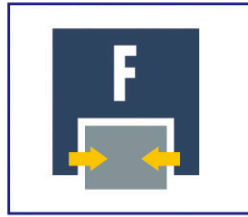


尺寸
Size
12 ~ 32



重量
Weight
53 ~ 525 g



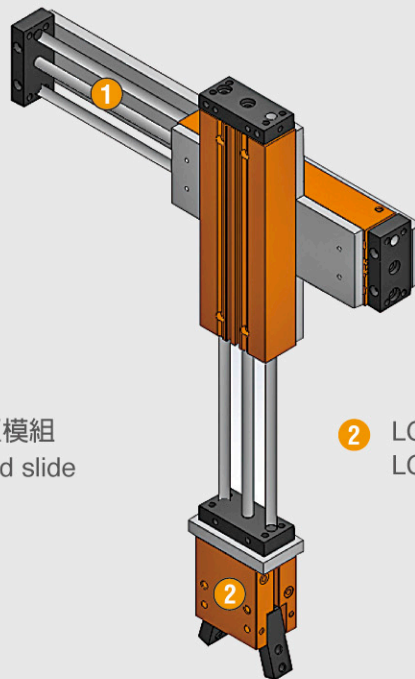
力矩
Moment
0.10 ~ 6.4 Nm



張開角度
Opening angle
30°



適用工件重量
Recom. workpiece weight
0.06 ~ 0.85 KG



① MGD 雙導桿滑台汽缸模組
MGD dual of guide rod slide
cylinder module.

② LGA 小原件30度張角式機械夾爪
LGA 30° small angular gripper

■ LGA系列 小原件30度張角式機械夾爪

通用二指張角式機械夾爪，槓桿設計，極具經濟效益。

■ LGA 30° small angular gripper

Universal 2-jaw angular gripper, lever design, cost effective.

應用領域

- 通用款，搭配各式配件即可適用於特殊機械手臂環境。
- 無數應用領域的理想標準方案，適用於自動化生產組裝及自動化產業的乾淨環境。

你的優勢

- 最省的成本效益。
- 小巧尺寸：確保工作中有最低的干涉外形。
- 壓縮空氣供給，直接連接空壓接頭，確保在各式自動化系統中皆可彈性供給壓縮空氣。
- 可搭配機械式外部SDV逆止閥，確保壓縮空氣斷氣後能繼續夾持。

LGA 系列簡介

- 工作原理：槓桿式運動學
- 外殼材質：鋁合金，超硬陽極處理
- 基爪材質：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 8573-1:644
- 保固：12個月
- 夾持力安全裝置：
搭配機械式夾持力安全裝置在機械夾爪內
或外部SDV逆止閥。

LGA Series Introduction

- How it works: Leveraged kinematics.
- Gripper material: Aluminum alloy, hard anodized.
- Jaw material: Steel
- Drive: Pneumatic-filtration of compressed air _ (10mm) _- dry, lubricated or non-lubricated pressure medium: demand for compressed air quality level DIN ISO 8573-1:644
- Warranty: 12 months.
- Gripping force safety device: with internal mechanical gripping safety device or mechanical external SDV pressure safety valve.

Applications

- Universal models, can be applied to special mechanical arm environment with all kinds of accessories.
- Ideal standard solution for numerous applications.
- Best for clean environment of machine production or factory production, assemble and automation industry.

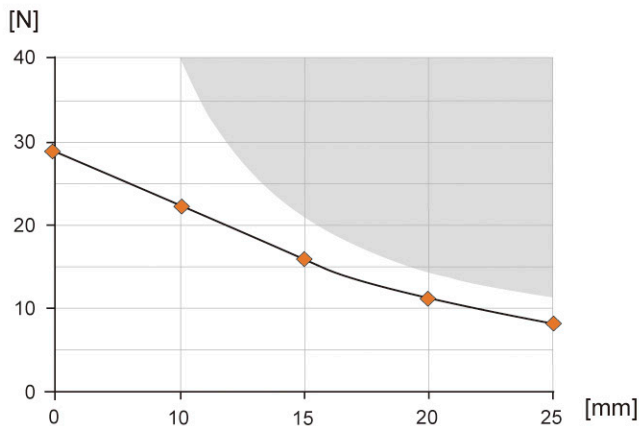
Your advantage

- Most cost-effective
- Small size: make sure minimum of interference.
- Compressed air supply, direct connected to pneumatic fittings, ensure all kinds of automation systems can have elasticity supply of compressed air.
- With mechanical external SDV pressure safety valve, guarantee continuous gripping when the compressed air is lost

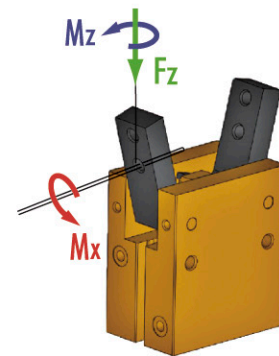




夾持力 Gripping force 夾持力與 夾爪 (finger) 長度對照表 Gripping force and jaw (finger) length chart



顏色區域：會增加夾爪磨損及撕裂機會
 Colored area: increased wear and tear to be expected



- Mx max. 0.28 Nm
- Mz max. 0.28 Nm
- Fz max. 12.0 N

技術資料 Technical data

型號 Model	LGA-12	
夾爪開張角度 Opening angle	°	30°
夾爪關閉角度 Closing angle	°	-10°
開啓扭力 Opening torque	Nm	0.10
關閉扭力 Closing torque	Nm	0.10
重量 Weight	g	53
建議工件重量 Recom. workpiece weight	kg	0.05
最高動作頻率 Maximum operating frequency	180 次 beats / 分鐘 minute	
最小/最大壓力 Min. / Max. pressure	bar	1.5 ~ 7
額定工作壓力 Nominal pressure	bar	6
關閉/開啓時間 Closing / Opening time	s	0.02
夾爪長度可允許 Max. finger length	mm	24
夾爪重量可允許 Max. finger weight	kg	0.05
IP 等級 IP rating	IP	40
最小/最大室溫 Minimum / Maximum temperature	°C	-5° ~ 60°C
重複精度 Repeatability	mm	0.03

Angular Gripper

外觀尺寸圖 Dimensions

A 孔：主連接孔，夾爪開啓。

B 孔：主連接孔，夾爪閉合。

① 機械手，連接介面。

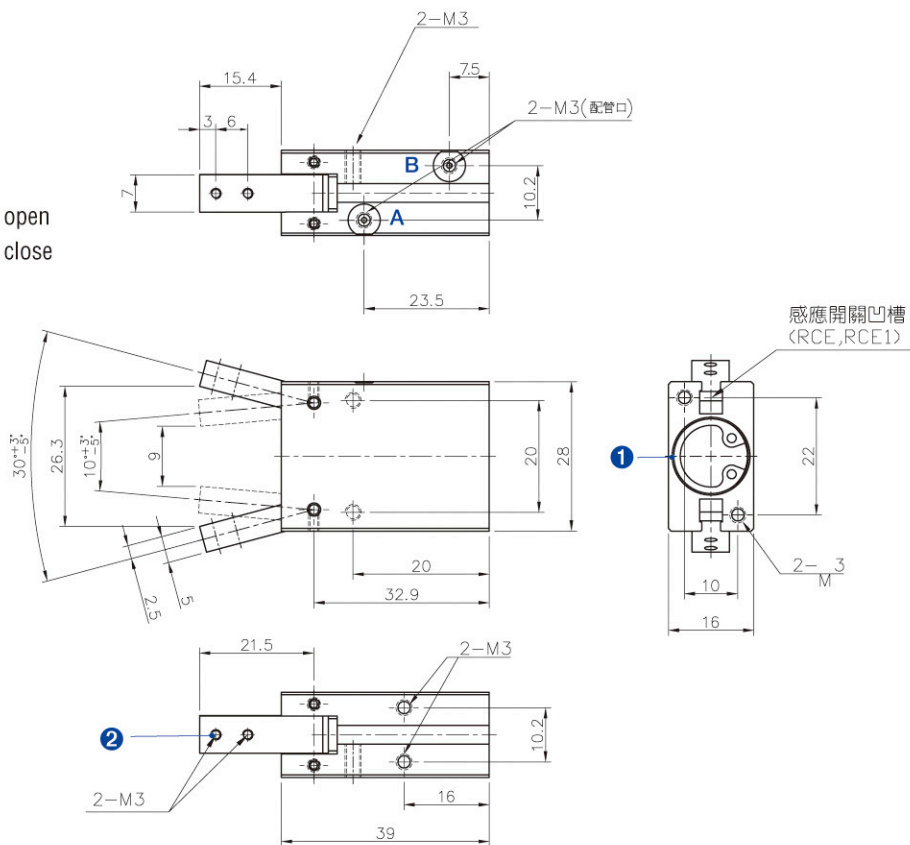
② 夾爪連接介面。

A Hole: main connection, gripper open

B Hole: main connection, gripper close

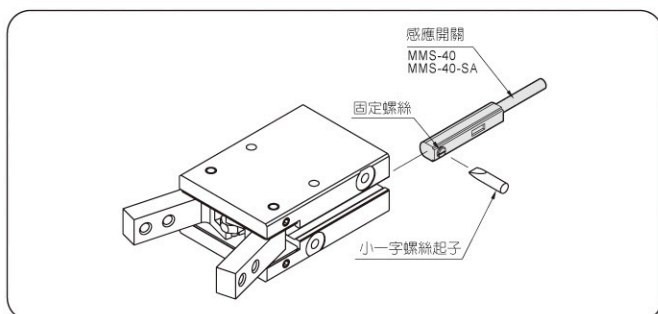
① Robot, connection interface

② Gripper connection interface



■ 上圖為閉爪時的基本款，不含選配物件尺寸。 ■ The picture shows the basic models when closing, excluding optional object size

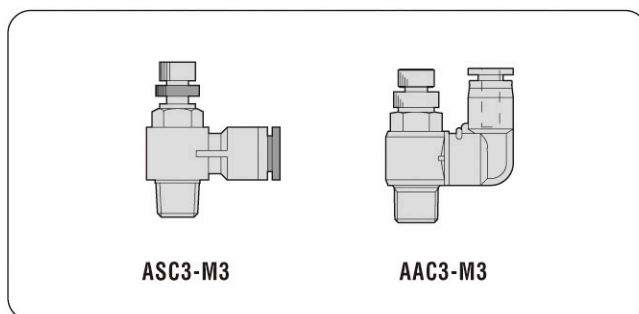
(接觸式)C型槽感應器系統 (Contact) C-slot sensor system



- 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 at 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
MMS-40-SA	90度設計 (兩線無接點) 90-degree design (two-line non-contact)	2

夾爪調速閥 Speed control valve

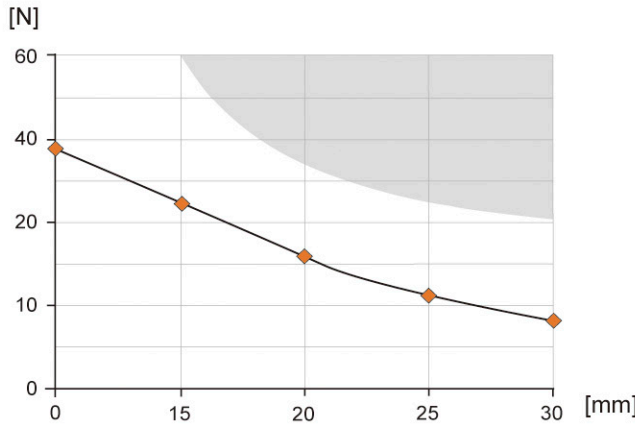


- 夾爪專用調速閥: 調整夾爪開張速度專用調速閥門。
- 每個機械夾爪需要至少2個調速閥。
- Speed control valve special for grippers: Special for adjusting the opening speed of gripper.
- Each mechanical gripper needs at least two speed control valves.

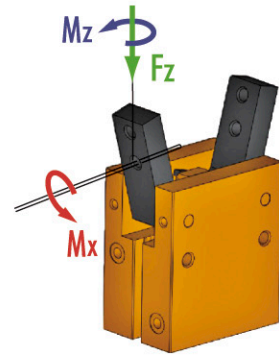
型號 Model	型式 Description	建議使用數量 Recom. number of use
ASC3-M3	90度設計 Ø3管徑 90 degrees design Ø3 diameter	2
AAC3-M3	直通設計 Ø3管徑 Through design Ø3 diameter	2



夾持力 Gripping force 夾持力與 夾爪 (finger) 長度對照表 Gripping force and jaw (finger) length chart



顏色區域：會增加夾爪磨損及撕裂機會
 Colored area: increased wear and tear to be expected



- Mx max. 0.40 Nm
- Mz max. 0.40 Nm
- Fz max. 17.0 N

技術資料 Technical data

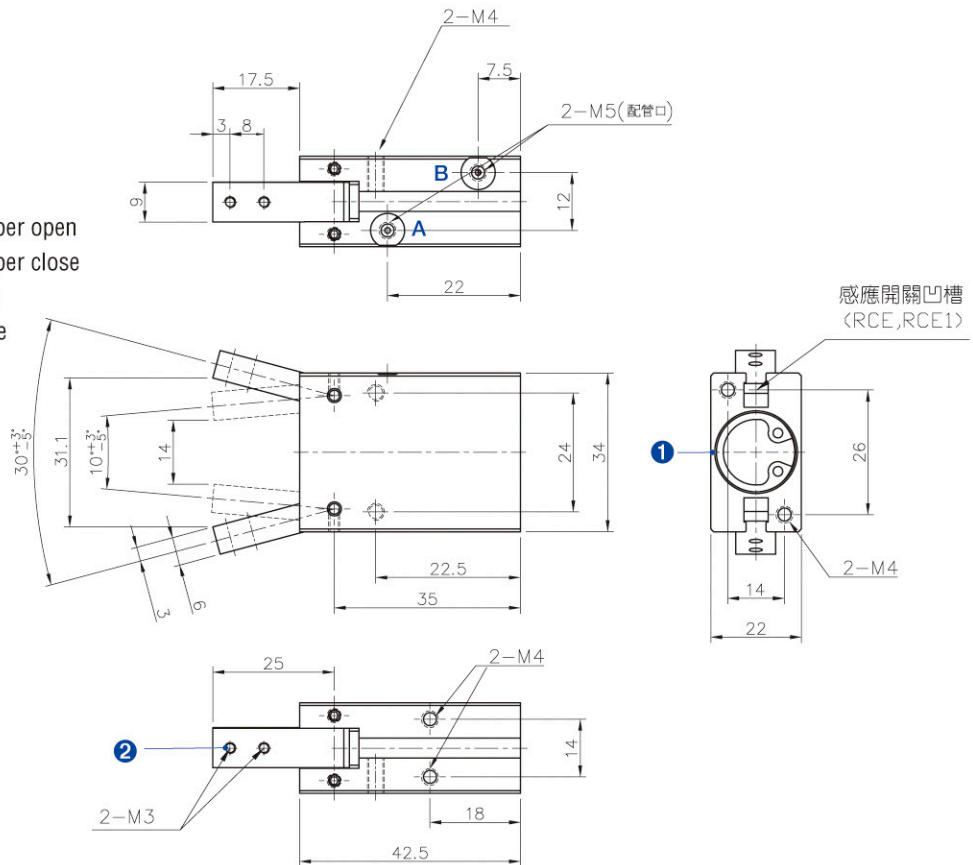
型號 Model	LGA-16	
夾爪開張角度 Opening angle	°	30°
夾爪關閉角度 Closing angle	°	-10°
開啓扭力 Opening torque	Nm	0.32
關閉扭力 Closing torque	Nm	0.31
重量 Weight	g	103
建議工件重量 Recom. workpiece weight	kg	0.06
最高動作頻率 Maximum operating frequency	180 次 beats / 分鐘 minute	
最小/最大壓力 Min. / Max. pressure	bar	1.5 ~ 7
額定工作壓力 Nominal pressure	bar	6
關閉/開啓時間 Closing / Opening time	s	0.02
夾爪長度可允許 Max. finger length	mm	32
夾爪重量可允許 Max. finger weight	kg	0.14
IP 等級 IP rating	IP	40
最小/最大室溫 Minimum / Maximum temperature	°C	-5° ~ 60°C
重複精度 Repeatability	mm	0.03

Angular Gripper

外觀尺寸圖 Dimensions

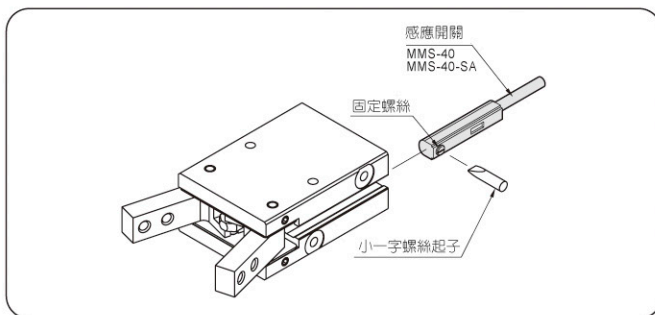
- A 孔**：主連接孔，夾爪開啓。
- B 孔**：主連接孔，夾爪閉合。
- ① 機械手，連接介面。
- ② 夾爪連接介面。

- A Hole**: main connection, gripper open
- B Hole**: main connection, gripper close
- ① Robot, connection interface
- ② Gripper connection interface



■ 上圖為閉爪時的基本款，不含選配物件尺寸。 ■ The picture shows the basic models when closing, excluding optional object size

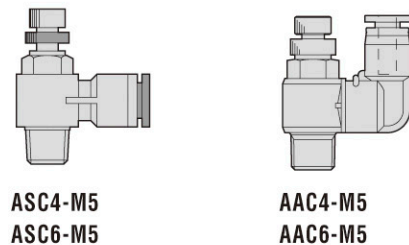
(接觸式)C型槽感應器系統 (Contact) C-slot sensor system



- 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 at 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
	90度設計(兩線無接點) 90-degree design (two-line non-contact)	2

夾爪調速閥 Speed control valve

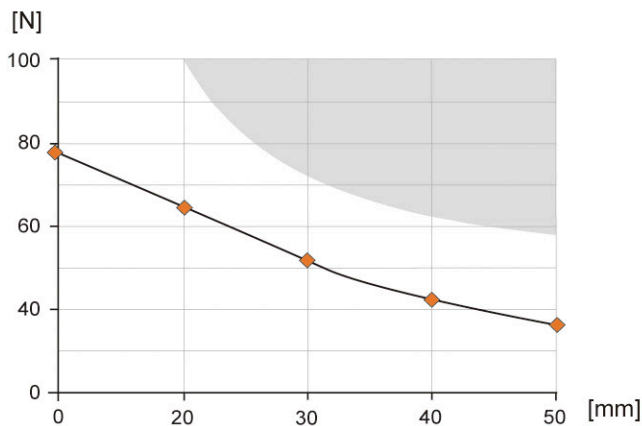


- 夾爪專用調速閥: 調整夾爪開張速度專用調速閥門。
- 每個機械夾爪需要至少要2個調速閥。
- Speed control valve special for grippers: Special for adjusting the opening speed of gripper.
- Each mechanical gripper needs at least two speed control valves.

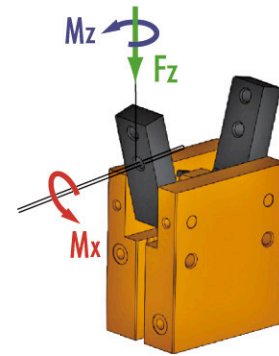
型號 Model	型式 Description	建議使用數量 Recom. number of use
ASC4-M5	90度設計 Ø4管徑 90 degrees design ø4 diameter	2
AAC6-M5	90度設計 Ø6管徑 90 degrees design ø6 diameter	2
ASC4-M5	直通設計 Ø4管徑 Through design ø4 diameter	2
AAC6-M5	直通設計 Ø6管徑 Through design ø6 diameter	2



夾持力 Gripping force 夾持力與 夾爪 (finger) 長度對照表 Gripping force and jaw (finger) length chart



顏色區域：會增加夾爪磨損及撕裂機會
Colored area: increased wear and tear to be expected



■ Mx max. 1.14 Nm
■ Mz max. 1.05 Nm
■ Fz max. 33.0 N

技術資料 Technical data

型號 Model	LGA-20	
夾爪開張角度 Opening angle	°	30°
夾爪關閉角度 Closing angle	°	-10°
開啓扭力 Opening torque	Nm	0.9
關閉扭力 Closing torque	Nm	0.85
重量 Weight	g	193
建議工件重量 Recom. workpiece weight	kg	0.16
最高動作頻率 Maximum operating frequency	180 次 beats / 分鐘 minute	
最小/最大壓力 Min. / Max. pressure	bar	1.5 ~ 7
額定工作壓力 Nominal pressure	bar	6
關閉/開啓時間 Closing / Opening time	s	0.02
夾爪長度可允許 Max. finger length	mm	45
夾爪重量可允許 Max. finger weight	kg	0.05
IP 等級 IP rating	IP	40
最小/最大室溫 Minimum / Maximum temperature	°C	-5° ~ 60°C
重複精度 Repeatability	mm	0.03

Angular Gripper

外觀尺寸圖 Dimensions

A 孔：主連接孔，夾爪開啓。

B 孔：主連接孔，夾爪閉合。

① 機械手，連接介面。

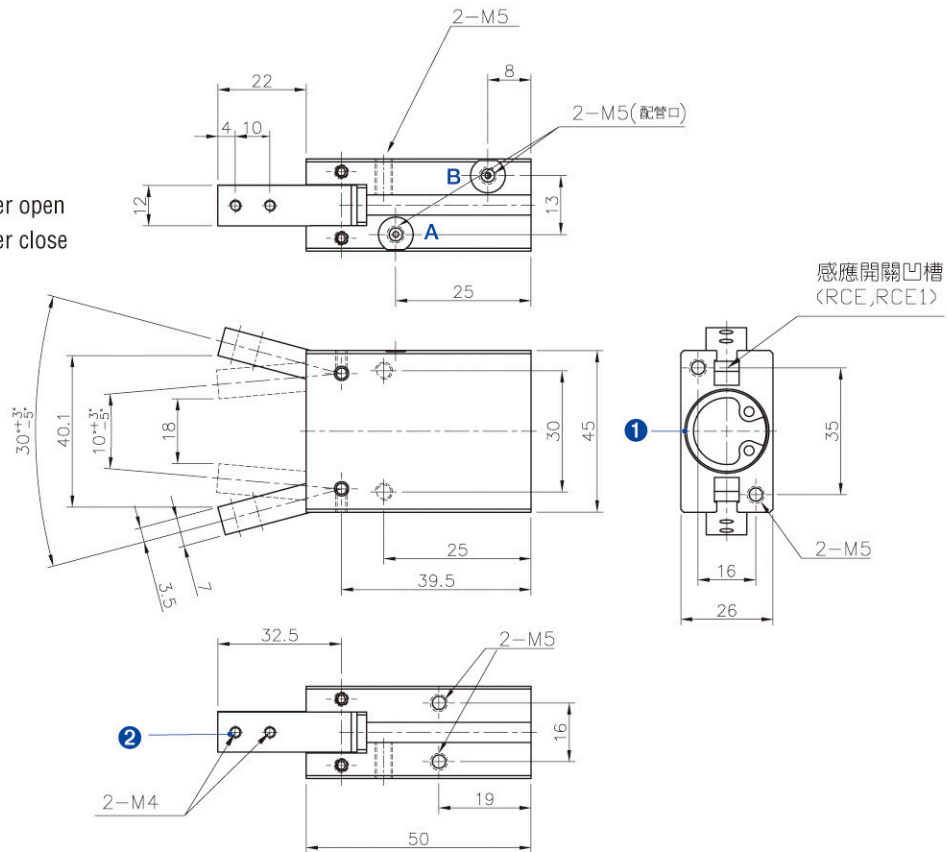
② 夾爪連接介面。

A Hole: main connection, gripper open

B Hole: main connection, gripper close

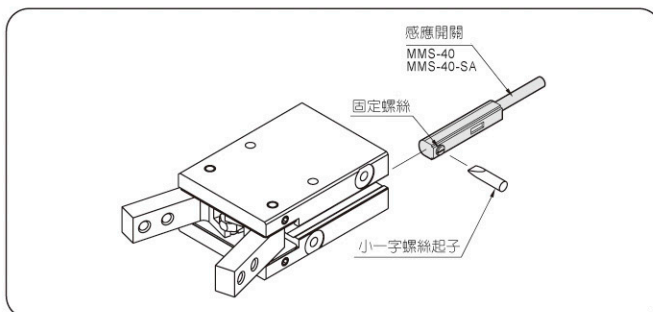
① Robot, connection interface

② Gripper connection interface



■ 上圖為閉爪時的基本款，不含選配物件尺寸。 ■ The picture shows the basic models when closing, excluding optional object size

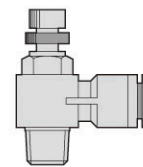
(接觸式)C型槽感應器系統 (Contact) C-slot sensor system



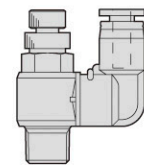
- 接觸式C型槽終端位置監控:夾爪磁簧感應器，安裝於夾爪C型槽內。
- 每個機械夾爪需要至少要2個感應器(接觸式)。
- Contact C-slot terminal position monitoring: Gripper magnetic field sensor, installed in the C-slot.
- Each mechanical gripper needs at least two sensors (contact).

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
MMS-40-SA	90度設計(兩線無接點) 90-degree design (two-line non-contact)	2

夾爪調速閥 Speed control valve



ASC4-M5
ASC6-M5



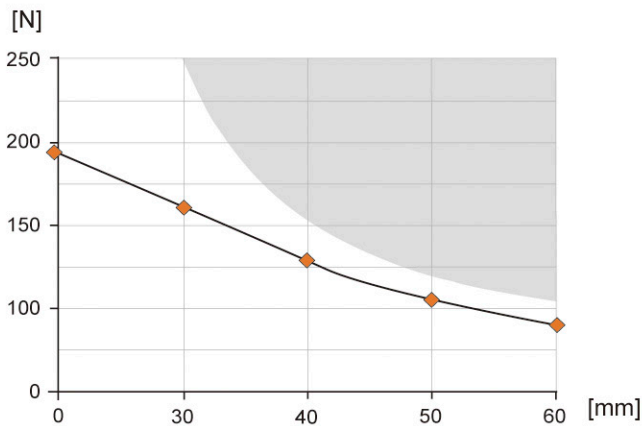
AAC4-M5
AAC6-M5

- 夾爪專用調速閥: 調整夾爪開張速度專用調速閥門。
- 每個機械夾爪需要至少要2個調速閥。
- Speed control valve special for grippers: Special for adjusting the opening speed of gripper.
- Each mechanical gripper needs at least two speed control valves.

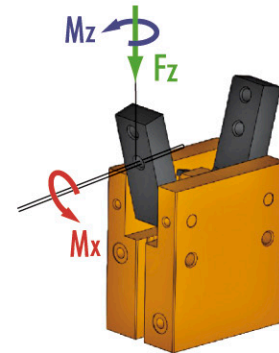
型號 Model	型式 Description	建議使用數量 Recom. number of use
ASC4-M5	90度設計 04管徑 90 degrees design ø4 diameter	2
AAC6-M5	90度設計 06管徑 90 degrees design ø6 diameter	2
ASC4-M5	直通設計 04管徑 Through design ø4 diameter	2
AAC6-M5	直通設計 06管徑 Through design ø6 diameter	2



夾持力 Gripping force 夾持力與 夾爪 (finger) 長度對照表 Gripping force and jaw (finger) length chart



顏色區域：會增加夾爪磨損及撕裂機會
 Colored area: increased wear and tear to be expected



- Mx max. 2.96 Nm
- Mz max. 2.00 Nm
- Fz max. 47.0 N

技術資料 Technical data

型號 Model	LGA-25	
夾爪開張角度 Opening angle	°	30°
夾爪關閉角度 Closing angle	°	-10°
開啓扭力 Opening torque	Nm	3
關閉扭力 Closing torque	Nm	2.8
重量 Weight	g	327
建議工件重量 Recom. workpiece weight	kg	0.52
最高動作頻率 Maximum operating frequency	180 次 beats / 分鐘 minute	
最小/最大壓力 Min. / Max. pressure	bar	1.5 ~ 7
額定工作壓力 Nominal pressure	bar	6
關閉/開啓時間 Closing / Opening time	s	0.02
夾爪長度可允許 Max. finger length	mm	56
夾爪重量可允許 Max. finger weight	kg	0.1
IP 等級 IP rating	IP	40
最小/最大室溫 Minimum / Maximum temperature	°C	-5° ~ 60°C
重複精度 Repeatability	mm	0.03

Angular Gripper

外觀尺寸圖 Dimensions

A 孔：主連接孔，夾爪開啓。

B 孔：主連接孔，夾爪閉合。

① 機械手，連接介面。

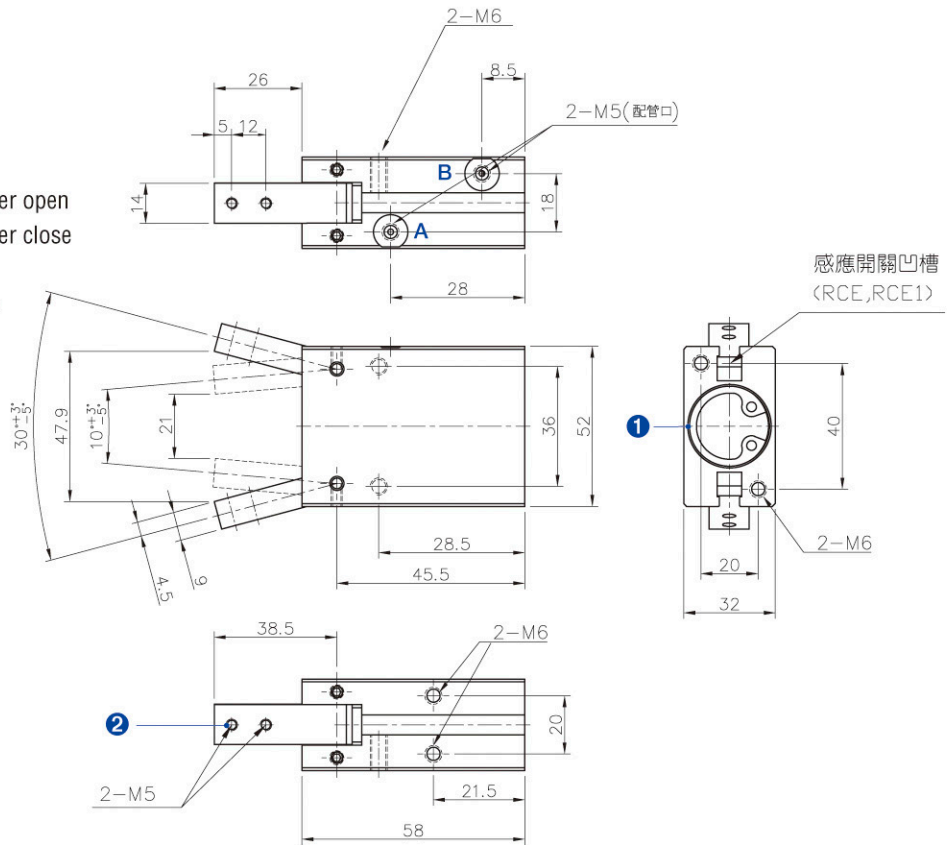
② 夾爪連接介面。

A Hole: main connection, gripper open

B Hole: main connection, gripper close

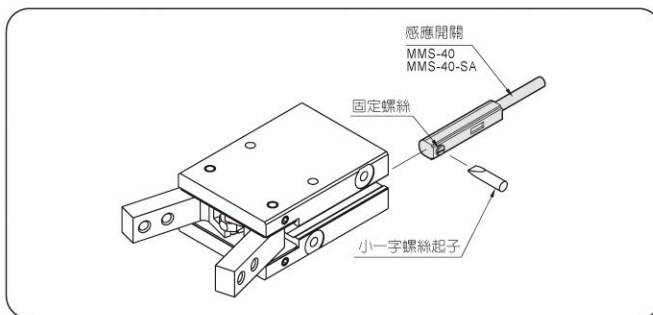
① Robot, connection interface

② Gripper connection interface



■ 上圖為閉爪時的基本款，不含選配物件尺寸。 ■ The picture shows the basic models when closing, excluding optional object size

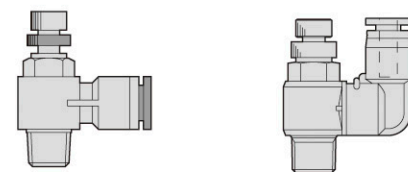
(接觸式)C型槽感應器系統 (Contact) C-slot sensor system



- 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 at 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
	90度設計(兩線無接點) 90-degree design (two-line non-contact)	2

夾爪調速閥 Speed control valve



ASC4-M5
ASC6-M5

AAC4-M5
AAC6-M5

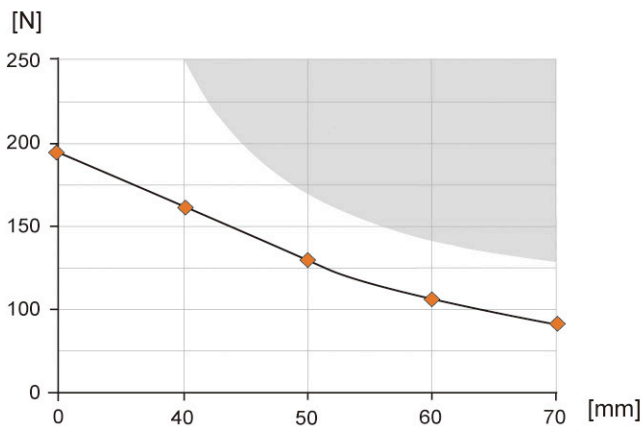
- 夾爪專用調速閥: 調整夾爪開張速度專用調速閥門。
- 每個機械夾爪需要至少要2個調速閥。
- Speed control valve special for grippers: Special for adjusting the opening speed of gripper.
- Each mechanical gripper needs at least two speed control valves.

型號 Model	型式 Description	建議使用數量 Recom. number of use
ASC4-M5	90度設計 04管徑 90 degrees design ø4 diameter	2
AAC6-M5	90度設計 06管徑 90 degrees design ø6 diameter	2
ASC4-M5	直通設計 04管徑 Through design ø4 diameter	2
AAC6-M5	直通設計 06管徑 Through design ø6 diameter	2



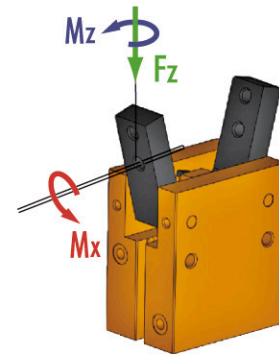
夾持力 Gripping force

夾持力與 夾爪 (finger) 長度對照表 Gripping force and jaw (finger) length chart



顏色區域：會增加夾爪磨損及撕裂機會

Colored area: increased wear and tear to be expected



- Mx max. 4.40 Nm
- Mz max. 3.12 Nm
- Fz max. 65.0 N

技術資料 Technical data

型號 Model	LGA-32	
夾爪開張角度 Opening angle	°	30°
夾爪關閉角度 Closing angle	°	-10°
開啓扭力 Opening torque	Nm	6.4
關閉扭力 Closing torque	Nm	6.2
重量 Weight	g	525
建議工件重量 Recom. workpiece weight	kg	0.85
最高動作頻率 Maximum operating frequency	180 次 beats / 分鐘 minute	
最小/最大壓力 Min. / Max. pressure	bar	1.5 ~ 7
額定工作壓力 Nominal pressure	bar	6
關閉/開啓時間 Closing / Opening time	s	0.02
夾爪長度可允許 Max. finger length	mm	68
夾爪重量可允許 Max. finger weight	kg	0.16
IP 等級 IP rating	IP	40
最小/最大室溫 Minimum / Maximum temperature	°C	-5° ~ 60°C
重複精度 Repeatability	mm	0.03

Angular Gripper

外觀尺寸圖 Dimensions

A 孔：主連接孔，夾爪開啓。

B 孔：主連接孔，夾爪閉合。

① 機械手，連接介面。

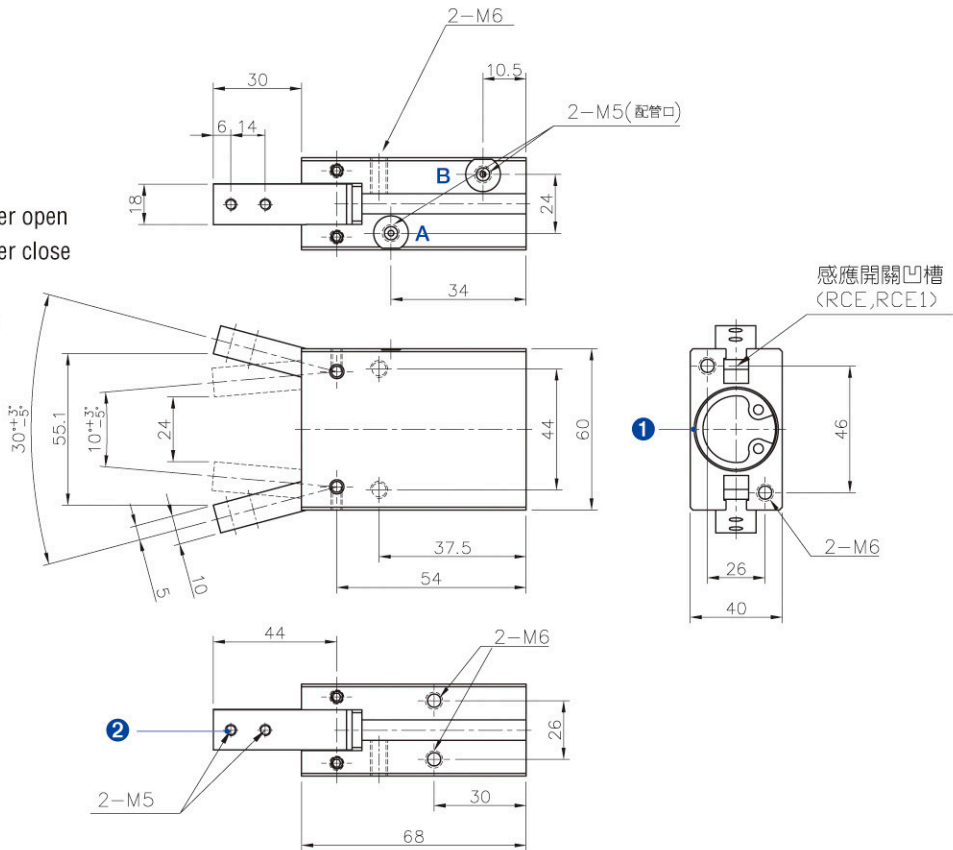
② 夾爪連接介面。

A Hole: main connection, gripper open

B Hole: main connection, gripper close

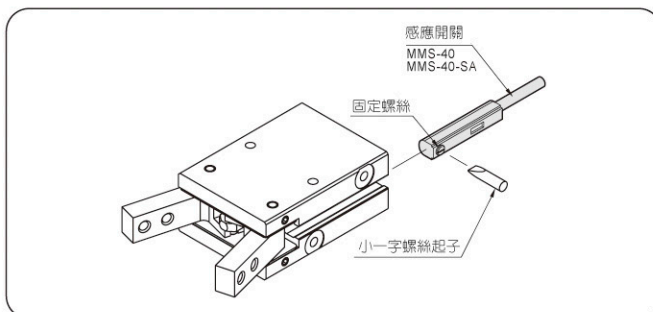
① Robot, connection interface

② Gripper connection interface



■ 上圖為閉爪時的基本款，不含選配物件尺寸。 ■ The picture shows the basic models when closing, excluding optional object size

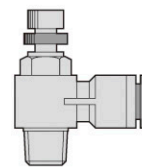
(接觸式)c型槽感應器系統 (Contact) C-slot sensor system



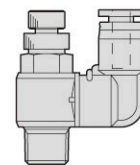
- 接觸式C型槽終端位置監控:夾爪磁簧感應器，安裝於夾爪C型槽內。
- 每個機械夾爪需要至少要2個感應器(接觸式)。
- Contact C-slot terminal position monitoring: Gripper magnetic field sensor, installed in the C-slot.
- Each mechanical gripper needs at least two sensors (contact).

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
	90度設計(兩線無接點) 90-degree design (two-line non-contact)	2
MMS-40-SA	90度設計(兩線無接點) 90-degree design (two-line non-contact)	2

夾爪調速閥 Speed control valve



ASC4-M5
ASC6-M5



AAC4-M5
AAC6-M5

- 夾爪專用調速閥: 調整夾爪開張速度專用調速閥門。
- 每個機械夾爪需要至少要2個調速閥。
- Speed control valve special for grippers: Special for adjusting the opening speed of gripper.
- Each mechanical gripper needs at least two speed control valves.

型號 Model	型式 Description	建議使用數量 Recom. number of use
ASC4-M5	90度設計 04管徑 90 degrees design ø4 diameter	2
AAC6-M5	90度設計 06管徑 90 degrees design ø6 diameter	2
ASC4-M5	直通設計 04管徑 Through design ø4 diameter	2
AAC6-M5	直通設計 06管徑 Through design ø6 diameter	2