

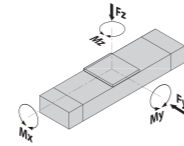
型號訂購碼 Code ZLO 17 C1 500 3L M P RH T P3

ZLO 17D C1 500 3L M P H T P3

本體型號 Item NO.	繞圈規格 Coil Size	行程 Stroke	繞線長度 Wire Length	編碼器 Encoder	驅動器 Driver	履帶取出方向 Caterpillar Band Entry Location	安裝方式 Mounting	拖鏈 Drag chain	限位傳感器數量 Photoelectric Sensor
ZLO17 單動子型 Single Carriage	C1:標準型動子 Standard Coil	180-2460, 間隔/Gap120	3L:3m	G: 光學尺 Optical Scale	S: 高創 Servotronic	RH:水平右側取出 Horizontal,Right	H:水平安裝 Horizontal	T:含拖鏈 With Drag chain	P1: 1祇 1PCS
ZLO17D 雙動子型 Double Carriage	C2:加長型動子 Extended Coil		5L:5m	M: 磁性尺 Magnetic Scale	P: 松下 Panasonic	LH:水平左側取出 Horizontal,Left	W:側掛安裝 Wall-hanging	無T:不含拖鏈 No Drag chain	P2: 2祇 2PCS
	C3:超長型動子 Ultralong Coil		8L:8m			RW:壁掛右側取出 Wall-hanging,Right			P3: 3祇 3PCS
						LW:壁掛左側取出 Wall-hanging,Left			未標記: 無 No Mark: None



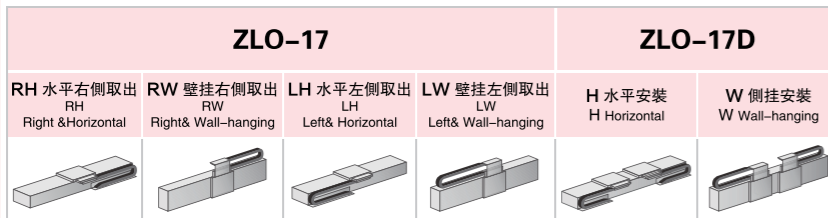
最大動態力和力矩 Max Permissible Forces And Torques



規格 Type	ZLO17-C1	ZLO17-C2	ZLO17-C3
■ F(y) (N · m)	7463	9702	11941
■ F(z) (N · m)	7463	9702	11941
■ M(x) (N · m)	339	339	475
■ M(y) (N · m)	167	369	517
■ M(z) (N · m)	696	1186	1660

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torque relate to the following:
$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

履帶取出方向 Caterpillar Band Entry Location



搭配驅動器一覽表 Driver

廠牌 Brand	驅動器記號 Mark	驅動器型號 Driver Model	接線訊號 Connection Signal
高創 Servotronic	S	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	P	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT

注：請務必按導線槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

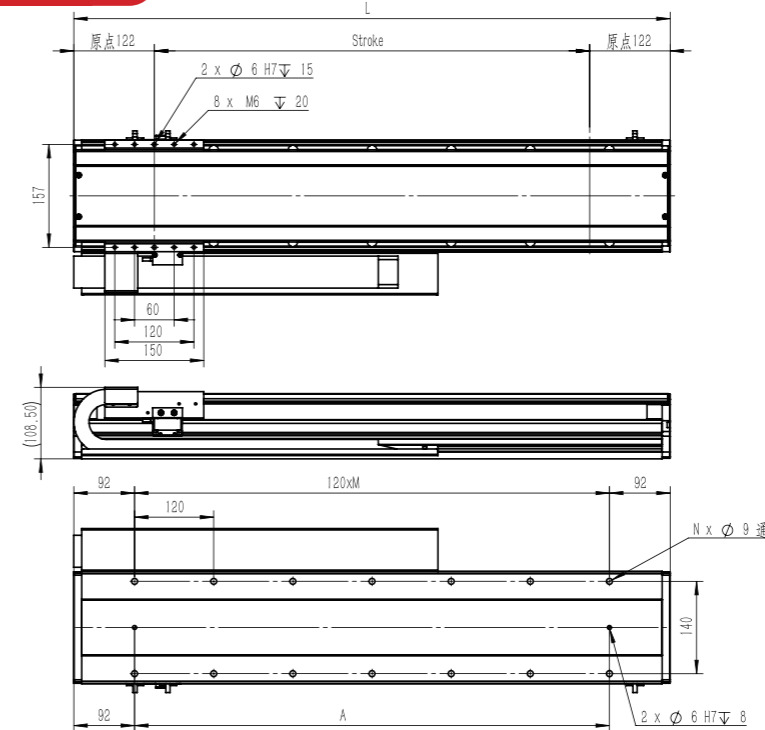
基本規格 Basic Specification

機型 Type	ZLO17-C1	ZLO17-C2	ZLO17-C3
技術參數 Technical Parameters	有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core		
位置重複精度(μ) Repetitive Accuracy	5 #1		
持續推力(N) Continuous Thrust(N)	100	180	270
最大推力(N) Max Thrust(N)	280	504	756
最大加速度(M/S ²) Max Accelerated Speed	4G		
最大速度(MM/S) Max Speed	4000		
標準行程(mm) Standard Stroke	180-2460 mm / 120 pitch		
主機截面最大外形: Max Outline of Main Engine's Cross Section	183*102		
高剛性直綫滑軌(mm) High Stiffness Linear Guide	20型導軌 2支 / 20 Guide 2 PCS		
履帶內部容積: Internal Capacity of Caterpillar Band	17*25		
原點感應器 Home Sensor	EE-SX672(NPN)		

- 注#1:
1. 最高速度隨最小分辨率而變化。
2. 動作速度、加速度等規格受負載的限制。
3. 加速度為2G動作時的負載，所到達速度，受推力和速度特性的限制。
4. 反覆運動0背隙。

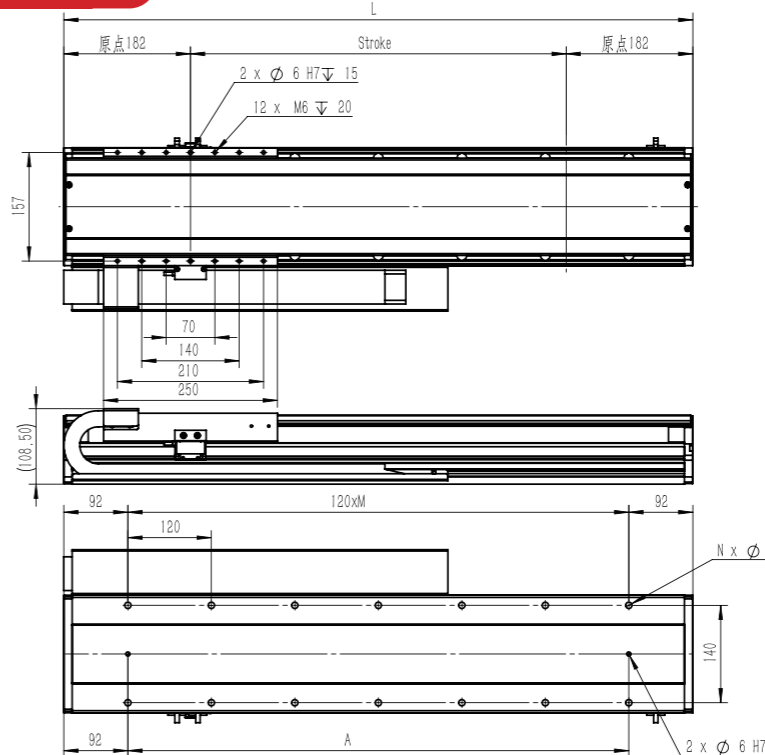
- Note #1:
1. The max speed depends on the minimum resolution.
2. Movement speed and accelerated speed are restricted by the load.
3. The load that when the accelerated speed is 2G, and then speed reached is restricted by the thrust and its speed characteristics.
4. Repetitive movement with zero back clearance.

ZLO 17-C1

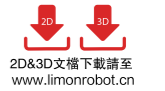


行程 Stroke (mm)	180	300	420	540	660	780	900	1020	1140	1260	1380	1500	1620	1740	1860	1980	2100	2220	2340	2460
總長 Length (L)	424	544	664	784	904	1024	1144	1264	1384	1504	1624	1744	1864	1984	2104	2224	2344	2464	2584	2704
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
A	240	360	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
重量 Weight (kg)	14	16.3	18.6	20.9	23.2	25.5	27.8	30.1	32.4	34.7	37	39.3	41.6	43.9	46.2	48.5	50.8	53.1	55.4	57.7

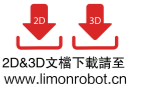
ZLO 17-C2



行程 Stroke (mm)	180	300	420	540	660	780	900	1020	1140	1260	1380	1500	1620	1740	1860	1980	2100	2220	2340	2460
總長 Length (L)	544	664	784	904	1024	1144	1264	1384	1504	1624	1744	1864	1984	2104	2224	2344	2464	2584	2704	2824
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	360	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46
重量 Weight (kg)	15.8	18.1	20.4	22.7	25	27.3	29.6	31.9	34.2	36.5	38.8	41.1	43.4	45.7	48	50.3	52.6	54.9	57.2	59.5

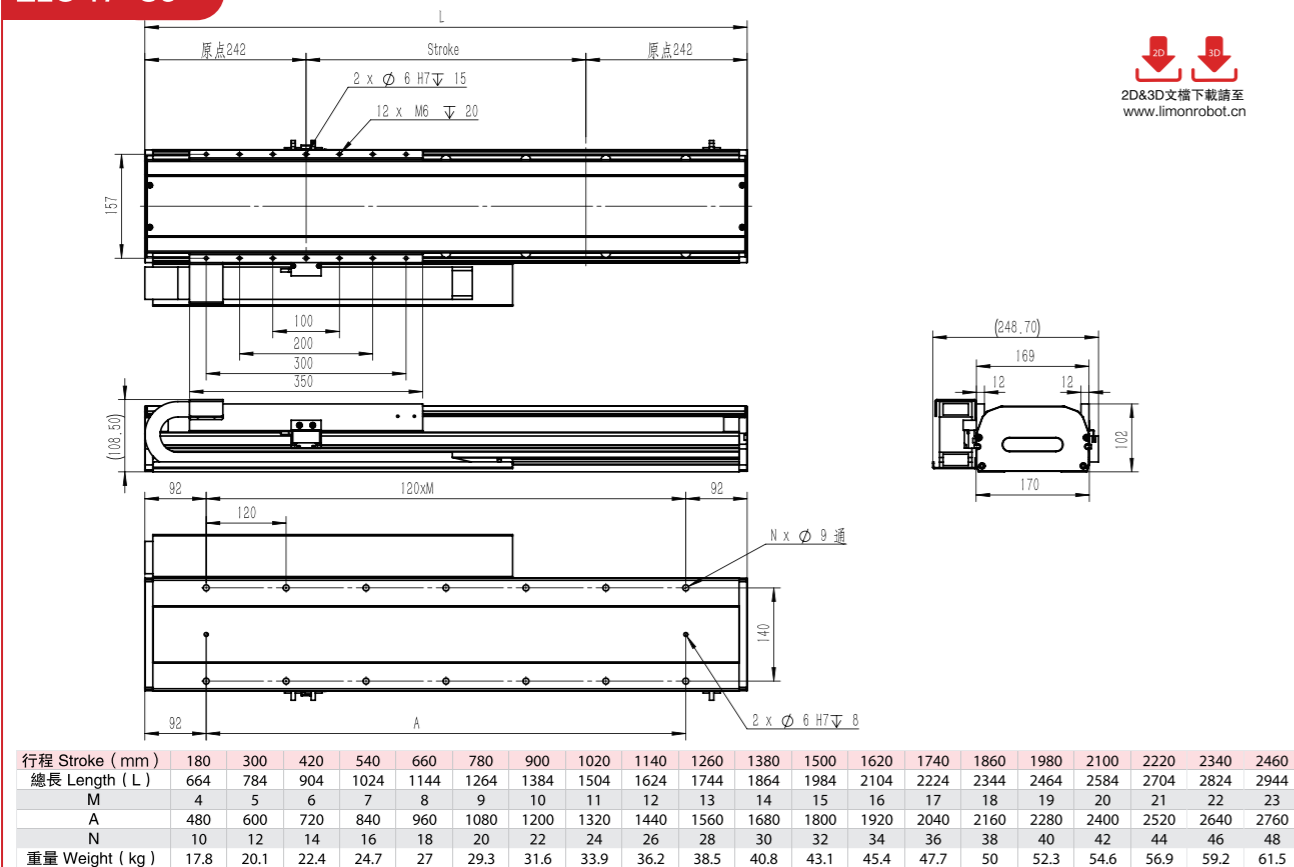


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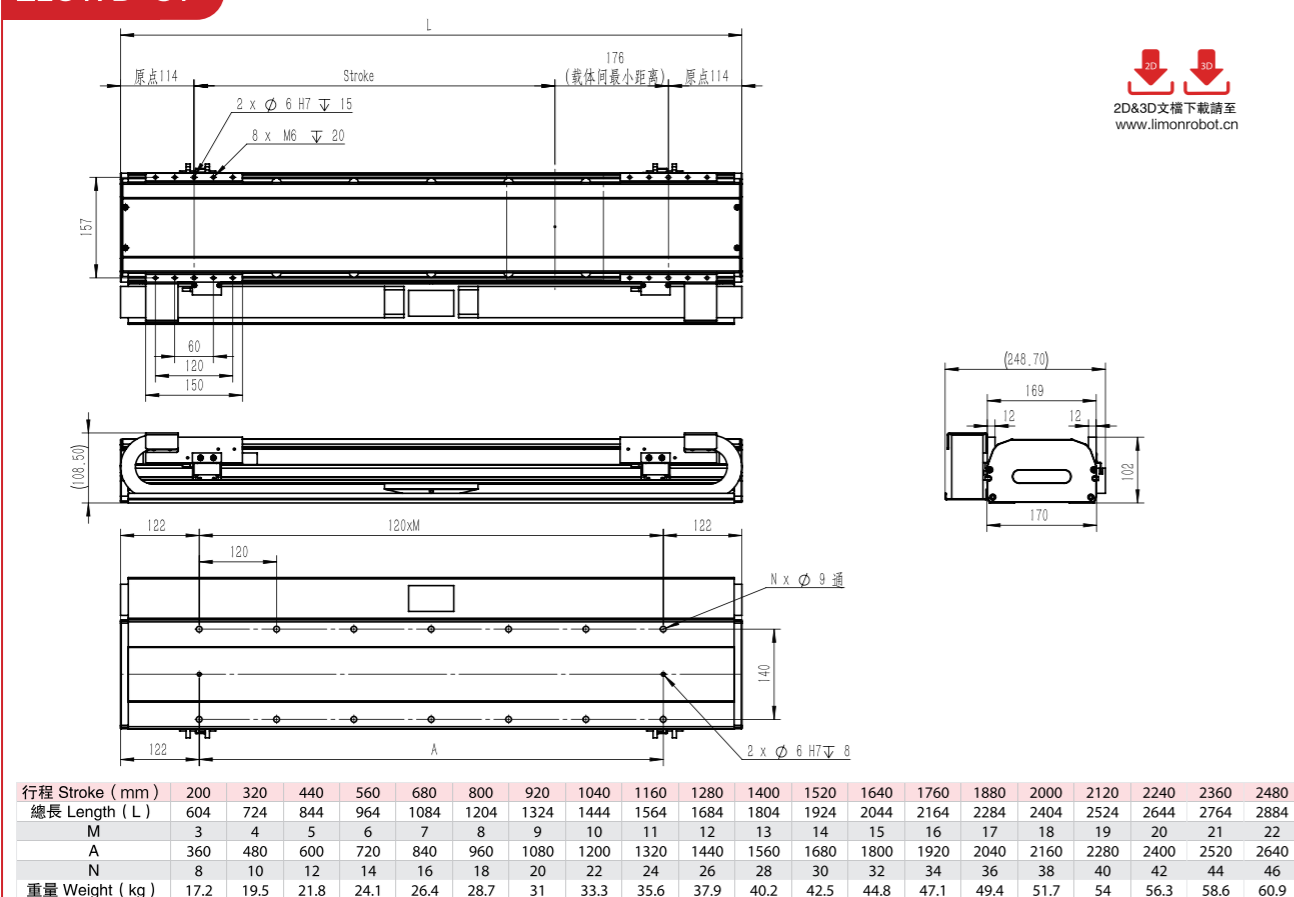


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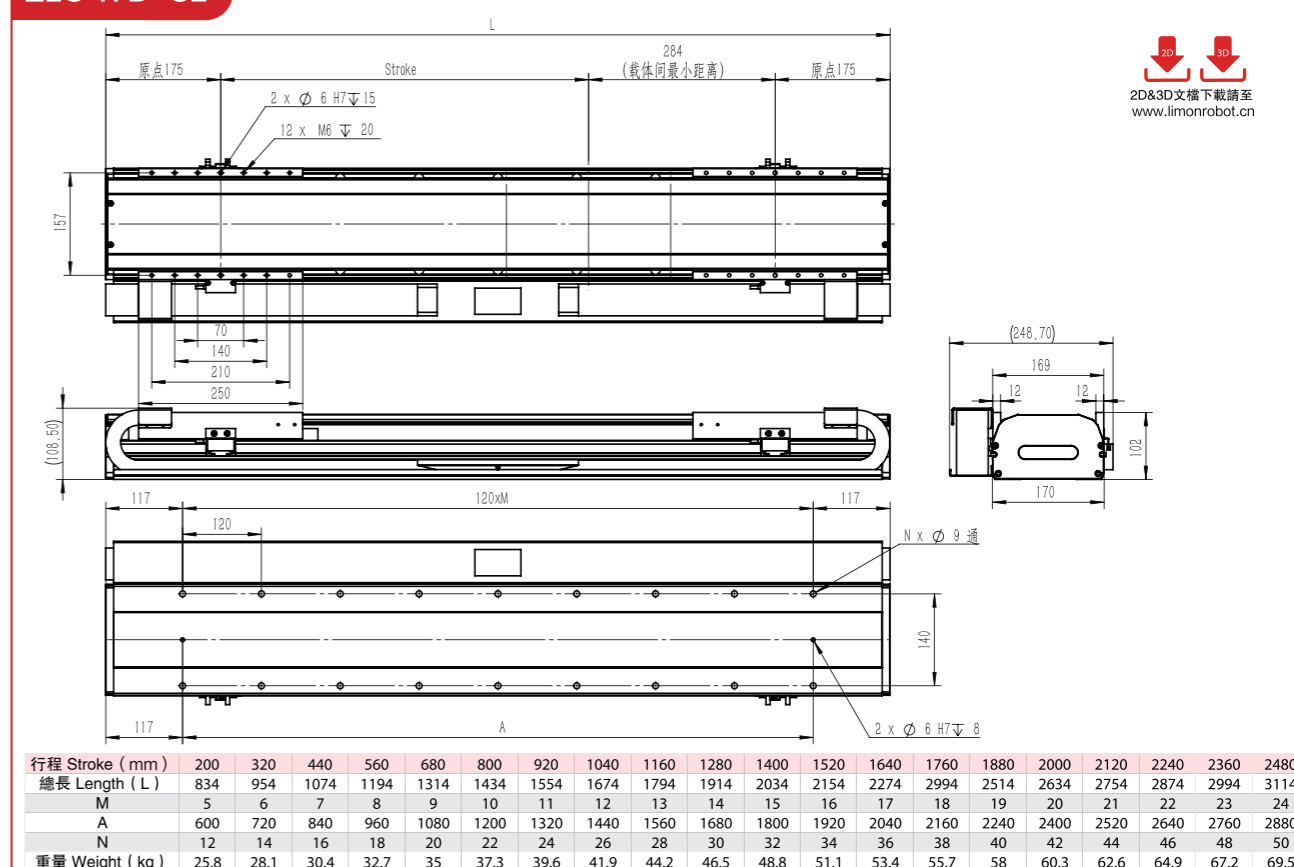
ZLO 17-C3



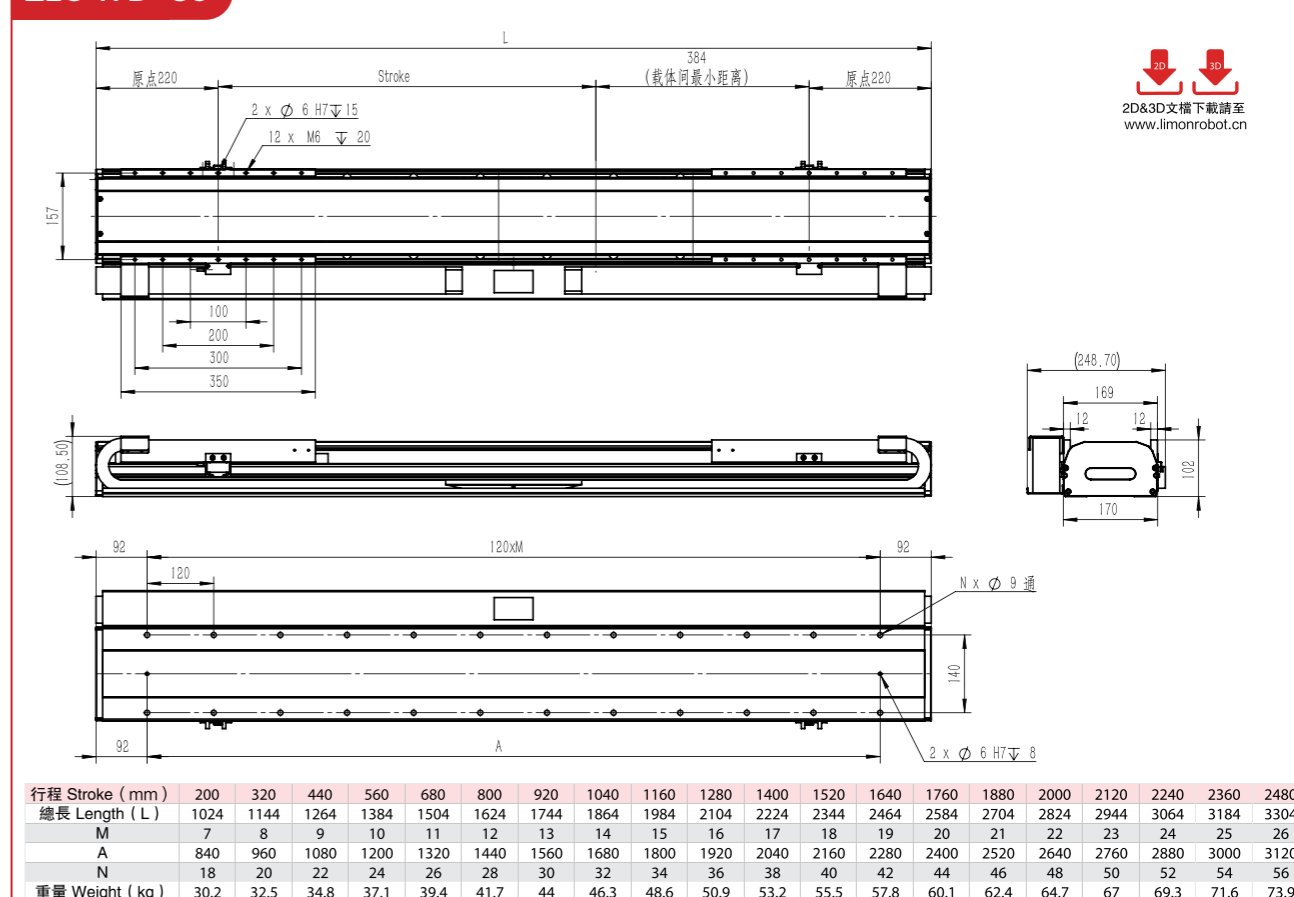
ZLO17D-C1



ZLO 17D-C2



ZLO 17D-C3



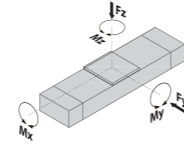
型號訂購碼 Code ZLO 22 C1 500 3L M P RH T P3

ZLO 22D C1 500 3L M P H T P3

本體型號 Item NO.	線圈規格 Coil Size	行程 Stroke	線纜長度 Wire Length	編碼器 Encoder	驅動器 Driver	履帶取出方向 Caterpillar Band Entry Location	安裝方式 Mounting	拖鏈 Drag chain	限位傳感器數量 Photoelectric Sensor
ZLO 22 單動子型 Single Carriage	C1:標準型動子 Standard Coil	180-2460, 間隔/Gap120	3L:3m	G:光學尺 Optical Scale	S:高創 Servotronics	RH:水平右側取出 Horizontal,Right	H:水平安裝 Horizontal	T:含拖鏈 With Drag chain	P1: 1祇 1PC
ZLO 22D 雙動子型 Double Carriage	C2:加長型動子 Extended Coil		5L:5m	M:磁性尺 Magnetic Scale	P:松下 Panasonic	LH:水平左側取出 Horizontal,Left	W:側掛安裝 Wall-hanging	無T:不含拖鏈 No Drag chain	P2: 2祇 2PCS
	C3:超長型動子 Ultralong Coil		8L:8m			RW:壁掛右側取出 Wall-hanging,Right			P3: 3祇 3PCS
						LW:壁掛左側取出 Wall-hanging,Left			未標記: 無 No Mark: None



最大動態力和力矩 Max Permissible Forces And Torques



規格 Type	ZLO22-C1	ZLO22-C2	ZLO22-C3
F _y (N·m)	12916	12916	15119
F _z (N·m)	12916	12916	15119
M _x (N·m)	650	650	650
M _y (N·m)	344	672	1008
M _z (N·m)	672	700	1050

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torque relate to the following:
$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

履帶取出方向 Caterpillar Band Entry Location

ZLO-22				ZLO-22D	
RH 水平右側取出 Right & Horizontal	RW 壁掛右側取出 Right & Wall-hanging	LH 水平左側取出 Left & Horizontal	LW 壁掛左側取出 Left & Wall-hanging	H 水平安裝 H Horizontal	W 側掛安裝 W Wall-hanging

搭配驅動器一覽表 Driver

廠牌 Brand	驅動器記號 Mark	驅動器型號 Driver Model	接線訊號 Connection Signal
高創 Servotronics	S	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	P	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT

注：請務必按導線槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

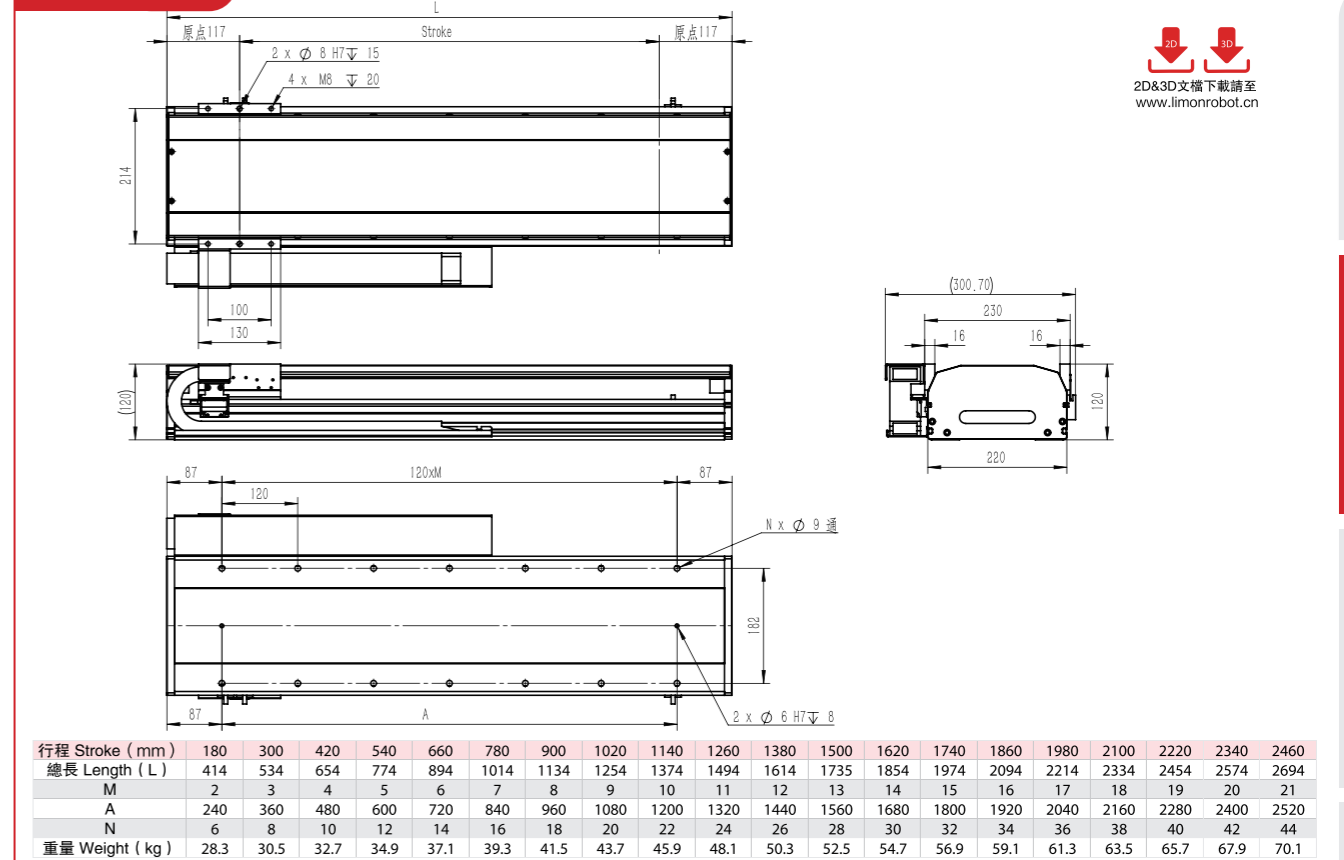
基本規格 Basic Specification

技術參數 Technical Parameters	機型 Type	ZLO22-C1	ZLO22-C2	ZLO22-C3
	驅動方式 Driving Method	有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core		
位置重複精度(μ) Repetitive Accuracy		5 #1		
持續推力 (N) Continuous Thrust(N)		160	288	432
最大推力 (N) Max Thrust(N)		448	806	1210
最大加速度(M/S ²) Max Accelerated Speed		4G		
最大速度(MM/S) Max Speed		4000		
標準行程 (mm) Standard Stroke		180-2460 mm / 120 pitch		
主機截面最大外形: Max Outline of Main Engine's Cross Section		183*102		
高剛性直綫滑軌 (mm) High Stiffness Linear Guide		25型導軌 2支 / 25 Guide 2 PCS		
履帶內部容積: Internal Capacity of Caterpillar Band		17*25		
原點感應器 Home Sensor		EE-SX672(NPN)		

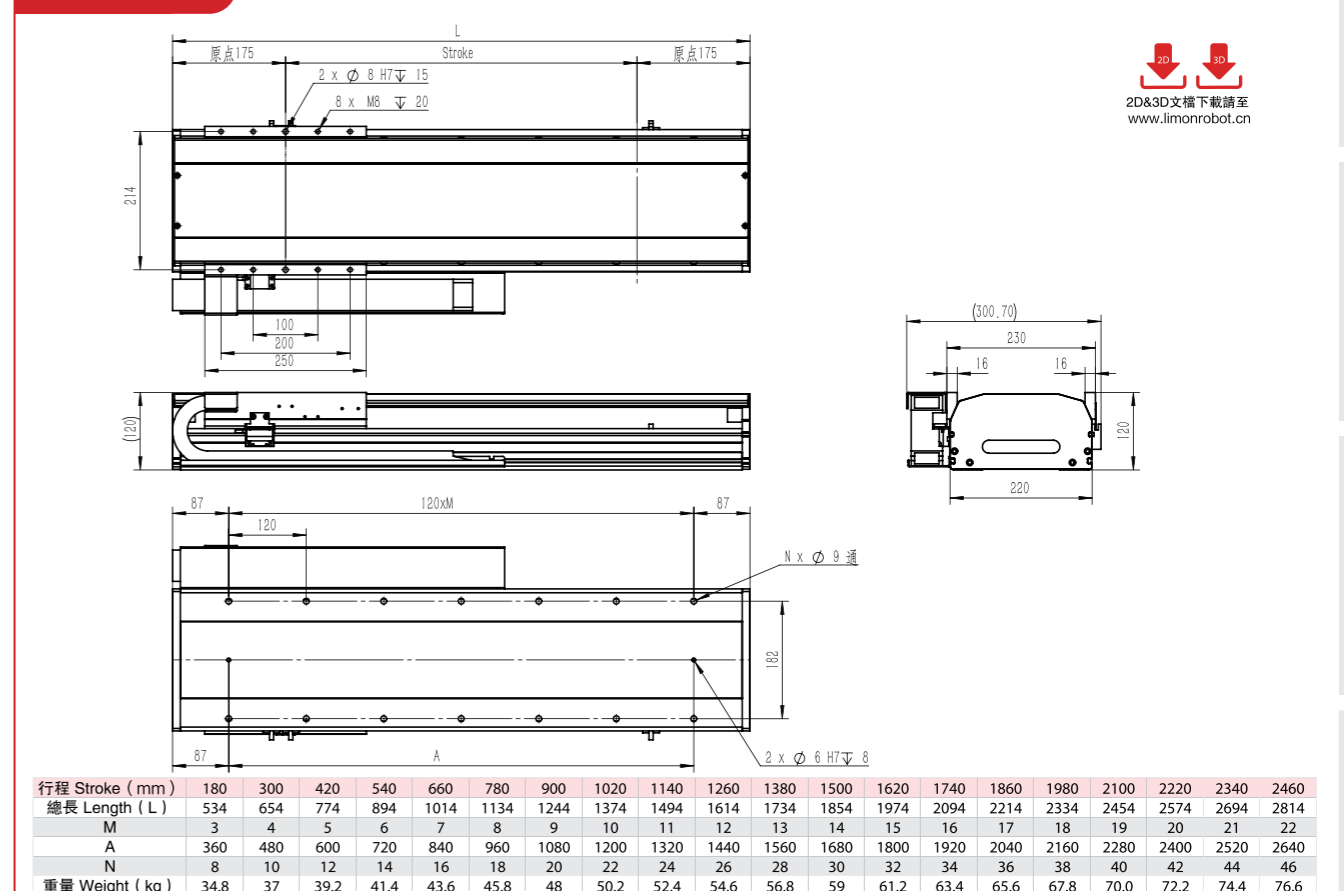
- 注#1:
1. 最高速度隨最小分辨率而變化。
 2. 動作速度、加速度等規格受負載的限制。
 3. 加速度為2G動作時的負載，所到達速度，受推力和速度特性的限制。
 4. 反復運動0背隙。

- 注#2:
1. The max speed depends on the minimum resolution.
 2. Movement speed and accelerated speed are restricted by the load.
 3. The load that when the accelerated speed is 2G, and then speed reached is restricted by the thrust and its speed characteristics.
 4. Repetitive movement with zero back clearance.

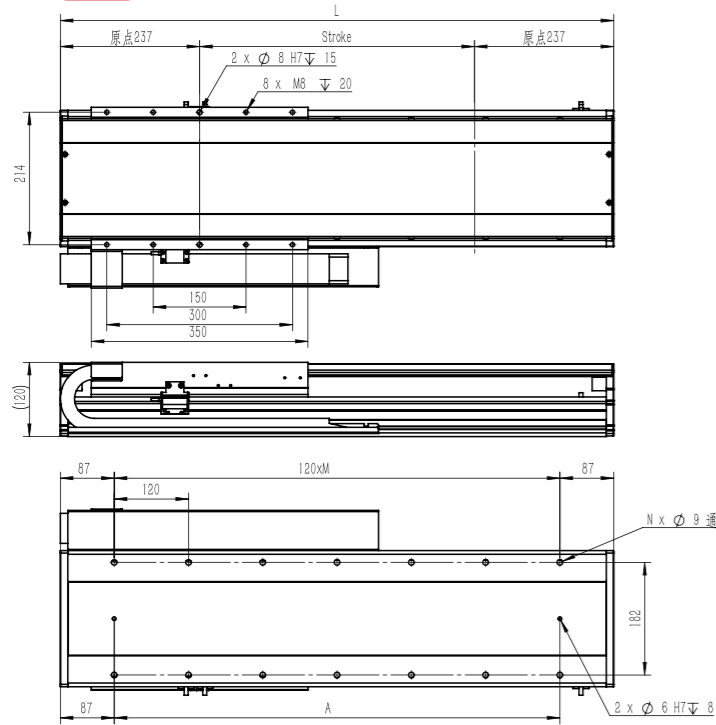
ZLO 22-C1



ZLO 22-C2



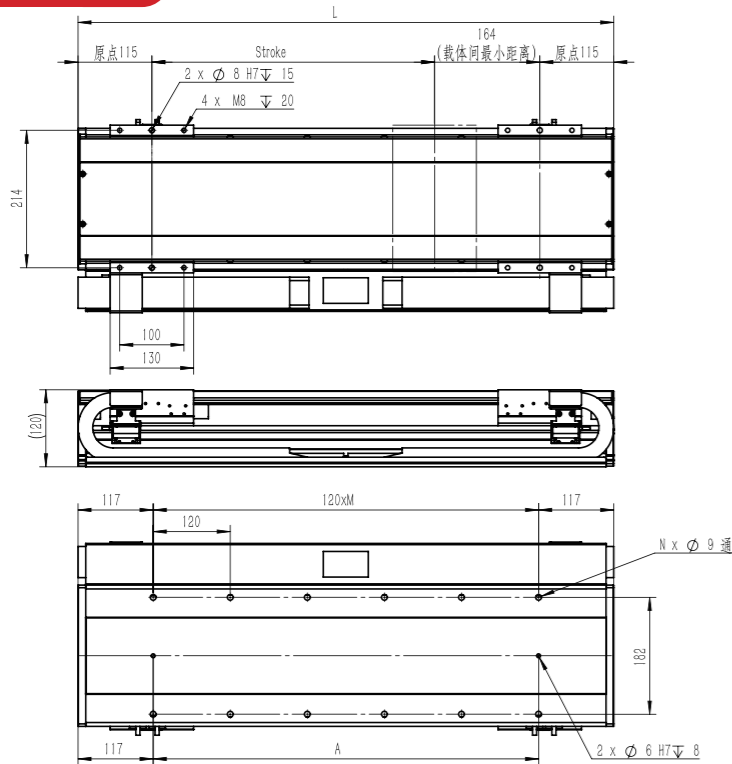
ZLO 22-C3



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行程 Stroke (mm)	180	300	420	540	660	780	900	1020	1140	1260	1380	1500	1620	1740	1860	1980	2100	2220	2340	2460
總長 Length (L)	654	774	894	1014	1134	1254	1374	1494	1614	1734	1854	1974	2094	2214	2334	2454	2574	2694	2814	2934
M	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
重量 Weight (kg)	42.3	44.5	46.7	48.9	51.1	53.3	55.5	57.7	59.9	62.1	64.3	66.5	68.7	70.9	73.1	75.3	77.5	79.7	81.9	84.1

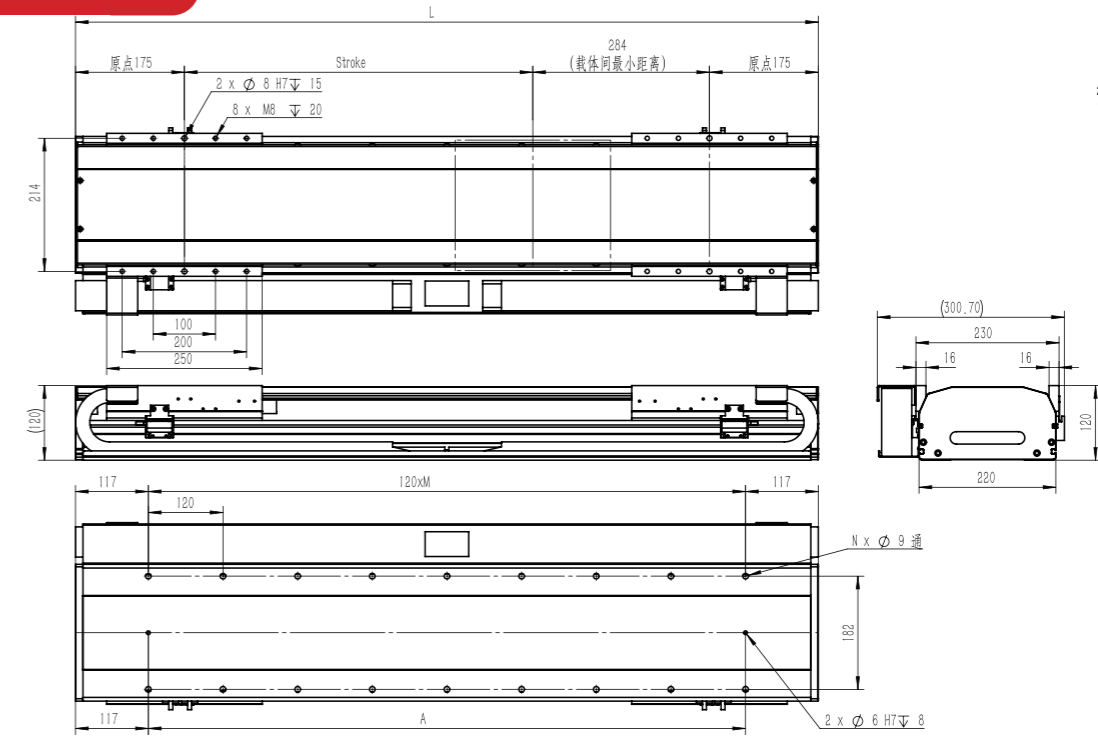
ZLO 22D-C1



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行程 Stroke (mm)	200	320	440	560	680	800	920	1040	1160	1280	1400	1520	1640	1760	1880	2000	2120	2240	2360	2480
總長 Length (L)	594	714	834	954	1074	1194	1314	1434	1554	1674	1794	1914	2034	2154	2274	2394	2514	2634	2754	2874
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
重量 Weight (kg)	36.3	38.5	40.7	42.9	45.1	47.3	49.5	51.7	53.9	56.1	58.3	60.5	62.7	64.9	67.1	69.3	71.5	73.7	75.9	78.1

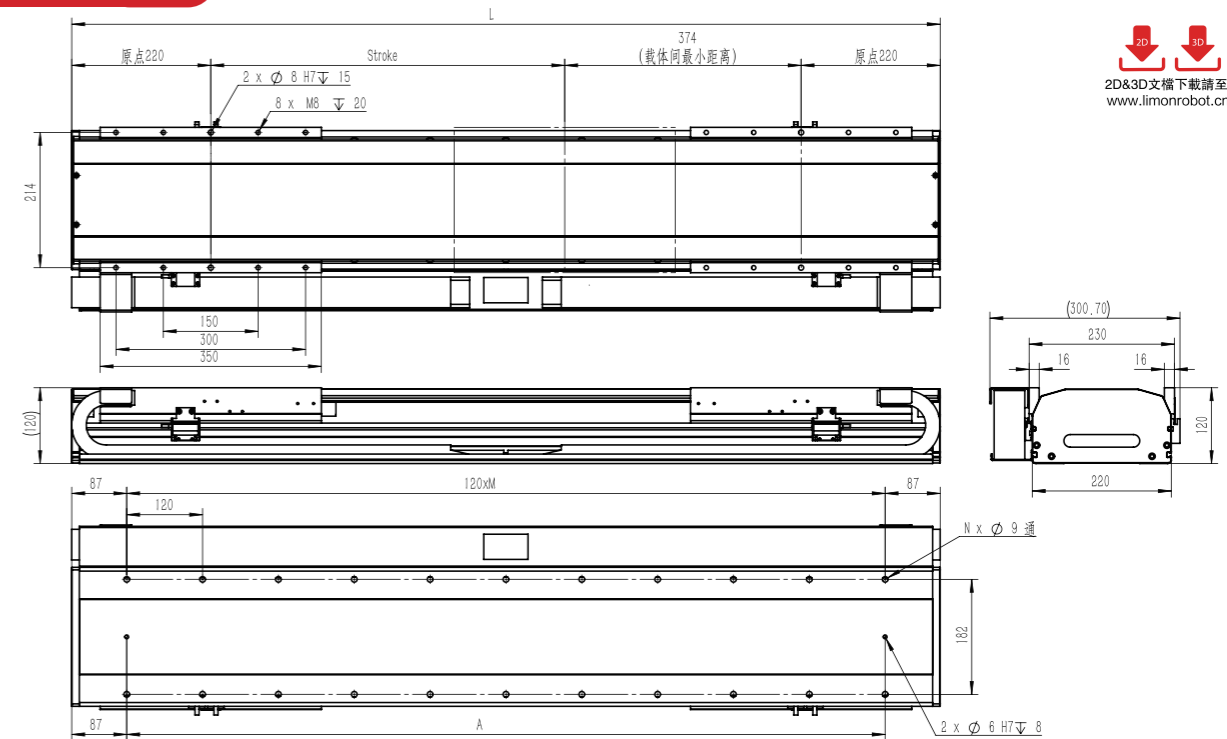
ZLO 22D-C2



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行程 Stroke (mm)	200	320	440	560	680	800	920	1040	1160	1280	1400	1520	1640	1760	1880	2000	2120	2240	2360	2480
總長 Length (L)	834	954	1074	1194	1314	1434	1554	1674	1794	1914	2034	2154	2274	2394	2514	2634	2754	2874	2994	3114
M	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760	2880
N	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
100.4重量 Weight (kg)	43.6	45.8	48	50.2	52.4	54.6	56.8	59	61.2	63.4	65.6	67.8	70.0	72.2	74.4	76.6	78.8	81.0	83.2	85.4

ZLO 22D-C3



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行程 Stroke (mm)	200	320	440	560	680	800	920	1040	1160	1280	1400	1520	1640	1760	1880	2000	2120	2240	2360	2480
總長 Length (L)	1014	1134	1254	1374	1494	1614	1734	1854	1974	2094	2214	2334	2454	2574	2694	2814	2934	3054	3174	3294
M	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
A	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760	2880	3000	3120
N	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
重量 Weight (kg)	58.6	60.8	63	65.2	67.4	69.6	71.8	74	76.2	78.4	80.6	82.8	85	87.2	89.4	91.6	93.8	96	98.2	100.4