TSG20

螺桿驅動
Ball Screw Drive



最大行程 Maximum Stroke	最高速度 Maximum Speed	馬達尺寸 Motor Dimension	滾珠螺桿 Ball Screw
75mm	166.6mm/s	20□/25□/28□mm	Ø6mm

型號表示方式 Ordering Method

TSG20 - L2 - 50 - BCB - 20M400 - MR - A0001

本體型號 Model

特注式樣 Customization Order No.

導程 Lead

L2	2mm
L4	4mm

有效行程 Stroke

30	30mm
50	50mm
75	75mm

馬達位置 Motor Position

BC	馬達直結 Motor Hidden In
BR	馬達右折 Motor Right Side
BL	馬達左折 Motor Left Side

是否煞車 Brake (Optional)

*若無煞車則不表示。
*If No Brake,No Description.

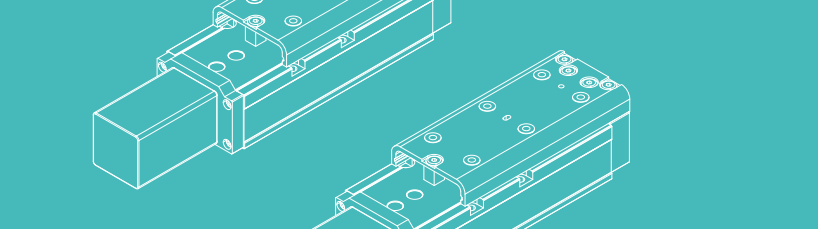
馬達型號 Motor Type

20M400	20□軸心Ø4
25M500	25□軸心Ø5
25M50020	25□軸心Ø5+孔距20
28M500	28□軸心Ø5

接頭型式 Connector Type

MR	接頭出線朝右 Connector outlet Right Side
ML	接頭出線朝左 Connector outlet Left Side
MW	接頭出線朝上 Connector outlet Up Side
MM	接頭出線朝下 Connector outlet Down Side

*馬達方向BR規格無MR出線方向
馬達方向BL規格無ML出線方向
Motor position BR has no MR cable outlet direction.
Motor position BL has no ML cable outlet direction.



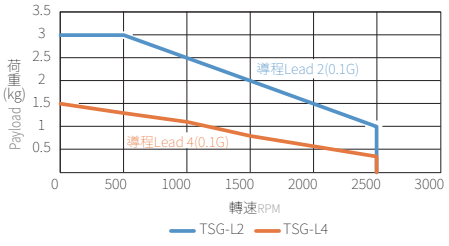
基本仕樣 Specification

性能	位置重複精度 Repeatability		mm	±0.01	
	螺桿導程 Lead		mm	2	4
	最大加速度 Maximum acceleration		G	0.1	0.1
	最高速度 Maximum linear speed ※1	水平使用 Horizontal	mm/s	83.3	166.6
		垂直使用 Vertical	mm/s	83.3	166.6
	最大可搬重量 Maximum Payload	水平使用 Horizontal	kg	3	1.5
		垂直使用 Vertical	kg	2.5	1
	定格推力 Rated Thrust		N	30	16
	標準行程 Stroke (increments)		mm	30/50/75	
部品	馬達尺寸 Motor Size (mm)		mm	20□/25□/28□	
	滾珠螺桿規格 Ball Screw Spec		mm	C10 Ø6	

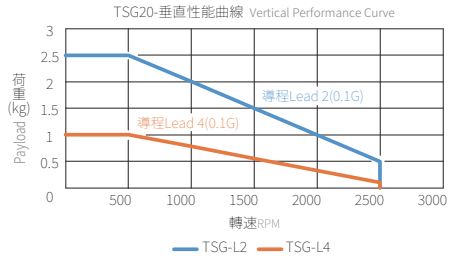
※1 最高速度及最大荷重無法同時存在，選用前請詳見速度 - 荷重曲線圖。
The maximum speed and maximum payload cannot exist at the same time. Please refer to diagram of Speed and payload curve before using.

速度 - 荷重曲線圖 Speed-Payload Curve Diagram

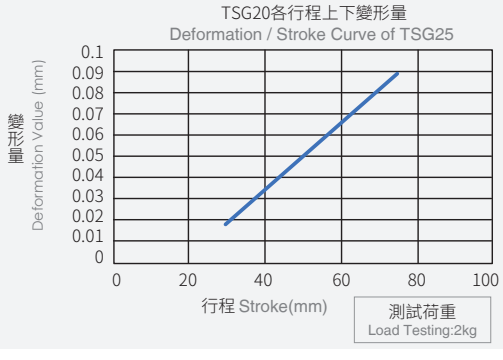
TSG20-水平性能曲線 Horizontal Performance Curve



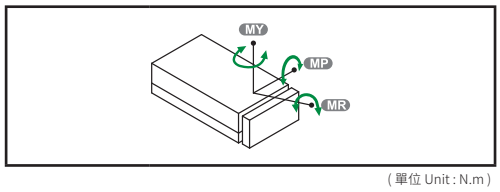
TSG20-垂直性能曲線 Vertical Performance Curve



變形量曲線圖 Deformation / Stroke Curve



靜額定扭矩 Static Loading Moment

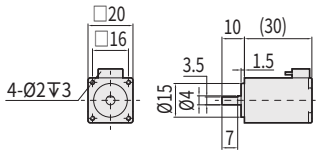
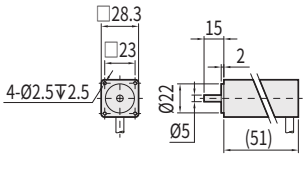
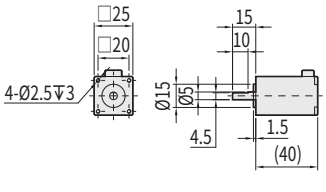
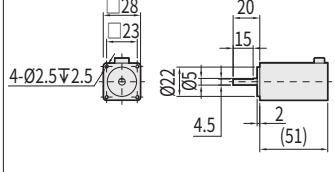


(單位 Unit : N.m)

MY	25.3
MP	25.3
MR	66.7

* 符合型錄規範的正常使用下，保證壽命為 5000 萬次。
Operation life is 50 million times back and forth when products are used under the specified conditions.

對應馬達圖面 Corresponding motor dimension

20M400	25M500	25M50020	28M500
			

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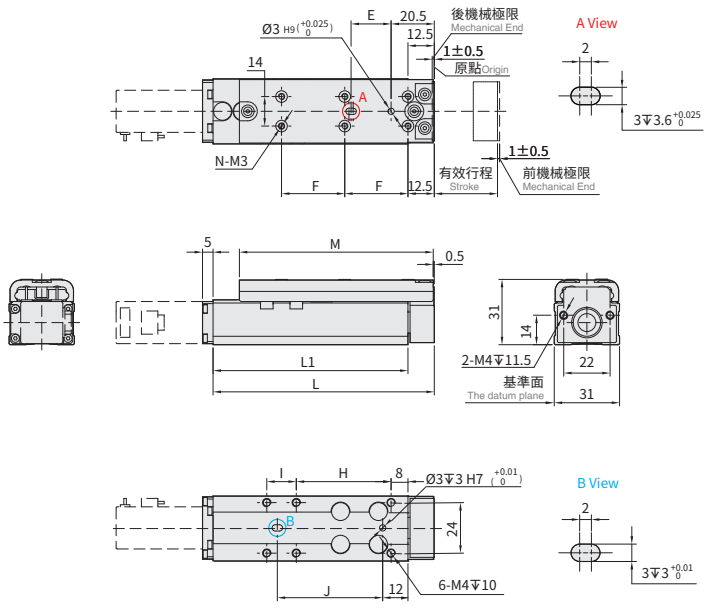
螺桿驅動
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BC 馬達直結 Motor Hidden In (No Brake)

20M400

單位 Unit : mm



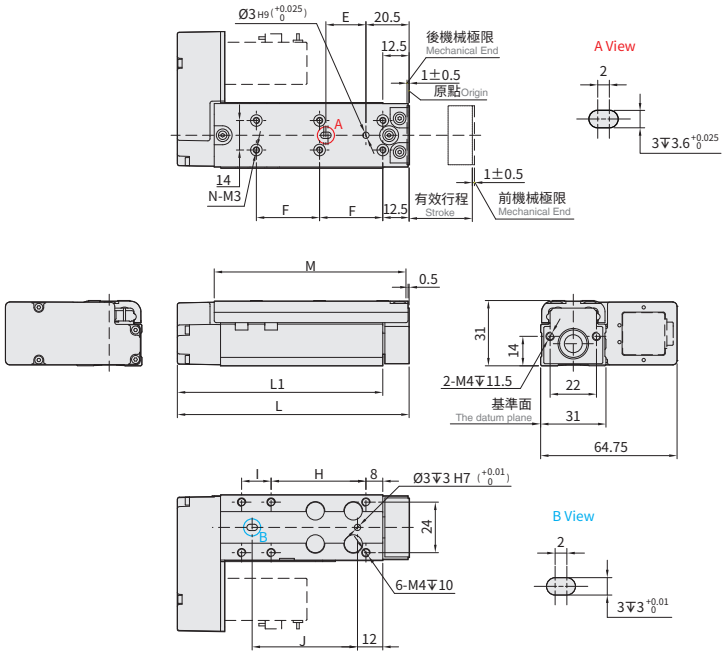
有效行程 Stroke	L	L1	E	F	N	H	J	I	M	重量 Weight(g)*
30	105	92.5	19	30	6	45	14	50	92	277
50	125	112.5	30	40	6	45	34	60	112	332
75	150	137.5	41.5	52.5	6	52	52	85	137	412

* 重量不包含馬達。Weight of model without motor.

BR 馬達右折 Motor Right Side (No Brake)

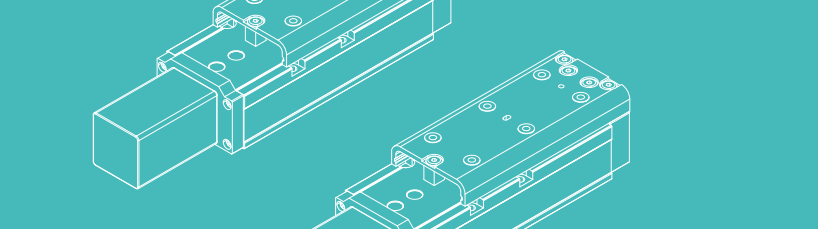
20M400

單位 Unit : mm



有效行程 Stroke	L	L1	E	F	N	H	J	I	M	重量 Weight(g)*
30	110	97.5	19	30	6	45	14	50	92	309
50	130	117.5	30	40	6	45	34	60	112	364
75	155	142.5	41.5	52.5	6	52	52	85	137	448

* 重量不包含馬達。Weight of model without motor.

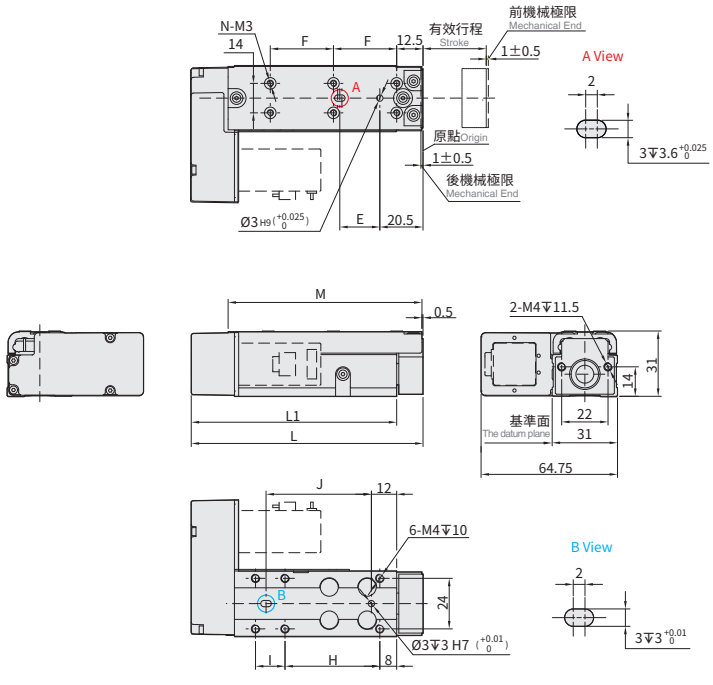


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BL 馬達左折 Motor Left Side (No Brake)

20M400

單位 Unit : mm



有效行程 Stroke	L	L1	E	F	N	H	J	I	M	重量 Weight(g)*
30	110	97.5	19	30	6	45	14	50	92	309
50	130	117.5	30	40	6	45	34	60	112	364
75	155	142.5	41.5	52.5	6	52	52	85	137	448

* 重量不包含馬達。Weight of model without motor.

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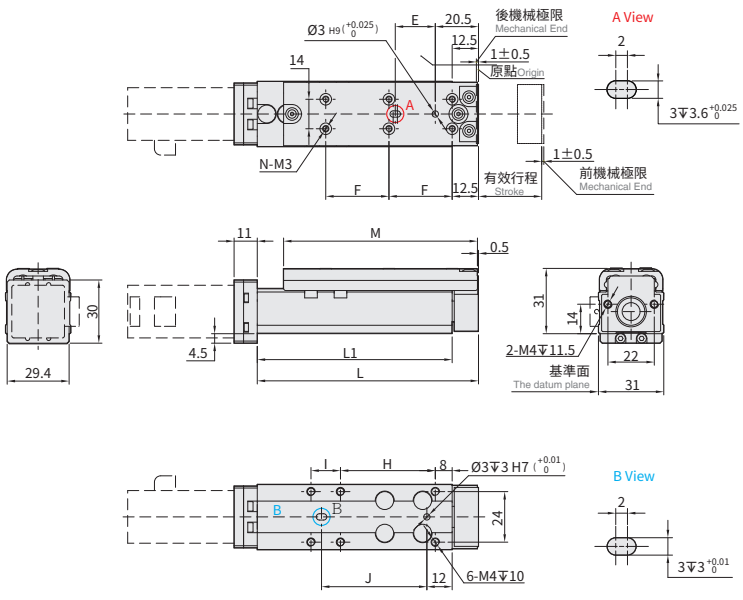
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BC 馬達直結 Motor Hidden In (No Brake)

25M50020

單位 Unit : mm



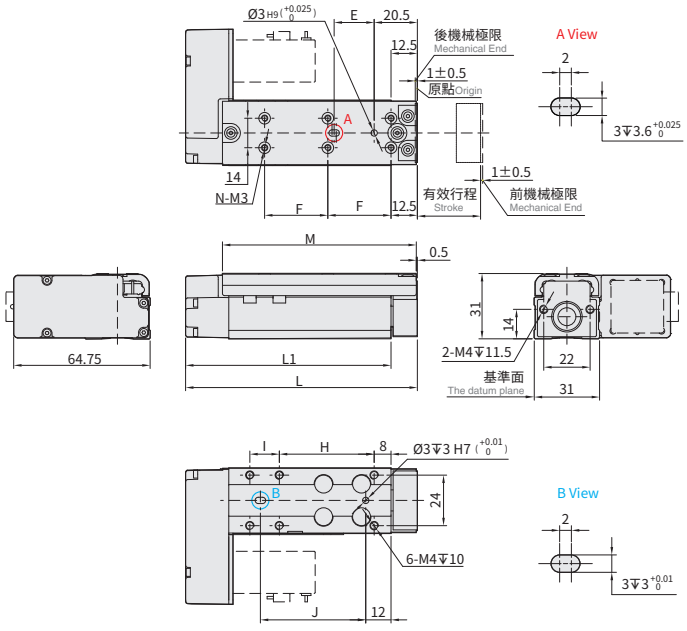
有效行程 Stroke	L	L1	E	F	N	H	I	J	M	重量 Weight(g)*
30	105	92.5	19	30	6	45	14	50	92	293
50	125	112.5	30	40	6	45	34	60	112	348
75	150	137.5	41.5	52.5	6	52	52	85	137	432

* 重量不包含馬達。Weight of model without motor.

BR 馬達右折 Motor Right Side (No Brake)

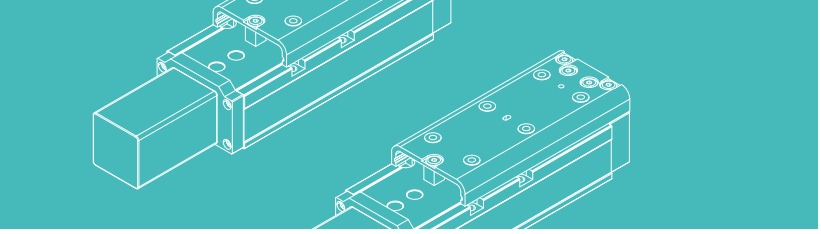
25M50020

單位 Unit : mm



有效行程 Stroke	L	L1	E	F	N	H	I	J	M	重量 Weight(g)*
30	110	97.5	19	30	6	45	14	50	92	303
50	130	117.5	30	40	6	45	34	60	112	358
75	155	142.5	41.5	52.5	6	52	52	85	137	442

* 重量不包含馬達。Weight of model without motor.

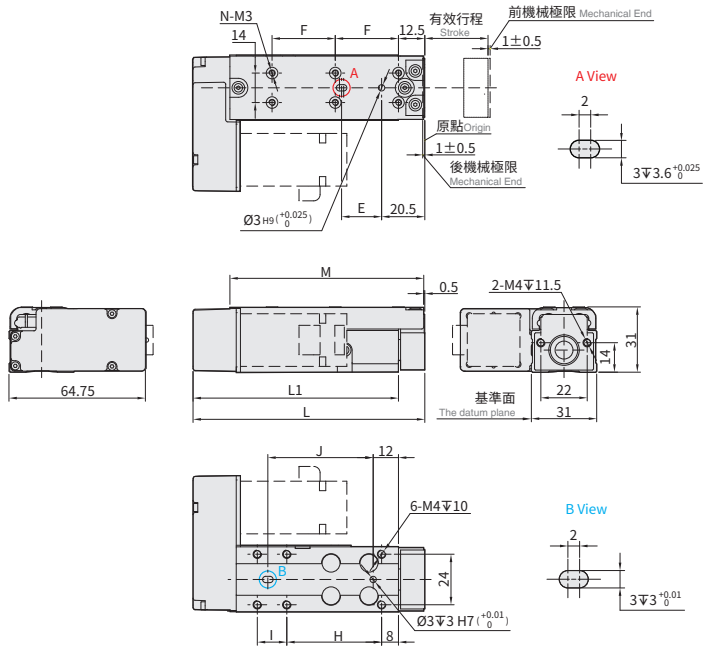


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BL 馬達左折 Motor Left Side (No Brake)

25M50020

單位 Unit : mm



有效行程 Stroke	L	L1	E	F	N	H	I	J	M	重量 Weight(g)*
30	110	97.5	19	30	6	45	14	50	92	303
50	130	117.5	30	40	6	45	34	60	112	358
75	155	142.5	41.5	52.5	6	52	52	85	137	442

* 重量不包含馬達。Weight of model without motor.

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TSG20

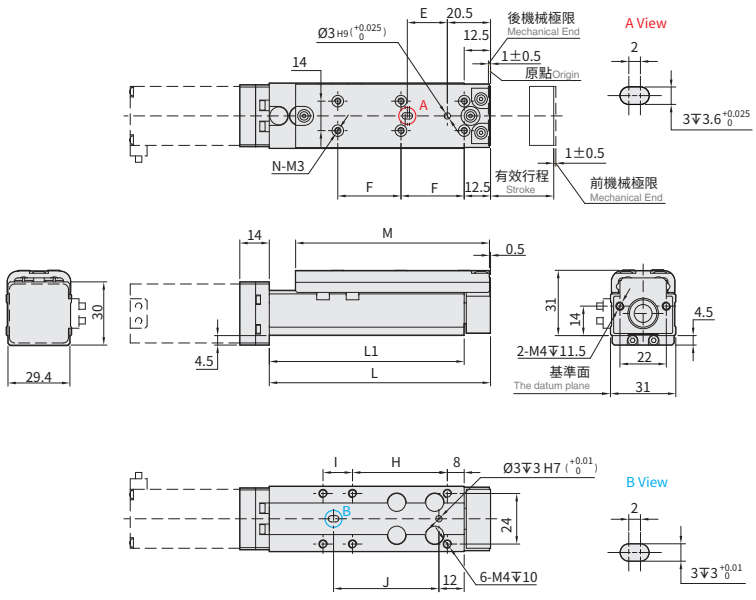
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BC 馬達直結 Motor Hidden In (No Brake)

25M500/28M500

單位 Unit : mm



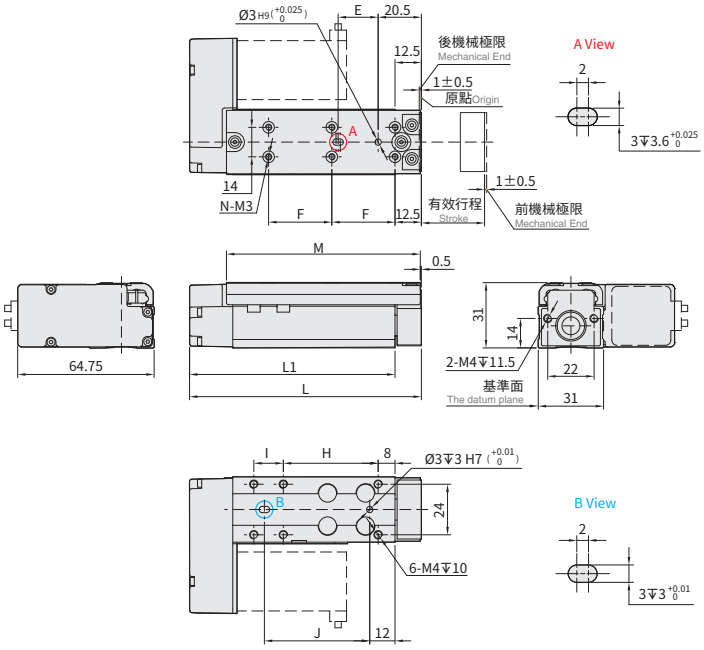
有效行程 Stroke	L	L1	E	F	N	H	I	J	M	重量 Weight(g)*
30	105	92.5	19	30	6	45	14	50	92	296
50	125	112.5	30	40	6	45	34	60	112	351
75	150	137.5	41.5	52.5	6	52	52	85	137	435

* 重量不包含馬達。Weight of model without motor.

BR 馬達右折 Motor Right Side (No Brake)

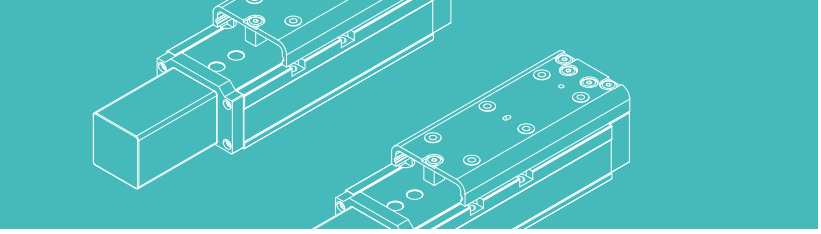
25M500/28M500

單位 Unit : mm



有效行程 Stroke	L	L1	E	F	N	H	I	J	M	重量 Weight(g)*
30	110	97.5	19	30	6	45	14	50	92	303
50	130	117.5	30	40	6	45	34	60	112	358
75	155	142.5	41.5	52.5	6	52	52	85	137	442

* 重量不包含馬達。Weight of model without motor.

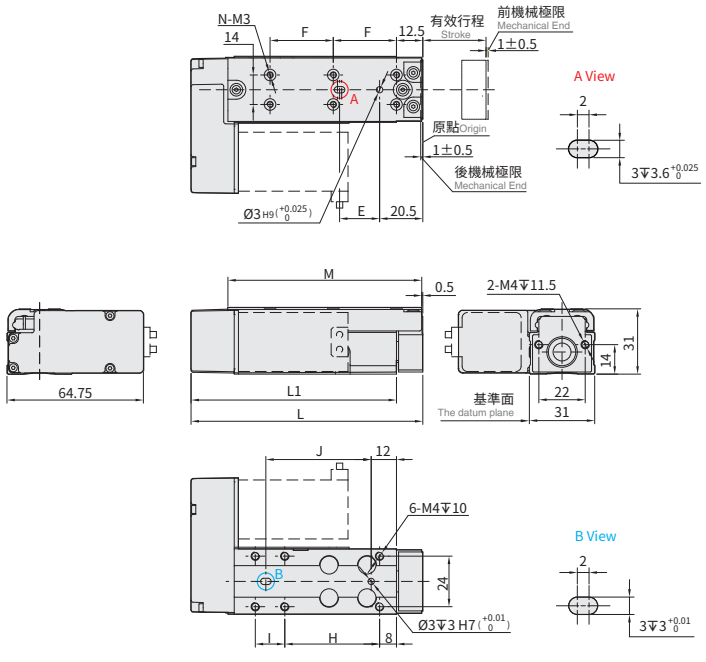


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BL 馬達左折 Motor Left Side (No Brake)

25M500/28M500

單位 Unit : mm



有效行程 Stroke	L	L1	E	F	N	H	I	J	M	重量 Weight(g)*
30	110	97.5	19	30	6	45	14	50	92	303
50	130	117.5	30	40	6	45	34	60	112	358
75	155	142.5	41.5	52.5	6	52	52	85	137	442

* 重量不包含馬達。Weight of model without motor.

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