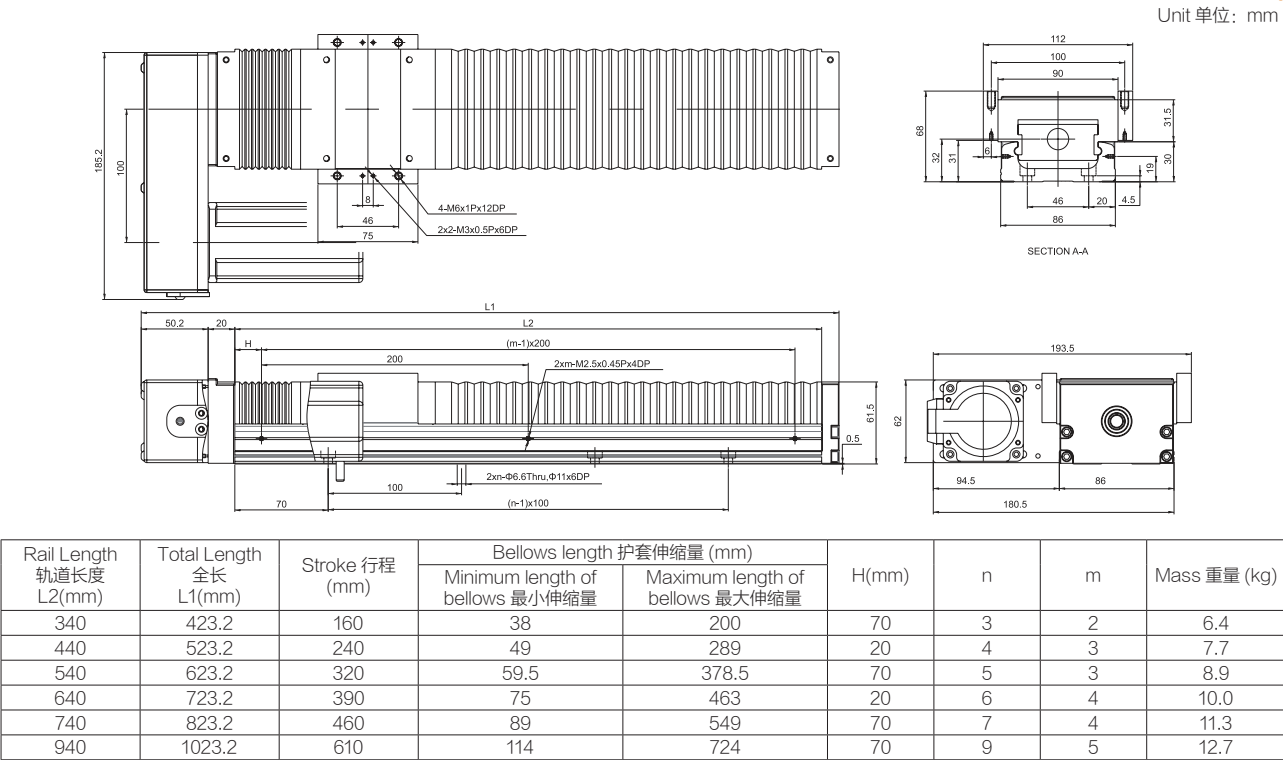
CK86-HO



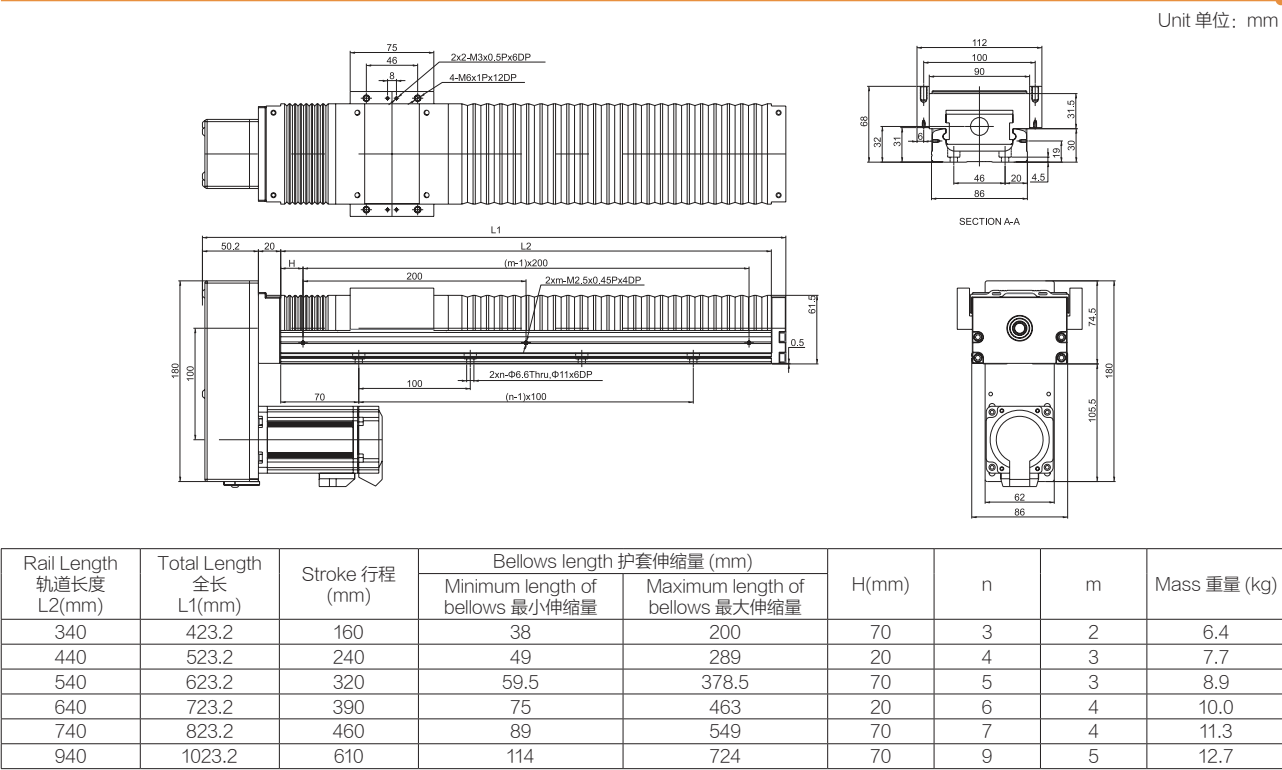
CK86-FL 电机左装



CK86-FR 电机右装

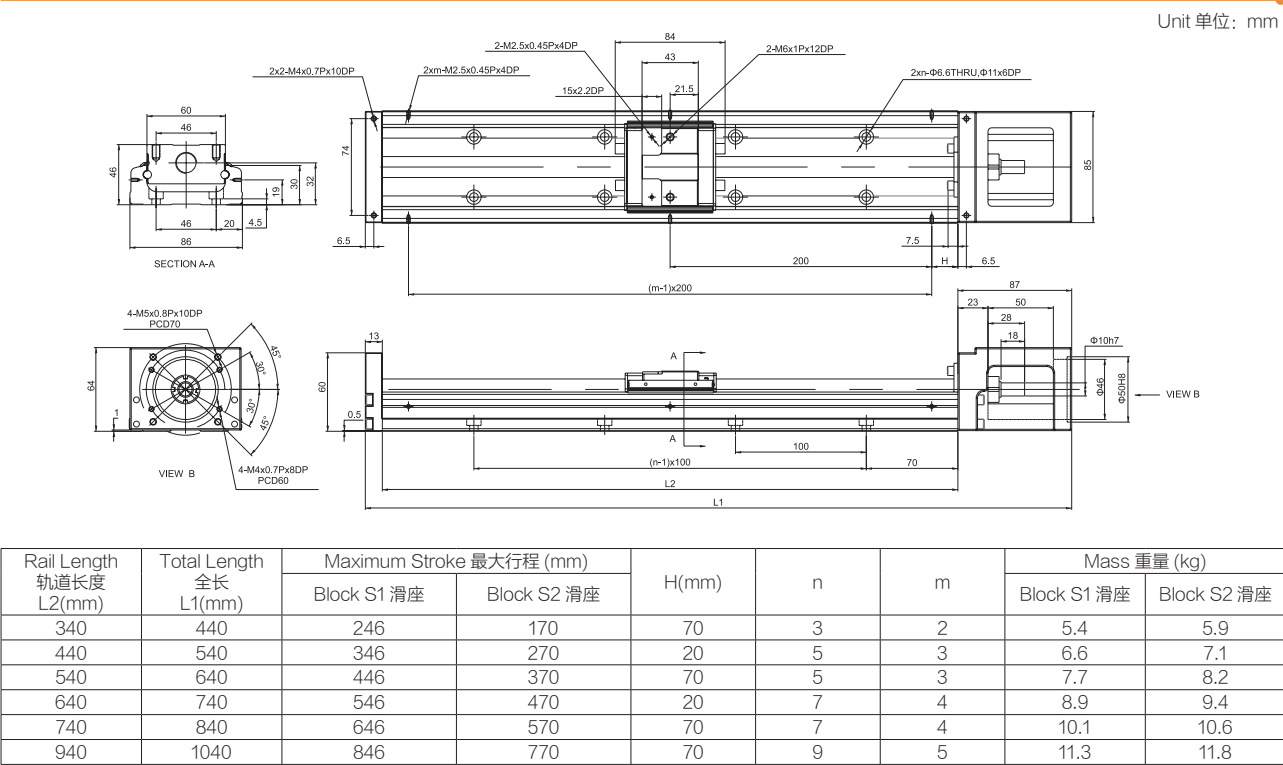


CK86-FD 电机下装

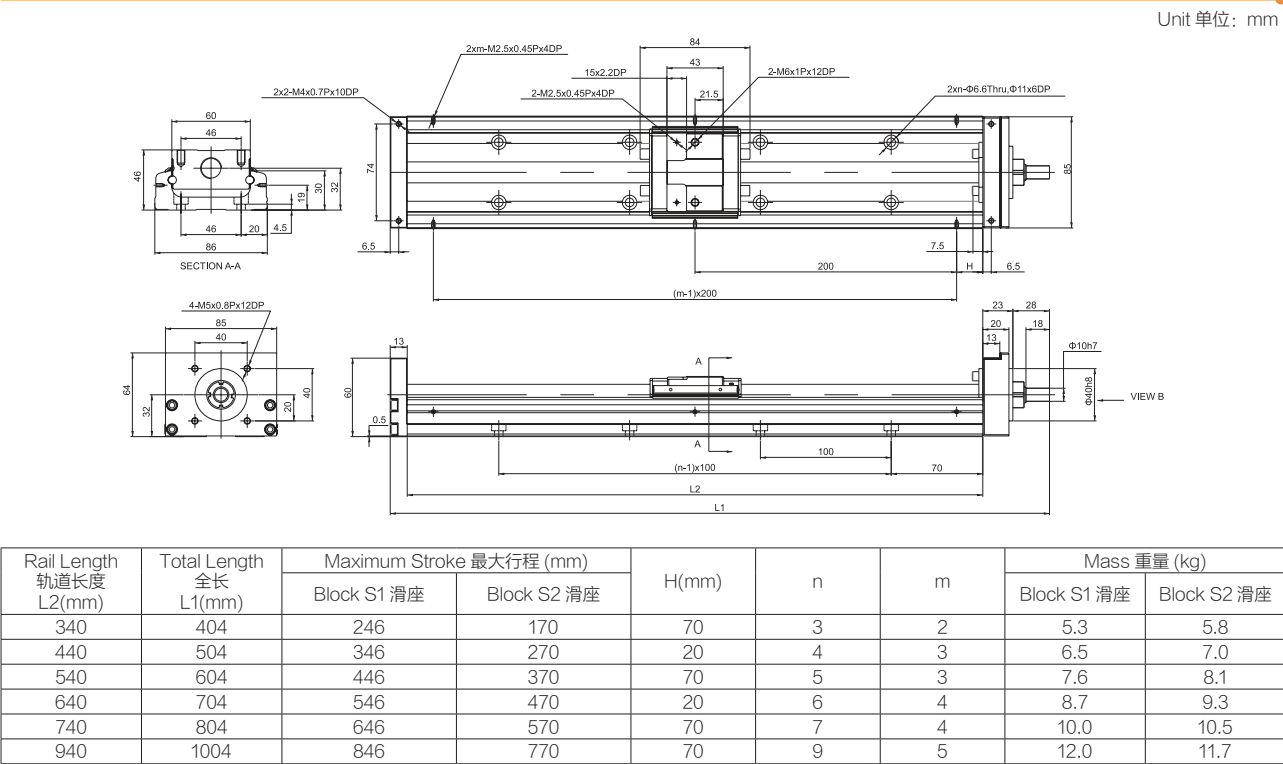


CK86 Light Duty 轻载
Without cover 不含护盖

CK86-FO 电机直联

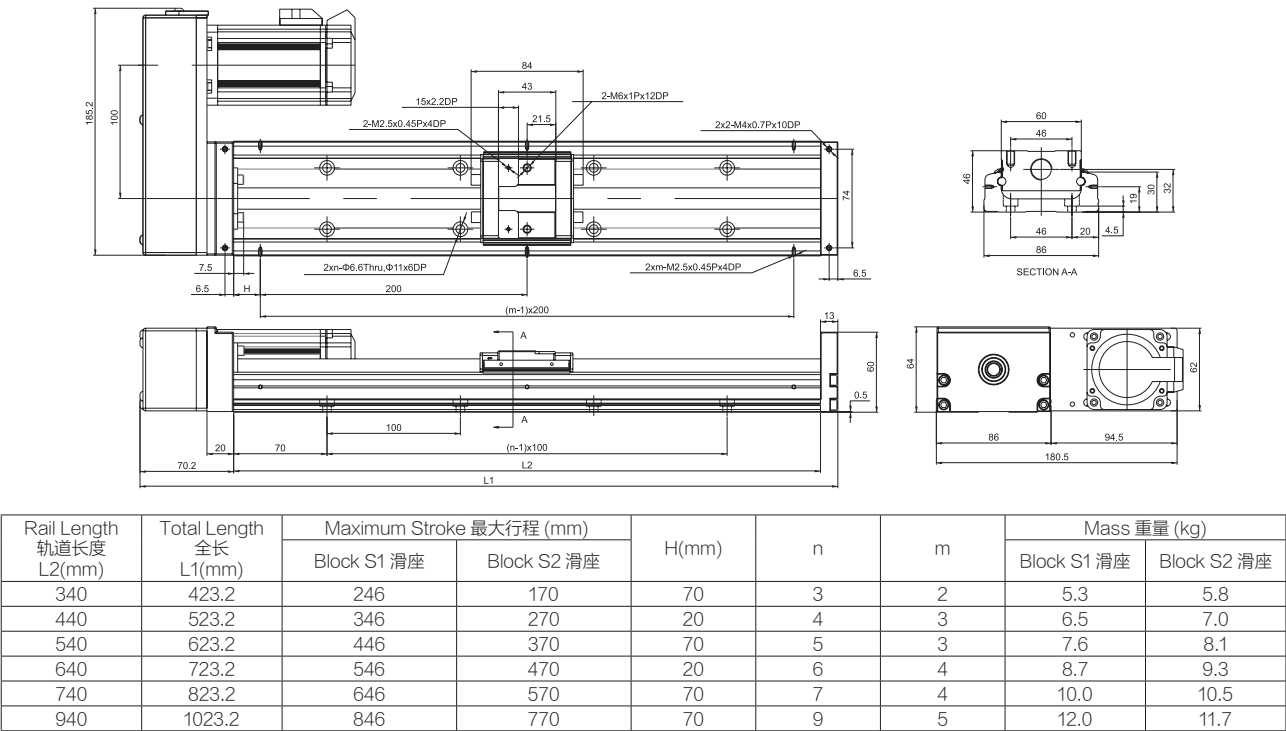


CK86-HO



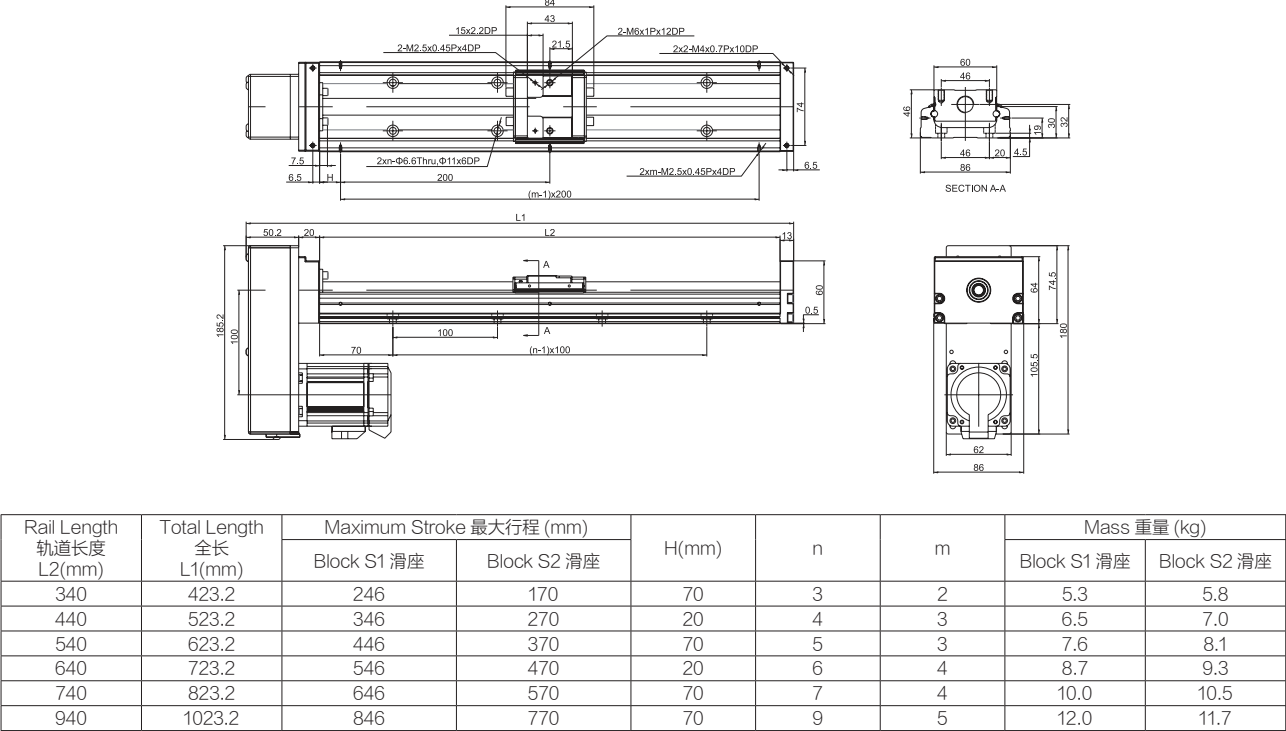
CK86-FL 电机左装

Unit 单位: mm



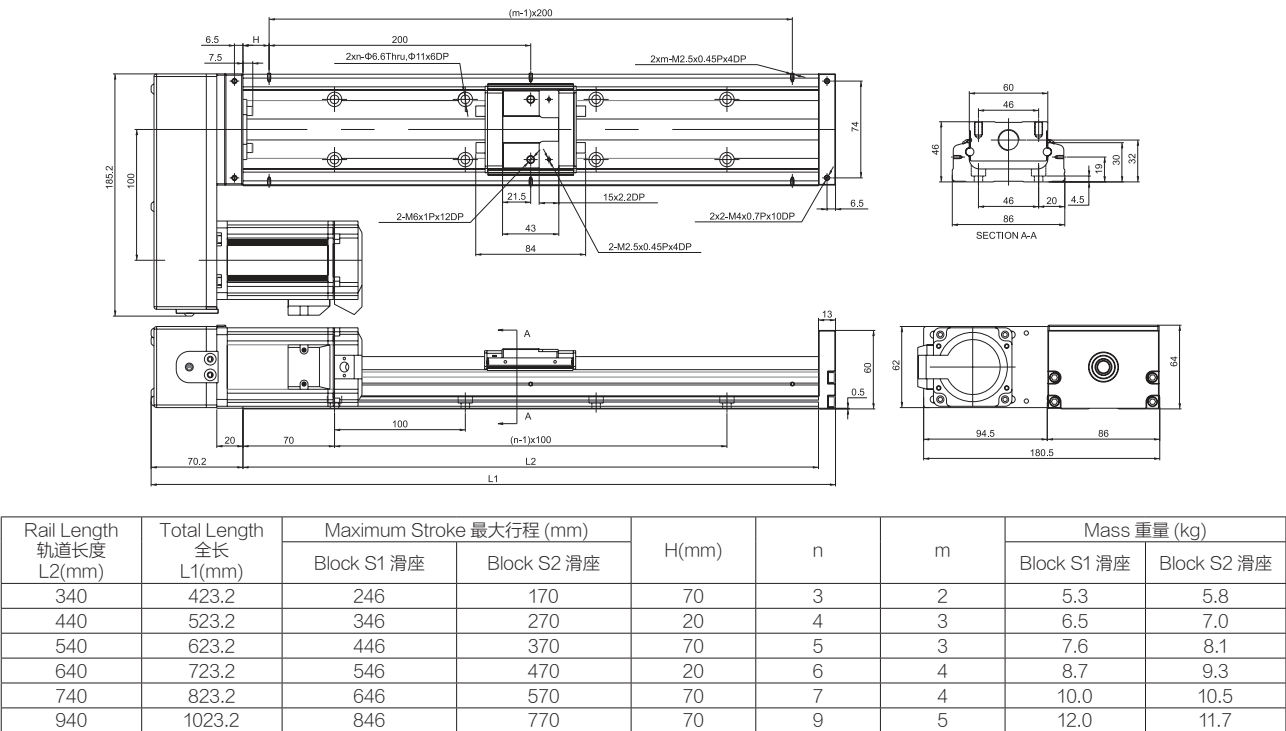
CK86-FD 电机下装

Unit 单位: mm



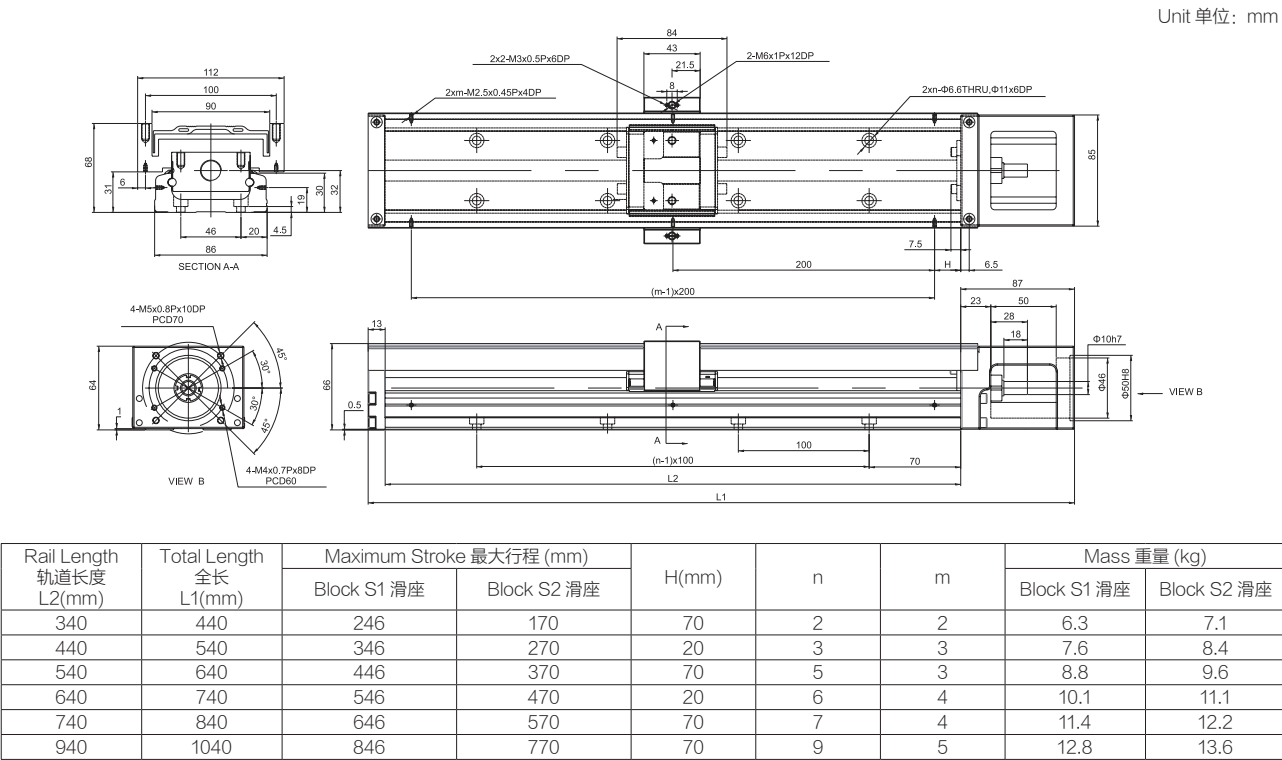
CK86-FR 电机右装

Unit 单位: mm

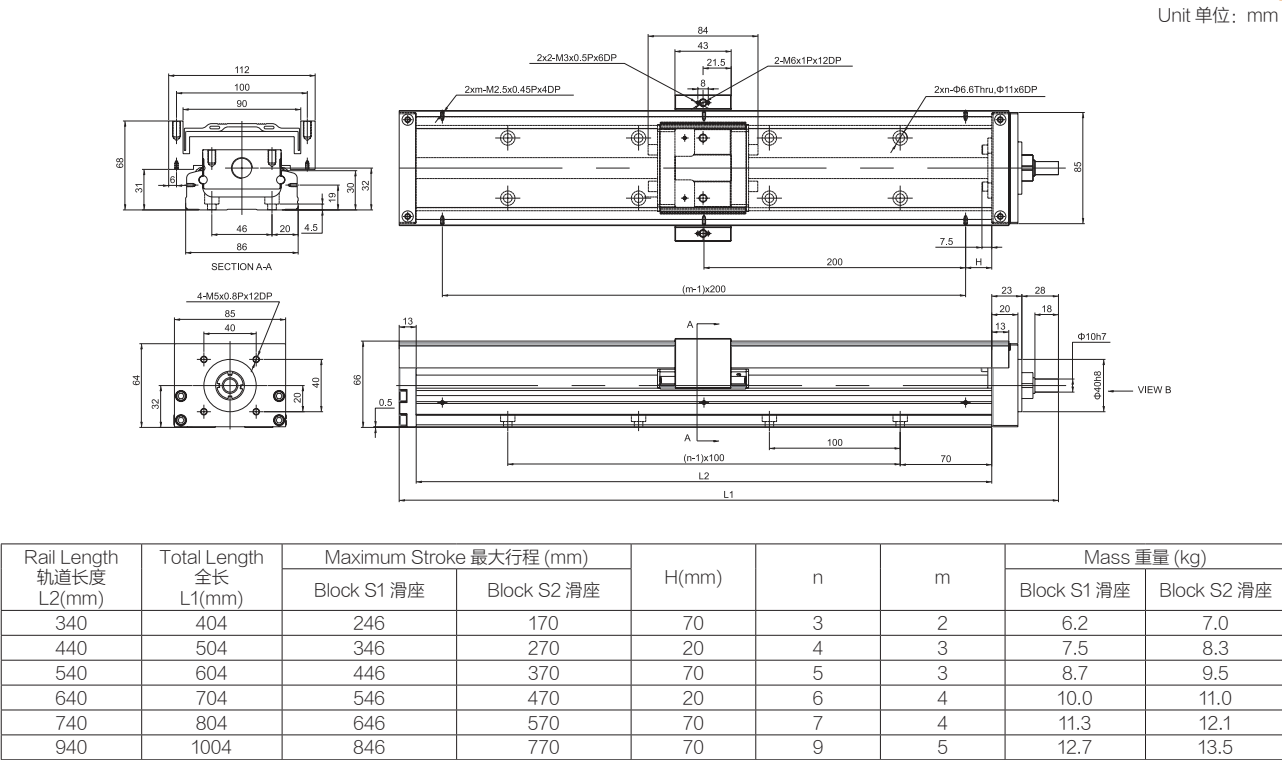


CK86 Light Duty 轻载
With cover 含护盖

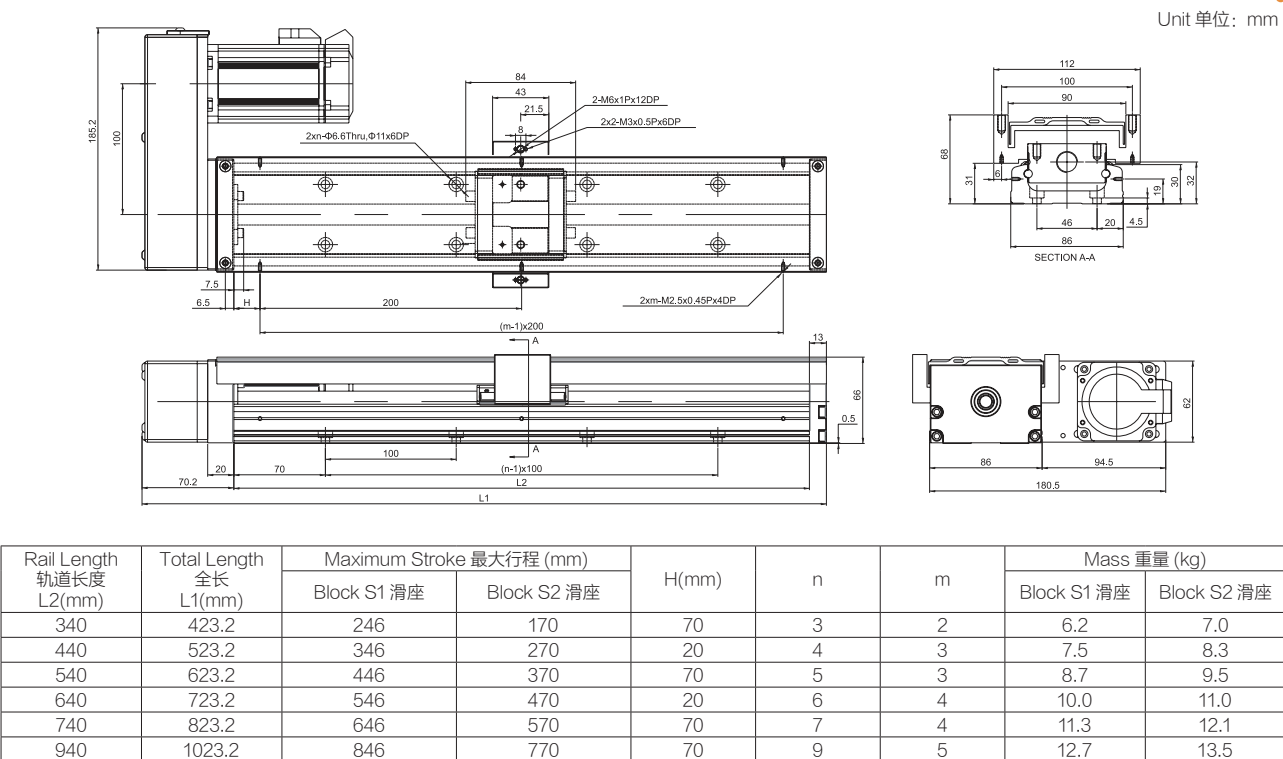
CK86-FO 电机直联



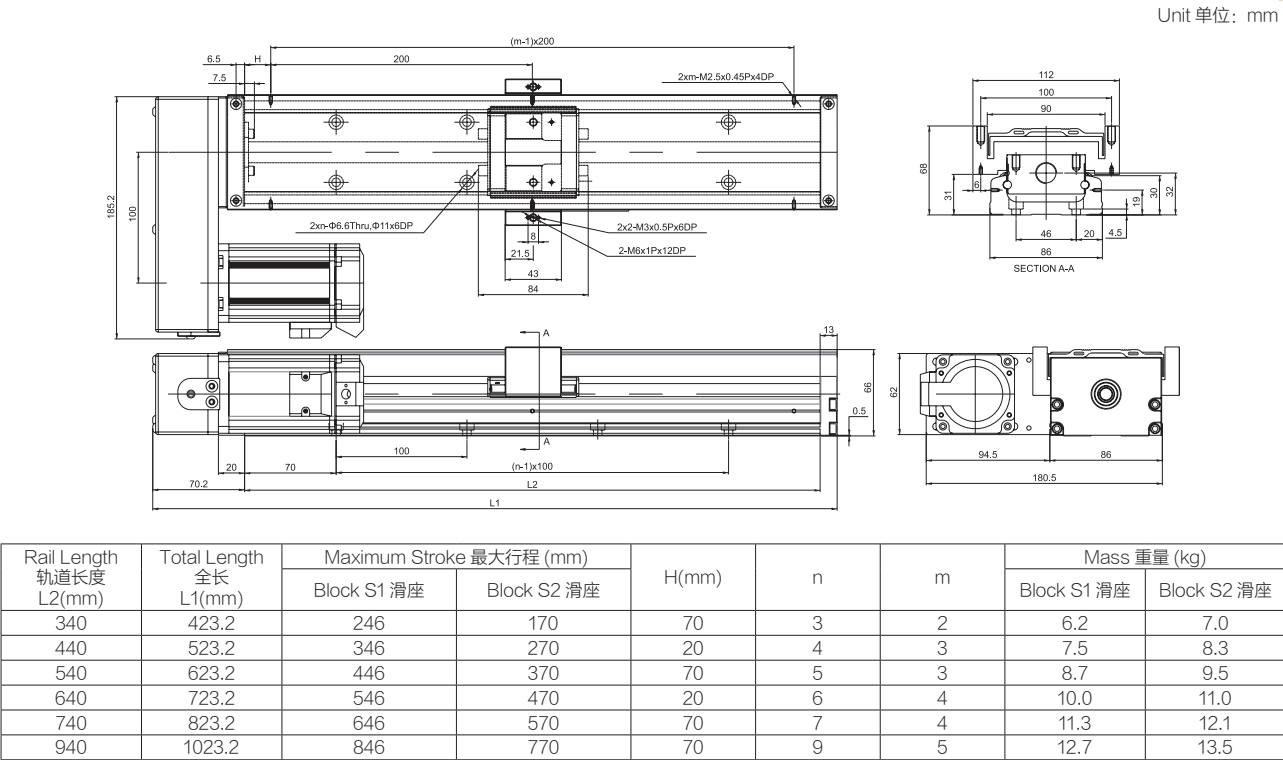
CK86-HO



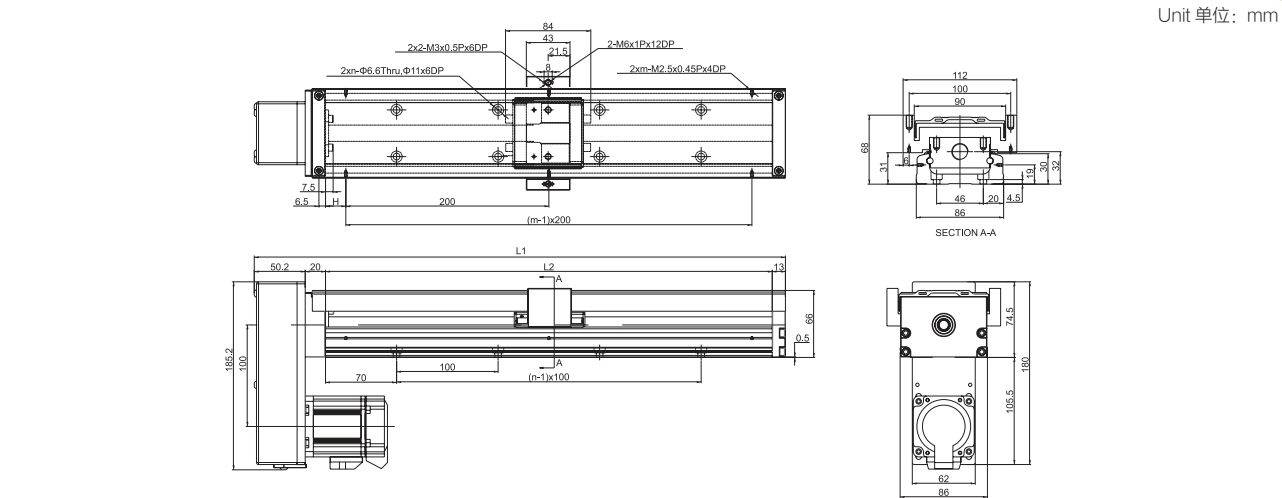
CK86-FL 电机左装



CK86-FR 电机右装



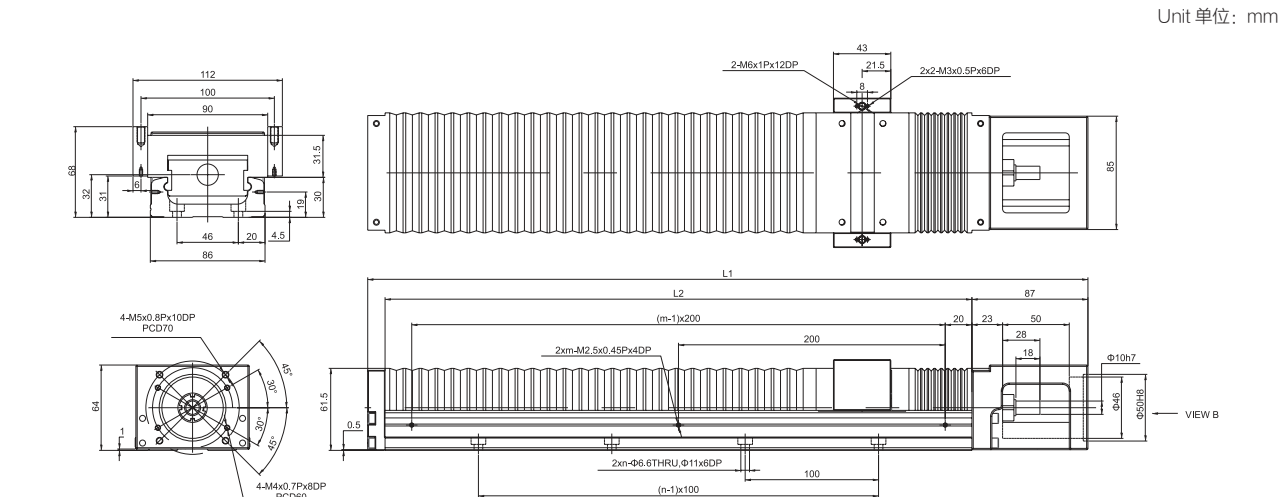
CK86-FD 电机下装



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		H(mm)	n	m	Mass 重量 (kg)	
		Block S1 滑座	Block S2 滑座				Block S1 滑座	Block S2 滑座
340	423.2	246	170	70	3	2	6.2	7.0
440	523.2	346	270	20	4	3	7.5	8.3
540	623.2	446	370	70	5	3	8.7	9.5
640	723.2	546	470	20	6	4	10.0	11.0
740	823.2	646	570	70	7	4	11.3	12.1
940	1023.2	846	770	70	9	5	12.7	13.5

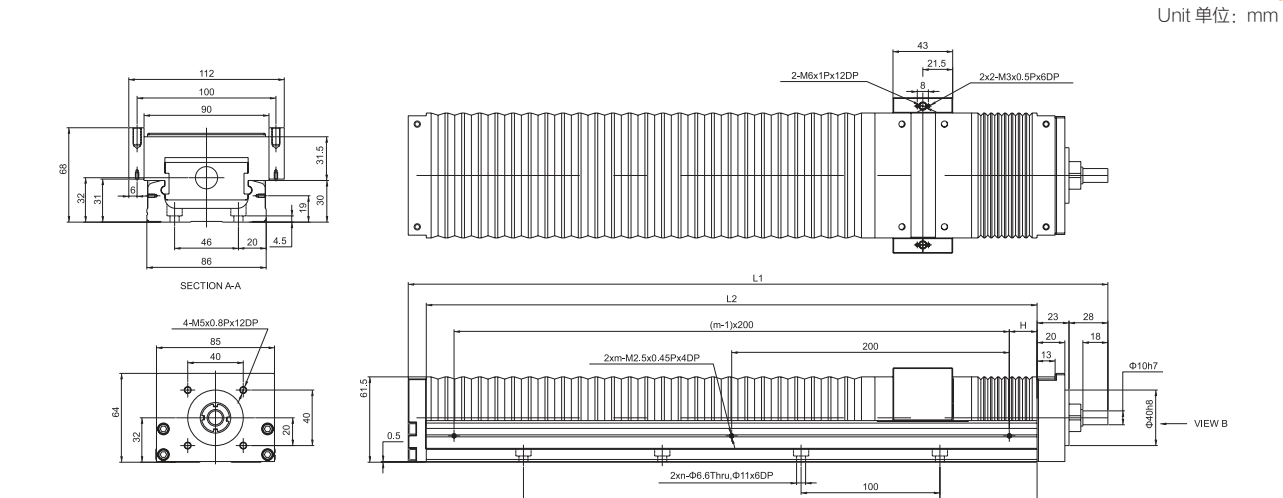
CK86 Light Duty 轻载
With Cover 含护罩

CK86-FO 电机直联



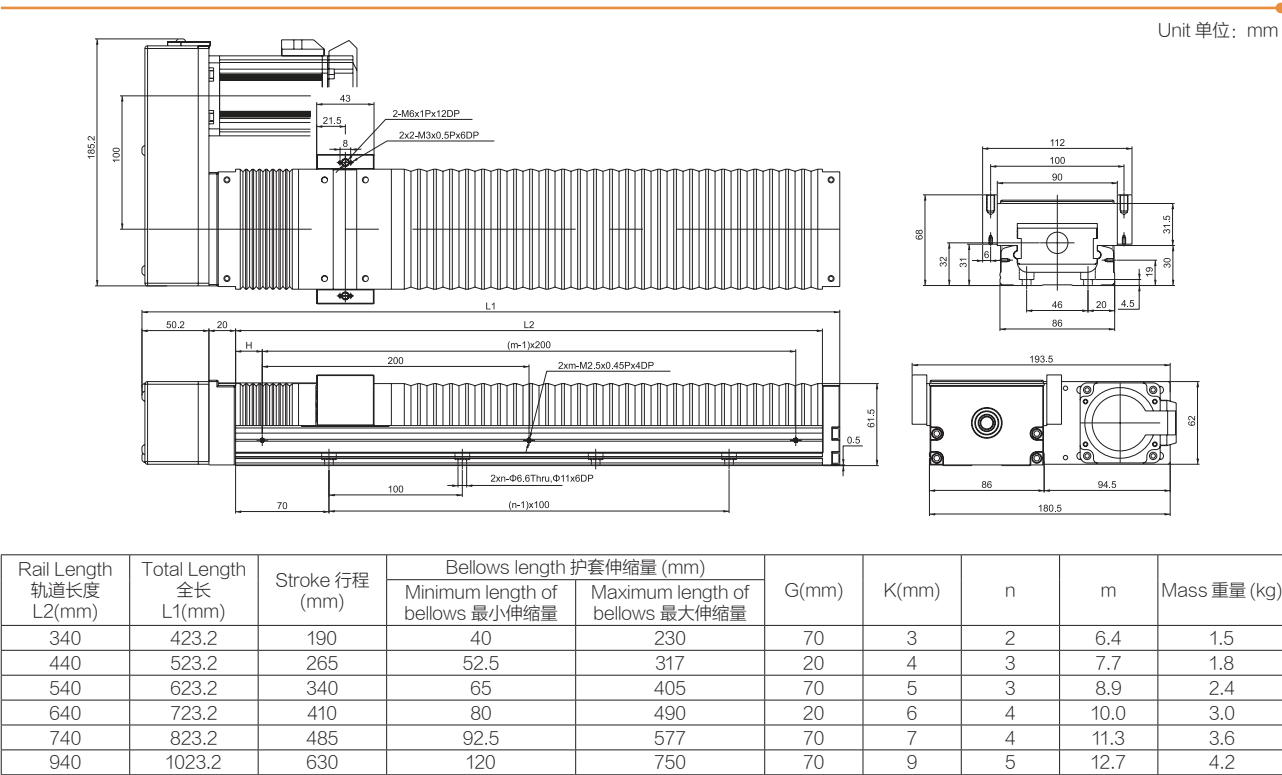
Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Stroke 行程 (mm)	Bellows length 护套伸缩量 (mm)		H(mm)	n	m	Mass 重量 (kg)
			Minimum length of bellows 最小伸缩量	Maximum length of bellows 最大伸缩量				
340	440	190	40	230	70	3	2	6.5
440	540	265	52.5	317	20	4	3	7.8
540	640	340	65	405	70	5	3	9.0
640	740	410	80	490	20	6	4	10.3
740	840	485	92.5	577	70	7	4	11.6
940	1040	630	120	750	70	9	5	13.0

CK86-HO

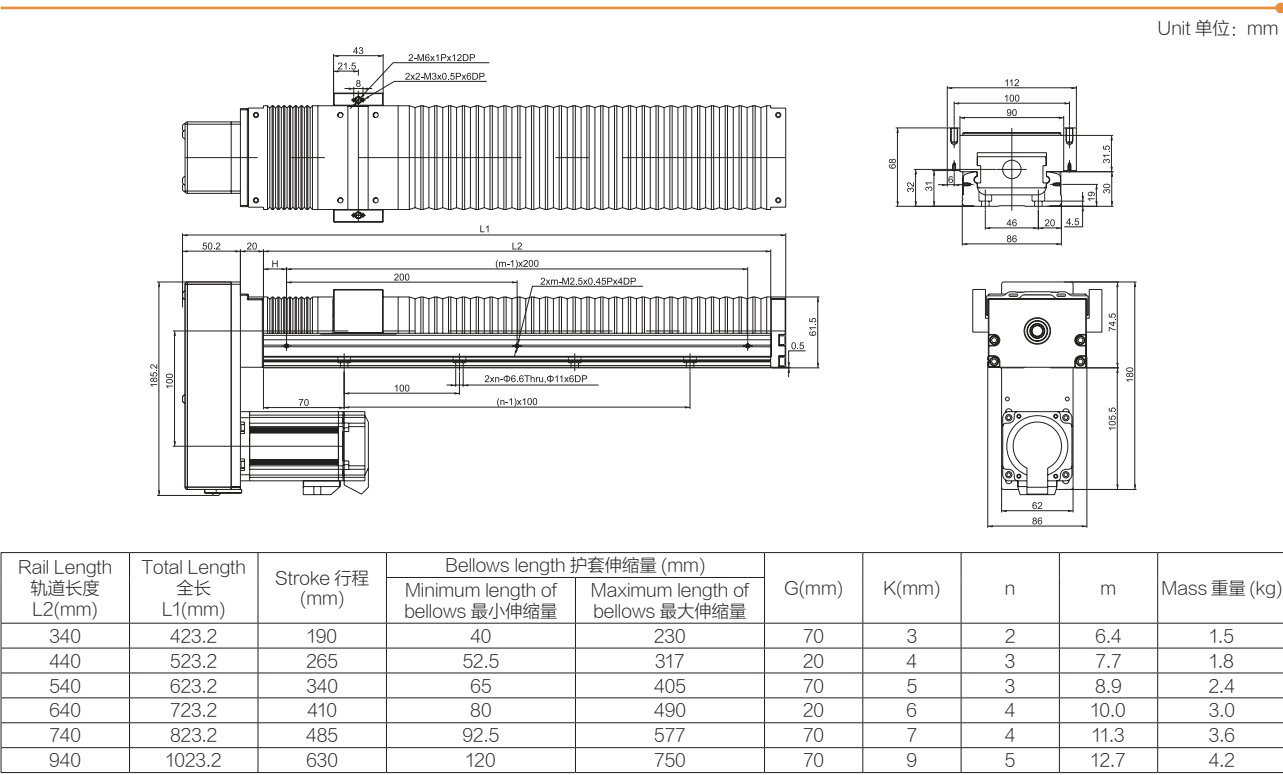


Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Stroke 行程 (mm)	Bellows length 护套伸缩量 (mm)		H(mm)	n	m	Mass 重量 (kg)
			Minimum length of bellows 最小伸缩量	Maximum length of bellows 最大伸缩量				
340	404	190	40	230	70	3	2	6.4
440	504	265	52.5	317	20	4	3	7.7
540	604	340	65	405	70	5	3	8.9
640	704	410	80	490	20	6	4	10.0
740	704	485	92.5	577	70	7	4	11.3
940	1004	630	120	750	70	9	5	12.7

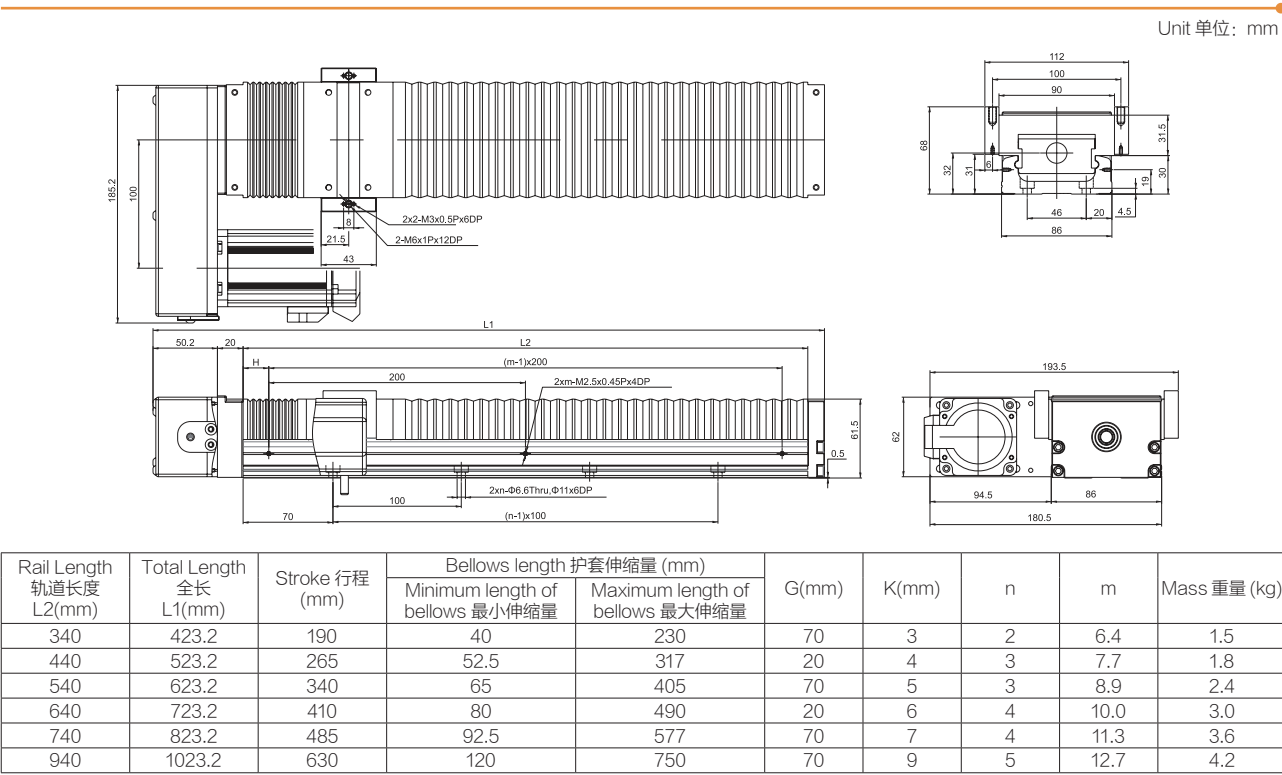
CK86-FL 电机左装



CK86-FD 电机下装



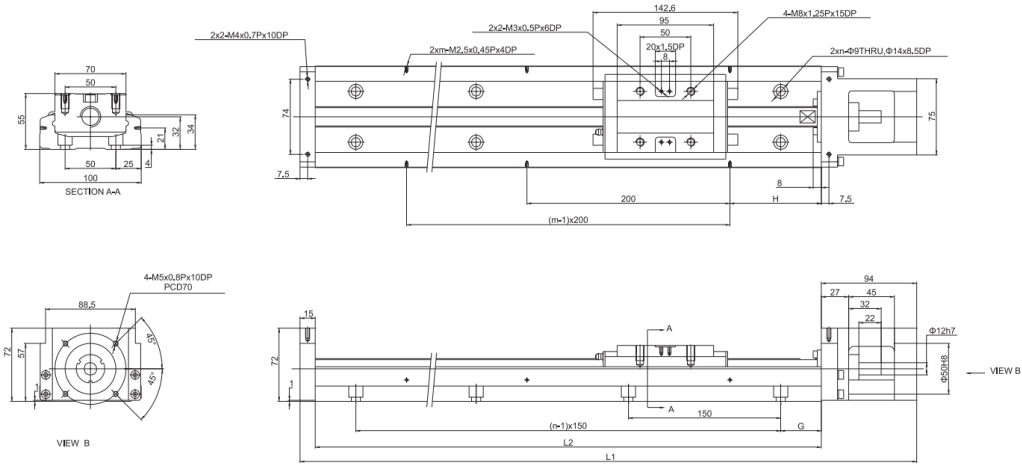
CK86-FR 电机右装



CK100 Standard 标准

CK100-FO 电机直联 (Without cover 不含护盖)

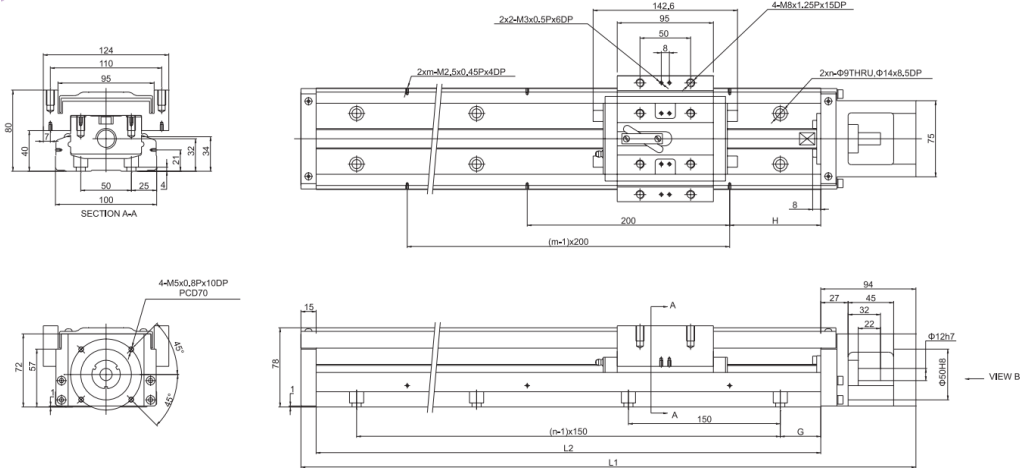
Unit 单位: mm



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	H(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
980	1089	828	700	40	90			18.6	20.3
1080	1189	928	800	15	40	8	6	20.3	22.0
1180	1289	1028	900	65	90	8		22.0	23.7
1280	1389	1128	1000	40	40	9	7	23.6	25.3
1380	1489	1228	1100	15	90	10		25.3	27.0

CK100-FO 电机直联 (With cover 含护盖)

Unit 单位: mm

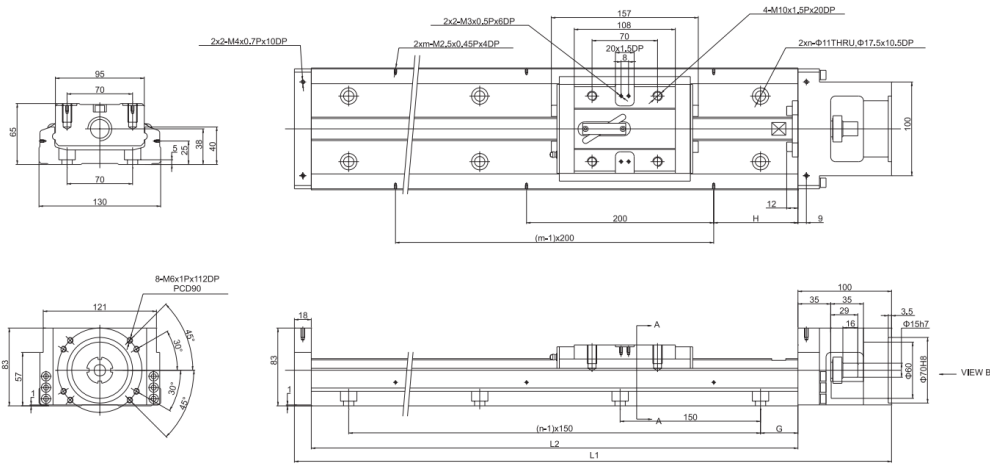


Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	H(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
980	1089	828	700	40	90	7	5	20.4	22.1
1080	1189	928	800	15	40	8	6	22.2	23.9
1180	1289	1028	900	65	90	8	6	24.0	25.7
1280	1389	1128	1000	40	40	9	7	25.7	27.4
1380	1489	1228	1100	15	90	10	7	27.5	29.2

CK130 Standard 标准

CK130-FO 电机直联 (Without cover 不含护盖)

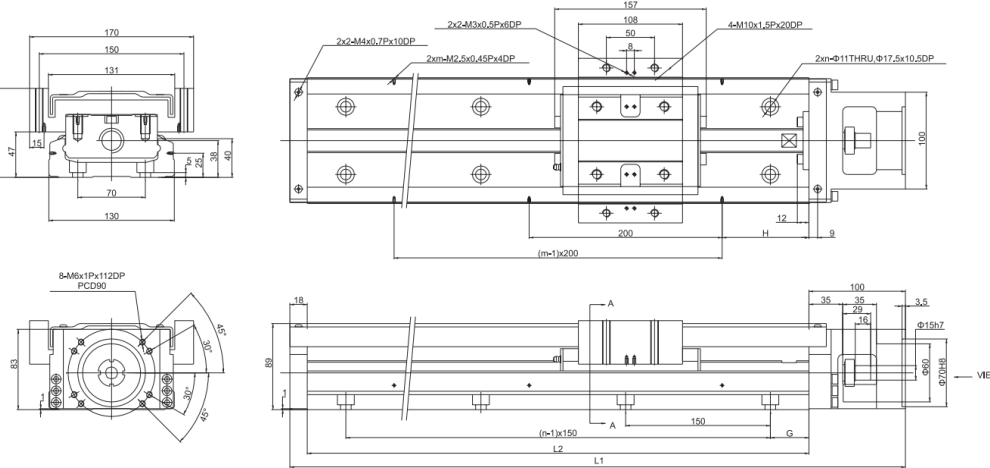
Unit 单位: mm



Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	H(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
980	1098	811	659	40	90	7	5	29.4	32.3
1180	1298	1011	859	65	90	8	6	34.3	37.2
1380	1498	1211	1059	90	90	9	7	39.2	42.1
1680	1798	1511	1359	90	40	11	9	46.5	49.4

CK130-FO 电机直联 (With cover 含护盖)

Unit 单位: mm

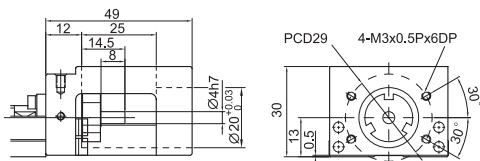


Rail Length 轨道长度 L2(mm)	Total Length 全长 L1(mm)	Maximum Stroke 最大行程 (mm)		G(mm)	H(mm)	n	m	Mass 重量 (kg)	
		Block A1 滑座	Block A2 滑座					Block A1 滑座	Block A2 滑座
980	1098	811	659	40	90	7	5	31.9	35.9
1180	1298	1011	859	65	90	8	6	37.1	41.1
1380	1498	1211	1059	90	90	9	7	42.2	46.2
1680	1798	1511	1359	90	40	11	9	49.9	53.9

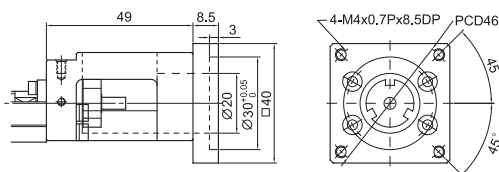
1.10 Motor Housing and Motor Adaptor Flange 马达座与马达联接法兰

CK40

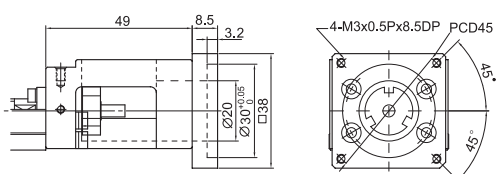
Motor Housing 马达座 F0



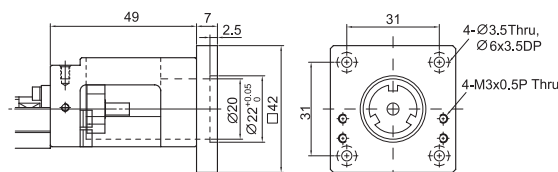
Motor Adaptor Flange 马达连接法兰 F1



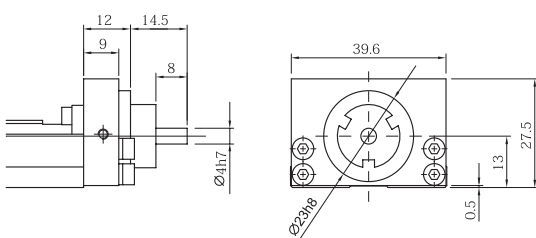
Motor Adaptor Flange 马达连接法兰 F2



Motor Adaptor Flange 马达连接法兰 F3

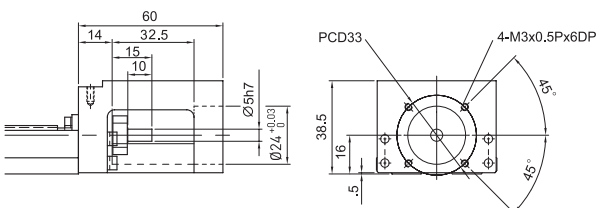


Mount Housing 连接固定座 H0

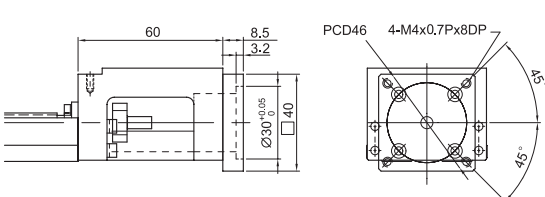


CK50

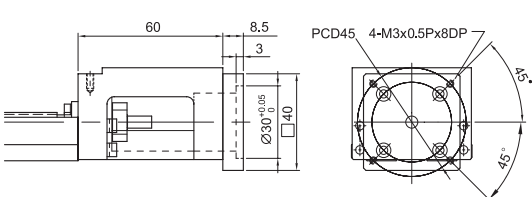
Motor Housing 马达座 F0



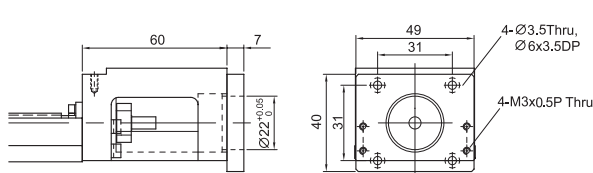
Motor Adaptor Flange 马达连接法兰 F1



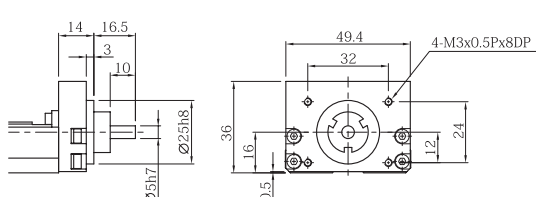
Motor Adaptor Flange 马达连接法兰 F2



Motor Adaptor Flange 马达连接法兰 F3

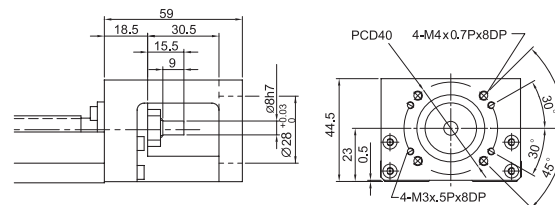


Mount Housing 连接固定座 H0

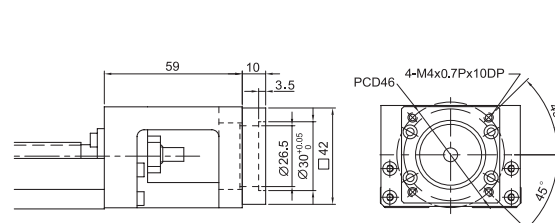


CK60

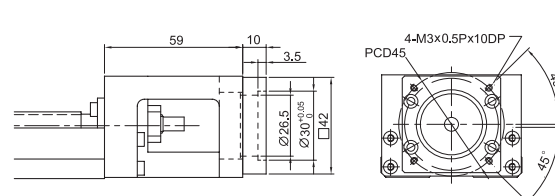
Motor Housing 马达座 F0



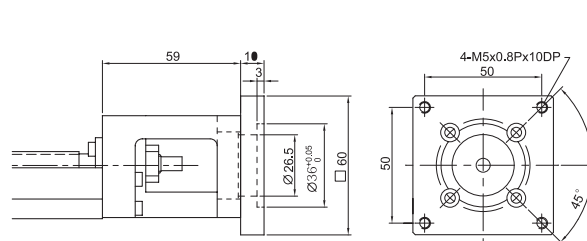
Motor Adaptor Flange 马达连接法兰 F1



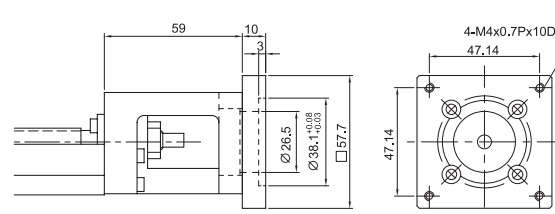
Motor Adaptor Flange 马达连接法兰 F2



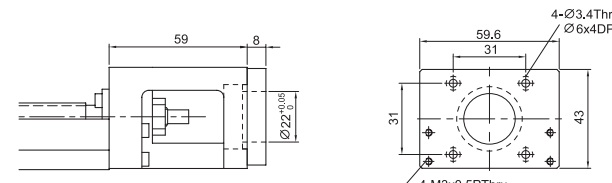
Motor Adaptor Flange 马达连接法兰 F3



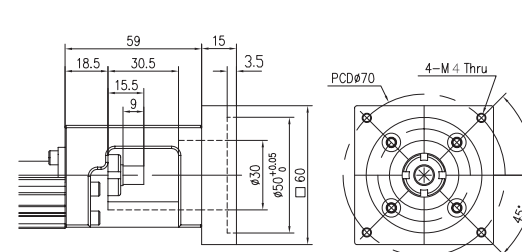
Motor Adaptor Flange 马达连接法兰 F4



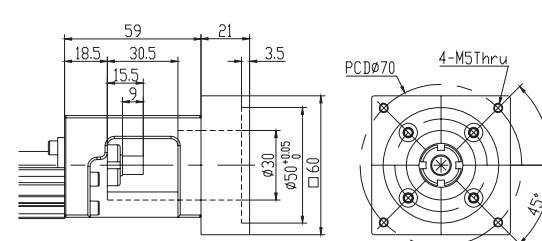
Motor Adaptor Flange 马达连接法兰 F5



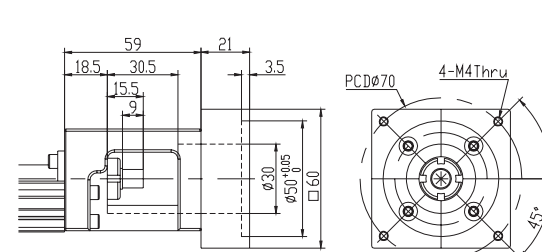
Motor Adaptor Flange 马达连接法兰 F6



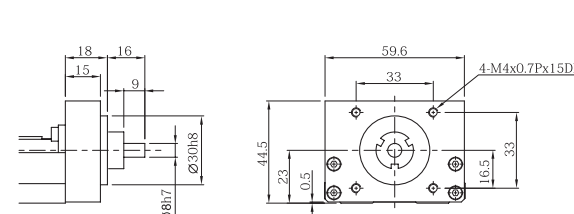
Motor Adaptor Flange 马达连接法兰 F7



Motor Adaptor Flange 马达连接法兰 F8

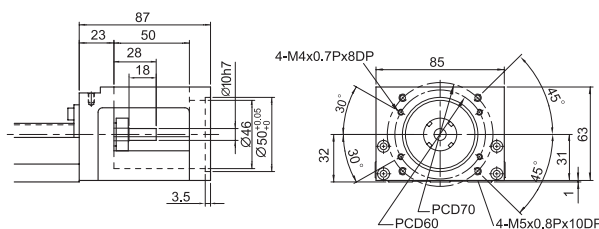


Mount Housing 连接固定座 H0

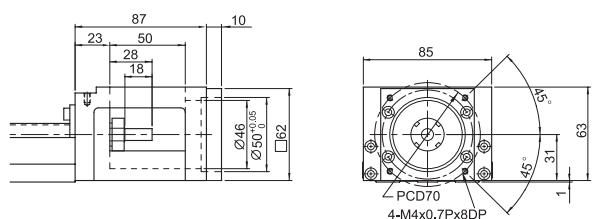


CK86

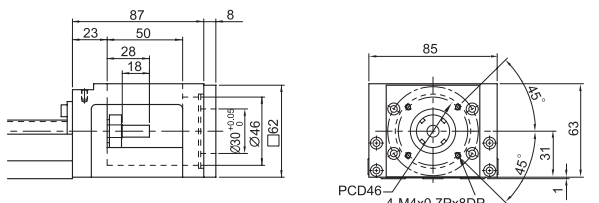
Motor Housing 马达座 F0



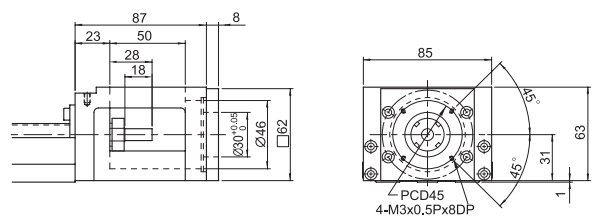
Motor Adaptor Flange 马达连接法兰 F1



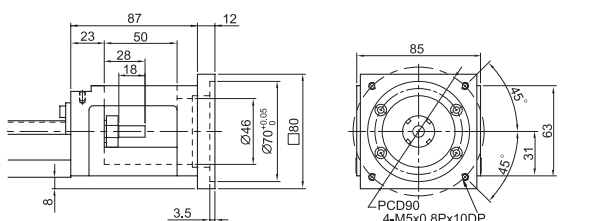
Motor Adaptor Flange 马达连接法兰 F2



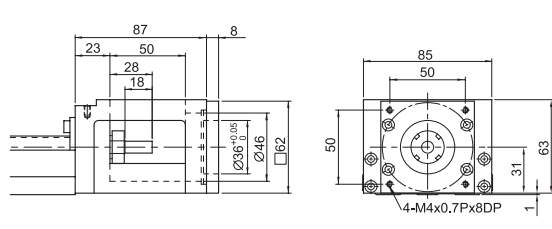
Motor Adaptor Flange 马达连接法兰 F3



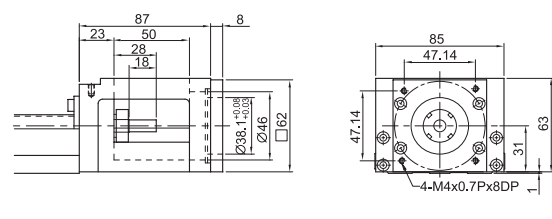
Motor Adaptor Flange 马达连接法兰 F4



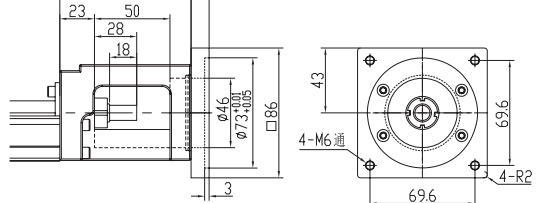
Motor Adaptor Flange 马达连接法兰 F5



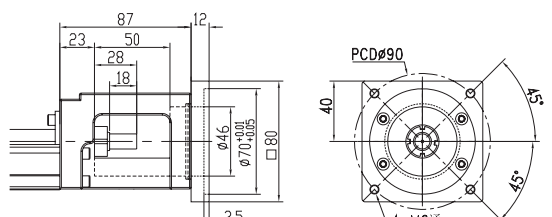
Motor Adaptor Flange 马达连接法兰 F6



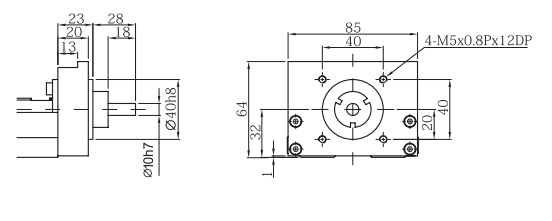
Motor Adaptor Flange 马达连接法兰 F7



Motor Adaptor Flange 马达连接法兰 F8

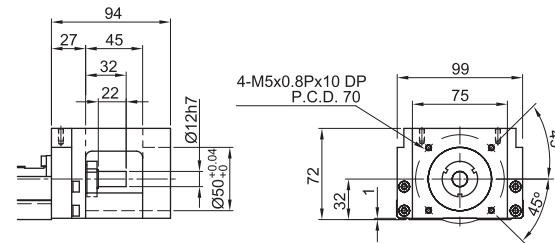


Mount Housing 连接固定座 H0

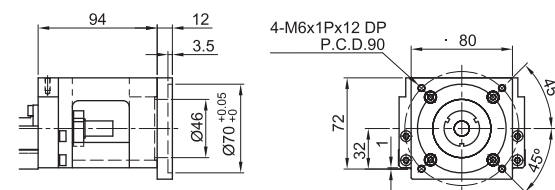


CK100

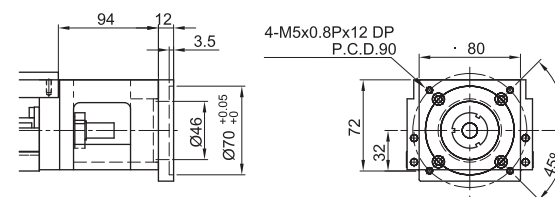
Motor Housing 马达座 F0



Motor Adaptor Flange 马达连接法兰 F1

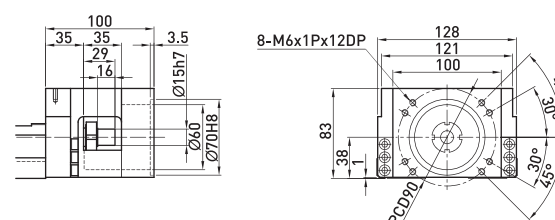


Motor Adaptor Flange 马达连接法兰 F2

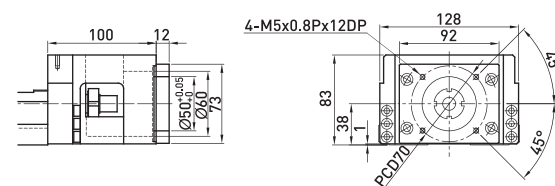


CK130

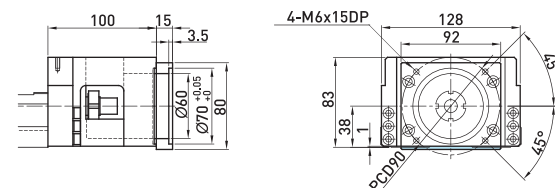
Motor Housing 马达座 F0



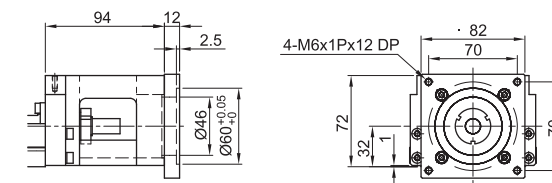
Motor Adaptor Flange 马达连接法兰 F1



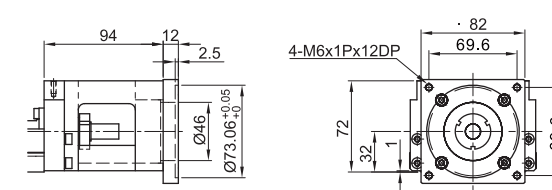
Motor Adaptor Flange 马达连接法兰 F2



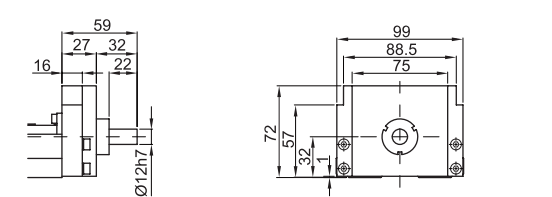
Motor Adaptor Flange 马达连接法兰 F3



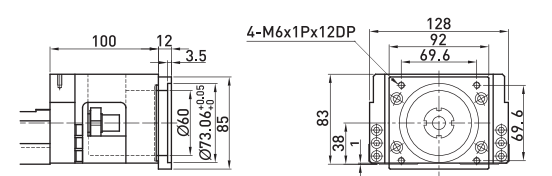
Motor Adaptor Flange 马达连接法兰 F4



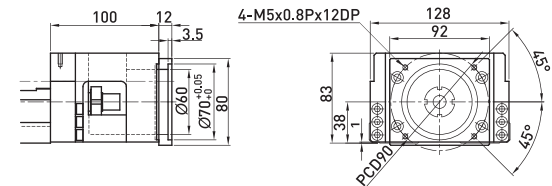
Mount Housing 连接固定座 H0



Motor Adaptor Flange 马达连接法兰 F3



Motor Adaptor Flange 马达连接法兰 F4



Mount Housing 连接固定座 H0

