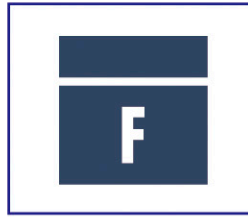


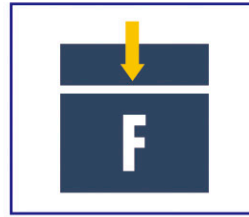
尺寸
Size
20 ~ 32



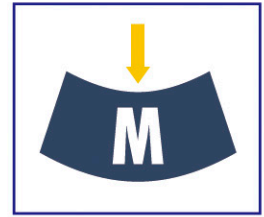
重量
Weight
0.16 ~ 0.51 KG



有效行程
Effective stroke
20 ~ 200 MM



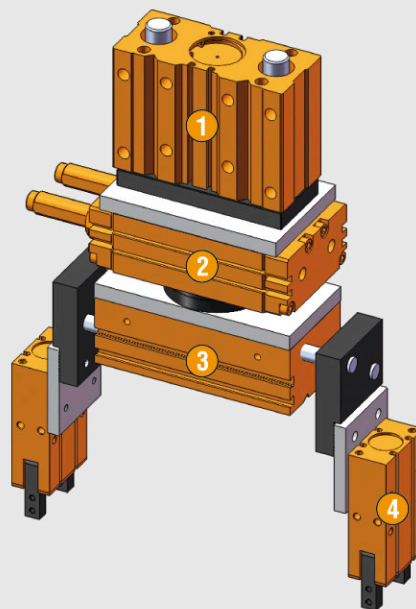
活塞力
Pistons force
200 ~ 600 N



旋轉扭矩
Rotational torque
1.19 ~ 3.24 Nm



- 1 MGB 迷你雙導桿氣缸模組
MGB mini dual guide rod cylinder module.
- 2 SRB 通用型旋轉氣缸模組
SRB Universal rotating cylinder module.
- 3 LGX 長行程小型二指平動機械夾爪
LGX Long stroke 2-jaw parallel gripper
- 4 LGY 小原件180度張角式機械夾爪
LGY Angular gripper



應用領域

- 自動化機構組成原件，提供了自動化更多的應用方式。
- 適用於機台製作或工廠生產、組裝及自動化產業的乾淨環境。

你的優勢

- 雙導桿設計：使行程內移動更加穩固，能產生更多的力量。
- 配置四個溝槽，安裝埋入式行動檢出感應器。
- 空氣供給，確保在各式自動化系統中皆可彈性供給壓縮空氣。

Applications

- Automated mechanism composed the components, provides more automated application solutions.
- Suitable for clean environment of machine production or factory production, assemble and automation industry.

Your advantage

- Dual guide rod design: more stable movement in stroke, generates more force.
- Configuring four trenches, install embedded action detection sensors.
- Air supply, ensure that compressed air is supplied in all automated systems.

MGB系列簡介

- 工作原理：雙導桿設計
- 外殼材質：鋁合金，超硬陽極處理
- 導桿材質：鋼
- 驅動方式：氣動：濾清壓縮空氣 (10mm) - 乾式、潤滑或非潤滑壓力介質：需求壓縮空氣品質等級 DIN ISO 8573-1
- 保固：12個月

MGB Series Introduction

- How it works: Dual guide rod design.
- Shell material: Aluminum alloy, hard anodized.
- Guide rod material: Steel
- Drive: Pneumatic-filtration of compressed air _ (10mm) _ - dry, lubricated or non-lubricated pressure medium: demand for compressed air quality level DIN ISO 8573-1
- Warranty: 12 months.

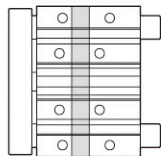




標準行程表 Standard stroke

型號 Model	軸承種類 Bearing Type	內徑 Inside diameter	10	20	25	30	40	50	75	100	125	150	175	200
MGB	線性滾珠 軸承 Linear ball type bearing	ø20		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
		ø25		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
		ø32												

重量表 Weight

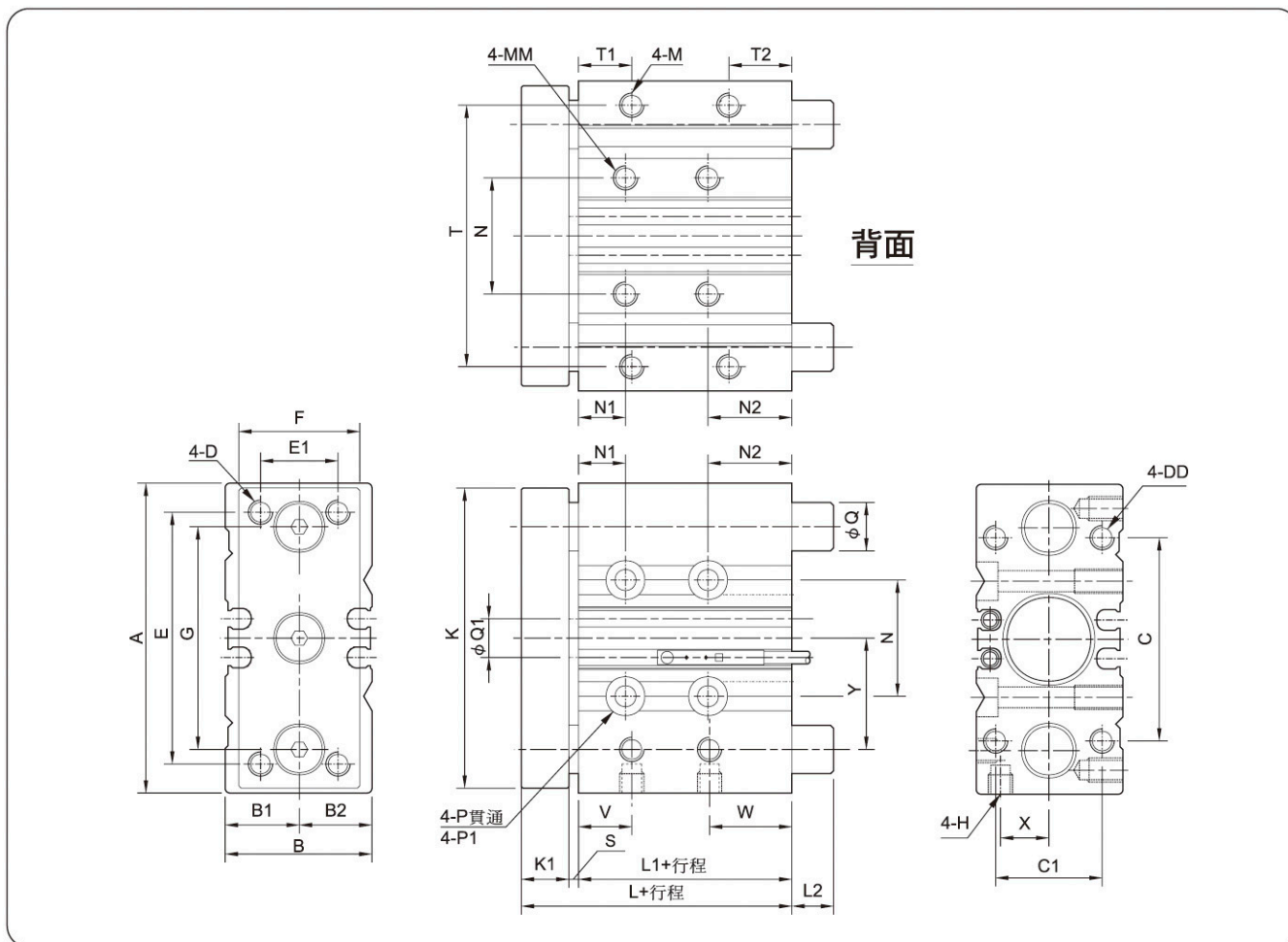


內徑 Inside diameter	每5mm Every 5mm MCGB-23
ø20	45 g
ø25	60 g
ø32	80 g

技術資料 Technical data

型號 Model	MGB
模組外形 Module Shape	
作動方式 How it works	複動型 Double Action
氣缸內徑 Bores	25, 32, 40
配管口徑尺寸 Port size	PT 1/8
使用流體 Fluid	空氣 Air
使用壓力範圍 Operating pressure range	1 ~ 9.9 kgf/cm ²
耐壓力 Resistant to pressure	15 kgf/cm ²
周圍溫度 Ambient temperature	-5° ~ 60°C (不凍結 No freeze)
給油 Oil	不需給油 No oil
緩衝裝置 Buffer device	NBR緩衝墊片 NBR Cushioning pads
感應開關 Sensor switch	MMS-40, MMS-40-SA

外觀尺寸圖 Dimensions



MGB TYPE

尺寸對照表 Size chart

代號 內徑	A	B	B1	B2	C	C1	D	DD	E	E1	F	G	H	K	K1	L	L1	L2
20	85	36	17	19	52	26	M5 x 0.8	M5 x 0.8 x 13深	60	18	30	55	PT 1/8	72	10	47	35	
25	96	42	21	21	62	32	M6 x 1.0	M6 x 1.0 x 15深	70	26	38	65	PT 1/8	86	10	47.5	35.5	※
32	116	51	26	25	80	38	M8 x 1.25	M8 x 1.25 x 18深	96	30	48	80	PT 1/8	112	12	47.5	35.5	

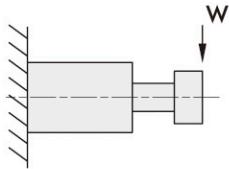
代號 內徑	M	MM	N	N1	N2	P	P1	Q	Q1	S	T	T1	T2	V	W	X	Y
20	M5 x 0.8 x 7深	M6 x 1.0 x 12深	28	19	16	ø5.3	ø9.5 x 5.5深	10	10	2	64	11	14	12	23	11.5	24.5
25	M6 x 1.0 x 9深	M6 x 1.0 x 12深	34	22	12.5	ø5.3	ø9.5 x 5.5深	13	12	2	76	12	13.5	11	23.5	13.5	24
32	M8 x 1.25 x 11深	M8 x 1.25 x 16深	42	22	14.5	ø6.6	ø11 x 6.5深	16	16	2	100	12	16.5	11.5	25	16	31

活塞內徑尺寸對照表 Piston inner diameter size table

內徑	行程(mm)											
	10	20	25	30	40	50	75	100	125	150	175	200
20		0		0	27	27	27	27	50	50	50	50
25		2		2	35	35	35	35	50	50	50	50
32			8	8	8	8	42	42	55	55	55	55

橫荷重表 Transverse load table

容許橫荷重表
Allowable transverse load



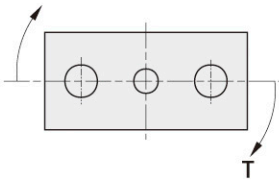
■ 考慮驅動氣缸過程時，於導桿端部所能承受，因動態所產生的最大荷重(指垂直於導桿軸心線的荷重)。

■ Consider the process to drive cylinder, the end of guide rod can withstand a maximum load generated by dynamic (ie perpendicular to the axis of the guide rod load).

(N)

氣缸內徑 Bores	軸承種類 Bearing type	行程 Stroke(mm)											
		10	20	25	30	40	50	75	100	125	150	175	200
ø20	線性滾珠軸承 Linear ball type bearing	/	43	/	36	98	87	69	57	46	40	36	32
ø25	線性滾珠軸承 Linear ball type bearing	/	67	/	56	148	132	105	87	70	62	55	50
ø32	線性滾珠軸承 Linear ball type bearing	/	/	104	/	/	74	165	138	114	100	90	81

容許旋轉扭矩
Allowable rotational torque



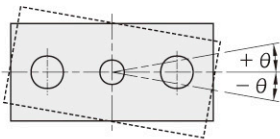
■ 考慮驅動氣缸過程時，於導桿端部所能承受，因動態所產生的最大扭矩。

■ When considering the process to drive cylinder, the end of guide rod can withstand a maximum torque generated by the dynamic.

(N.m)

氣缸內徑 Bores	軸承種類 Bearing type	行程 Stroke(mm)											
		10	20	25	30	40	50	75	100	125	150	175	200
ø20	線性滾珠軸承 Linear ball type bearing	/	1.19	/	0.99	2.69	2.4	1.89	1.56	1.26	1.1	0.98	0.88
ø25	線性滾珠軸承 Linear ball type bearing	/	2.14	/	1.79	4.74	4.22	3.36	2.78	2.25	1.98	1.76	1.59
ø32	線性滾珠軸承 Linear ball type bearing	/	/	4.17	/	/	2.95	6.6	5.52	4.56	4.02	3.59	3.24

不迴轉精度
(抵抗偏擺的能力)
Non-rotating accuracy
(resistance to deflection)



■ 此精度值 θ 是以活塞桿為中心的偏擺角度作表示。

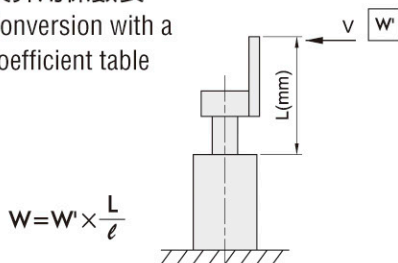
■ 此精度值 θ 忽略之導桿本身的撓度情況。

■ The longitude value θ is the center of the piston rod as said yaw angle.

■ The longitude values θ ignore guide rod's deflection situation.

氣缸內徑 Bores	軸承種類 Bearing type	不迴轉精度 Non-rotating accuracy θ
ø20	線性滾珠軸承 Linear ball type bearing	$\pm 0.03^\circ$
ø25	線性滾珠軸承 Linear ball type bearing	$\pm 0.05^\circ$
ø32	線性滾珠軸承 Linear ball type bearing	$\pm 0.03^\circ$

換算用係數表
Conversion with a
coefficient table



■ 對於在連結塊上，固定一檔板使時，請依據下式關係，將 W' 換算 W 當量值。

■ The link is on the block, fixed a tailgate, please follow the following formula converted W' into W value.

MGB 系列 Series	ø20	ø25	ø32
l	42	42	42

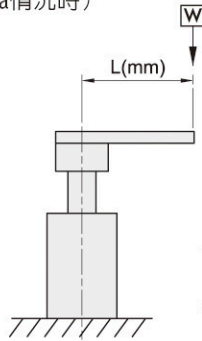
W : 換算的 W 當量值，仍須符合上述搬運物重量-速度關係圖。

W : When the value of the W conversion, still carrying the weight comply with the above - Speed Figure.

Mini Dual Guide Rod Cylinder Module.

舉起型使用之偏心荷重 Eccentric load of lifting type

作業起使用時的容許偏心荷重 (考慮作動氣壓0.5MPa情況時)
 Allowable eccentric load while operating

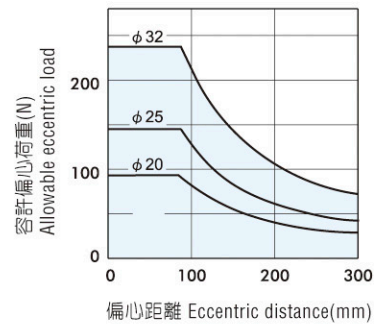
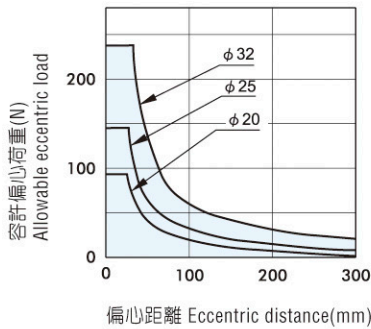


圖示W表氣缸作動時，距離導桿中心Lmm處，容許因動態所產生的荷重值。
 W Table is when cylinder actuator, the distance Lmm guide rod at the center, allowed weight values generated dynamically.

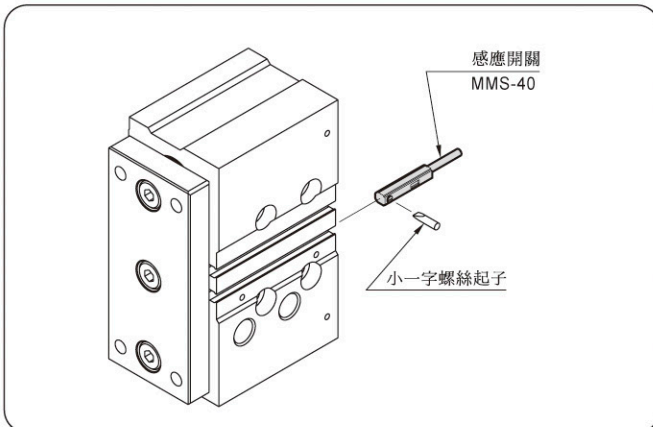
線性滾珠軸承型 Linear ball bearing type MGB

行程10 - 50者 Stroke 10 - 50

行程75 - 200者 Stroke 75 - 200



(接觸式)C型槽感應器系統 (Contact) C-slot sensor system



- 接觸式C型槽終端位置監控:夾爪磁簧感應器，安裝於夾爪C型槽內。
- 每個機械夾爪需要至少要2個感應器(接觸式)。
- Contact C-slot terminal position monitoring: Gripper magnetic field sensor, installed in the C-slot.
- Each mechanical gripper needs least two sensors (contact).

型號 Model	型式 Description	建議使用數量 Recom. number of use
MMS-40	直行設計 (兩線無接點) Straight design (two-line non-contact)	2

MGB TYPE