

# grip 工業機器人周邊部件



EXCHANGE

## 工業機器人手動快速換模系統

MGW  
SHW  
SWA  
SWS

手動  
換模  
系列

Gi  
GiS  
GP  
GZ

Internal  
Gripper  
&  
Gripper

DDF  
MEK  
SEK

Swivel  
&  
Energy  
Coupling



### MGW 手動氣壓夾爪快速換模系統 Manual Gripper Changing System

- 規格：6種
- 不需要工具就可拆和裝
- 承受低重量的高負載
- 5,000次更換週期壽命
- 符合DIN EN ISO 9409-1的連接端面
- 最高承受荷重：10 ~ 120Kg

03~09頁



### SHW 推力槓桿換模系統 Thrust Lever-Changing System

- 規格：5種
- 承受低重量的高負載
- 重複精度：±0.02mm
- 50,000次更換週期壽命
- 符合DIN EN ISO 9409-1的連接端面
- 最高承受荷重：12 ~ 75Kg
- 不需要工具就可拆和裝

10~15頁



### SWA 快速換模連接系統 Quick-Change-Adapter

- 規格：6種
- 重複精度：±0.02mm
- 承受低重量的高負載
- 50,000次更換週期壽命
- 符合DIN EN ISO 9409-1的連接端面
- 最高承受荷重：8 ~ 62Kg

16~22頁



### SWS 快速換模系統 Quick-Change-System

- 規格：9種
- 重複精度：±0.02mm
- 承受低重量的高負載
- 50,000次更換週期壽命
- 符合DIN EN ISO 9409-1的連接端面
- 最高承受荷重：14 ~ 200Kg

24~33頁

### 氣壓內孔夾具 Internal Gripper & 氣壓夾爪 Gripper

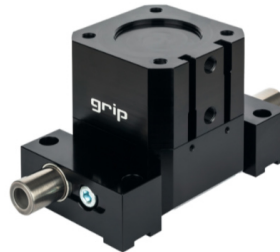
Gi 內孔夾持器  
4~20mm



GiS 內孔夾持器  
5~20mm



GP 氣壓平行夾爪



GZ 氣壓夾爪  
Y型(60度)



### 氣壓旋轉接頭 Multiport Swivel & 氣和電信號-快速連接 Multi-Energy-Coupling 標準化產品

DDF 空氣4通道  
旋轉接頭



MEK 氣/電  
快速連接器



SEK 氣/電  
快速連接器



◎ 目錄上所有的功能尺寸及公差僅供參考，本公司保有變更之權力並不事先通知。◎ 如有任何疑問及特殊需求請洽詢本公司。

## SWA 快速換模 系列

SWA050  
SWA063  
SWA080  
SWA100  
SWA125  
SWA160

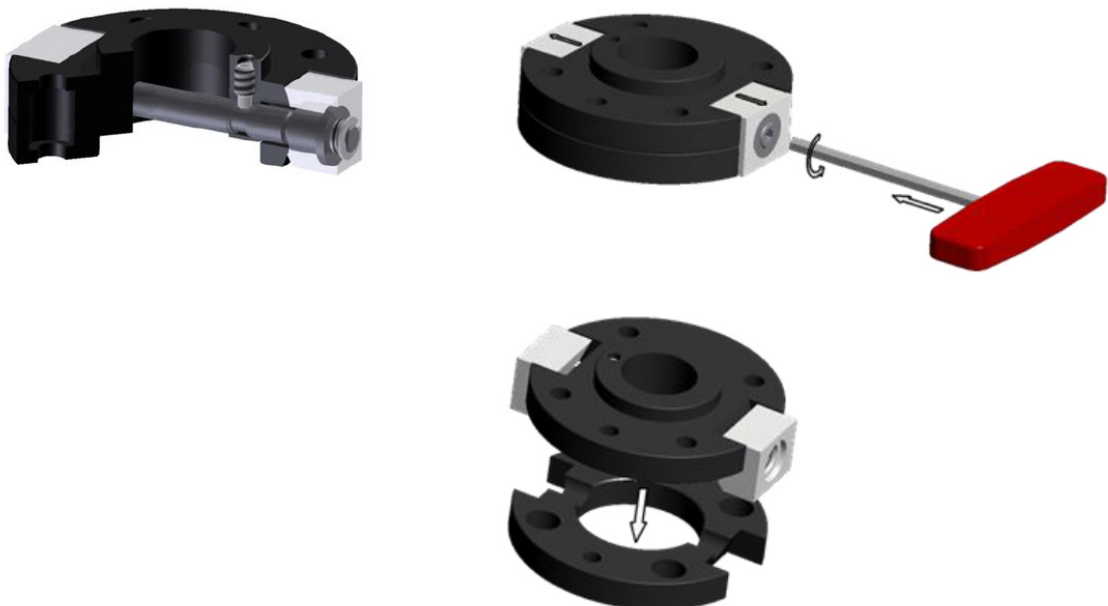


**操作模式：**十字頭螺釘，通過兩個楔形爪，無間隙連接&適用於要求低空間的薄厚度

#### 優點：

- 規格：6種
- 重複精度： $\pm 0.02\text{mm}$
- 大型材料選擇：高強度鋁，鋼，不銹鋼
- 符合DIN EN ISO 9409-1的連接端面
- 最高承受荷重：8 ~ 62Kg
- 承受低重量的高負載
- 50,000次更換週期壽命
- 可根據客戶的要求設計

### SWA 拆/裝方式和步驟





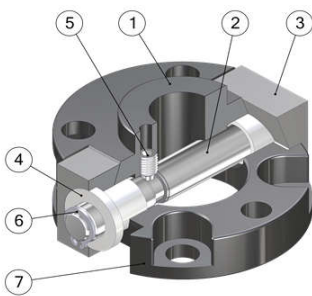
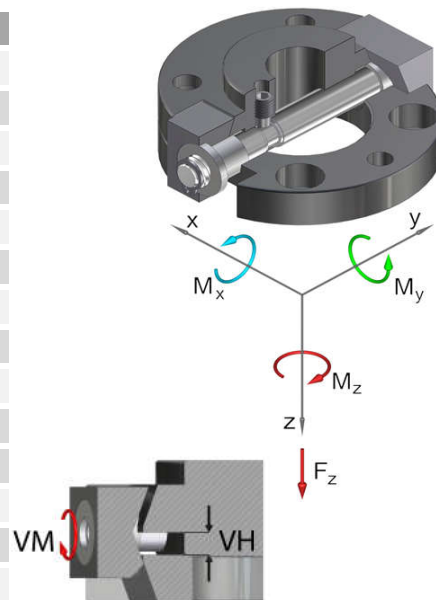
#### Operating mode:

By turning the axis, the upper part (1) and the lower part (2) are locked. The wedge-shaped flanges brace the system in a form-closed manner.

#### Advantages:

- reduced height to a minimum
- very low interference contours
- high repeatability +/- 0,02 mm
- holds up to 10.000 changing cycles
- during locking, the lower part is pulled around the locking stroke
- Interface according to DIN EN ISO 9409-1

Technical specifications		SWA050	
Basic material		Al, anod.	St, nitrated
External diameter x height [mm]		50 x 20	
Pitch circle diameter [mm]		40	
Repeatability +/- [mm]		0,02	
Tension Fz [N]		800	920
Compression -Fz [kN]		48	96
Torsion Mz [Nm]		60	70
Bend Mx [Nm]		60	70
Bend My [Nm]		40	48
Mass [kg]	Upper part	0,11	0,2
	Lower part	0,03	0,1
Recommended load [kg]		8	9
Locking moment VM [Nm]		16	
Locking stroke VH [mm]		0 - 6	



Pos.	Description
1	Upper part
2	Axis
3	Flange
4	Screw nut
5	Setscrew
6	Locking ring
7	Lower part

#### Quick-Change Adapter Ø50...

G-SWA050-20	drilled according to ISO, upper part, Al, anodized
G-SWA050-20-N	drilled according to ISO, upper part, steel, nitrated
G-SWA050-2U	drilled according to ISO, lower part, Al, anodized
G-SWA050-2U-N	drilled according to ISO, lower part, steel, nitrated

#### Replacement axis...

EG-SWA050-A	for SWA050
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## SWA 快速換模 系列

SWA050

**SWA063**

SWA080

SWA100

SWA125

SWA160



#### Operating mode:

By turning the axis, the upper part (1) and the lower part (2) are locked. The wedge-shaped flanges brace the system in a form-closed manner.

#### Advantages:

reduced height to a minimum

very low interference contours

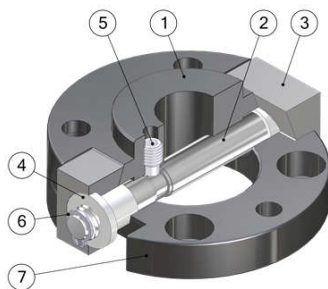
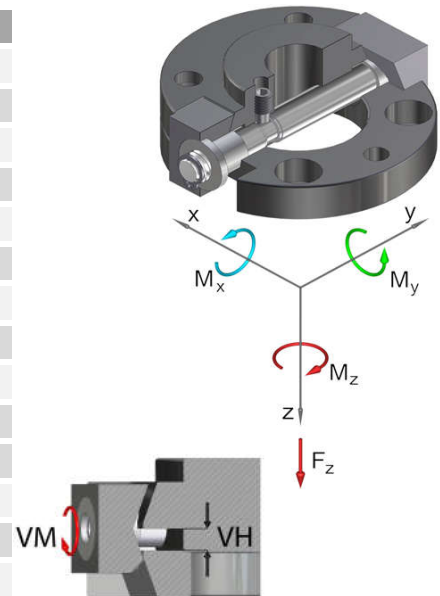
high repeatability +/- 0,02 mm

holds up to 10.000 changing cycles

during locking, the lower part is pulled around the locking stroke

Interface according to DIN EN ISO 9409-1

Technical specifications		SWA063	
Basic material		Al, anod.	St, nitrated
External diameter x height [mm]		63 x 20	
Pitch circle diameter [mm]		50	
Repeatability +/- [mm]		0,02	
Tension Fz [N]		1.000	1.150
Compression -Fz [kN]		89	178
Torsion Mz [Nm]		80	90
Bend Mx [Nm]		70	80
Bend My [Nm]		50	60
Mass [kg]	Upper part	0,16	0,35
	Lower part	0,05	0,15
Recommended load [kg]		10	12
Locking moment VM [Nm]		16	
Locking stroke VH [mm]		0 - 6	



Pos.	Description
1	Upper part
2	Axis
3	Flange
4	Screw nut
5	Setscrew
6	Locking ring
7	Lower part

#### Quick-Change Adapter Ø50...

G-SWA063-2O drilled according to ISO, upper part, Al, anodized

G-SWA063-2O-N drilled according to ISO, upper part, steel, nitrated

G-SWA063-2U drilled according to ISO, lower part, Al, anodized

G-SWA063-2U-N drilled according to ISO, lower part, steel, nitrated

#### Replacement axis...

EG-SWA063-A for SWA063



#### Operating mode:

By turning the axis, the upper part (1) and the lower part (2) are locked. The wedge-shaped flanges brace the system in a form-closed manner.

#### Advantages:

reduced height to a minimum

very low interference contours

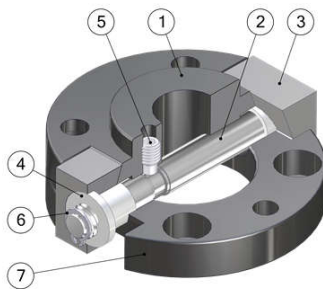
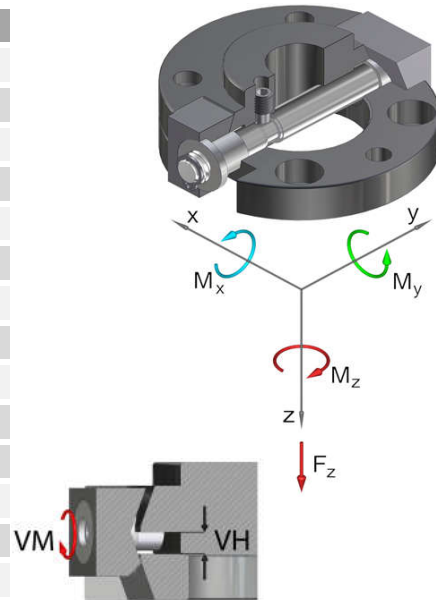
high repeatability +/- 0,02 mm

holds up to 10.000 changing cycles

during locking, the lower part is pulled around the locking stroke

Interface according to DIN EN ISO 9409-1

Technical specifications		SWA080	
Basic material		Al, anod.	St, nitrated
External diameter x height [mm]		80 x 20	
Pitch circle diameter [mm]		63	
Repeatability +/- [mm]		0,02	
Tension Fz [N]		1.200	1.400
Compression -Fz [kN]		157	313
Torsion Mz [Nm]		140	160
Bend Mx [Nm]		120	140
Bend My [Nm]		80	90
Mass [kg]	Upper part	0,25	0,5
	Lower part	0,1	0,25
Recommended load [kg]		16	18
Locking moment VM [Nm]		16	
Locking stroke VH [mm]		0 - 6	



Pos.	Description
1	Upper part
2	Axis
3	Flange
4	Screw nut
5	Setscrew
6	Locking ring
7	Lower part

#### Quick-Change Adapter Ø50...

G-SWA080-20	drilled according to ISO, upper part, Al, anodized
G-SWA080-20-N	drilled according to ISO, upper part, steel, nitrated
G-SWA080-2U	drilled according to ISO, lower part, Al, anodized
G-SWA080-2U-N	drilled according to ISO, lower part, steel, nitrated

#### Replacement axis...

EG-SWA080-A	for SWA080
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## SWA 快速換模 系列

SWA050

SWA063

SWA080

## SWA100

SWA125

SWA160



#### Operating mode:

By turning the axis, the upper part (1) and the lower part (2) are locked. The wedge-shaped flanges brace the system in a form-closed manner.

#### Advantages:

reduced height to a minimum

very low interference contours

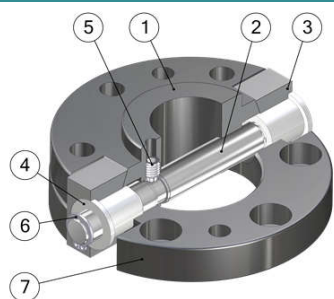
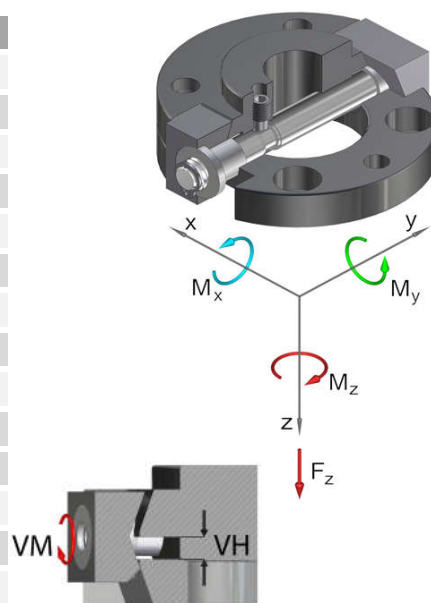
high repeatability +/- 0,02 mm

holds up to 10.000 changing cycles

during locking, the lower part is pulled around the locking stroke

Interface according to DIN EN ISO 9409-1

Technical specifications		SWA100	
Basic material		Al, anod.	St, nitrated
External diameter x height [mm]		100 x 30	
Pitch circle diameter [mm]		80	
Repeatability +/- [mm]		0,02	
Tension Fz [N]		1.500	1.700
Compression -Fz [kN]		219	439
Torsion Mz [Nm]		200	220
Bend Mx [Nm]		160	185
Bend My [Nm]		110	125
Mass [kg]	Upper part	0,55	1,1
	Lower part	0,2	0,6
Recommended load [kg]		22	25
Locking moment VM [Nm]		24	
Locking stroke VH [mm]		0 - 10	



Pos.	Description
1	Upper part
2	Axis
3	Flange
4	Screw nut
5	Setscrew
6	Locking ring
7	Lower part

#### Quick-Change Adapter Ø50...

G-SWA100-2O	drilled according to ISO, upper part, Al, anodized
G-SWA100-2O-N	drilled according to ISO, upper part, steel, nitrated
G-SWA100-2U	drilled according to ISO, lower part, Al, anodized
G-SWA100-2U-N	drilled according to ISO, lower part, steel, nitrated

#### Replacement axis...

EG-SWA100-A	for SWA100
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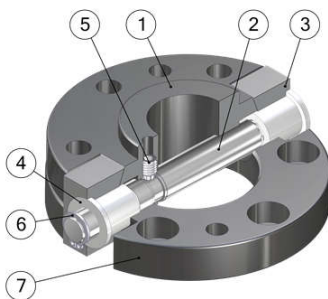
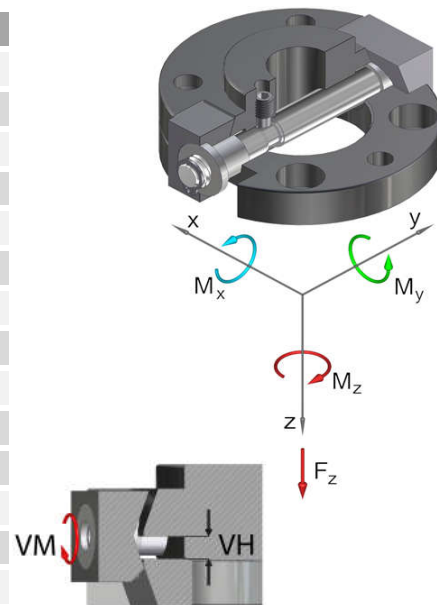
### Operating mode:

By turning the axis, the upper part (1) and the lower part (2) are locked. The wedge-shaped flanges brace the system in a form-closed manner.

### Advantages:

- reduced height to a minimum
- very low interference contours
- high repeatability +/- 0,02 mm
- holds up to 10.000 changing cycles
- during locking, the lower part is pulled around the locking stroke
- Interface according to DIN EN ISO 9409-1

Technical specifications		SWA125	
Basic material		Al, anod.	St, nitrated
External diameter x height [mm]		125 x 30	
Pitch circle diameter [mm]		100	
Repeatability +/- [mm]		0,02	
Tension Fz [N]		1.800	2.100
Compression -Fz [kN]		377	754
Torsion Mz [Nm]		300	350
Bend Mx [Nm]		220	250
Bend My [Nm]		150	175
Mass [kg]	Upper part	0,8	1,6
	Lower part	0,35	1
Recommended load [kg]		30	35
Locking moment VM [Nm]		36	
Locking stroke VH [mm]		0 - 11	



Pos.	Description
1	Upper part
2	Axis
3	Flange
4	Screw nut
5	Setscrew
6	Locking ring
7	Lower part

### Quick-Change Adapter Ø50...

G-SWA125-20	drilled according to ISO, upper part, Al, anodized
G-SWA125-20-N	drilled according to ISO, upper part, steel, nitrated
G-SWA125-2U	drilled according to ISO, lower part, Al, anodized
G-SWA125-2U-N	drilled according to ISO, lower part, steel, nitrated

### Replacement axis...

EG-SWA125-A	for SWA125
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## SWA 快速換模 系列

SWA050

SWA063

SWA080

SWA100

SWA125

**SWA160**



#### Operating mode:

By turning the axis, the upper part (1) and the lower part (2) are locked. The wedge-shaped flanges brace the system in a form-closed manner.

#### Advantages:

reduced height to a minimum

very low interference contours

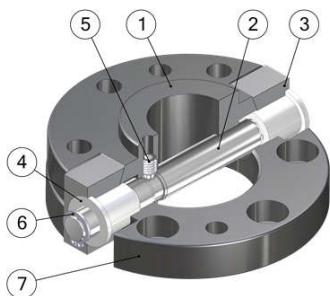
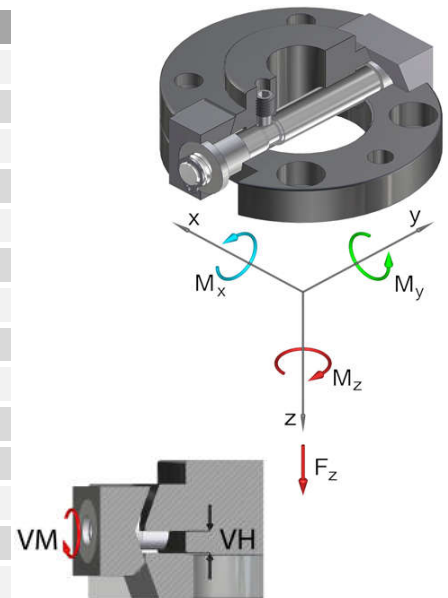
high repeatability +/- 0,02 mm

holds up to 10.000 changing cycles

during locking, the lower part is pulled around the locking stroke

Interface according to DIN EN ISO 9409-1

Technical specifications		SWA160	
Basic material		Al, anod.	St, nitrated
External diameter x height [mm]		160 x 40	
Pitch circle diameter [mm]		125	
Repeatability +/- [mm]		0,02	
Tension Fz [N]		2.800	3.300
Compression -Fz [kN]		626	1.252
Torsion Mz [Nm]		460	500
Bend Mx [Nm]		350	410
Bend My [Nm]		280	320
Mass [kg]	Upper part	1,75	3,5
	Lower part	0,8	2
Recommended load [kg]		56	62
Locking moment VM [Nm]		40	
Locking stroke VH [mm]		0 - 14	



Pos.	Description
1	Upper part
2	Axis
3	Flange
4	Screw nut
5	Setscrew
6	Locking ring
7	Lower part

#### Quick-Change Adapter Ø50...

G-SWA160-20	drilled according to ISO, upper part, Al, anodized
G-SWA160-20-N	drilled according to ISO, upper part, steel, nitrated
G-SWA160-2U	drilled according to ISO, lower part, Al, anodized
G-SWA160-2U-N	drilled according to ISO, lower part, steel, nitrated

#### Replacement axis...

EG-SWA160-A	for SWA160
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