

5.2

END OF ARM TOOLING

COMPLEX GRIPPER FLEXIBLE ASSEMBLY

PRODUCT CATALOGUE

COMPANY INTRODUCTION

CRG is a high-tech enterprise dedicated to the design, development, sales and service of robot and manipulator end assembly fixture (EOAT). The main products are gripping, absorbing, cutting, quick change and other products, has been widely used in automotive, packaging, home appliances, food, medical, 3C and other industries. They can be put together like an installation kit, and it gives you infinite construction possibilities to easily build your robotic grippers.

ABOUT US

INNOVATION

Modular design, free assembly

TECHNOLOGY ACCUMULATION

10,000+ sets of application cases
3,000+ fixture accessories available

SAFE AND RELIABLE

Reliable factory quality



Enterprise development history



2016

Suzhou CRG Robotics Technology Co., Ltd. was established
Obtained high-tech enterprise certification
Obtained ISO, IATF 16949 and other quality system certifications



2019

Robot automatic quick changer product



2023

Obtained European Union CE certification
Automatic quick changer
pneumatic and power module
with load of 800kgs are introduced

2009

Kunshan YYB Automation Equipment CO., LTD. was established
Introduce international advanced production
equipment and establish a processing line



2017

Set up R&D center and laboratory
Strategic cooperation with Haitian
Establish overseas agents



2020

Invested in Suzhou Xiaimu Intelligent
Manufacturing CO., LTD
Invested in the establishment of Wuhan EOAT
Intelligent Manufacturing Co.,LTD
Set up NINGBO Office

2022

Set up Qingdao, Wuhu, Dongguan offices
Automate and intelligently upgrade the production line,
and increase production capacity





CORPORATE CULTURE

Mission

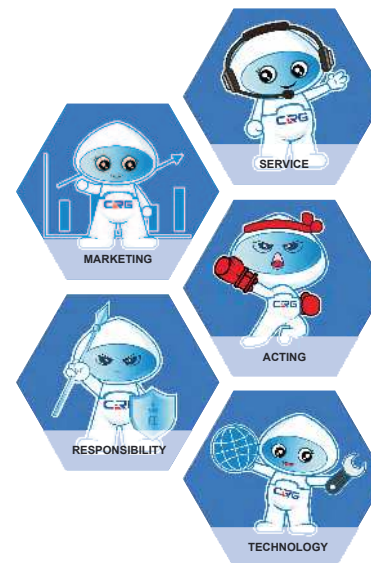
To provide customers with effective solutions and create together! Win win! Share!

Vision

To create a global famous brand and build an international excellent enterprise!

Operation Concept

Repeating simple things, repeating what you do attentively!



Serve customers from heart.

Start from future with sensitive mind.

Do all best to achieve target.

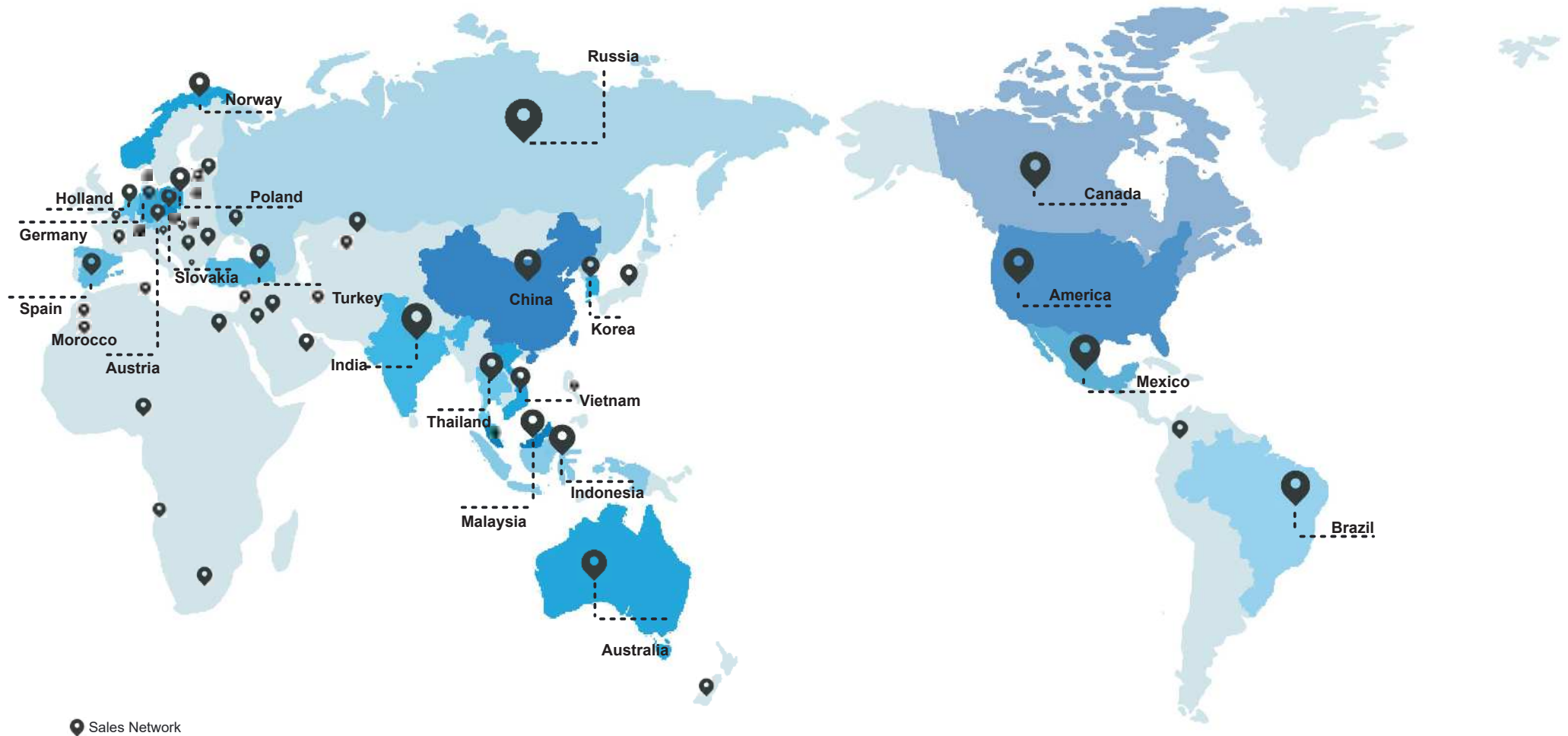
Work together and never give up.

Think out of box and open to any possibilities.

BUSINESS SCOPE

Base in China Service the world

CRG's business covers robot integration applications, automation equipment and robot end tools, and its products are exported to more than 100 countries and regions around the world.



Automotive A-pillar take out fixture case

Product description:

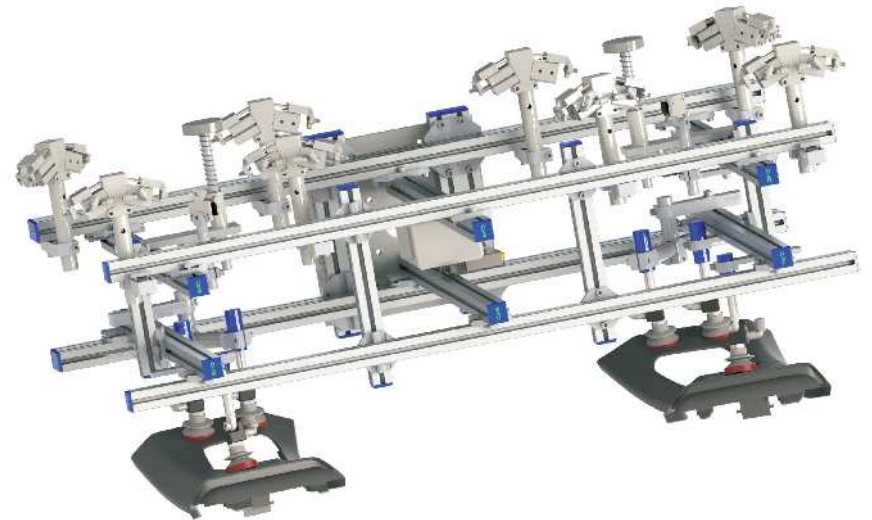
1. Case display products for one mold with two cavities, four sprue.
2. The products displayed in the case mainly use vacuum adsorption products, GR20 series sprue gripper to take out the sprue.



Automotive B-Pillar removal cloth fixture case

Product description:

1. Case display products for one mold with two cavities, no sprue.
2. The products displayed in the case are taken out by vacuum adsorption, and the non-woven fabric is embedded by GN needle claw.
3. The case shows that the fixture uses a manual insert plate quick changer to achieve the purpose of quick changer.





Automotive CD pillar manually hanging cloth & take out fixture case

Product description:

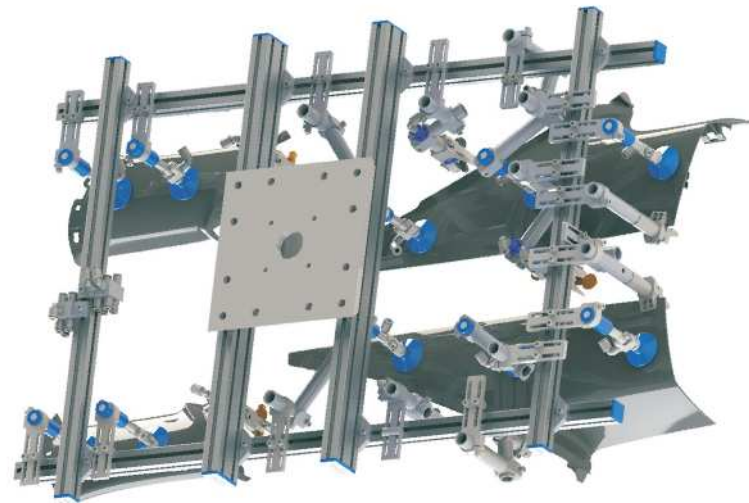
1. Case product display as one mold with four cavities, no sprue.
2. The products displayed in the case are mainly taken out by vacuum adsorption, and the hanging cloth is hung by GNS manual needle claw.
3. The case shows that the fixture uses QCA quick changer, which can realize the automatic replacement of the fixture.



Automotive CD pillar take out fixture case

Product description:

1. The case shows that the product is one mold with four cavities and no sprue.
2. The products displayed in the case mainly use vacuum adsorption products.
3. The case shows that the fixture uses a square manual quick changer to achieve the purpose of quick changer.





Automotive center grill take out fixture case

Product description:

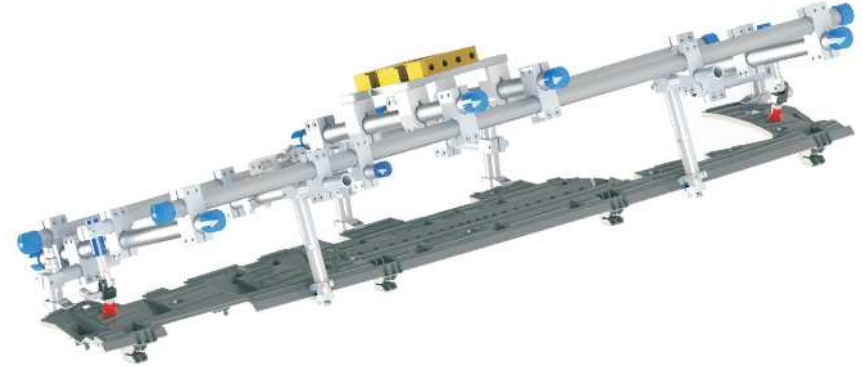
1. Case show product for one mold with one cavity, no sprue.
2. The products displayed in the case mainly use the introduction of adsorption, pneumatic finger-assisted extraction method.
3. The case shows that the fixture uses a square manual quick changer to achieve the purpose of quick changer.



Automotive defroster grille take out fixture case

Product description:

- 1.The case shows that the product is one mold with one cavity, no sprue.
- 2.The products displayed in the case mainly use the finger gripper, vacuum adsorption as a supplementary way to remove.
- 3.The case shows that the fixture uses automatic quick changer to achieve the purpose of quick changer.

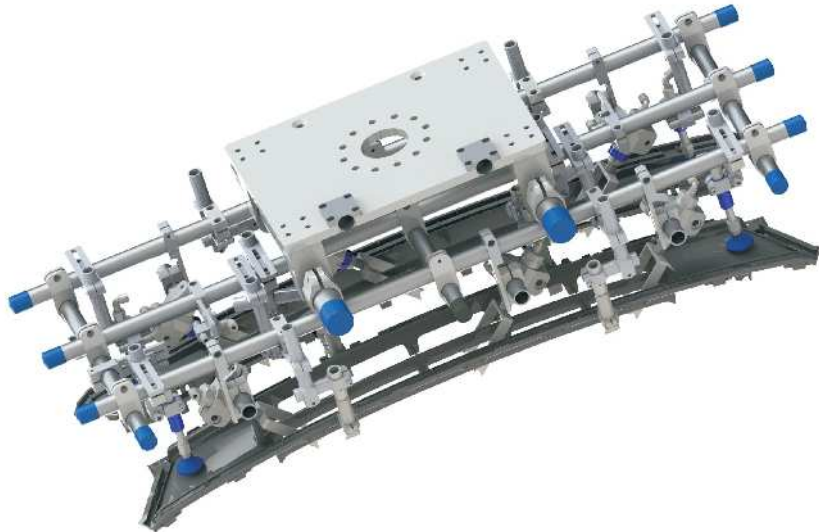




Automobile front bumper lower grill removal fixture case

Product description:

1. The case shows that the product is a mold with two cavities and six sprue.
2. The products shown in the case are mainly took out by finger-operating, supplemented by vacuum adsorption.



Automobile front bumper lower grill removal fixture case

Product description:

1. Case show product for one mold with one cavity, no sprue.
2. The products displayed in the case mainly use the finger gripper, vacuum adsorption as a supplementary way to remove.
3. The case shows that the fixture uses QC manual quick changer to achieve the purpose of quick replacement.

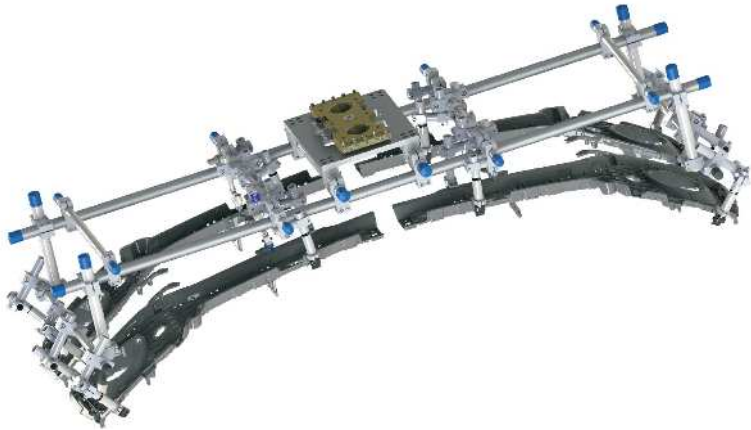




Automobile front bumper left and right lower grill removal fixture case

Product description:

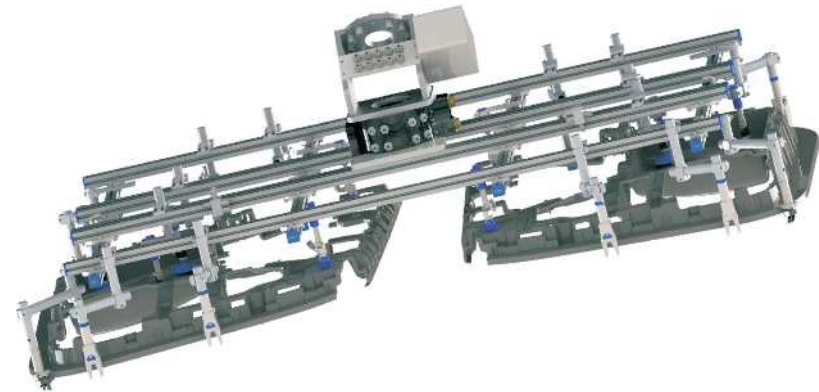
- 1.The case shows that the product is one mold with two cavities and no sprue.
- 2.The products displayed in the case mainly use the finger gripper, vacuum adsorption as a supplementary way to remove.
- 3.The case shows that the fixture uses automatic quick changer to achieve the purpose of quick changer.



Automotive double door panel removal fixture case

Product description:

- 1.The case shows that the product is one mold with two cavities and eight sprue.
- 2.The products displayed in the case mainly use vacuum adsorption, finger gripper extraction method, GRT series sprue gripper to remove the sprue.
- 3.The case shows that the fixture uses QC manual quick changer to achieve the purpose of quick replacement.

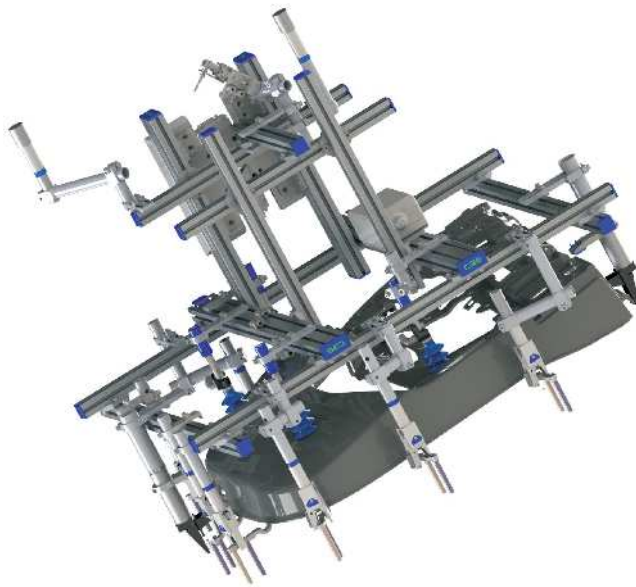




Front door manipulator insert fixture case

Product description:

1. Case show products for one mold, one cavity, seven sprue.
2. The products displayed in the case mainly use vacuum adsorption, finger gripper extraction method, GRT series sprue gripper to remove the sprue.
3. The case shows that the fixture uses automatic quick changer to achieve the purpose of quick changer.



Bumper mold removal fixture case

Product description:

1. Case show product for one mold with one cavity, no sprue.
2. The products displayed in the case are mainly extracted by means of strong clamping and vacuum adsorption.
3. The case is a fixed-mold pickup, which is more difficult than moving-mold pickup.





Automobile rear bumper body removal fixture case

Product description:

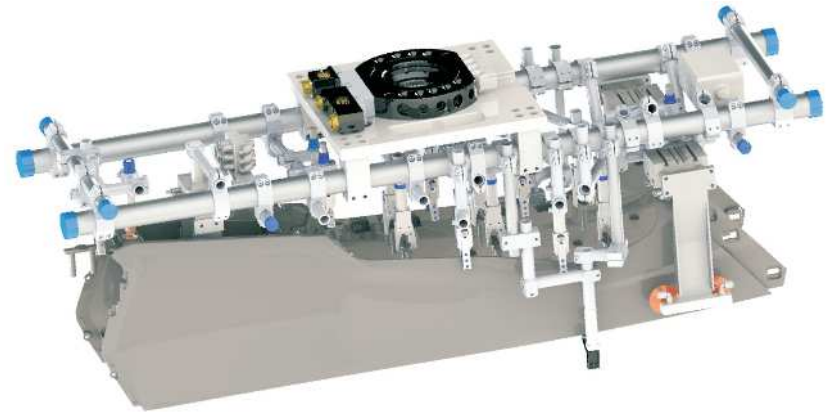
1. Case show product for one mold with one cavity, no sprue.
2. The products displayed in the case mainly adopt the extraction method of pushing adsorption combination & vacuum adsorption combination.
3. The case shows that the fixture uses automatic quick changer to achieve the purpose of QCA quick changer.



Instrument panel body removal fixture case

Product description:

1. The case shows that the product is one mold with two cavities and ten sprue.
2. The products displayed in the case mainly adopt the extraction method of finger gripper & push adsorption, and the GRT series sprue gripper takes out the sprue.
3. The case shows that the fixture uses automatic quick changer to achieve the purpose of QCA quick changer.

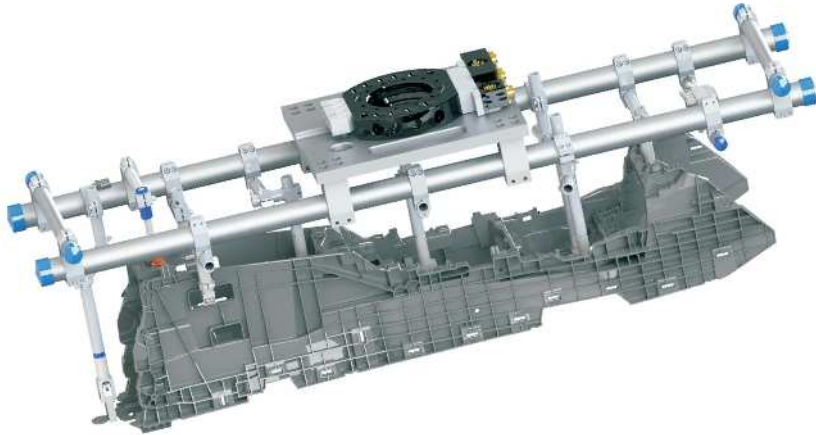




Automotive instrument panel skeleton removal fixture case

Product description:

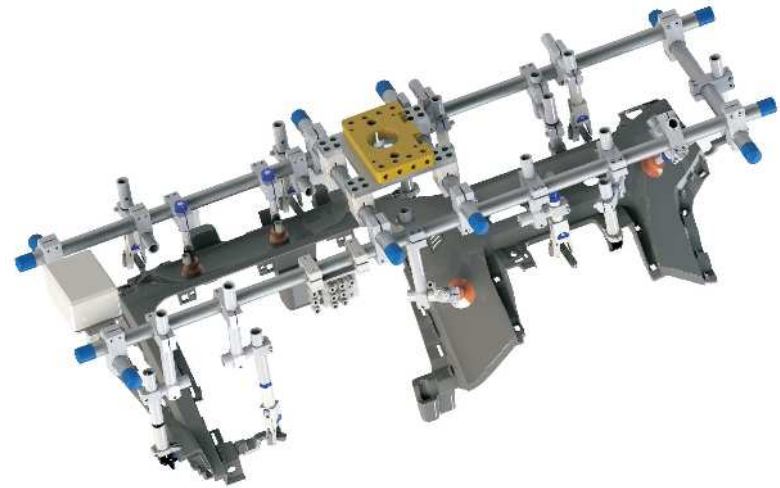
1. Case show product for one mold with one cavity and one sprue.
2. The products displayed in the case mainly use the way of finger-based, adsorption as a supplement to remove, GRT series sprue gripper to remove the sprue.
3. The case shows that the fixture uses automatic QCA quick changer to achieve the purpose of quick changer.



Instrument panel lower frame removal fixture example

Product description:

1. Case show products for one mold with one cavity, seven sprue.
2. The products displayed in the case mainly use the way of finger-based, adsorption as a supplement to remove, GRT series gripper to remove the sprue.
3. The case shows that the fixture uses automatic quick changer to achieve the purpose of quick changer.





Automotive hubcap removal fixture case

Product description:

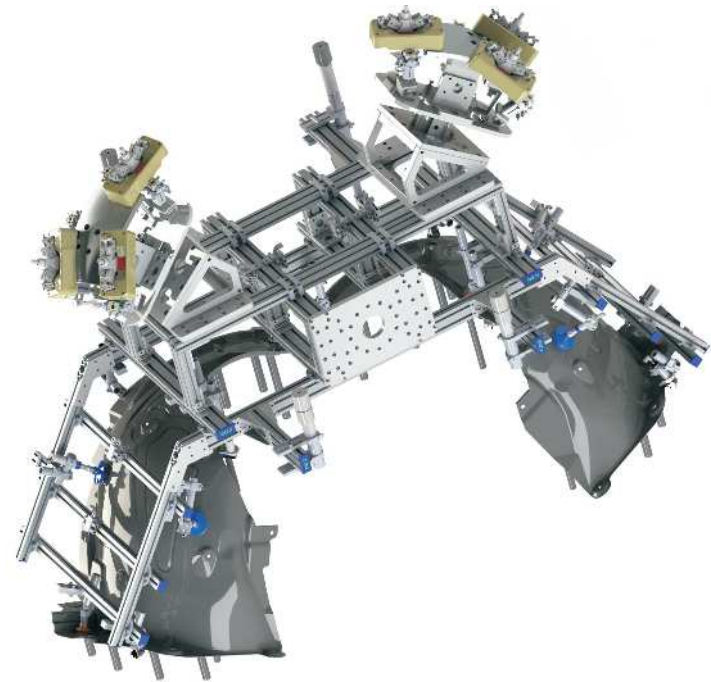
- 1.The case shows that the product is one mold with one cavity and one sprue.
- 2.The products displayed in the case are mainly extracted by vacuum adsorption, and the GRT series sprue gripper is used to remove the sprue.



Hubcap removal and flush fixture case

Product description:

- 1.Case show product for one mold with one cavity, no sprue.
- 2.The products displayed in the case are mainly extracted by vacuum adsorption, and pneumatic needle clip & 3D printing copy is embedded in the felt.
- 3.The case fixture is assisted by a high precision positioner.





IN-DEEP CUSTOMIZED

Modular design is deeply customized on demand



SHORT DELIVERY

Have sufficient physical inventory industry



QUALITY ASSURANCE

Quality control system above the industry



POWERFUL FACTORY

With more than 10,000 successful cases

Table of Contents

P

Profile, SUS Tube

001-008

S

Stents Module

009-074

Q

Quick Changer

075-182

G

Grip Module

183-278

N

Air Nipper

279-288

V

Vacuum Module

289-334

A

Accessory Components

335-352

Profile SUS Tube



Sus Tube
Page 001



Carbon Fiber Tube
Page 002



Extruded Profiles
Page 003-004



T-Nuts
Page 005

Stents Module



Fixing Plate
Page 011



Module Fixed Part
Page 015



Extruded Profile
Page 058



Clamp Leg Connector
Page 063



Elbow Arm Connector
Page 071



Bush Nut
Page 074

Quick Changer



Automatic Quick Changer
Page 075-160



Manual Quick Changer
Page 161-172



Quick Connector
Page 173-174



Square Manual Quick Changer
Page 175-177



L-Shape Manual Quick Changer
Page 178-180



Square Automatic Quick Changer
Page 182

Grip Module



Cylinder Gripper
Page 189-190



Lengthen Parallel Gripper
Page 191-194



Sprue Gripper
Page 195-222



Buffer Support
Page 251



Mould Positioner
Page 253-254



Pneumatic Needle Gripper
Page 255-260



Pneumatic Finger Gripper
Page 263-276



One Finger Angular Pneumatic Gripper
Page 277

Air Nipper



Thrust Cut Nipper
Page 279-280



Temperature Regulator
Page 281-282



Air Nipper Bracket
Page 283-288

Vacuum Module



Vacuum Cup
Page 290-296



Vacuum Cup
Page 297-299



Vacuum Cup
Page 300-303



Vacuum Cup Connector
Page 304-312



Stem Suction Buffer Body
Page 313-322



Solenoid Valve
Page 323-324



Vacuum Module
Page 326

Accessory Components



Signal Box
Page 335



Junction Box
Page 337-340



Miniature Regulator
Page 341



Hose Fitting
Page 345



Hose
Page 352

Sus Tube



PN	Model	D(mm)	L(mm)	T(mm)	Weight	End Cap(PN)	End Cap(Model)
4.Y00040	PST8-1500	Ø8	1500	0.6	215g	1.Y03375(Red)	P08RD
4.Y00021	PST12-1500	Ø12	1500	0.6	339g	1.Y03636(Grey) 1.Y03638(Blue) 1.Y03640(Black)	P12GY P12BU P12BK
4.Y00022	PST20-1500	Ø20	1500	0.8	560g	1.Y03637(Grey) 1.Y03639(Blue) 1.Y03641(Black)	P20GY P20BU P20BK

Aluminium Tube

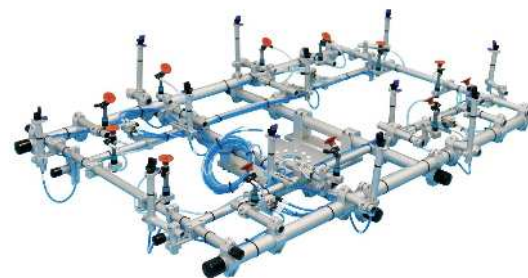


PN	Model	D(mm)	L(mm)	T(mm)	Weight	End Cap(PN)	End Cap(Model)
4.Y00468	PAT20-1000	Ø20	1000	2.0	308g	1.Y03637(Grey)	P20GY
4.Y10972	PAT20-2000	Ø20	2000	2.0	616g	1.Y03639(Blue) 1.Y03641(Black)	P20BU P20BK
4.Y10950	PAT25-1000	Ø25	1000	2.5	467g	1.Y10988(Black)	P25BK
4.Y10974	PAT25-2000	Ø25	2000	2.5	934g		
4.Y00469	PAT30-1000	Ø30	1000	2.5	558g	1.Y20001(Black)	P30BK
4.Y10973	PAT30-2000	Ø30	2000	2.5	1116g		
4.Y00538	PAT40-1000	Ø40	1000	2.5	799g	1.Y10987(Black)	P40BK
4.Y10975	PAT40-2000	Ø40	2000	2.5	1558g		

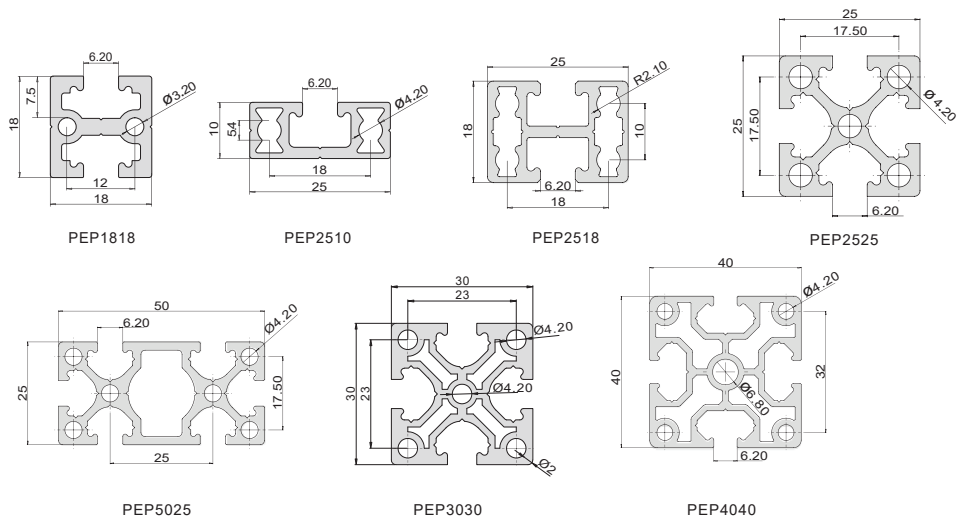
Carbon Fiber Tube



PN	Model	D(mm)	L(mm)	T(mm)	Weight	End Cap(PN)	End Cap(Model)
4.Y10960	PCT8-1000	Ø8	1000	0.8	31g	1.Y03375(Red)	P08RD
4.Y10961	PCT8-2000	Ø8	2000	0.8	62g		
4.Y10962	PCT12-1000	Ø12	1000	1.0	59g	1.Y03636(Grey)	P12GY
4.Y10963	PCT12-2000	Ø12	2000	1.0	118g	1.Y03638(Blue) 1.Y03640(Black)	P12BU P12BK
4.Y10964	PCT20-1000	Ø20	1000	1.2	103g	1.Y03637(Grey)	P20GY
4.Y10965	PCT20-2000	Ø20	2000	1.2	206g	1.Y03639(Blue) 1.Y03641(Black)	P20BU P20BK
4.Y10966	PCT25-1000	Ø25	1000	1.5	169g	1.Y10988(Black)	P25BK
4.Y10967	PCT25-2000	Ø25	2000	1.5	339g		
4.Y10968	PCT30-1000	Ø30	1000	1.5	236g	1.Y20001(Black)	P30BK
4.Y10969	PCT30-2000	Ø30	2000	1.5	472g		
4.Y10970	PCT40-1000	Ø40	1000	2.5	431g	1.Y10987(Black)	P40BK
4.Y10971	PCT40-2000	Ø40	2000	2.5	861g		



Extruded Profiles



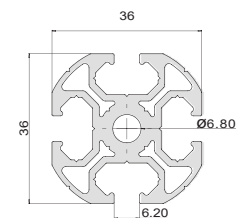
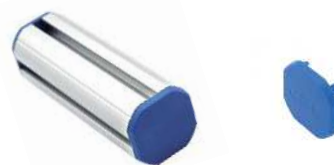
Plugs for profile



PN	Model	Length	Weight	End Cap (PN)	End Cap(Model)
4.Y00075	PEP1818-1000	1.0m	425g	4.Y00517	P1818
4.Y00076	PEP2510-1000	1.0m	310g	4.Y00518	P2510
4.Y00455	PEP2518-1000	1.0m	400g	4.Y00069	P2518
4.Y00050	PEP2525-1000	1.0m	610g		
* 4.Y00051	PEP2525-2000	2.0m	1220g	4.Y00070	P2525
4.Y00056	PEP5025-1000	1.0m	1040g		
* 4.Y00057	PEP5025-2000	2.0m	2080g	4.Y00071	P5025
4.Y00052	PEP4040-1000	1.0m	1300g		
* 4.Y00053	PEP4040-2000	2.0m	2600g	4.Y00072	P4040
4.Y00540	PEP3030-1000	1.0m	650g		
* 4.Y00541	PEP3030-2000	2.0m	1300g	4.Y10972	P3030

* Optional

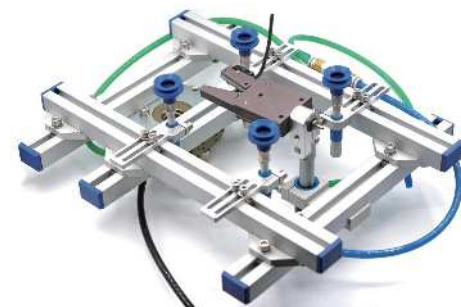
Extruded Profiles



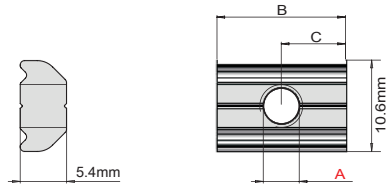
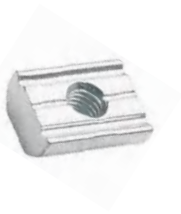
PEP-3636

PN	Model	Length	Weight	End Cap(PN)	End Cap(Model)
4.Y00054	PEP3636-1000	1.0m	1168g		
4.Y00484	PEP3636-1500	1.5m	1752g	4.Y00073	P3636
*4.Y00055	PEP3636-2000	2.0m	2336g		

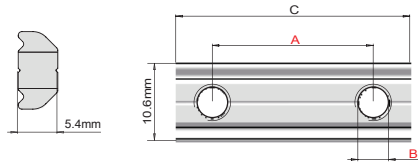
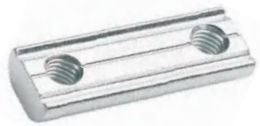
* Optional



T-Nuts

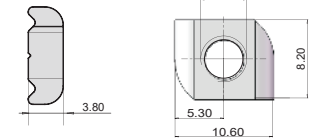


PN	Model	A(mm)	B(mm)	C(mm)	Weight
7.Y00651	PTN-M4	M4	15	7.5	5g
7.Y00425	PTN-M5	M5	15	7.5	5g
7.Y00652	PTN-M6	M6	15	7.5	5g



PN	Model	A(mm)	B(mm)	C(mm)	Weight
7.Y00653	PTN-M4P8	8	M4	16	5g
7.Y00654	PTN-M5P10	10	M5	20	7g
7.Y00655	PTN-M5P15	15	M5	25	9g
7.Y00656	PTN-M5P17	17	M5	25	9g
7.Y00657	PTN-M5P22	22	M5	32	11g
7.Y00658	PTN-M5P25	25	M5	35	13g
7.Y00659	PTN-M5P28	28	M5	38	14g
7.Y00660	PTN-M5P30	30	M5	40	15g
7.Y00661	PTN-M5P35	35	M5	45	16g
7.Y00662	PTN-M5P40	40	M5	50	18g
7.Y00663	PTN-M5P50	50	M5	60	22g
7.Y00664	PTN-M5P60	60	M5	70	26g
7.Y00665	PTN-M5P90	90	M5	100	38g

Last-Minute Nut

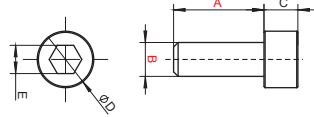


PN	Model	Weight
7.Y00805	PTN-M5R	2g

To be used when you need to add something to an already assembled EOAT.

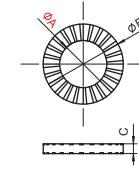


Sus Screws



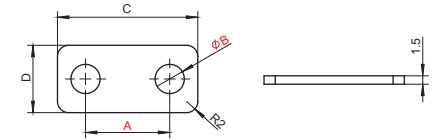
PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	Weight
1.Y03908	PTC-M4L10	10	M4	4	6.8	3.2	1.6g
1.Y03848	PTC-M4L12	12					1.8g
1.Y02752	PTC-M4L14	14					1.9g
1.Y04073	PTC-M4L16	16					2.0g
1.Y05846	PTC-M4L18	18					2.1g
1.Y04000	PTC-M4L20	20					2.2g
1.Y06307	PTC-M4L22	22					2.5g
1.Y05319	PTC-M4L25	25					2.7g
1.Y04294	PTC-M5L10	10	M5	5	8.3	4.1	2.9g
1.Y03850	PTC-M5L12	12					3.1g
1.Y04528	PTC-M5L14	14					3.3g
1.Y03849	PTC-M5L16	16					3.6g
1.Y05925	PTC-M5L18	18					3.8g
1.Y03909	PTC-M5L20	20					4.0g
1.Y06257	PTC-M5L22	22					4.3g
1.Y03851	PTC-M5L25	25					4.7g
1.Y04469	PTC-M5L30	30					5.3g
1.Y04580	PTC-M5L35	35					5.9g
1.Y04898	PTC-M5L40	40					6.5g
1.Y04968	PTC-M5L50	50					7.6g
1.Y05391	PTC-M5L60	60					10.0g
1.Y04288	PTC-M6L10	10	M6	6	10	5.3	4.0g
1.Y03910	PTC-M6L12	12					4.6g
1.Y04153	PTC-M6L14	14					5.2g
1.Y02753	PTC-M6L16	16					5.5g
1.Y07729	PTC-M6L18	18					5.7g
1.Y04076	PTC-M6L20	20					6.1g
1.Y06227	PTC-M6L25	25					6.9g
1.Y04001	PTC-M6L30	30					7.7g
1.Y03911	PTC-M6L35	35					8.6g

Single Hole Shim



PN	Model	A(mm)	B(mm)	C(mm)	Weight
1.Y03853	PTS-M4	4.5	7	0.45	0.07g
1.Y03852	PTS-M5	5.5	9	0.55	0.17g
1.Y03854	PTS-M6	6.5	10	0.65	0.20g

Double Holes Shim



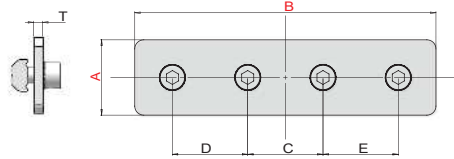
PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	Weight
4.Y00522	PTD-M4P8	8	4.5	16	12	1.8g
4.Y00523	PTD-M5P10	10	5.5	20	12	2.2g
4.Y00524	PTD-M5P15	15	5.5	25	12	2.5g
4.Y00525	PTD-M5P17	17	5.5	25	12	3.0g
4.Y00526	PTD-M5P22	22	5.5	32	12	3.3g
4.Y00527	PTD-M5P25	25	5.5	35	12	3.5g



Straight Fixing Plate



(Kit With Screws Option)



PN	7.Y00641	7.Y00642	7.Y00643
Model	SFP-S2550	SFP-S25100	SFP-S40160
A(mm)	25	25	40
B(mm)	50	100	160
C(mm)	25	25	40
D(mm)	-	25	40
E(mm)	-	25	40
T(mm)	3	3	3
PEP2510	✓	✓	-
PEP2518	✓	✓	-
PEP2525	✓	✓	-
PEP5025	✓	✓	-
PEP4040	-	-	✓
Accessories selection			
Screws	PTC-M5L12*2	PTC-M5L12*4	PTC-M5L12*4
Single hole shim	PTS-M5*2	PTS-M5*4	PTS-M5*4
T-Nuts	PTN-M5*2	PTN-M5P25*2	PTN-M5P40*2
Weight	45g	95g	195g

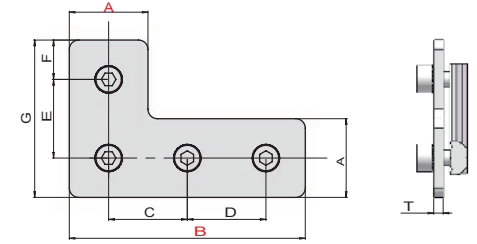
Note: If screw kits needed, add **T** to the part number and model number. eg: Model SFP-S2550 **T** Part number 7.Y00641-**T**.



L-shaped Fixing Plate



(Kit With Screws Option)



PN	7.Y00647	7.Y00648	7.Y00649
Model	SFP-L2550	SFP-L2575	SFP-L40120
A(mm)	25	25	40
B(mm)	50	75	120
C(mm)	25	25	40
D(mm)	-	25	40
E(mm)	25	25	40
F(mm)	12.5	12.5	20
G(mm)	50	50	80
T(mm)	3	3	3
PEP2510	✓	✓	-
PEP2518	✓	✓	-
PEP2525	✓	✓	-
PEP5025	✓	✓	-
PEP4040	-	-	✓

Accessories selection			
Screws	PTC-M5L12*3	PTC-M5L12*4	PTC-M5L12*4
Single hole shim	PTS-M5*3	PTS-M5*4	PTS-M5*4
T-Nuts	PTN-M5*1	PTN-M5P25*2	PTN-M5P40*2
Weight	70g	95g	200g

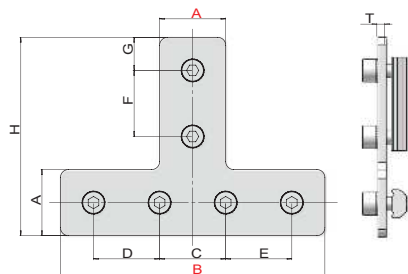
Note: If screw kits needed, add **T** to the part number and model number. eg: Model SFP-L2550 **T** Part number 7.Y00647-**T**.



T-shaped Fixing Plate



(Kit With Screws Option)



PN	7.Y00644	7.Y00645	7.Y00646
Model	SFP-T2550	SFP-T25100	SFP-T40120
A(mm)	25	25	40
B(mm)	50	100	120
C(mm)	25	25	90
D(mm)	-	25	-
E(mm)	-	25	-
F(mm)	25	25	40
G(mm)	12.5	12.5	15
H(mm)	75	75	110
T(mm)	3	3	3
PEP2510	✓	✓	-
PEP2518	✓	✓	-
PEP2525	✓	✓	-
PEP5025	✓	✓	-
PEP4040	-	-	✓
Accessories selection			
Screws	PTC-M5L12*4	PTC-M5L12*6	PTC-M5L12*4
Single hole shim	PTS-M5*4	PTS-M5*6	PTS-M5*4
T-Nuts	PTN-M5P25*2	PTN-M5P25*3	PTN-M5P40*1 PTN-M5P90*1
Weight	95g	145g	250g

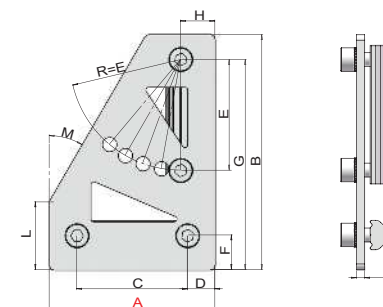
Note: If screw kits needed, add T to the part number and model number. eg: Model SFP-T2550T Part number 7.Y00644-T.



Fixing Plate With Adjustable Angle



(Kit With Screws Option)



PN	7.Y00637	7.Y00638	7.Y00639
Model	SFP-A60	SFP-A90	SFP-A70
A(mm)	60	90	70
B(mm)	85	95	100
C(mm)	40	60	50
D(mm)	10	15	10
E(mm)	40	50	40
F(mm)	12.5	12.5	20
G(mm)	76	86	90
H(mm)	12.5	12.5	20
L(mm)	25	25	40
M(mm)	30°	30°	27°
T(mm)	3	3	3
PEP2510	✓	✓	-
PEP2518	✓	✓	-
PEP2525	✓	✓	-
PEP5025	✓	✓	-
PEP4040	-	-	✓
Accessories selection			
Screws	PTC-M5L12*4	PTC-M5L12*5	PTC-M5L12*4
Single hole shim	PTS-M5*4	PTS-M5*5	PTS-M5*4
T-Nuts	PTN-M5P40*2	PTN-M5P50*1 PTN-M5P60*1 PTN-M5*1	PTN-M5P40*1 PTN-M5P50*1
Weight	130g	215g	175g

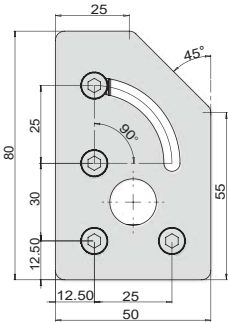
Note: If screw kits needed, add T to the part number and model number. eg: Model SFP-A60T Part number 7.Y00637-T.



Fixing Plate With Adjustable Angle



(Kit With Screws Option)



PN	7.Y00640
Model	SFP-A50
T	3mm
Accessories selection	
Screws	PTC-M5L12*4
Single hole shim	PTS-M5*4
T-Nuts	PTN-M5P25*2
Weight	115g

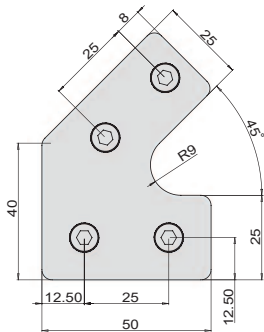
Note: If screw kits needed, add T to the part number and model number. eg: Model SFP-A50T Part number 7.Y00637-T.



45° Fixing Plate



(Kit With Screws Option)



PN	7.Y00636
Model	SFP-50
T	3mm
Accessories selection	
Screws	PTC-M5L12*4
Single hole shim	PTS-M5*4
T-Nuts	PTN-M5P25*2
Weight	100g

Note: If screw kits needed, add T to the part number and model number. eg: Model SFP-50T Part number 7.Y00636-T.



Accessory Components



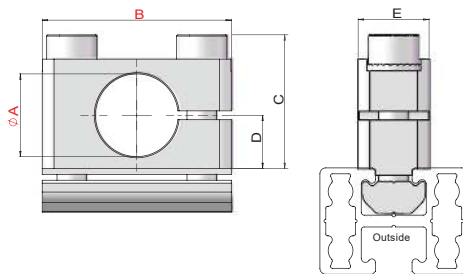
Accessory Components



Cross (Square) Joint Connector



(Kit With Screws Option)



PN	7.Y00296	7.Y00297	7.Y00013	7.Y00226	7.Y00225
Model	SMBC-1025	SMBC-1432	SMBC-2038	SMBC-3050	SMBC-5070
A(mm)	Ø10	Ø14	Ø20	Ø30	Ø50
B(mm)	25	32	38	50	70
C(mm)	18	22	25	34.5	56
D(mm)	6.5	9.25	12.5	17.5	28
E(mm)	10	12	15	20	25
Extruded profile	PEP1818	PEP1818	PEP1818	PEP1818	PEP1818
	PEP2510	PEP2510	PEP2510	PEP2510	PEP2510
	PEP2518	PEP2518	-	-	-
	PEP2525	PEP2525	PEP2525	PEP2525	PEP2525
	PEP5025	PEP5025	PEP5025	PEP5025	PEP5025
	PEP4040	PEP4040	PEP4040	PEP4040	PEP4040
	PEP3030	PEP3030	PEP3030	PEP3030	PEP3030
Accessories selection					
Screws	PTC-M5L20*2	PTC-M5L22*2	PTC-M5L25*2	PTC-M5L35*2	PTC-M5L50*2
Single hole shim	PTS-M5*2	PTS-M5*2	PTS-M5*2	PTS-M5*2	PTS-M5*2
T-Nuts	PTN-M5P17*1	PTN-M5P22*1	PTN-M5P28*1	PTN-M5P40*1	PTN-M5P60*1
Weight	15g	32g	45g	75g	150g

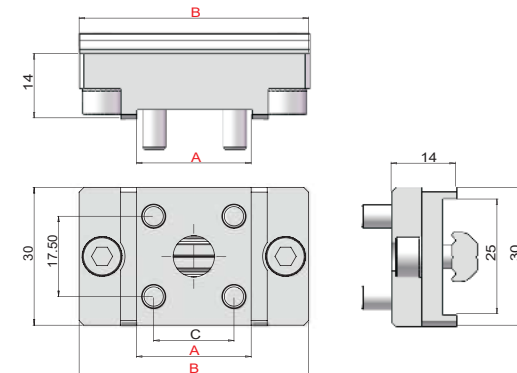
Note: If screw kits needed, add T to the part number and model number. eg: Model SMBC-1025T Part number 7.Y00296-T



Vertical Fastening Of The Profiles



(Kit With Screws Option)



PN	7.Y00227	7.Y00228
Model	SMBD-2550	SMBD-5070
A(mm)	25	50
B(mm)	50	70
C(mm)	17.5	42.5
PEP2525	✓	✓
PEP5025	✓	✓
Accessories selection		
Screws	PTC-M5L12*6	PTC-M5L12*6
Single hole shim	PTS-M5*2	PTS-M5*2
T-Nuts	PTN-M5P40*1	PTN-M5P60*1
Weight	65g	85g

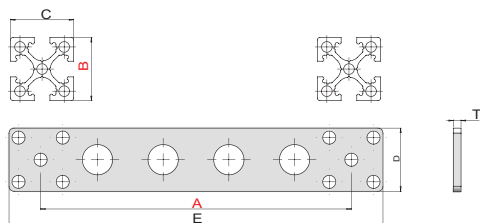
Note: If screw kits needed, add T to the part number and model number. eg: Model SMBD-2550T Part number 7.Y00227-T



Profiles Connector



(Not Including Kit With Screws)



PN	7.Y00426	7.Y00427	7.Y00428	7.Y00429	7.Y00430	7.Y00431
Model	SMBD2-7625	SMBD2-12025	SMBD2-13025	SMBD2-7650	SMBD2-12050	SMBD2-13050
A(mm)	76	120	130	76	120	130
B(mm)	25	25	25	50	50	50
C(mm)	25	25	25	25	25	25
D(mm)	28	28	28	53	53	53
E(mm)	104	148	158	104	148	158
T(mm)	2	2	2	2	2	2
PEP2525	✓	✓	✓	-	-	-
PEP5025	-	-	-	✓	✓	✓
Weight	50g	60g	65g	75g	100g	110g

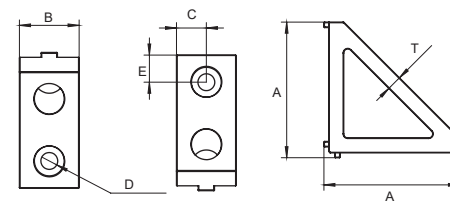


Angle Bracket For Profiles

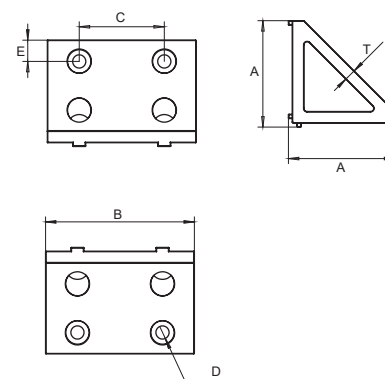
NEW



7.Y00812 7.Y00814



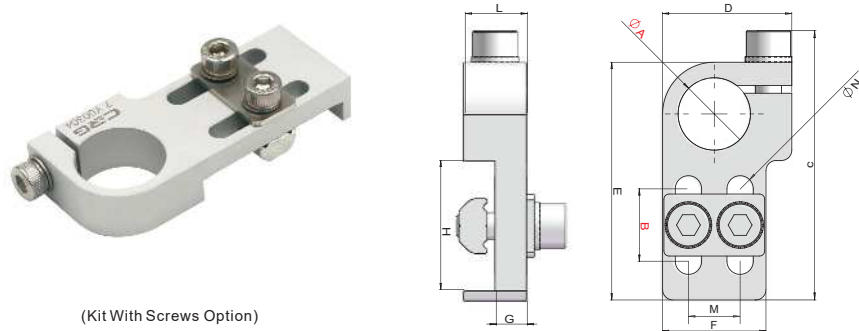
7.Y00813 7.Y00815
(Kit With Screws Option)



PN	7.Y00812	7.Y00813	7.Y00814	7.Y00815
Model	SMBD3-2525	SMBD3-2550	SMBD3-4040	SMBD3-4080
A(mm)	28	28	50	50
B(mm)	18	40	22	70
C(mm)	9	25	11	40
D(mm)	Ø5.2	Ø5.2	Ø6.2	Ø6.2
E(mm)	6	6	10	10
T(mm)	3.2	3.2	5.5	5.5
Extruded profile	PEP1818 PEP2510 PEP2518 PEP2525	PEP2550	PEP4040 PEP4080	PEP4080
Accessories selection				
Screws	PTC-M5L12*2	PTC-M5L12*4	PTC-M6L14*2	PTC-M6L16*4
Single hole shim	PTS-M5*2	PTS-M5*4	PTS-M6*2	PTS-M6*4
T-Nuts	PTN-M5*2	PTN-M5*4	PTN-M6*2	PTN-M6*4
Weight	27g	58g	63g	190g

Note: If screw kits needed, add T to the part number and model number. eg: Model SMBD3-2525 T Part number 7.Y00812-T

Flat Straight Connector



(Kit With Screws Option)

PN	7.Y00300	7.Y00301	7.Y00775	7.Y00864	7.Y00302	7.Y00014	7.Y00304
Model	SMBE-1010	SMBE-1014	SMBE-1210	SMBE-1214	SMBE-1414	SMBE-2014	SMBE-2022
A(mm)	Ø10	Ø10	Ø12	Ø12	Ø14	Ø20	Ø20
B(mm)	10	14	10	14	14	14	22
C(mm)	43	49	43	50	51.50	57	73.50
D(mm)	20	20	20.5	20.5	25	30	30
E(mm)	38	44	38	45	46	51.5	68
F(mm)	16	16	16	16	20	25	25
G(mm)	4.5	4.5	4.5	4.5	6	6	6
H(mm)	18	25	18	25	25	25	40
L(mm)	8	8	8	8	12	12	12
M(mm)	8	8	8	8	10	15	15
N(mm)	Ø4.2	Ø4.2	Ø4.2	Ø4.2	Ø5.2	Ø5.2	Ø5.2
PEP1818	✓	-	✓	-	-	-	-
PEP2510	-	✓	-	✓	✓	✓	-
PEP2518	-	✓	-	-	✓	✓	-
PEP2525	-	✓	-	-	✓	✓	-
PEP5025	-	✓	-	-	✓	✓	-
PEP4040	-	-	-	-	-	-	✓

Accessoir selection

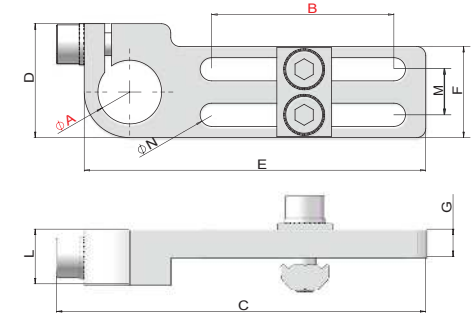
Screws	PTC-M4L14*2	PTC-M4L14*2	PTC-M4L14*3	PTC-M4L14*3	PTC-M5L16*2	PTC-M5L16*2	PTC-M5L16*2
	PTC-M4L12*1	PTC-M4L12*1	-	-	PTC-M5L14*1	PTC-M5L14*1	PTC-M5L14*1
Single hole shim	PTS-M4*3	PTS-M4*3	PTS-M4*3	PTS-M4*3	PTS-M5*3	PTS-M5*3	PTS-M5*3
T-Nuts	PTN-M4P8*1	PTN-M4P8*1	PTN-M4P8*1	PTN-M4P8*1	PTN-M5P10*1	PTN-M5P15*1	PTN-M5P15*1
Double holes shim	PTD-M4P8*1	PTD-M4P8*1	PTD-M4P8*1	PTD-M4P8*1	PTD-M5P10*1	PTD-M5P15*1	PTD-M5P15*1
Weight	20g	21g	22g	10g	34g	45g	48g

Note: If screw kits needed, add T to the part number and model number. eg: Model SMBE-1010T Part number 7.Y00300-T

Mounting Bracket



(Kit With Screws Option)



PN	7.Y00694	7.Y00201	7.Y00695	7.Y00200	7.Y00199	7.Y00015	7.Y00724
Model	SMBE1-0840	SMBE1-1040	SMBE1-1240	SMBE1-1440	SMBE1-1450	SMBE1-2060	SMBE1-3060
A(mm)	Ø8	Ø10	Ø12	Ø14	Ø14	Ø20	Ø30
B(mm)	40	40	40	40	50	60	60
C(mm)	75	75	75	80.50	90.50	110.50	120.50
D(mm)	20	20	20	25	25	30	40
E(mm)	70	70	70	75	85	105	115
F(mm)	16	16	16	20	20	25	35
G(mm)	4.5	4.5	4.5	6	6	6	8
L(mm)	8	8	8	12	12	12	12
M(mm)	8	8	8	10	10	15	22
N(mm)	Ø4.2	Ø4.2	Ø4.2	Ø5.2	Ø5.2	Ø5.2	Ø5.2
PEP1818	✓	✓	✓	✓	✓	✓	✓
PEP2510	✓	✓	✓	✓	✓	✓	✓
PEP2518	✓	✓	✓	✓	✓	✓	✓
PEP2525	✓	✓	✓	✓	✓	✓	✓
PEP5025	✓	✓	✓	✓	✓	✓	✓
PEP4040	-	-	-	✓	✓	✓	✓
PEP3030	✓	✓	✓	✓	✓	✓	✓

Accessoir selection

Screws	PTC-M4L14*2	PTC-M4L14*2	PTC-M4L14*2	PTC-M5L16*2	PTC-M5L16*2	PTC-M5L16*2	PTC-M5L18*2
	PTC-M4L12*1	PTC-M4L12*1	PTC-M4L12*1	PTC-M5L12*1	PTC-M5L12*1	PTC-M5L14*1	PTC-M5L20*1
Single hole shim	PTS-M4*3	PTS-M4*3	PTS-M4*3	PTS-M5*3	PTS-M5*3	PTS-M5*3	PTS-M5*3
T-Nuts	PTN-M4P8*1	PTN-M4P8*1	PTN-M4P8*1	PTN-M5P10*1	PTN-M5P10*1	PTN-M5P15*1	PTN-M5P22*1
Double holes shim	PTD-M4P8*1	PTD-M4P8*1	PTD-M4P8*1	PTD-M5P10*1	PTD-M5P10*1	PTD-M5P15*1	PTD-M5P22*1
Weight	13g	23g	12g	38g	40g	55g	95g

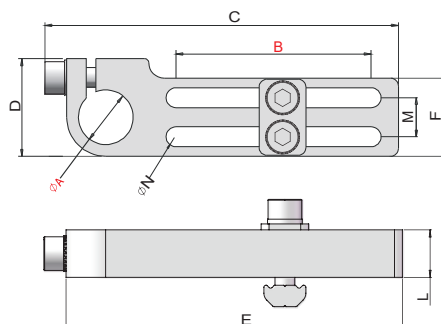
Note: If screw kits needed, add T to the part number and model number. eg: Model SMBE1-0840T Part number 7.Y00694-T



Heavy Duty Mounting Bracket



(Kit With Screws Option)



PN	7.Y00725	7.Y00777	7.Y00307	7.Y00308	7.Y00309
Model	SMBE2-1040	SMBE2-1240	SMBE2-1450	SMBE2-2060	SMBE2-3060
A(mm)	Ø10	Ø12	Ø14	Ø20	Ø30
B(mm)	40	40	50	60	60
C(mm)	75	75	91	111	122
D(mm)	20	20.5	25	30	42
E(mm)	70	70	85	105	115
F(mm)	16	16	20	25	35
L(mm)	8.3	8.3	12	15	20
M(mm)	8	8	10	15	22
N(mm)	Ø4.2	Ø4.2	Ø5.2	Ø5.2	Ø5.2
Accessories selection					
Screws	PTC-M4L18*2 PTC-M4L12*1	PTC-M4L18*2 PTC-M4L12*1	PTC-M5L22*2 PTC-M5L14*1	PTC-M5L25*2 PTC-M5L16*1	PTC-M5L30*2 PTC-M6L20*1
Single hole shim	PTS-M4*3	PTS-M4*3	PTS-M5*3	PTS-M5*3	PTS-M5*2 PTS-M6*1
T-Nuts	PTN-M4P8*1	PTN-M4P8*1	PTN-M5P10*1	PTN-M5P15*1	PTN-M5P22*1
Double holes shim	PTD-M4P8*1	PTD-M4P8*1	PTD-M5P10*1	PTD-M5P15*1	PTD-M5P22*1
Weight	30g	40g	60g	85g	175g

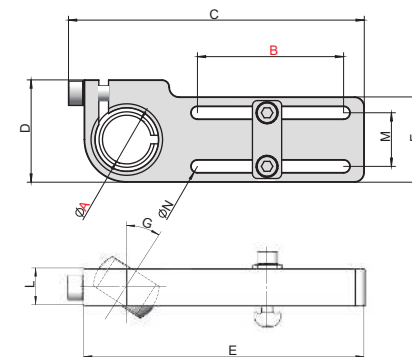
Note: If screw kits needed, add **T** to the part number and model number. eg: Model SMBE2-1040**T** Part number 7.Y00725-**T**



Heavy Duty Fixing Bracket With Ball Joint



(Kit With Screws Option)



PN	7.Y02014	7.Y02015	7.Y02012
Model	SMBE8-1050	SMBE8-1460	SMBE8-2060
A(mm)	Ø10	Ø14	Ø20
B(mm)	50	60	60
C(mm)	89.5	111.5	121.8
D(mm)	25	31	42
E(mm)	85	105	115
F(mm)	20	25	35
G(mm)	0-26°	0-26	0-26
L(mm)	8.3	12	15
M(mm)	10	15	22
Accessories selection			
Screws	PTC-M4L14*1 PTC-M5L18*2	PTC-M5L18*1 PTC-M5L22*2	PTC-M6L18*1 PTC-M5L25*2
Single hole shim	PTS-M5*2 PTS-M4*1	PTS-M5*3	PTS-M5*2 PTS-M6*1
T-Nuts	PTN-M5P10*1	PTN-M5P15*1	PTN-M5P22*1
Double holes shim	PTD-M5P10*1	PTD-M5P15*1	PTD-M5P22*1
Weight	85g	130g	170g

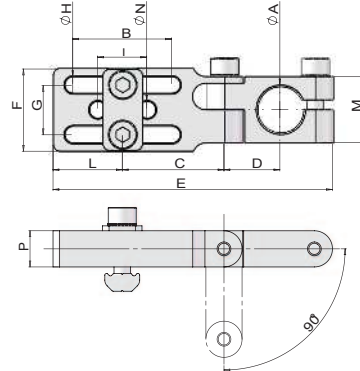
Note: If screw kits needed, add **T** to the part number and model number. eg: Model SMBE8-1040**T** Part number 7.Y02014-**T**



Slotted Angular Bracket



(Kit With Screws Option)



PN	7.Y00341	7.Y00795	7.Y00342	7.Y00343	7.Y02009	7.Y00344
Model	SMBE3-1020	SMBE3-1220	SMBE3-1430	SMBE3-2040	SMBE3-2060	SMBE3-3050
A(mm)	Ø10	Ø12	Ø14	Ø20	Ø20	Ø30
B(mm)	20	20	30	40	60	50
C(mm)	23	23	31	39	68	50
D(mm)	14	14	17	22	22	28
E(mm)	64.5	65.50	85	107	146	135.5
F(mm)	16	16	25	25	25	36
G(mm)	8	8	15	15	15	22
H(mm)	4.2	4.2	5.2	5.2	5.2	5.2
I(mm)	-	-	15	15	15	22
L(mm)	15	15	21	26	36	31
M(mm)	16	16	20	25	25	36
N(mm)	-	-	Ø5.2	Ø5.2	Ø5.2	Ø5.2
P(mm)	9	9	11	13	13	16
Accessoirer selection						
Screws	PTC-M4L18*2 PTC-M4L16*2	PTC-M4L18*2 PTC-M4L16*2	PTC-M5L20*4 -	PTC-M5L22*2 PTC-M5L25*2	PTC-M5L22*2 PTC-M5L25*2	PTC-M5L25*2 PTC-M5L35*2
Single hole shim	PTS-M4*4	PTS-M4*4	PTS-M5*4	PTS-M5*4	PTS-M5*4	PTS-M5*4
T-Nuts	PTN-M4P8*1	PTN-M4P8*1	PTN-M5P15*1	PTN-M5P15*1	PTN-M5P15*1	PTN-M5P22*1
Double holes shim	PTD-M4P8*1	PTD-M4P8*1	PTD-M5P15*1	PTD-M5P15*1	PTD-M5P15*1	PTD-M5P22*1
Weight	30g	35g	50g	90g	117g	185g

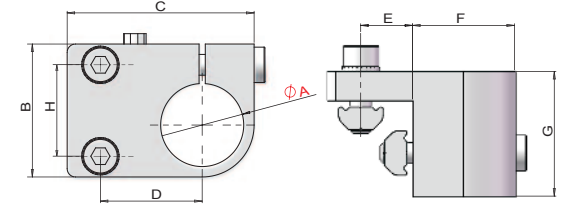
Note: If screw kits needed, add **T** to the part number and model number. eg: Model SMBE3-1020**T** Part number 7.Y00341-**T**



Mounting Bracket



(Kit With Screws Option)



PN	7.Y00224	7.Y00223	7.Y00181	7.Y00222	7.Y00221
Model	SMBE4-1412	SMBE4-2012	SMBE4-2020	SMBE4-3012	SMBE4-3020
A(mm)	Ø14	Ø20	Ø20	Ø30	Ø30
B(mm)	25	32	35	40	45
C(mm)	40	45	54.5	55	65.5
D(mm)	22	24.5	33	29.5	39
E(mm)	12.5	12.5	20	12.5	20
F(mm)	19.5	24.5	26.5	34.5	37.5
G(mm)	25	30	35	30	40
H(mm)	15	22	25	30	35
PEP1818	✓	✓	-	✓	-
PEP2510	✓	✓	-	✓	-
PEP2518	✓	✓	-	✓	-
PEP2525	✓	✓	-	✓	-
PEP5025	✓	✓	-	✓	-
PEP4040	-	-	✓	-	✓
Accessoirer selection					
Screws	PTC-M5L14*2 PTC-M5L25*1	PTC-M5L16*2 PTC-M5L30*1	PTC-M5L16*2 PTC-M5L30*1	PTC-M5L16*2 PTC-M5L35*1	PTC-M5L16*2 PTC-M5L40*1
Single hole shim	PTS-M5*3	PTS-M5*3	PTS-M5*3	PTS-M5*3	PTS-M5*3
T-Nuts	PTN-M5P15*1 PTN-M5*1	PTN-M5P22*1 PTN-M5*1	PTN-M5P25*1 PTN-M5*1	PTN-M5P30*1 PTN-M5*1	PTN-M5P35*1 PTN-M5*1
Weight	50g	70g	95g	90g	150g

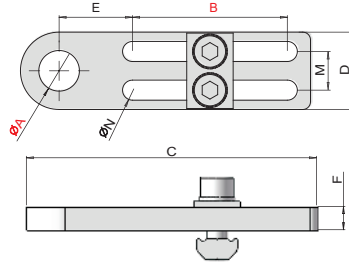
Note: If screw kits needed, add **T** to the part number and model number. eg: Model SMBE4-1412**T** Part number 7.Y00224-**T**



Mounting Bracket



(Kit With Screws Option)



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	M(mm)	N(mm)	Weight
7.Y00310	SMBE5-G1840	G1/8	40	75	20	19	6	10	Ø5.2	25g
7.Y00311	SMBE5-G1860	G1/8	60	105	25	26.5	6	15	Ø5.2	42g
7.Y00312	SMBE5-M1040	M10×1	40	75	20	19	6	10	Ø5.2	30g
7.Y00313	SMBE5-M1060	M10×1	60	105	25	26.5	6	15	Ø5.2	40g
7.Y00314	SMBE5-M1240	M12×1	40	75	20	19	6	10	Ø5.2	30g
7.Y00315	SMBE5-M1260	M12×1	60	105	25	26.5	6	15	Ø5.2	47g
7.Y00316	SMBE5-M1440	M14×1	40	75	20	19	6	10	Ø5.2	20g
7.Y00317	SMBE5-M1460	M14×1	60	105	25	26.5	6	15	Ø5.2	40g
7.Y00320	SMBE5-M1640	M16×1	40	75	20	19	6	10	Ø5.2	20g
7.Y00321	SMBE5-M1660	M16×1	60	105	25	26.5	6	15	Ø5.2	40g
7.Y00322	SMBE5-M2040	M20×1	40	75	25	16.5	6	15	Ø5.2	30g
7.Y00323	SMBE5-M2060	M20×1	60	105	25	26.5	6	15	Ø5.2	35g

Accessories selection

Accessories selection 1		
Screws	PTC-M5L16*2	SMBE5-G1840, SMBE5-M1040, SMBE5-M1240, SMBE5-M1440, SMBE5-M1640
Single hole shim	PTS-M5*2	
T-Nuts	PTN-M5P10*1	
Double holes shim	PTD-M5P10*1	

Accessories selection 2		
Screws	PTC-M5L16*2	SMBE5-G1860, SMBE5-M1060, SMBE5-M1260, SMBE5-M1460, SMBE5-M1660, SMBE5-M2040, SMBE5-M2060
Single hole shim	PTS-M5*2	
T-Nuts	PTN-M5P15*1	
Double holes shim	PTD-M5P15*1	

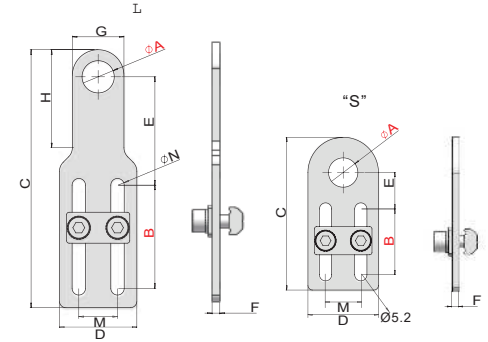
Note: If screw kits needed, add **T** to the part number and model number. eg: Model SMBE5-G1840 **T** Part number 7.Y00310-**T**



Mounting Bracket



(Kit With Screws Option)



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	M(mm)	N(mm)	Weight
7.Y00357	SMBE6-1040	Ø10.5	40	100	30	42.5	3	20	38	15	Ø5.2	60g
7.Y00358	SMBE6-1240	Ø12.5	40	100	30	42.5	3	20	38	15	Ø5.2	60g
7.Y00359	SMBE6-1440	Ø14.5	40	100	30	40.5	3	24	38	15	Ø5.2	60g
7.Y00360	SMBE6-1640	Ø16.5	40	100	30	37.5	3	30	-	15	Ø5.2	65g
7.Y00361	SMBE6-2040	Ø20.5	40	100	30	37.5	3	30	-	15	Ø5.2	60g
7.Y00362	SMBE6-2240	Ø22.5	40	100	30	35	5	35	-	15	Ø5.2	105g
7.Y00363	SMBE6-2540	Ø25.5	40	100	30	35	5	35	-	15	Ø5.2	100g
7.Y00364	SMBE6-1028	Ø10.5	28	65	30	15.5	3	-	-	15	Ø5.2	45g
7.Y00365	SMBE6-1228	Ø12.5	28	65	30	15.5	3	-	-	15	Ø5.2	45g
7.Y00366	SMBE6-1428	Ø14.5	28	65	30	15.5	3	-	-	15	Ø5.2	45g
7.Y00367	SMBE6-1628	Ø16.5	28	65	30	15.5	3	-	-	15	Ø5.2	45g
7.Y00368	SMBE6-2028	Ø20.5	28	65	30	15.5	3	-	-	15	Ø5.2	40g
7.Y00369	SMBE6-2228	Ø22.5	28	70	30	18	5	35	-	15	Ø5.2	75g
7.Y00370	SMBE6-2528	Ø25.5	28	70	30	18	5	35	-	15	Ø5.2	70g

Accessories selection

Accessories selection 1		
Screws	PTC-M5L12*2	SMBE6-1040, SMBE6-1240, SMBE6-1440 SMBE6-1640, SMBE6-2040, SMBE6-1028 SMBE6-1228, SMBE6-1428, SMBE6-1628 SMBE6-2028
Single hole shim	PTS-M5*2	
T-Nuts	PTN-M5P15*1	
Double holes shim	PTD-M5P15*1	

Accessories selection 2		
Screws	PTC-M5L14*2	SMBE6-2240, MBE6-2540 SMBE6-2228, SMBE6-2528
Single hole shim	PTS-M5*2	
T-Nuts	PTN-M5P15*1	
Double holes shim	PTD-M5P15*1	

Note: If screw kits needed, add **T** to the part number and model number. eg: Model SMBE6-1040 **T** Part number 7.Y00357-**T**

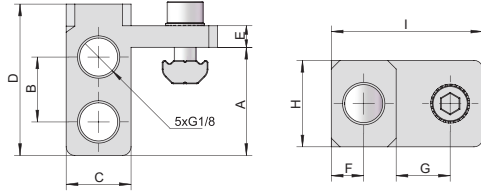


Side Manifold Block

G1/8(x5)



(Kit With Screws Option)



PN	7.Y00229	7.Y01020	7.Y01022
Model	SMB-5G18	SMB1-5G18	SMB2-5G18
A(mm)	25	25	25
B(mm)	15	15	15
C(mm)	15	15	15
D(mm)	35	35	35
E(mm)	5	5	5
F(mm)	7.50	7.50	7.50
G(mm)	12.50	15	20
H(mm)	20	20	20
I(mm)	35	40	45
PEP1818	✓		
PEP2510	✓		
PEP2518	✓		
PEP2525	✓		
PEP5025	✓		
PEP3030		✓	✓
PEP4040			
Accessories selection			
Screws	PTC-M5L14*1	PTC-M5L14*1	PTC-M5L14*1
Single hole shim	PTS-M5*1	PTS-M5*1	PTS-M5*1
T-Nuts	PTN-M5*1	PTN-M5*1	PTN-M5*1
Weight	30g	33g	34g

Note: If screw kits needed, add T to the part number and model number. eg: Model SMB-5G18T Part number 7.Y00229-T

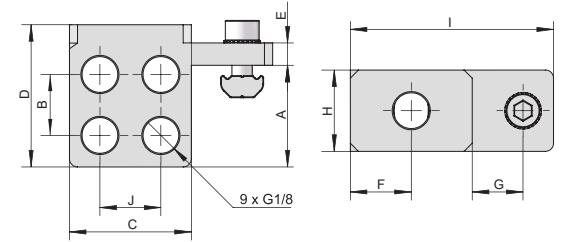


Side Manifold Block

G1/8(x9)



(Kit With Screws Option)



PN	7.Y00231	7.Y01021	7.Y01023
Model	SMB-9G18	SMB1-9G18	SMB2-9G18
A(mm)	25	25	25
B(mm)	15	15	15
C(mm)	30	30	30
D(mm)	35	35	35
E(mm)	5.50	5.50	5.50
F(mm)	15	15	15
G(mm)	12.50	15	20
H(mm)	20	20	20
I(mm)	50	55	60
J(mm)	15	15	15
PEP1818	✓		
PEP2510	✓		
PEP2518	✓		
PEP2525	✓		
PEP5025	✓		
PEP3030		✓	✓
PEP4040			
Accessories selection			
Screws	PTC-M5L14*1	PTC-M5L14*1	PTC-M5L14*1
Single hole shim	PTS-M5*1	PTS-M5*1	PTS-M5*1
T-Nuts	PTN-M5*1	PTN-M5*1	PTN-M5*1
Weight	50g	52g	54g

Note: If screw kits needed, add T to the part number and model number. eg: Model SMB-9G18T Part number 7.Y00231-T

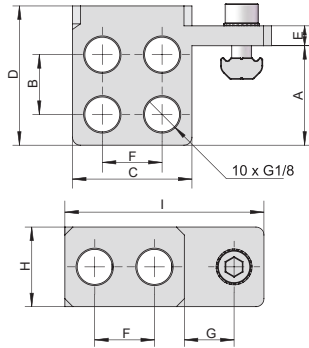


Side Manifold Block

G1/8(5+5)



(Kit With Screws Option)



PN	7.Y00230	7.Y01024	7.Y01025
Model	SMB-D5G18	SMB1-D5G18	SMB2-D5G18
A(mm)	25	25	25
B(mm)	15	15	15
C(mm)	30	30	30
D(mm)	35	35	35
E(mm)	5	5	5
F(mm)	15	15	15
G(mm)	12.50	15	20
H(mm)	20	20	20
I(mm)	50	55	60
PEP1818	✓		
PEP2510	✓		
PEP2518	✓		
PEP2525	✓		
PEP5025	✓	✓	✓
PEP3030			
PEP4040			
Accessories selection			
Screws	PTC-M5L14*1	PTC-M5L14*1	PTC-M5L14*1
Single hole shim	PTS-M5*1	PTS-M5*1	PTS-M5*1
T-Nuts	PTN-M5*1	PTN-M5*1	PTN-M5*1
Weight	48g	51g	52g

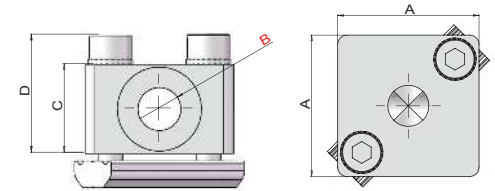
Note: If screw kits needed, add T to the part number and model number. eg: Model SMB-D5G18T Part number 7.Y00230-T



Manifold Block



(Kit With Screws Option)



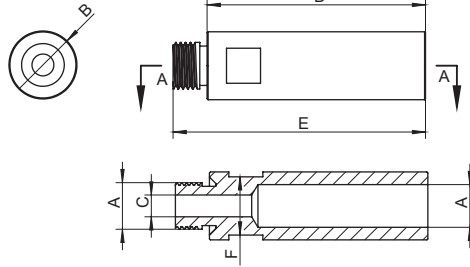
PN	7.Y00240	7.Y00241
Model	SMB-A5G18	SMB-A5G14
A(mm)	30	40
B(mm)	(x5)G1/8	(x5)G1/4
C(mm)	18	20
D(mm)	24	23
Accessories selection		
Screws	PTC-M5L25*2	PTC-M5L25*2
Single hole shim	PTS-M5*2	PTS-M5*2
T-Nuts	PTN-M5P28*1	PTN-M5P35*1
Weight	50g	80g

Note: If screw kits needed, add T to the part number and model number. eg: Model SMB-A5G18T Part number 7.Y00240-T



Extension Tube With Air Lead

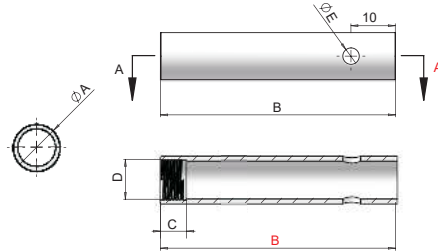
NEW



PN	Model	A	B	C	D	E	F	Weight
7.Y02063	SMBY-1050M5	M5	Ø10	Ø2	45	50	8	7.7g
7.Y02064	SMBY-1095M5	M5	Ø10	Ø2	90	95	8	16.4g
7.Y02065	SMBY-1452G18	G1/8	Ø14	Ø4.5	45	52	12	12.6g
7.Y02066	SMBY-1497G18	G1/8	Ø14	Ø4.5	90	97	12	23.8g
7.Y02067	SMBY-2053G14	G1/4	Ø20	Ø6.5	45	53	17	27.0g
7.Y02068	SMBY-2098G14	G1/4	Ø20	Ø6.5	90	98	17	51.9g

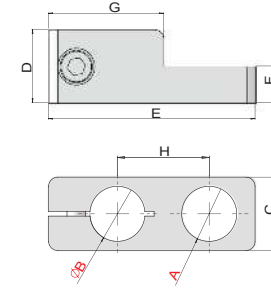
Extension Tube

NEW



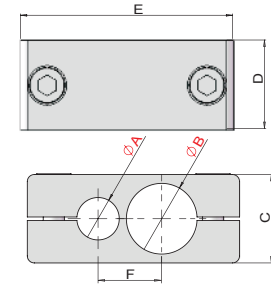
PN	Model	A	B	C	D	E	Weight
7.Y00736	SMBY12-50	Ø12	50	12	M10*1	5	9g
7.Y00735	SMBY12-100	Ø12	100	12	M10*1	5	17g
7.Y00733	SMBY14-50	Ø14	50	12	M12*1	5	10g
7.Y00734	SMBY14-100	Ø14	100	12	M12*1	5	20g
7.Y00732	SMBY20-50	Ø20	50	15	M17*1	8	16g
7.Y00731	SMBY20-100	Ø20	100	15	M17*1	8	31g
7.Y00462	SMBY20-150	Ø20	150	15	M17*1	8	47g
7.Y01027	SMBY25-100	Ø25	100	15	M22*1	8	43g
7.Y00729	SMBY30-50	Ø30	50	18	M27*1	9	29g
7.Y00730	SMBY30-100	Ø30	100	18	M27*1	9	58g
7.Y00463	SMBY30-150	Ø30	150	18	M27*1	9	87g

Connector SSW



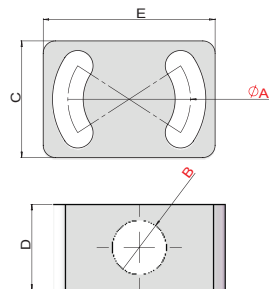
PN	Model	A	B	C	D	E	F	G	H	Weight
7.Y00028	SMBT1-M1412	M14*1	Ø12	16	16	45	8	25	20	16g

Parallel Connector



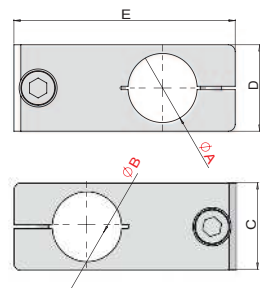
PN	Model	A	B	C	D	E	F	Weight
7.Y00042	SMBP-0808	Ø8	Ø8	12	12	35	10	11g
7.Y00043	SMBP-0812	Ø8	Ø12	16	16	43	12	23g
7.Y00044	SMBP-1212	Ø12	Ø12	16	16	44	14	21g
7.Y00045	SMBP-2012	Ø20	Ø12	25	25	60	18	75g
7.Y00046	SMBP-2020	Ø20	Ø20	25	25	66	24	71g

Swing Block



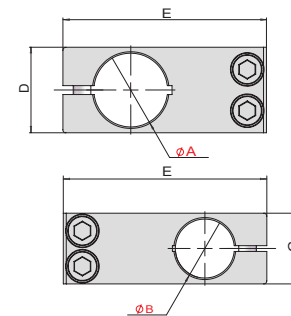
PN	Model	A	B	C	D	E	Weight
7.Y00048	SMBT4-G1820	Ø20	G1/8	19	14	28	11g

Cross Connector



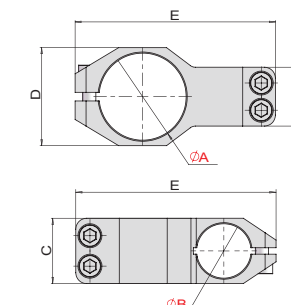
PN	Model	A	B	C	D	E	Weight
7.Y00025	SMBT-0808	Ø8	Ø8	12	12	35	10g
7.Y00026	SMBT-1208	Ø12	Ø8	12	16	43	16g
7.Y00020	SMBT-1212	Ø12	Ø12	16	16	47	22g
7.Y00794	SMBT-1214	Ø12	Ø14	18	18	48	29g
7.Y00027	SMBT-2012	Ø20	Ø12	25	25	59	72g
7.Y00005	SMBT-2020	Ø20	Ø20	25	25	64	68g

Cross Connector



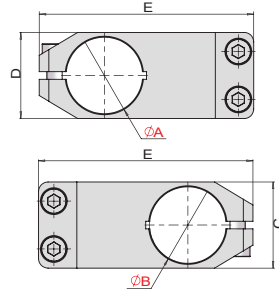
PN	Model	A	B	C	D	E	Weight
7.Y01002	SMBT-1414	Ø14	Ø14	18	18	46	25g
7.Y00998	SMBT-2520	Ø25	Ø20	24	29	69	79g
7.Y00999	SMBT-2525	Ø25	Ø25	30	30	78	114g

Cross Connector



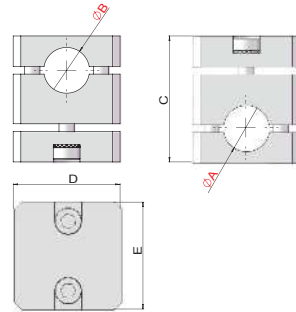
PN	Model	A	B	C	D	E	F	Weight
7.Y01059	SMBT-4020	Ø40	Ø20	25	45	88	27	101g
7.Y01004	SMBT-4025	Ø40	Ø25	30	45	92	27	107g
7.Y02058	SMBT-4030	Ø40	Ø30	35	45	97	32	142g

Cross Connector



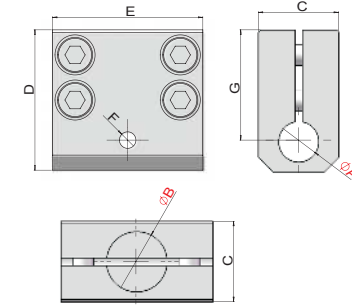
PN	Model	A	B	C	D	E	F	Weight
7.Y01003	SMBT-4040	Ø40	Ø40	45	45	112	112	259g

Cross Connection Block



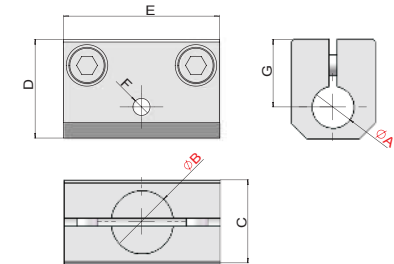
PN	Model	A	B	C	D	E	Weight
7.Y00192	SMBT2-1212	Ø12	Ø12	33	28	28	11g
7.Y00185	SMBT2-2020	Ø20	Ø20	48	42	42	30g
7.Y02020	SMBT2-4040	Ø40	Ø40	91	60	60	393g
7.Y02021	SMBT2-3030	Ø30	Ø30	71	50	50	252g
7.Y02022	SMBT2-2525	Ø25	Ø25	60	43	43	165g
7.Y02025	SMBT2-4025	Ø40	Ø25	75	60	45	271g
7.Y02026	SMBT2-4020	Ø40	Ø20	69	60	40	234g

T Connector



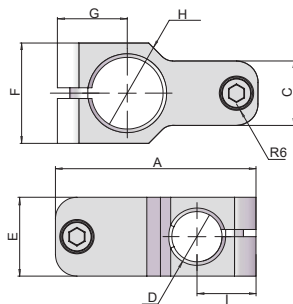
PN	Model	A	B	C	D	E	F	G	Weight
7.Y00036	SMBF1-0808	Ø8	Ø8	12	28	26	M4	22	15g
7.Y00037	SMBF1-0812	Ø8	Ø12	16	28	30	M4	22	31g
7.Y00038	SMBF1-1208	Ø12	Ø8	16	35	30	M4	25	29g
7.Y00003	SMBF1-1212	Ø12	Ø12	16	35	30	M4	25	26g
7.Y00039	SMBF1-1220	Ø12	Ø20	25	44	45	M4	34	88g
7.Y00040	SMBF1-2012	Ø20	Ø12	25	54	45	M4	39	111g
7.Y00041	SMBF1-2020	Ø20	Ø20	25	51.5	45	M4	39	78g

T Connector



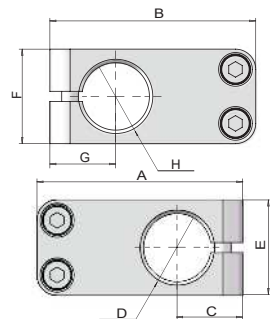
PN	Model	A	B	C	D	E	F	G	Weight
7.Y00029	SMBF-0808	Ø8	Ø8	12	20	30	M4	14	14g
7.Y00030	SMBF-0812	Ø8	Ø12	16	20	30	M4	14	23g
7.Y00031	SMBF-1208	Ø12	Ø8	16	26	30	M4	16	19g
7.Y00032	SMBF-1212	Ø12	Ø12	16	26	30	M4	16	18g
7.Y00033	SMBF-1220	Ø12	Ø20	25	30	45	M4	20	60g
7.Y00034	SMBF-2012	Ø20	Ø12	25	40	45	M4	25	63g
7.Y00035	SMBF-2020	Ø20	Ø20	25	40	45	M4	25	56g

Cross Connection Block



PN	Model	A	C	D	E	F	G	H	I	Weight
7.Y00329	SCD-2010	54	14	Ø10	19	28	19.5	Ø20	14.50	41g
7.Y00330	SCD-2014	56	18	Ø14	22	28	19.5	Ø20	16.50	51g
7.Y01049	SCD-3020	75	18	Ø20	25	35	26	Ø30	20	78g

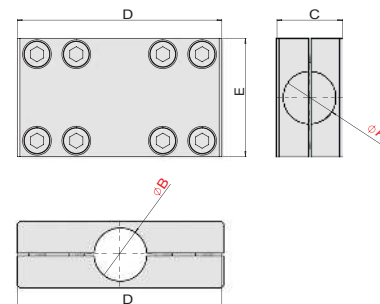
Cross Connection Block



PN	Model	A	B	C	D	E	F	G	H	Weight
7.Y00233	SCD-2020	61	61	19.5	Ø20	28	28	19.5	Ø20	85g
7.Y01050	SCD-3030	84	84	26	Ø30	35	35	26	Ø30	98g

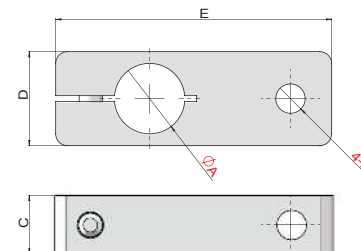


Swing Block#2



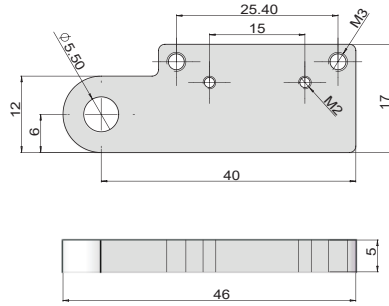
PN	Model	A	B	C	D	E	Weight
7.Y00047	SMBT3-2020	Ø20	Ø20	25	78	45	170g

Suction Bracket

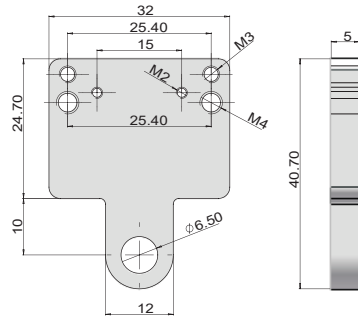


PN	Model	A	B	C	D	E	Weight
7.Y00057	SMBG1-8M5	Ø8	M5	12	12	33	9g
7.Y00058	SMBG1-8M6	Ø8	M6	10	12	33	9g
7.Y00059	SMBG1-12M5	Ø12	M5	10	16	47	16g
7.Y00060	SMBG1-12M6	Ø12	M6	10	16	47	16g
7.Y00061	SMBG1-12G18	Ø12	G1/8	16	16	47	25g

Sensor Bracket

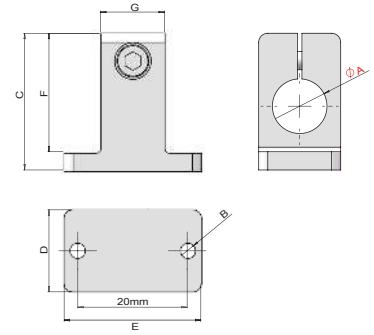


PN	Model	Weight
7.Y00070	SMBJ1-5	9g



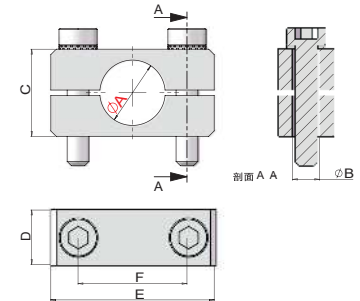
PN	Model	Weight
7.Y00071	SMBJ2-6	12g

Chuck Bracket



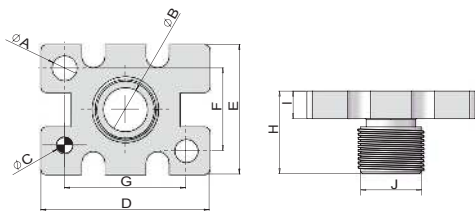
PN	Model	A	B	C	D	E	F	G	Weight
7.Y00072	SMBT5-8	Ø8	M4	25	12	27	22	12	10g
7.Y00073	SMBT5-12	Ø12	M4	30	18	30	26	14	19g

Bracket



PN	Model	A	B	C	D	E	F	Weight
7.Y00074	SMBT6-12	Ø12	Ø6.5	16	16	40	30	35g

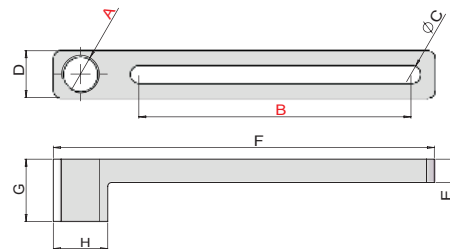
Gripper Installation Bracket



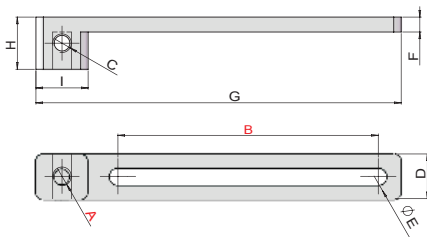
PN	Model	A	B	C	D	E	F	G	H	I	J	Weight
7.Y00740	SMBM-10	Ø3.2	Ø5	Ø2	23	16.4	12	18	14	4	M10*1	5g
7.Y00741	SMBM-16	Ø4.2	Ø6.5	Ø3	30.6	23.6	15	22	15	5	M12*1	10g
7.Y00728	SMBM-20	Ø5.5	Ø6.5	Ø4	42	27.6	18	32	15	5	M12*1	14g
7.Y00739	SMBM-25	Ø6.5	Ø7	Ø5	52	33.6	22	40	18	6	M17*1	27g
7.Y00738	SMBM-32	Ø6.5	Ø10	Ø5	60	40	26	46	18	6	M17*1	36g
7.Y00737	SMBM-40	Ø8.5	Ø16	Ø5	72	48	32	56	20	8	M27*1	67g



Slide Bracket

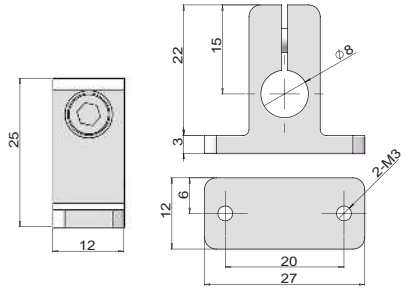


PN	Model	A	B	C	D	E	F	G	H	Weight
7.Y00115	SCF1-40M3	M3	40	4.5	12	5	56	10	8	7g
7.Y00118	SCF1-40G18	G1/8	40	4.5	12	6	68	16	14	12g
7.Y00129	SCF1-70M3	M3	70	4.5	12	5	86	10	8	10g
7.Y00132	SCF1-70G18	G1/8	70	4.5	12	6	98	16	14	15g

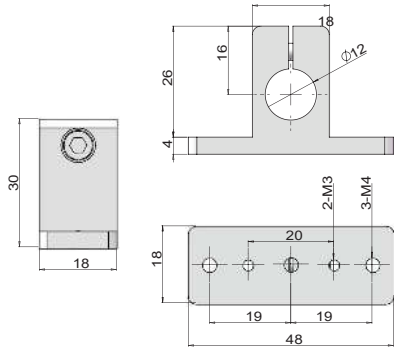


PN	Model	A	B	C	D	E	F	G	H	I	Weight
7.Y00173	SCF2-40M5	M5	40	M5	12	4.5	4	68	14	14	9g
7.Y00117	SCF2-40M6	M6	40	M6	12	4.5	4	68	14	14	10g
7.Y00130	SCF2-70M5	M5	70	M5	12	4.5	4	98	14	14	12g
7.Y00131	SCF2-70M6	M6	70	M6	12	4.5	4	98	14	14	13g

Bracket TV

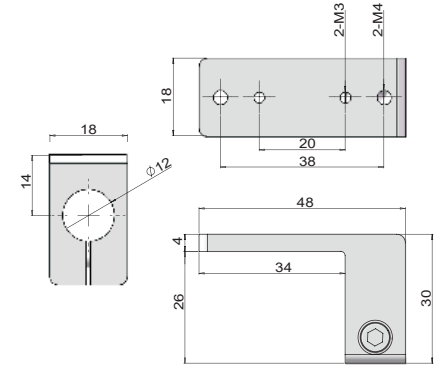


PN	Model	Weight
7.Y00088	SMBU6-8	10g



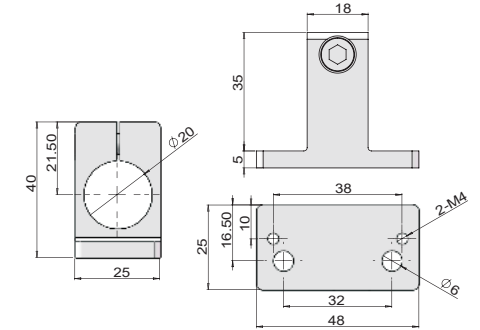
PN	Model	Weight
7.Y00089	SMBU7-12	26g

Bracket L12



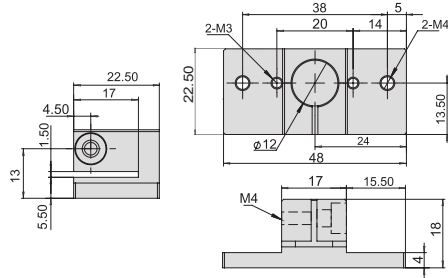
PN	Model	Weight
7.Y00081	SMBT9-12	23g

Bracket TH

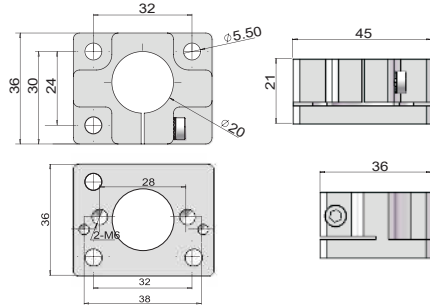


PN	Model	Weight
7.Y00087	SMBU5-20	44g

Bracket T



PN	Model	Weight
7.Y00082	SMBU-12	21g



PN	Model	Weight
7.Y00255	SMBU2-20	49g

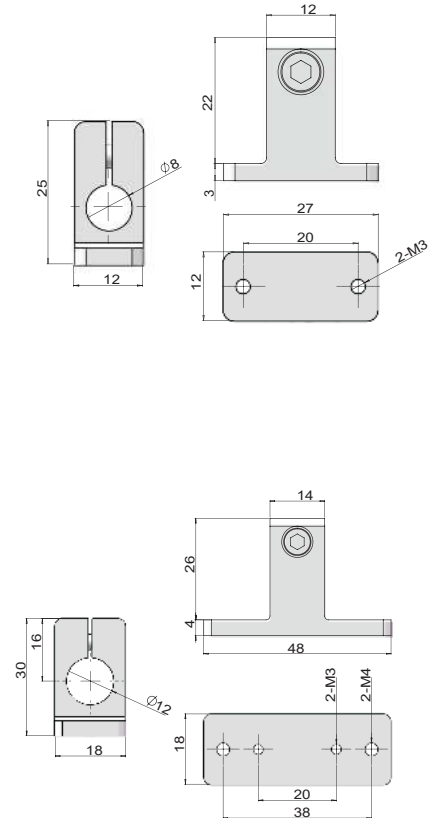
Bracket TH



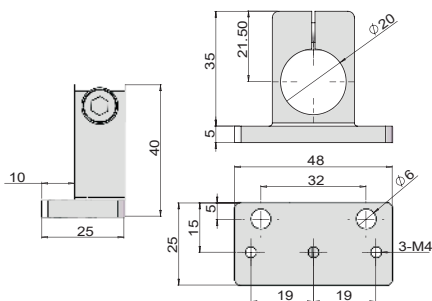
PN	Model	Weight
7.Y00085	SMBU3-8	10g



PN	Model	Weight
7.Y00086	SMBU4-12	22g

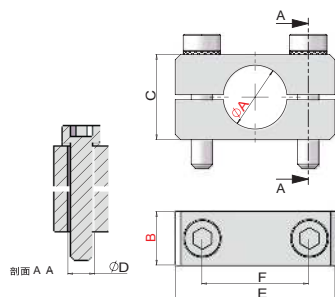


Bracket T



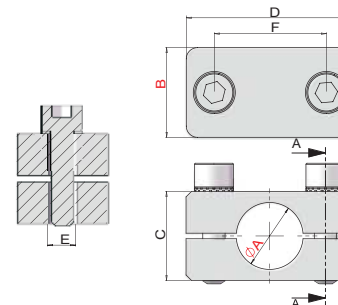
PN	Model	Weight
7.Y00090	SMBU8-20	39g

Bracket



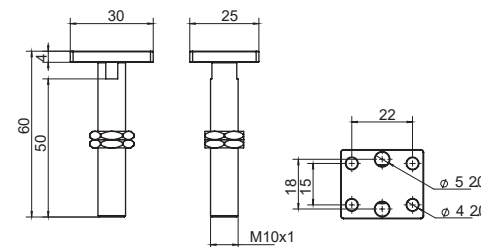
PN	Model	A	B	C	D	E	F	Weight
7.Y00091	SMBK1-8T10	Ø8	10	16	Ø5.5	30	20	20g
7.Y00092	SMBK1-12T10	Ø12	10	16	Ø5.5	30	20	14g
7.Y00093	SMBK1-20T10	Ø20	10	27	Ø6.5	40	30	36g
7.Y00094	SMBK1-8T16	Ø8	16	16	Ø6.5	30	20	32g
7.Y00095	SMBK1-12T16	Ø12	16	16	Ø4.5	30	20	20g
7.Y00096	SMBK1-20T16	Ø20	16	27	Ø6.5	40	30	48g

Slide Bracket



PN	Model	A	B	C	D	E	F	Weight
7.Y00064	SMBS-8T10	Ø8	10	16	30	M4	20	16g
7.Y00065	SMBS-12T10	Ø12	10	16	30	M4	20	15g
7.Y00066	SMBS-20T10	Ø20	10	25	40	M6	30	33g
7.Y00067	SMBS-8T16	Ø8	16	16	30	M6	20	29g
7.Y00001	SMBS-12T16	Ø12	16	16	30	M6	20	29g
7.Y00068	SMBS-20T16	Ø20	16	25	40	M6	30	44g

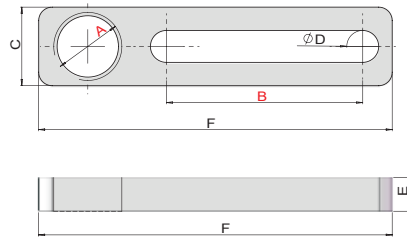
Fixed Bracket



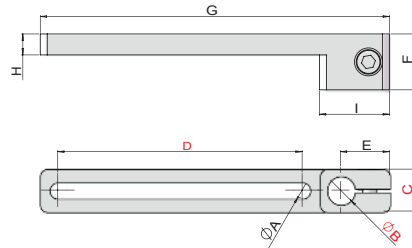
PN	Model	Weight
7.Y01051	SMBU9-M10	21g



Slide Bracket

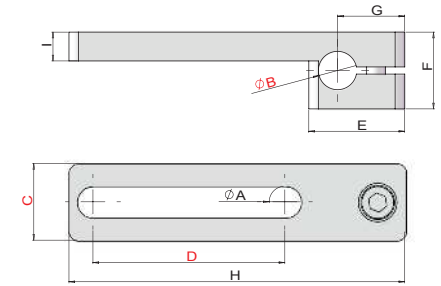


PN	Model	A	B	C	D	E	F	Weight
7.Y00119	SCF3-40M10	M10*1	40	16	6.5	5	70	10g
7.Y00120	SCF3-40M12	M12*1	40	16	6.5	5	72	10g
7.Y00121	SCF3-40M17	M17*1	40	25	6.5	5	80	20g
7.Y00133	SCF3-70M10	M10*1	70	16	6.5	5	100	14g
7.Y00134	SCF3-70M12	M12*1	70	16	6.5	5	102	14g
7.Y00135	SCF3-70M17	M17*1	70	25	6.5	5	110	28g



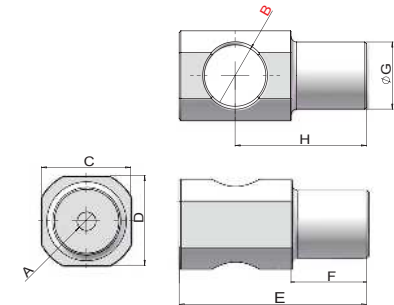
PN	Model	A	B	C	D	E	F	G	H	I	Weight
7.Y00122	SCF4-0840W12	4.5	Ø8	12	40	14	16	70	6	20	14g
7.Y00123	SCF4-0840W16	6.5	Ø8	16	40	14	16	70	6	20	20g
7.Y00004	SCF4-1240W16	6.5	Ø12	16	40	16	16	75	6	25	21g
7.Y00124	SCF4-2040W25	6.5	Ø20	25	40	20	16	86	6	34	39g
7.Y00136	SCF4-0870W12	4.5	Ø8	12	70	14	16	100	6	20	18g
7.Y00137	SCF4-0870W16	6.5	Ø8	16	70	14	16	100	6	20	25g
7.Y00138	SCF4-1270W16	6.5	Ø12	16	70	16	16	105	6	25	25g
7.Y00139	SCF4-2070W25	6.5	Ø20	25	70	20	16	116	6	34	49g

Slide Bracket



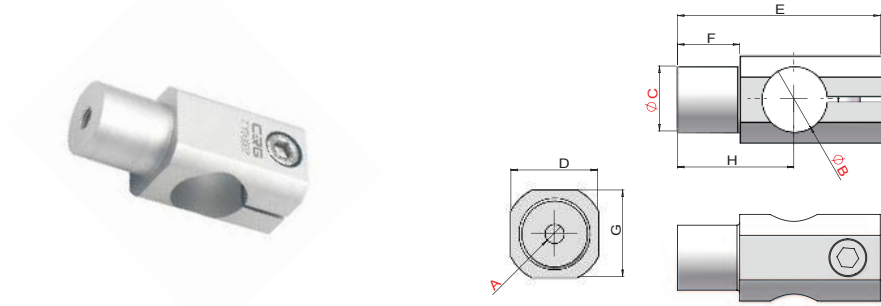
PN	Model	A	B	C	D	E	F	G	H	I	Weight
7.Y00125	SCF5-0840W16	6.5	Ø8	16	40	20	16	14	70	6	20g
7.Y00126	SCF5-0840W12	4.5	Ø8	12	40	20	16	14	70	6	15g
7.Y00127	SCF5-1240W16	6.5	Ø12	16	40	25	16	16	75	6	20g
7.Y00128	SCF5-2040W25	6.5	Ø20	25	40	34	25	20	86	6	53g
7.Y00140	SCF5-0870W16	6.5	Ø8	16	70	20	16	14	100	6	25g
7.Y00141	SCF5-0870W12	4.5	Ø8	12	70	20	16	14	100	6	19g
7.Y00142	SCF5-1270W16	6.5	Ø12	16	70	25	16	16	105	6	25g
7.Y00143	SCF5-2070W25	6.5	Ø20	25	70	34	25	20	116	6	48g

Rotation Bracket

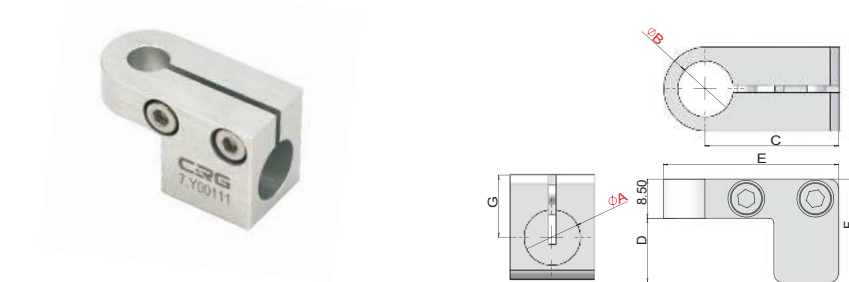


PN	Model	A	B	C	D	E	F	G	H	Weight
7.Y00099	SMBR2-M10	M4	M10	14	14	26.5	11.5	Ø8	19	6g
7.Y00100	SMBR2-M12	M4	M12	16	16	33.5	13.5	Ø12	23.5	12g

Rotation Bracket

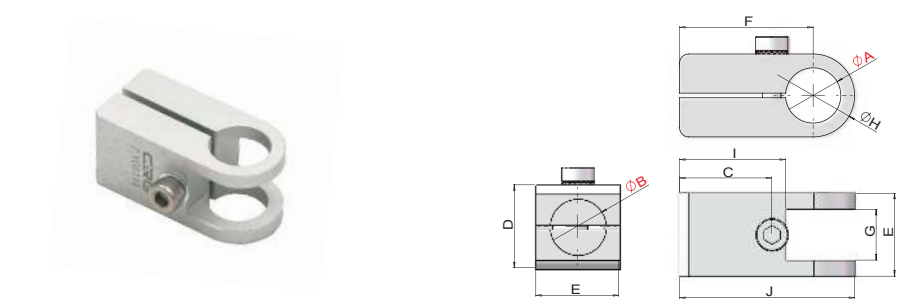


PN	Model	A	B	C	D	E	F	G	H	Weight
7.Y00103	SMBR4-0808M4	M4	Ø8	Ø8	12	32.5	11.5	12	17.5	7g
7.Y00110	SMBR4-1208M4	M4	Ø12	Ø8	16	37.5	11.5	16	21.5	13g
7.Y00019	SMBR4-1212M4	M4	Ø12	Ø12	16	39.5	13.5	16	23.5	15g
7.Y00268	SMBR4-1212M4L	M4	Ø12	Ø12	16	55	29	16	39	20g
7.Y00461	SMBR4-1420M6	M6	Ø14	Ø20	25	60	20	25	37	70g
7.Y00007	SMBR4-2020M6	M6	Ø20	Ø20	25	60	20	25	37	59g
7.Y00206	SMBR4-2020M6L	M6	Ø20	Ø20	25	85	45	25	62	81g

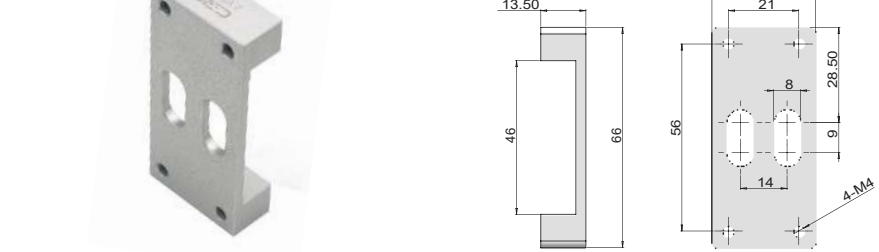


PN	Model	A	B	C	D	E	F	G	Weight
7.Y00111	SMBR5-1208	Ø12	Ø8	29	14	38	22.5	13.5	24g
7.Y00104	SMBR5-0808	Ø8	Ø8	29	11.5	36	20	13	16g
7.Y00112	SMBR5-1212	Ø12	Ø12	29	14	38	22.5	13.5	18g

Rotation Bracket

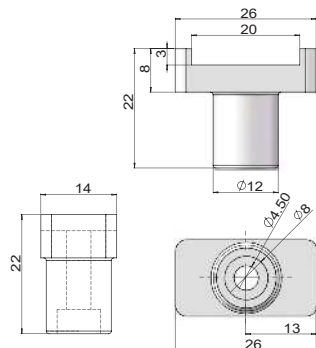


PN	Model	A	B	C	D	E	F	G	H	I	J	Weight
7.Y00113	SMBR7-0808	Ø8	Ø8	16	15	15	25	10	15	21	32.5	13g
7.Y00114	SMBR7-1212	Ø12	Ø12	20	18	18	29	11	18	23	38	18g



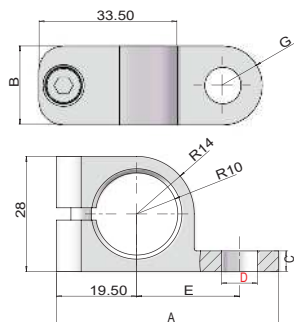
PN	Model	Weight
7.Y00063	SMBR-46	31g

Rotation Bracket



PN	Model	Weight
7.Y00098	SMBR1-12	9g

Swivelling Support



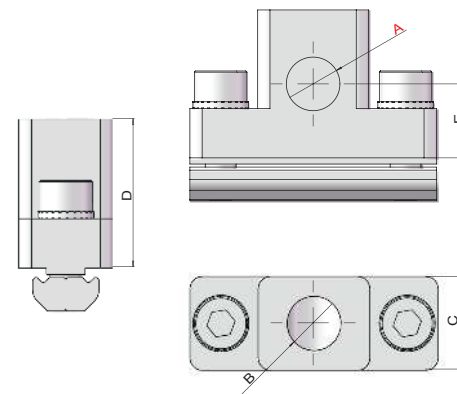
PN	7.Y00236	7.Y00234
Model	SCC-20G18	SCC-20M16
A(mm)	54	60.5
B(mm)	19	24
C(mm)	5	6
D(mm)	G1/8	M16×1
E(mm)	25	29
G(mm)	R9.5	R12
Weight	30g	40g



Direct Connector For Vacuum Cup



(Kit With Screws ptdo)



PN	7.Y00235	7.Y00237
Model	SVA-G18	SVA-G14
A(mm)	G1/8	G1/4
B(mm)	G1/8	G1/8
C(mm)	15	15
D(mm)	24	24
E(mm)	12	10
PEP2518	✓	✓
PEP2525	✓	✓
PEP5025	✓	✓
PEP4040	✓	✓
PEP3030	✓	✓
Accessories selection		
Screws	PTC-M5L16*2	PTC-M5L16*2
Single hole shim	PTS-M5*2	PTS-M5*2
T-Nuts	PTN-M5P30*1	PTN-M5P30*1
Weight	42g	40g

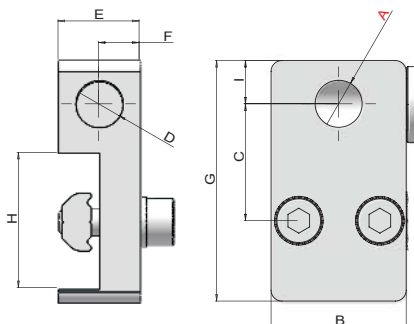
Note: If screw kits needed, add T to the part number and model number. eg: Model SVA-G18 T Part number 7.Y00235-T



Direct Connector For Vacuum Cup



(Kit With Screws Option)



PN	7.Y00242	7.Y00244	7.Y00243
Model	SVB-M5	SVB-G18	SVB-G14
A(mm)	M5	G1/8	G1/4
B(mm)	16	25	25
C(mm)	13.5	21.5	21.5
D(mm)	M5	G1/8	G1/8
E(mm)	8	15	15
F(mm)	4	7.5	7.5
G(mm)	29	44.5	46.5
H(mm)	18	25	25
I (mm)	4.3	8	10
PEP2518	-	✓	✓
PEP2525	-	✓	✓
PEP5025	-	✓	✓
Accessories selection			
Screws	PTC-M4L12*2	PTC-M5L16*2	PTC-M5L16*2
Single hole shim	PTS-M4*2	PTS-M5*2	PTS-M5*2
T-Nuts	PTN-M4P8*1	PTN-M5P15*1	PTN-M5P15*1
Weight	15g	45g	45g

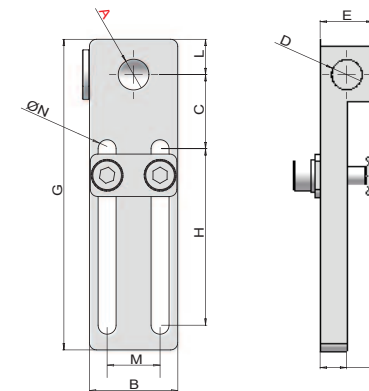
Note: If screw kits needed, add T to the part number and model number. eg: Model SVB-M5T Part number 7.Y00242-T



Mounting Bracket For Vacuum Cup



(Kit With Screws Option)



PN	7.Y00328	7.Y00238	7.Y00239
Model	SVC-M5	SVC-G18	SVC-G14
A(mm)	M5	G1/8	G1/4
B(mm)	16	25	25
C(mm)	14	21	21
D(mm)	M5	G1/8	G1/8
E(mm)	8	15	15
F(mm)	4	7.5	7.5
G(mm)	65	88	88
H(mm)	40	50	50
L(mm)	6	10	10
M(mm)	8	15	15
N(mm)	Ø4.2	Ø5.2	Ø5.2
PEP2518	✓	✓	✓
PEP2525	✓	✓	✓
PEP5025	✓	✓	✓
PEP4040	-	✓	✓
PEP3030	✓	✓	✓
Accessories selection			
Screws	PTC-M4L14*2	PTC-M5L16*2	PTC-M5L16*2
Single hole shim	PTS-M4*2	PTS-M5*2	PTS-M5*2
T-Nuts	PTN-M4P8*1	PTN-M5P15*1	PTN-M5P15*1
Double holes shim	PTD-M4P8*1	PTD-M5P15*1	PTD-M5P15*1
Weight	20g	60g	60g

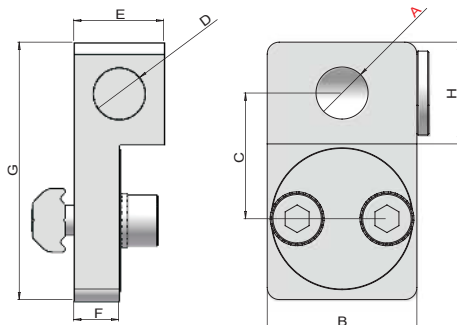
Note: If screw kits needed, add T to the part number and model number. eg: Model SVC-M5T Part number 7.Y00328-T



Mounting Bracket For Vacuum Cup



(Kit With Screws Option)

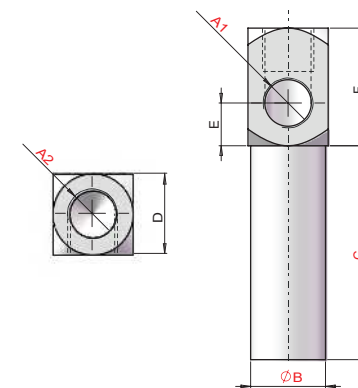


PN	7.Y00416	7.Y00417	7.Y00418
Model	SVD-M5	SVD-G18	SVD-G14
A(mm)	M5	G1/8	G1/4
B(mm)	16	25	25
C(mm)	13	21	21
D(mm)	M5	G1/8	G1/8
E(mm)	10	15	15
F(mm)	5	7.5	7.5
G(mm)	28	43	43
H(mm)	10	17	17
PEP2518	✓	✓	✓
PEP2525	✓	✓	✓
PEP5025	✓	✓	✓
PEP4040	-	✓	✓
PEP3030	✓	✓	✓
Accessories selection			
Screws	PTC-M4L12*2	PTC-M5L16*2	PTC-M5L16*2
Single hole shim	PTS-M4*2	PTS-M5*2	PTS-M5*2
T-Nuts	PTN-M4P8*1	PTN-M5P15*1	PTN-M5P15*1
Weight	15g	45g	42g

Note: If screw kits needed, add **T** to the part number and model number. eg: Model SVD-M5T Part number 7.Y00416-T



Leg For Vacuum Cup



PN	Model	A1(mm)	A2(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	Weight
7.Y00410	SVE-M51030	M5	M5	Ø10	30	11	6	16	10g
7.Y00411	SVE-M51060	M5	M5	Ø10	60	11	6	16	13g
7.Y00412	SVE-M51090	M5	M5	Ø10	90	11	6	16	17g
7.Y00772	SVE-M51230	M5	M5	Ø12	30	13	7	17	12g
7.Y00773	SVE-M51260	M5	M5	Ø12	60	13	7	17	15g
7.Y00774	SVE-M51290	M5	M5	Ø12	90	13	7	17	19g
7.Y00413	SVE-G181440	G1/8	G1/8	Ø14	40	15	8	22	17g
7.Y00414	SVE-G181480	G1/8	G1/8	Ø14	80	15	8	22	25g
7.Y00415	SVE-G1814120	G1/8	G1/8	Ø14	120	15	8	22	32g
7.Y00008	SVE-G142050	G1/8	G1/4	Ø20	50	20	8	23	40g
7.Y00009	SVE-G1420100	G1/8	G1/4	Ø20	100	20	8	23	60g
7.Y00010	SVE-G1420150	G1/8	G1/4	Ø20	150	20	8	23	75g



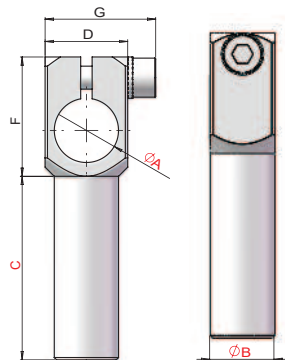
Clamp Leg



Clamp Leg
(SCA1)



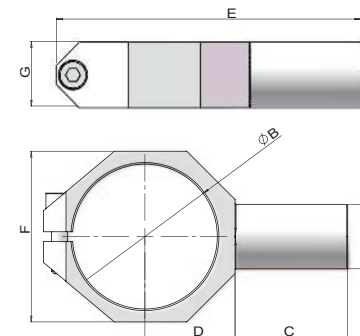
Heavy Clamp Leg
(SCA2)



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	F(mm)	G(mm)	Weight
7.Y00398	SCA1-1010L30	Ø10	Ø10	30	14	19	19	10g
7.Y00399	SCA1-1010L60	Ø10	Ø10	60	14	19	19	15g
7.Y00400	SCA1-1010L90	Ø10	Ø10	90	14	19	19	20g
7.Y00769	SCA1-1212L30	Ø12	Ø12	30	19	21	21	13g
7.Y00770	SCA1-1212L60	Ø12	Ø12	60	19	21	21	18g
7.Y00771	SCA1-1212L90	Ø12	Ø12	90	19	21	21	23g
7.Y00401	SCA1-1414L40	Ø14	Ø14	40	18	26	24	20g
7.Y00402	SCA1-1414L80	Ø14	Ø14	80	18	26	24	30g
7.Y00403	SCA1-1414L120	Ø14	Ø14	120	18	26	24	40g
7.Y00404	SCA1-2020L50	Ø20	Ø20	50	25	32	31	45g
7.Y00405	SCA1-2020L100	Ø20	Ø20	100	25	32	31	70g
7.Y00406	SCA1-2020L150	Ø20	Ø20	150	25	32	31	105g
7.Y00407	SCA1-3030L80	Ø30	Ø30	80	40	44	46	170g
7.Y00408	SCA1-3030L140	Ø30	Ø30	140	40	44	46	230g
7.Y00409	SCA1-3030L200	Ø30	Ø30	200	40	44	46	300g
7.Y00996	SCA2-2020L50	Ø20	Ø20	50	25	32	31	65g
7.Y01000	SCA2-2020L100	Ø20	Ø20	100	25	32	31	86g
7.Y00997	SCA2-2020L150	Ø20	Ø20	150	25	32	31	101g
7.Y02030	SCA2-2525L50	Ø25	Ø25	50	30	38	36	102g
7.Y02031	SCA2-2525L100	Ø25	Ø25	100	30	38	36	131g
7.Y02032	SCA2-2525L150	Ø25	Ø25	150	30	38	36	163g
7.Y01006	SCA2-3030L80	Ø30	Ø30	80	35	43	42	209g
7.Y01005	SCA2-3030L140	Ø30	Ø30	140	35	43	42	288g
7.Y01001	SCA2-3030L200	Ø30	Ø30	200	35	43	42	344g



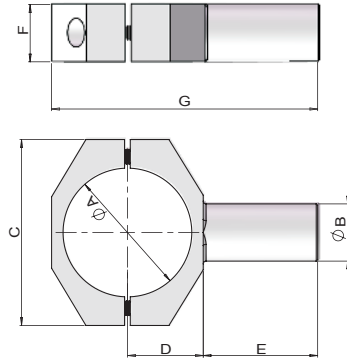
NR Nipper Mounting Bracket



PN	7.Y00470	7.Y00331	7.Y00261	7.Y00742
Model	SCE-NR10	SCE-NR20	SCE-NR30	SCE-NR50
A(mm)	Ø14	Ø20	Ø20	Ø30
B(mm)	Ø36	Ø45	Ø56	Ø75
C(mm)	255	35	40	48
D(mm)	22	28	33	41
E(mm)	72	94.5	111	138
F(mm)	43	53	65	83
G(mm)	15	20	25	40
Weight	29.7g	65g	110g	308g



NS Nipper Mounting Bracket



PN	7.Y00692	7.Y00693
Model	SCE1-NS20	SCE1-NS30
A(mm)	Ø45	Ø56
B(mm)	Ø20	Ø20
C(mm)	65	76
D(mm)	27	33
E(mm)	40	40
F(mm)	20	25
G(mm)	94	106
Weight	111g	123g



NY05 Fixing Block

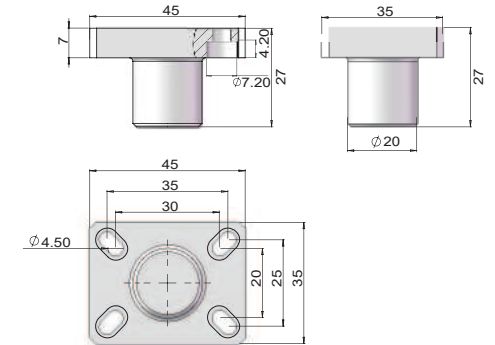
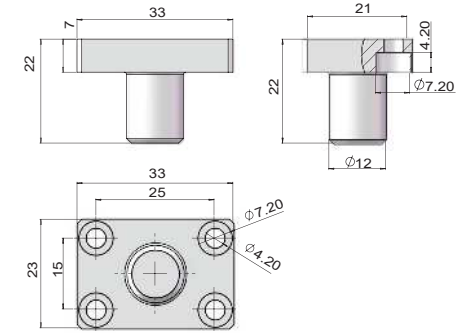


PN	Model	Weight
7.Y00796	SCE2-05	17g

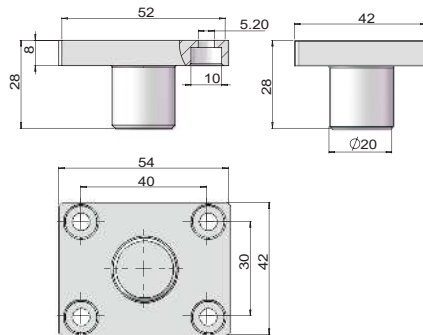
NY10/15 Fixing Block



PN	Model	Weight
7.Y00094	SCE2-1015	38g



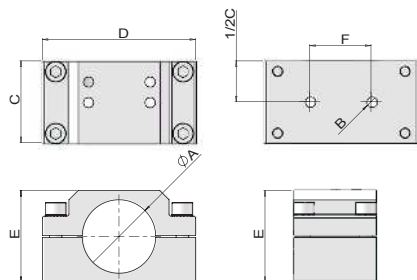
NY25 Fixing Block



PN	Model	Weight
7.Y00633	SCE2-25	61g



Nipper Bracket



PN	Model	A	B	C	D	E	F	Weight
7.Y00075	SCE3-N10	Ø36	M6	40	75	45	30	246g
7.Y00076	SCE3-N20	Ø45	M6	40	75	53	30	228g
7.Y00077	SCE3-N30	Ø56	M6	40	86	63	30	267g

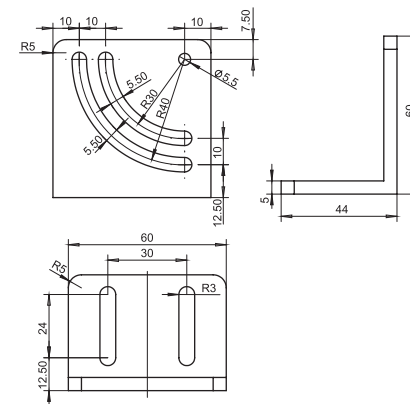


Air Cut Bracket

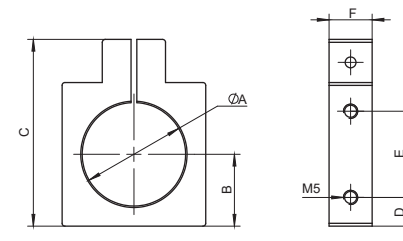


PN	7.Y00868
Model	SCE4-NR(L,R)

※L,R Use together
※GT-N Use
※Weight: 65.5g

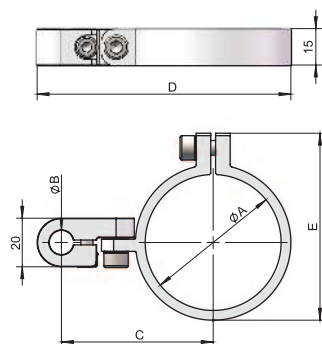


Air Cut fixation



PN	Model	A	B	C	D	E	F	Weight
7.Y00146	SCE4-NR30	56	35	85	10	40	15	111g
7.Y00147	SCE4-NR20	45	30	75	10	40	15	93g
7.Y00148	SCE4-NR10	36	25	65	10	30	15	72g

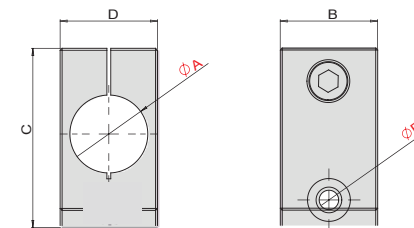
Adjustable Nipper Mounting Clamps



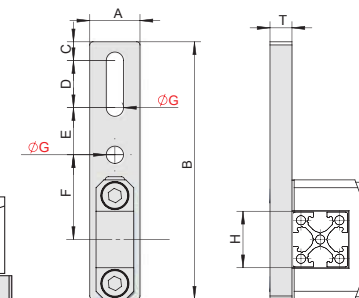
PN	Model	A	B	C	D	E	Weight
7.Y00946	SCE-NR20-D10	Ø45	Ø10	56.5	93	65	57.5
7.Y00947	SCE-NR20-D12	Ø45	Ø12	56.5	93	65	55.5
7.Y00948	SCE-NR30-D10	Ø56	Ø10	62.5	104.5	77	67.5
7.Y00949	SCE-NR30-D12	Ø56	Ø12	62.5	104.5	77	65.5



Access Robot Bracket



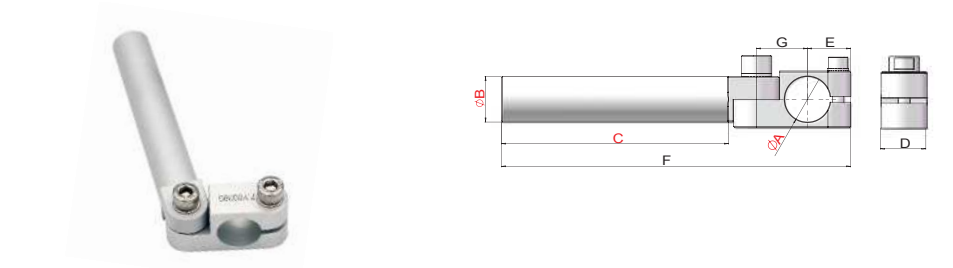
PN	Model	A	B	C	D	E	Weight
7.Y00051	SMBH1-8M5	Ø8	14	35	12	Ø5.5	15g
7.Y00052	SMBH1-8M6	Ø8	14	35	12	Ø6.5	12g
7.Y00053	SMBH1-12M5	Ø12	20	39	16	Ø5.5	30g
7.Y00002	SMBH1-12M6	Ø12	20	39	16	Ø6.5	25g
7.Y00054	SMBH1-12M8	Ø12	20	45	25	Ø9	42g
7.Y00055	SMBH1-20M6	Ø20	20	50	25	Ø6.5	48g
7.Y00056	SMBH1-20M8	Ø20	20	50	25	Ø9	51g



PN	Model	A	B	C	D	E	F	G	H	T	Weight
7.Y00869	SMBE7-18M5	16	82	6	15	15	27	Ø5.5	18	7	20.5g
7.Y00870	SMBE7-18M6	16	82	6	15	15	27	Ø6.5	18	7	20g
7.Y00871	SMBE7-25M5	16	90	7	15	15	30.5	Ø5.5	25	7	22.5g
7.Y00872	SMBE7-25M6	16	90	7	15	15	30.5	Ø6.5	25	7	22g



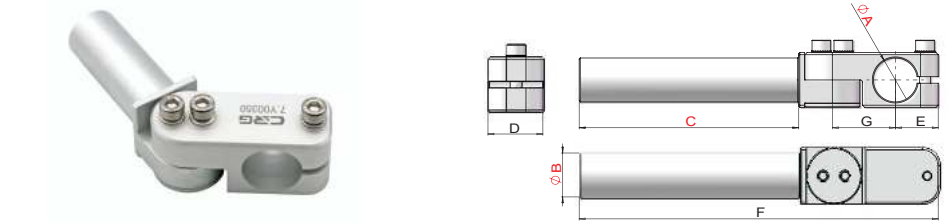
Elbow Arm



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	Weight
7.Y00388	SEA-1010L60	Ø10	Ø10	60	10	13	93	12.5	20g
7.Y00776	SEA-1212L60	Ø12	Ø12	60	12	15	98	14.5	22g
7.Y00389	SEA-1414L40	Ø14	Ø14	40	14	16	82	16.5	32g
7.Y00390	SEA-1414L80	Ø14	Ø14	80	14	16	122	16.5	42g
7.Y00391	SEA-1414L120	Ø14	Ø14	120	14	16	162	16.5	50g
7.Y00392	SEA-2020L50	Ø20	Ø20	50	20	19	104	22.5	70g
7.Y00393	SEA-2020L100	Ø20	Ø20	100	20	19	154	22.5	90g
7.Y00394	SEA-2020L150	Ø20	Ø20	150	20	19	204	22.5	120g
7.Y00395	SEA-3030L80	Ø30	Ø30	80	30	27	160	34.8	235g
7.Y00396	SEA-3030L140	Ø30	Ø30	140	30	27	220	34.8	300g
7.Y00397	SEA-3030L200	Ø30	Ø30	200	30	27	280	34.8	360g



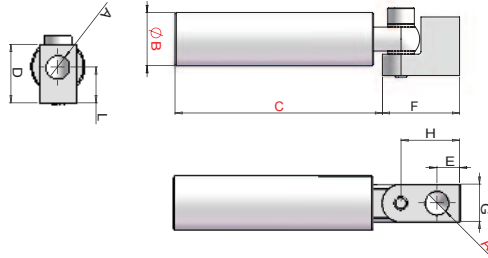
Heavy Duty Elbow Arm



PN	7.Y00350	7.Y00351	7.Y00166	7.Y00352	7.Y00353	7.Y00354
Model	SEAH-2020L50	SEAH-2020L100	SEAH-2020L150	SEAH-3030L80	SEAH-3030L140	SEAH-3030L200
A(mm)	Ø20	Ø20	Ø20	Ø30	Ø30	Ø30
B(mm)	Ø20	Ø20	Ø20	Ø30	Ø30	Ø30
C(mm)	50	100	150	80	140	200
D(mm)	25	25	25	35	35	35
E(mm)	19.5	19.5	19.5	27.3	27.3	27.3
F(mm)	113.5	163.5	213.5	168.5	228.5	288.5
G(mm)	28.7	28.7	28.7	40.7	40.7	40.7
Weight	95g	115g	130g	330g	380g	435g



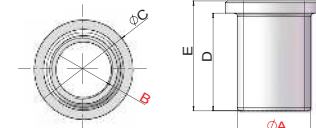
Elbow Arm For Vacuum Cup



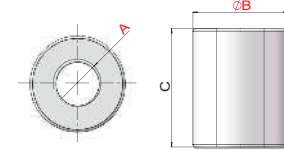
PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	L(mm)	Weight
7.Y00432	SEAV-M510L45	M5	Ø10	45	16.5	5.5	19	10	14	11	18g
7.Y00433	SEAV-M510L90	M5	Ø10	90	16.5	5.5	19	10	14	11	27g
7.Y00258	SEAV-G1814L60	G1/8	Ø14	60	22	8.5	29	14	22	13.5	33g
7.Y00434	SEAV-G1814L120	G1/8	Ø14	120	22	8.5	29	14	22	13.5	50g
7.Y00435	SEAV-G1820L78	G1/8	Ø20	78	22	8.5	29	14	22	13.5	60g
7.Y00247	SEAV-G1820L153	G1/8	Ø20	153	22	8.5	29	14	22	13.5	100g
7.Y00436	SEAV-G1420L75	G1/4	Ø20	75	27	12	38	20	28	15	75g
7.Y00437	SEAV-G1420L150	G1/4	Ø20	150	27	12	38	20	28	15	115g



Bush Nut

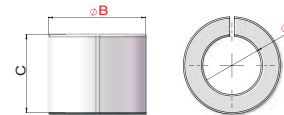


PN	Model	A	B	C	D	E	Weight
7.Y00271	SBNA-8M5	Ø8	M5x0.8	Ø12	8	10	1g
7.Y00272	SBNA-8M6	Ø8	M6x1.0	Ø12	8	10	1g
7.Y00273	SBNA-12M5	Ø12	M5x0.8	Ø16	16	18	5g
7.Y00274	SBNA-12M10	Ø12	M10x1.0	Ø16	16	18	3g
7.Y00276	SBNA-20M12	Ø20	M12x1.0	Ø24	16	18	11g
7.Y00277	SBNA-20M17	Ø20	M17x1.0	Ø24	16	18	5g



PN	Model	A	B	C	Weight
7.Y00275	SBNB-12PT18	PT1/8	Ø12	16	2g
7.Y00278	SBNB-20PT18	PT1/8	Ø20	25	17g

Bush



PN	Model	A	B	C	Weight
7.Y00280	SBND-1208	Ø8	Ø12	16	6g
7.Y00281	SBND-2012	Ø12	Ø20	16	9g
7.Y00282	SBND-2008	Ø8	Ø20	16	11g

|| A Quick Changer Device At The End Of A Robot

Product Advantages

High-precision

The piston adjusting gripper side play the role of positioning, which provides high repeat positioning accuracy. One million cycle tests show that the actual accuracy is much higher than the recommended value.

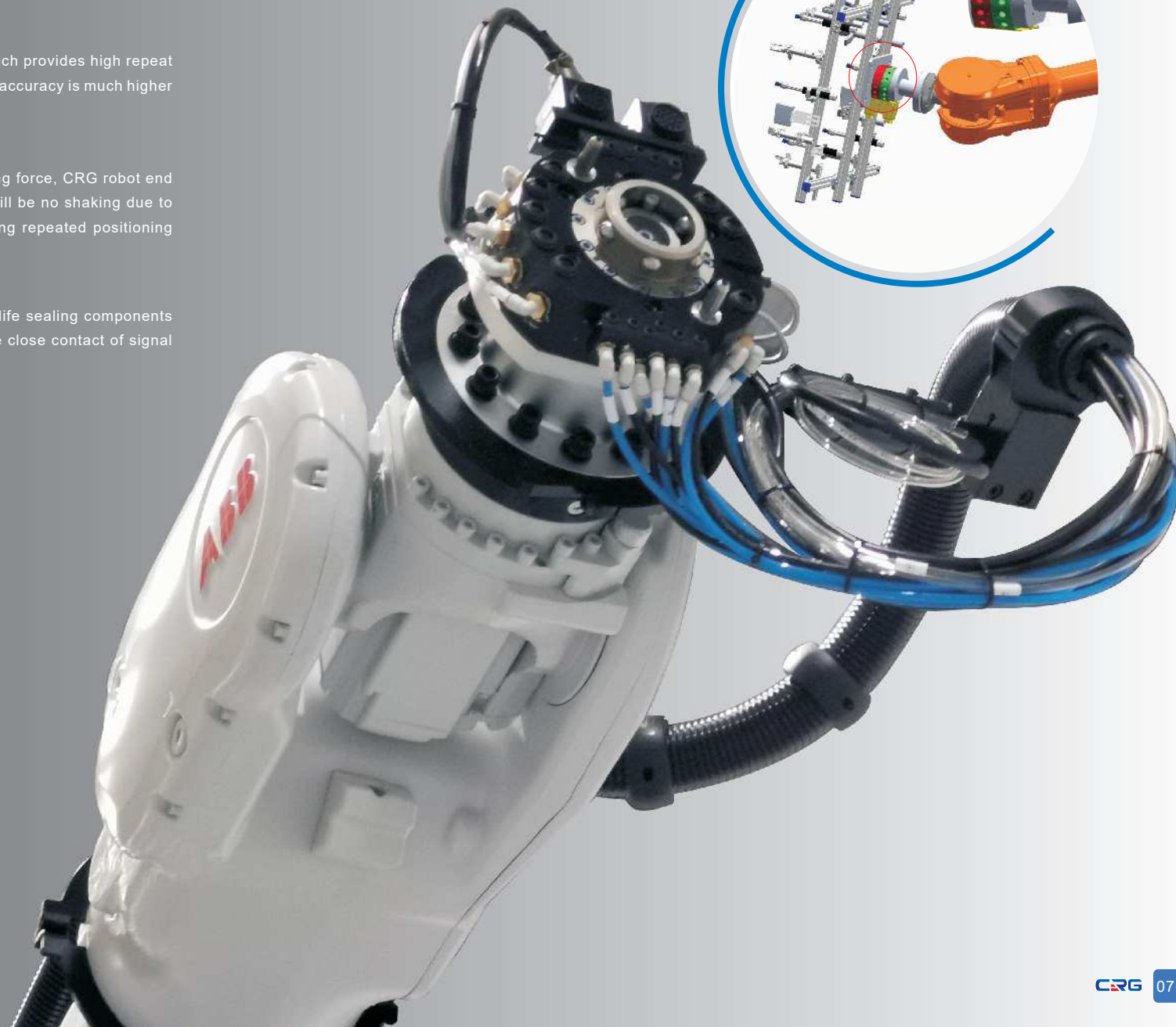
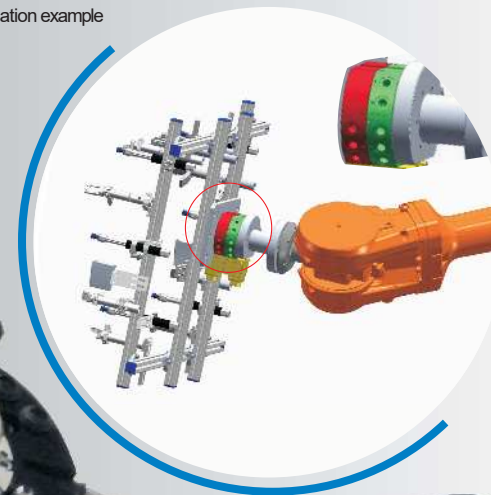
High strength

The locking piston with large cylinder diameter has strong locking force, CRG robot end fast device has strong anti torque ability. When locking, there will be no shaking due to high-speed movement, thus avoiding locking failure and ensuring repeated positioning accuracy.

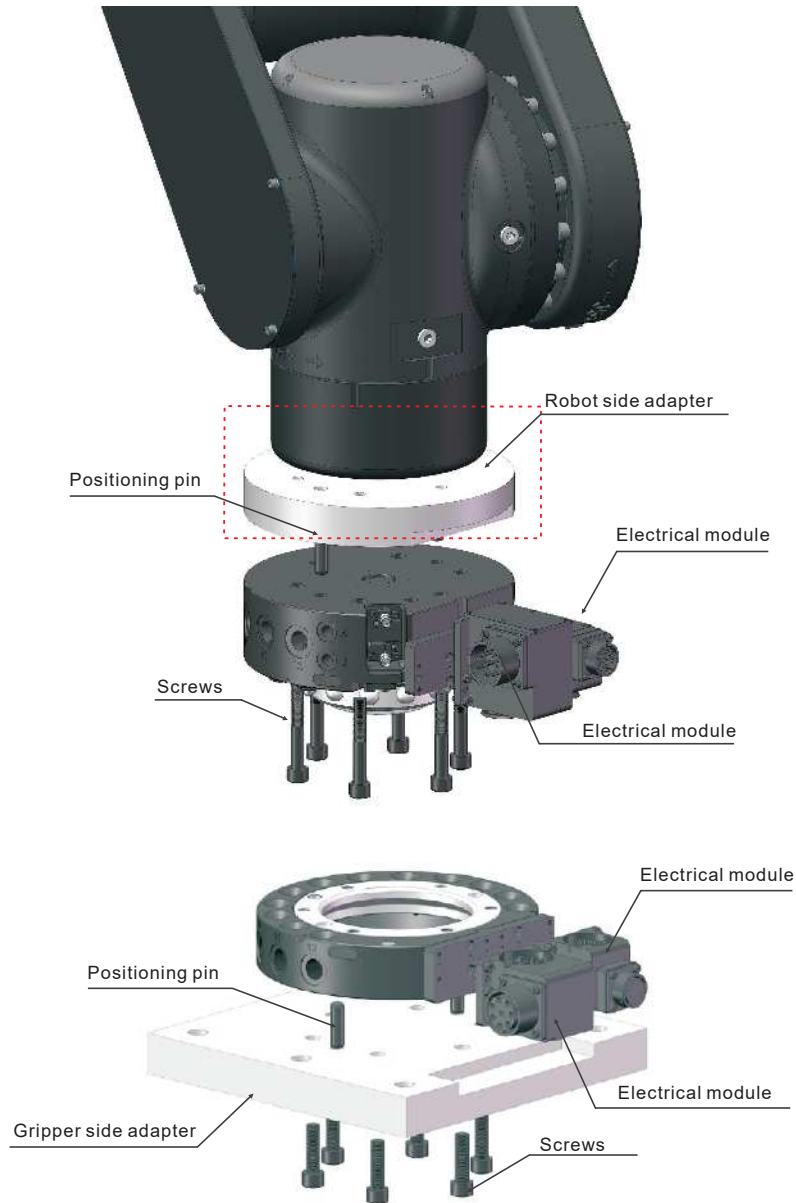
High performance

The locking mechanism with multi conical surface design, long life sealing components and high quality elastic contact probe are adopted to ensure the close contact of signal module.

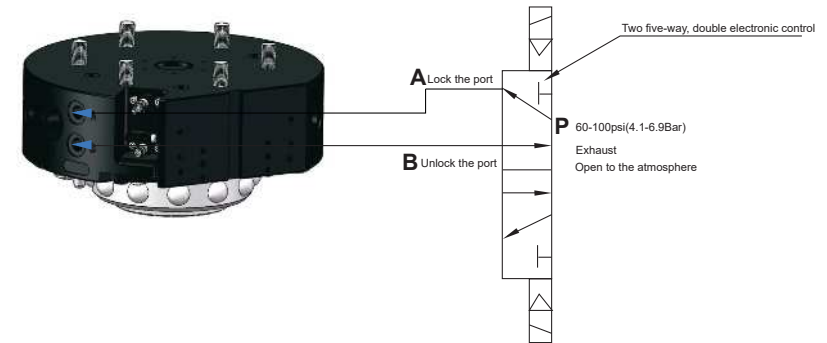
Quick Changer Installation example



Installation Schematic

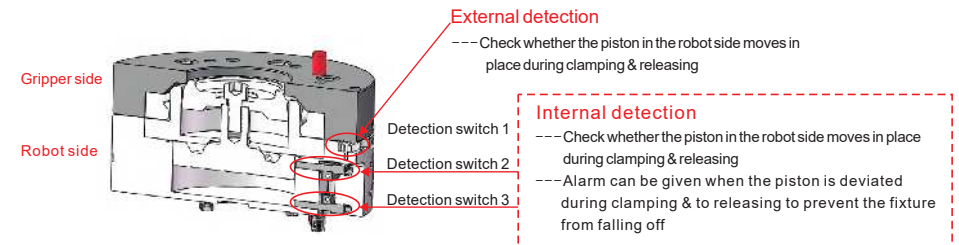


Lock And Unlock Pneumatic Connections

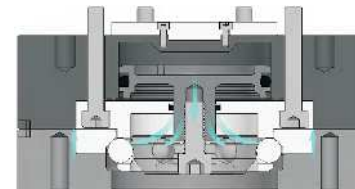


Safety Capability(Optional)

Three safety capability switch, multiple protection

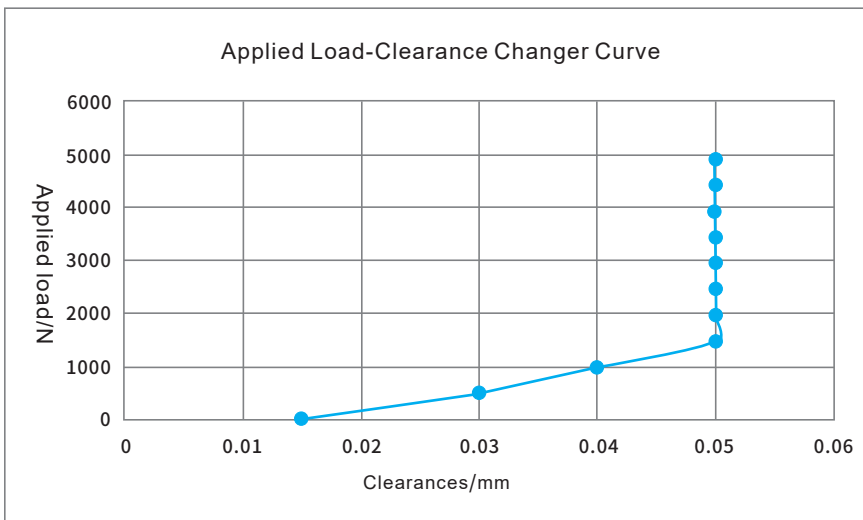


Safe Way



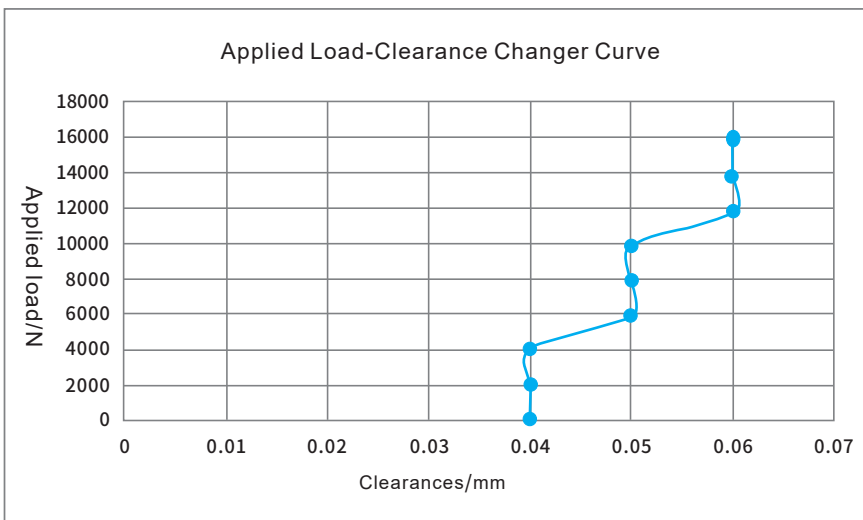
1. Multiple high-strength locking balls keep the robot and tools locked, making them safer and more stable.
2. Thanks to the precision of repetition, tools are brought to the precise operating position even if they are changed frequently.
3. Default self-locking design. The robot side and the tool side are not separated when the air pressure is stopped.

Rated Load Test



QCA-200 quick changer

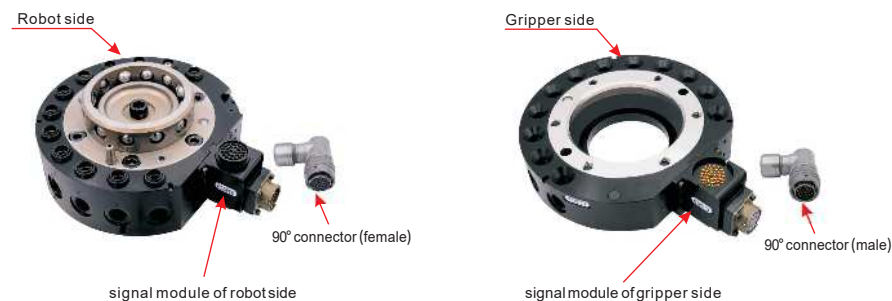
Maximum Load Test



QCA-200 quick changer

Quick Changer Series

Model	Maxpayload	Gas path	Locking Force @80Psi (5.5Bar)	Product weight
QCA-05	5kg	6-M5	620N	0.4kg
QCA-05	5kg	6-M5	620N	0.3kg
QCA-15	15kg	6-M5	1150N	0.3kg
QCA-25	25kg	12-M5	2400N	1.0kg
QCA-35	35kg	8-G1/8	2900N	1.4kg
QCA-50	50kg	9-G1/8	4600N	1.7kg
QCA-S50	50kg	8-G1/8	5650N	1.9kg
QCA-100	100kg	7-G3/8	12000N	5.2kg
QCA-S100	100kg	5-G3/8	12000N	3.7kg
QCA-S150	150kg	8-G3/8	12000N	6.2kg
QCA-200	300kg	12-G3/8	16000N	9.0kg
QCA-200D1	300kg	8-G3/8	16000N	9.0kg
QCA-S350	350kg	/	31000N	9.4kg
QCA-S500	500kg	/	37800N	23.4kg



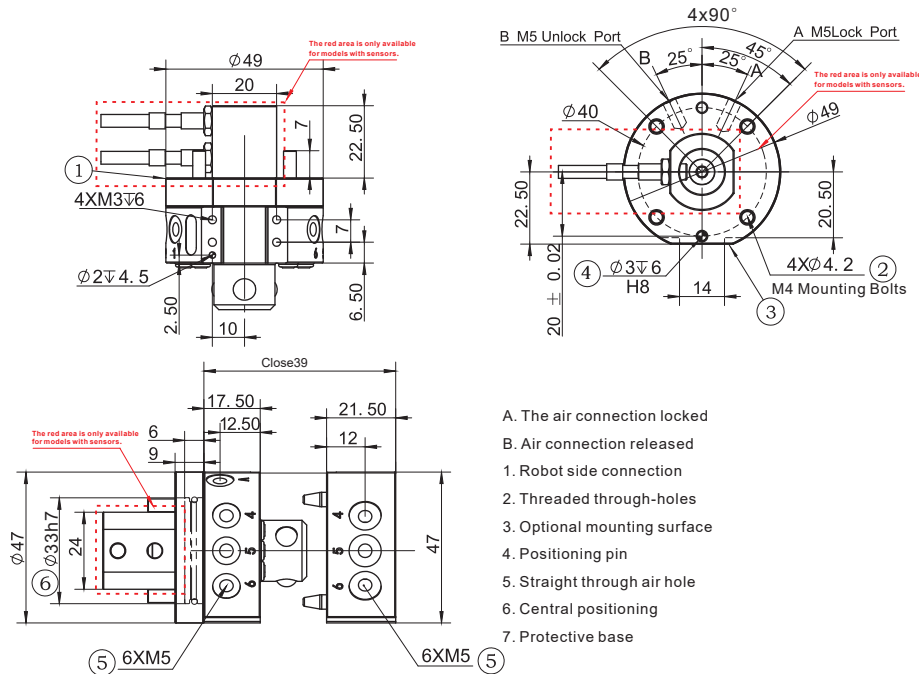
Quick Changer

QCA-05

*Material: steel

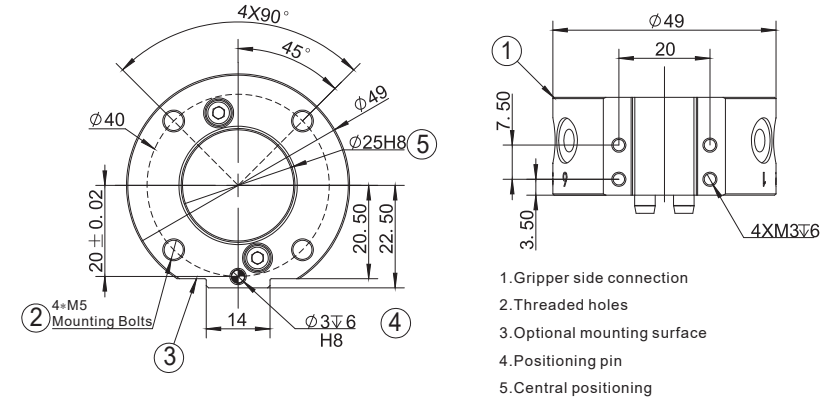


Robot Side



Quick Changer

Gripper Side



Parameter

1. Max payload: 5kg
2. Locking force@80Psi (5.5Bar) 620 N
3. Static load torque(X&Y): 23.4 Nm
4. Static load torque(Z): 31.5 Nm
5. Repeatability accuracy(X,Y&Z): ± 0.015 mm
6. Weight after locked: 0.4 kg
7. Robot side's weight: 0.3kg
8. Gripper side's weight: 0.1 kg
9. Maximum allowable angle deviation: $\pm 1^\circ$
10. Size of straight air hole (quantity) : (6) M5

Applicable Module

Module Type

Product name	Model	PN	Voltage	Current	Connector	PN
Robot side signal module	QCSM-15R1	7.Y00965	24V	2.5A	DB15R1-1000 ^①	1.Y10163
Gripper side signal module	QCSM-15G1	7.Y00966	24V	2.5A	DB15G1-1000 ^①	1.Y10437

① The cable's length is 1 meter

HF Module-straight Out Line

Product name	Model	PN
Robot side high frequency module	QCHF-02R-1000	7.Y02086
Gripper side high frequency module	QCHF-02G-1000	7.Y02087

15-core Electric Module-straight Out Line

Product name	Model	PN
Robot side 15-core electric module	QCSM-15R1-1000	7.Y02097
Gripper side 15-core electric module	QCSM-15G1-1000	7.Y02098

Power Module-straight Out Line

Product name	Model	PN
Robot side high frequency module	QCSM-08R-1000	7.Y02084
Gripper side high frequency module	QCSM-08G-1000	7.Y02085

RJ45S Network Cable Interface

Product name	Model	PN
Robot side RJ45S servo module	QCSM-RJ45*5M-06R	7.Y02129
Gripper side RJ45S servo module	QCSM-RJ45*5M-06G	7.Y02129

Quick Changer

QCA-05

*Material: steel



Robot side strap switch

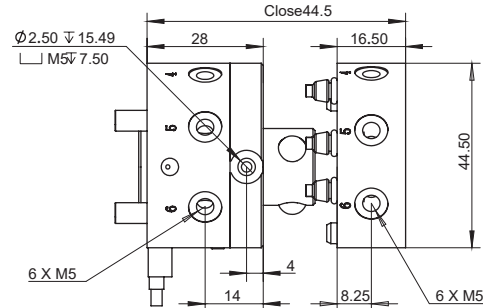
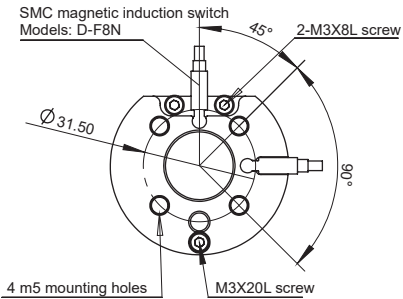
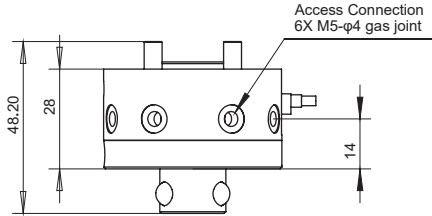
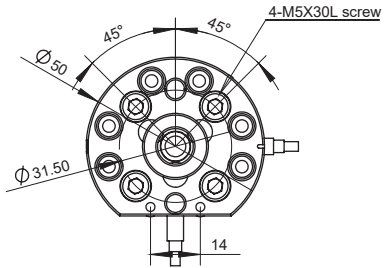
PN	8.Y01066
Model	QCA-05R1-SN
Signal Detection Category	NPN



Gripperside

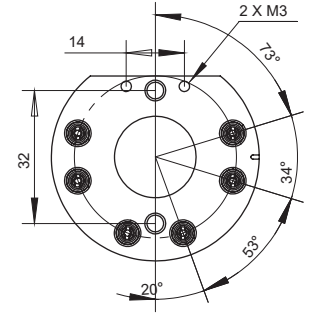
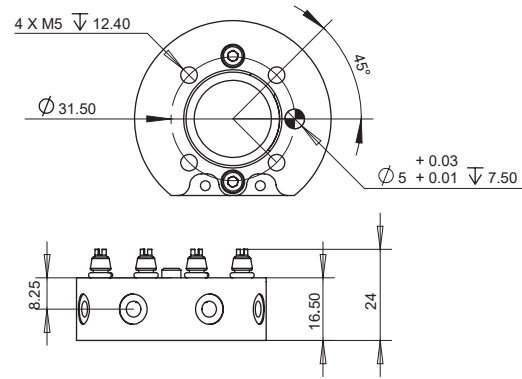
PN	8.Y01067
Model	QCA-05G1

Robot Side



Quick Changer

Gripper Side



Parameter

- 1.Max payload: 5kg
- 2.Locking force@80Psi (5.5Bar) 620 N
- 3.Static load torque(X&Y): 23.4 Nm
- 4.Static load torque(Z): 31.5 Nm
- 5.Repeatability accuracy(X,Y&Z): ±0.015 mm
- 6.Weight after locked: 0.3 kg
- 7.Robot side's weight: 0.2kg
- 8.Gripper side's weight: 0.1 kg
- 9.Maximum allowable angle deviation: ±1°
- 10.Size of straight air hole (quantity) : (6) M5

Technical Note

1. Mounting screws and magnetic switch sensor
2. There are no standard modules on the main disk side and tool disk side
3. Locking mode: steel ball locking

Quick Changer

QCA-15



Robot side

PN	8.Y00353
Model	QCA-15R



Gripper side

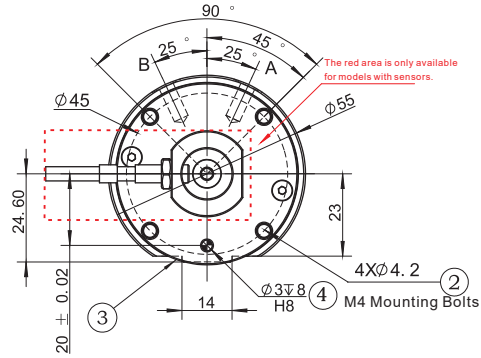
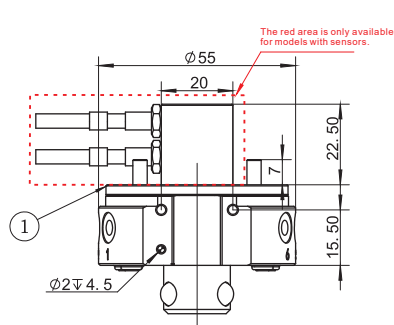
PN	8.Y00354
Model	QCA-15G



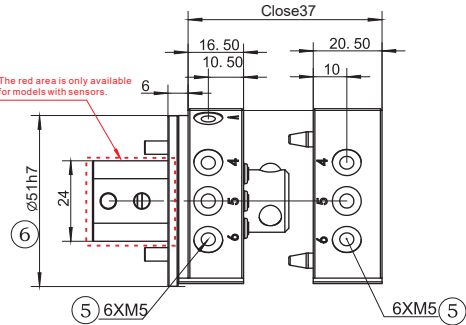
Robot side strap switch

PN	8.Y00353-SP	8.Y00353-SN
Model	QCA-15R-SP	QCA-15R-SN
Signal Detection Category	PNP	NPN

Robot Side

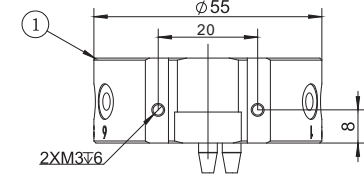
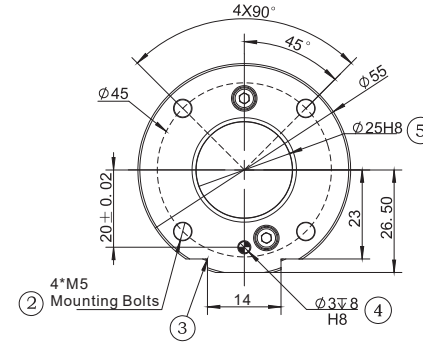


- The air connection locked
 - Air connection released
- Robot side connection
 - Threaded through-holes
 - Optional mounting surface
 - Positioning pin
 - Straight through air hole
 - Central positioning



Quick Changer

Gripper Side



- Gripper side connection
- Threaded holes
- Optional mounting surface
- Positioning pin
- Central positioning

Parameter

- Max payload: 15kg
- Locking force@80Psi (5.5Bar) 1150 N
- Static load torque(X&Y): 26.5 Nm
- Static load torque(Z): 35.03 Nm
- Repeatability accuracy(X,Y&Z): ±0.015 mm
- Weight after locked: 0.3 kg
- Robot side's weight: 0.2 kg
- Gripper side's weight: 0.1 kg
- Maximum allowable angle deviation: ±1°
- Size of straight air hole (quantity) : (6) M5

Applicable Module

Module Type

Product name	Model	PN	Voltage	Current	Connector	PN
Robot side signal module	QCSM-15R1	7.Y00965	24V	2.5A	DB15R1-1000 ^①	1.Y10163
Gripper side signal module	QCSM-15G1	7.Y00966	24V	2.5A	DB15G1-1000 ^①	1.Y10437

① The cable's length is 1 meter

HF Module-straight Out Line

Product name	Model	PN
Robot side high frequency module	QCHF-02R-1000	7.Y02086
Gripper side high frequency module	QCHF-02G-1000	7.Y02087

Power Module-straight Out Line

Product name	Model	PN
Robot side high frequency module	QCSM-08R-1000	7.Y02084
Gripper side high frequency module	QCSM-08G-1000	7.Y02085

15-core Electric Module-straight Out Line

Product name	Model	PN
Robot side 15-core electric module	QCSM-15R1-1000	7.Y02097
Gripper side 15-core electric module	QCSM-15G1-1000	7.Y02098

RJ45S Network Cable Interface

Product name	Model	PN
Robot side RJ45S servo module	QCSM-RJ45*5M-06R	7.Y02129
Gripper side RJ45S servo module	QCSM-RJ45*5M-06G	7.Y02129

Quick Changer

QCA-25



Robot side

PN	8.Y00460
Model	QCA-25R



Gripper side

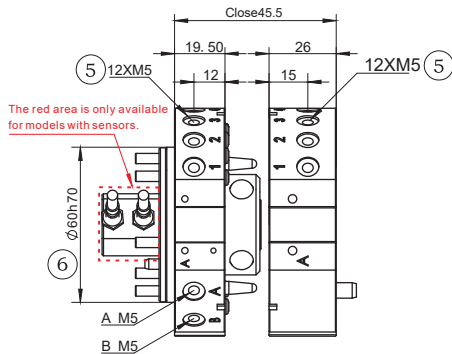
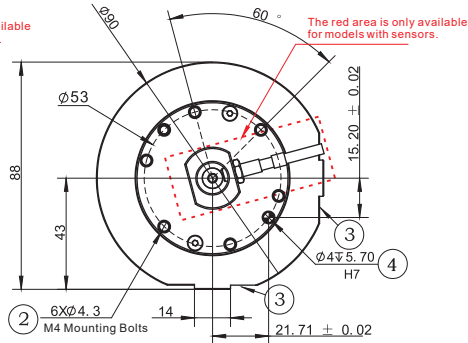
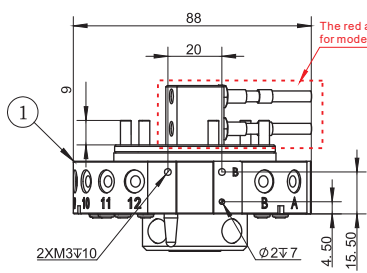
PN	8.Y00461
Model	QCA-25G



Robot side strap switch

PN	8.Y00460-SP	8.Y00460-SN
Model	QCA-25R-SP	QCA-25R-SN
Signal Detection Category	PNP	NPN

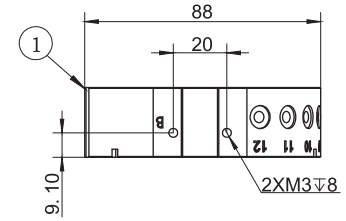
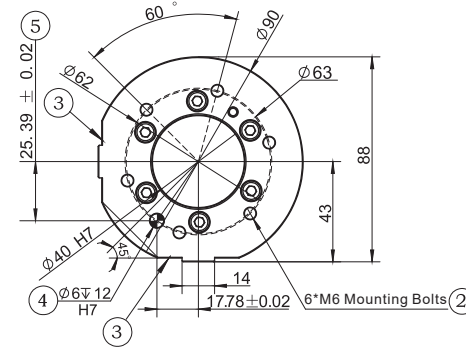
Robot Side



- A. The air connection locked
B. Air connection released
1. Robot side connection
 2. Threaded through-holes
 3. Optional mounting surface
 4. Positioning pin
 5. Straight through air hole
 6. Central positioning

Quick Changer

Gripper Side



1. Gripper side connection
2. Threaded holes
3. Optional mounting surface
4. Positioning pin
5. Central positioning

Parameter

1. Max payload: 25kg
2. Locking force@80Psi (5.5Bar) 2400 N
3. Static load torque(X&Y): 59 Nm
4. Static load torque(Z): 80 Nm
5. Repeatability accuracy(X,Y&Z): ± 0.015 mm
6. Weight after locked: 0.4kg
7. Robot side's weight: 0.3 kg
8. Gripper side's weight: 0.1 kg
9. Maximum allowable angle deviation: $\pm 1^\circ$
10. Size of straight air hole (quantity) : (12) M5

Applicable Module

Module Type

Product name	Model	PN	Voltage	Current	Connector	PN
Robot side signal module	QCSM-15R1	7.Y00965	24V	2.5A	DB15R1-1000 ^①	1.Y10163
Gripper side signal module	QCSM-15G1	7.Y00966	24V	2.5A	DB15G1-1000 ^①	1.Y10437

① The cable's length is 1 meter

HF Module-straight Out Line

Product name	Model	PN
Robot side high frequency module	QCHF-02R-1000	7.Y02086
Gripper side high frequency module	QCHF-02G-1000	7.Y02087

Power Module-straight Out Line

Product name	Model	PN
Robot side high frequency module	QCSM-08R-1000	7.Y02084
Gripper side high frequency module	QCSM-08G-1000	7.Y02085

15-core Electric Module-straight Out Line

Product name	Model	PN
Robot side 15-core electric module	QCSM-15R1-1000	7.Y02097
Gripper side 15-core electric module	QCSM-15G1-1000	7.Y02098

RJ45S Network Cable Interface

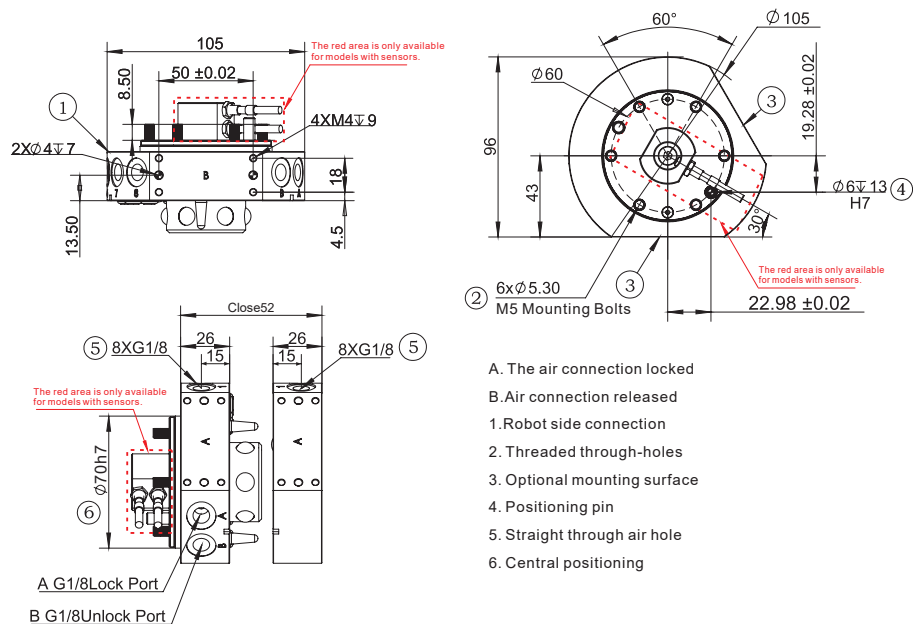
Product name	Model	PN
Robot side RJ45S servo module	QCSM-RJ45*5M-06R	7.Y02129
Gripper side RJ45S servo module	QCSM-RJ45*5M-06G	7.Y02129

Quick Changer

QCA-35

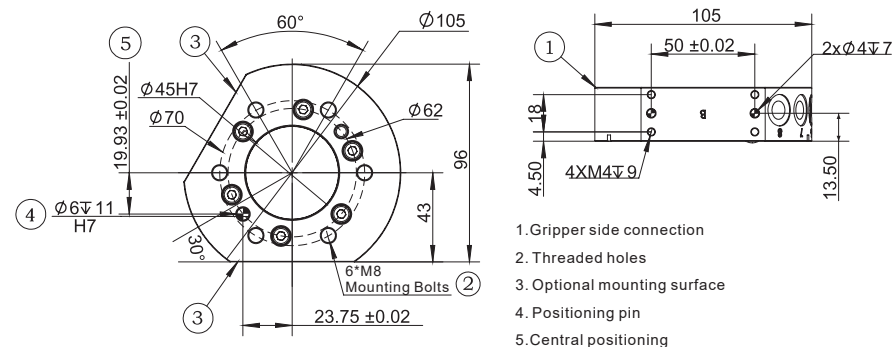


Robot Side



Quick Changer

Gripper Side



Parameter

1. Max payload: 35kg
2. Locking force@80Psi (5.5Bar) 2900 N
3. Static load torque (X&Y): 88.5 Nm
4. Static load torque (Z): 105 Nm
5. Repeatability accuracy (X,Y&Z) ± 0.015 mm
6. Weight after locked: 1.4 kg
7. Robot side's weight: 0.9 kg
8. Gripper side's weight: 0.5 kg
9. Maximum allowable angle deviation: $\pm 1^\circ$
10. Size of straight air hole (quantity) : (8) G1/8

Applicable Module

Module Type

Product name	Model	PN	Voltage	Current	Connector	PN
Robot side signal module	QCSM-15R2	7.Y00468	24V	2.5A	D-Sub15R2-1000 ①	1.Y10080
Gripper side signal module	QCSM-15G2	7.Y00469	24V	2.5A	D-Sub15G2-1000 ①	1.Y10081
Robot side signal module	QCSM-08R	7.Y00477	380V	30A	3108A22-23S ②	1.Y10710
Gripper side signal module	QCSM-08G	7.Y00478	380V	30A	3108A22-23P ②	1.Y10711
Robot side signal module	QCSM-19R	7.Y00954	220V	3A	MS3116F14-19S/-Y ^② CMB08E-14-19S(072)SR-B ^②	1.Y11420 1.Y11863
Robot side signal module	QCSM-19R1	7.Y02123	220V	3A	MS3116F14-19S/-Y ^② CMB08E-14-19S(072)SR-B ^②	1.Y11420 1.Y11863
Gripper side signal module	QCSM-19G	7.Y00955	220V	3A	MS3116F14-19P/-Y ^② CMB08E-14-19P(072)SR-B ^②	1.Y11419 1.Y11864
Robot side signal module	QCSM-26R	7.Y00464	220V	3A	MS3116F16-26S/-Y ^② CMB08E-16-26S(072)SR-B ^②	1.Y11867 1.Y11865
Gripper side signal module	QCSM-26G	7.Y00465	220V	3A	MS3116F16-26P/-Y ^② CMB08E-16-26P(072)SR-B ^②	1.Y11369 1.Y11866
Gripper side signal module	QCSM-21/26G	7.Y02117	220V	3A	MS3116F16-26P/-Y ^② CMB08E-16-26P(072)SR-B ^②	1.Y11369 1.Y11866
Robot side signal module	QCSM-32R	7.Y02095	220V	3A	MS3118F22-36S ^② MS3118F22-36S ^②	1.Y13392 1.Y13393
Gripper side signal module	QCSM-32G	7.Y02096	220V	3A	MS3118F22-36P ^② MS3118F22-36P ^②	1.Y13394 1.Y13395

① The cable's length is 1 meter

② Joint only, no wire

Applicable Module

Pneumatic Extension Module

Product name	Model	PN	Gas path	Threaded hole	Product name	Model	PN	Gas path	Threaded hole
Robot side pneumatic extension module	QCAM-06G18R	7.Y01015	6	G1/8	Robot side pneumatic extension module	QCAM-14M5R	7.Y01055	14	M5
Gripper side pneumatic extension module	QCAM-06G18G	7.Y01016	6	G1/8	Gripper side pneumatic extension module	QCAM-14M5G	7.Y01056	14	M5
Robot side pneumatic extension module	QCAM-06G18R-E	7.Y01018	6	G1/8	Robot side self-proclaimed pneumatic extension module	QCAM-06G18R-F	7.Y02005	6	G1/8
Gripper side pneumatic extension module	QCAM-06G18G-E	7.Y01019	6	G1/8	Gripper side self-proclaimed pneumatic extension module	QCAM-06G18G-F	7.Y02006	6	G1/8
Robot side pneumatic extension module	QCAM-10M5R	7.Y01053	10	M5	Robot side pneumatic extension module	QCAM-04G38R	7.Y02043	4	G3/8
Gripper side pneumatic extension module	QCAM-10M5G	7.Y01054	10	M5	Gripper side pneumatic extension module	QCAM-04G38G	7.Y02044	4	G3/8

High Frequency Module Type

Product name	Model	PN	Voltage	Current
Robot side signal module	QCHFM-E14-C1R	7.Y02003	1.4KV	5A
Gripper side signal module	QCHFM-E14-C1G	7.Y02004	1.4KV	5A

Signal Module (network cable interface)

Product name	Model	PN
Robot side signal module	QCSM-RJ45-06R	7.Y02007
Gripper side signal module	QCSM-RJ45-06G	7.Y02008

Servo Signal Module

Product name	Model	PN
Robot side servo signal module	QCSM-12R	7.Y02082
Gripper side servo signal module	QCSM-12G	7.Y02083

Servo Power Module

Product name	Model	PN
Robot side servo power module	QCSM-08R1	7.Y02080
Gripper side servo power module	QCSM-08G1	7.Y02081

Self-Sealing Fluid Air Module

Product name	Model	PN
Robot side signal module	QCWM-02R	7.Y02049
Gripper side signal module	QCWM-02G	7.Y02050

Quick Changer

QCA-50



PN	8.Y00349
Model	QCA-50R

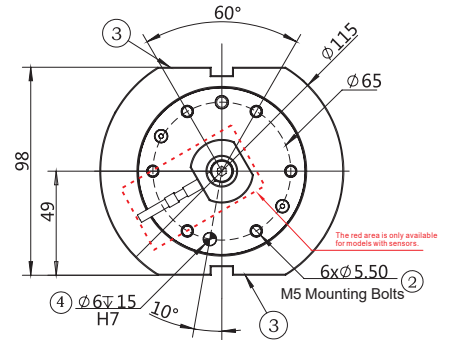
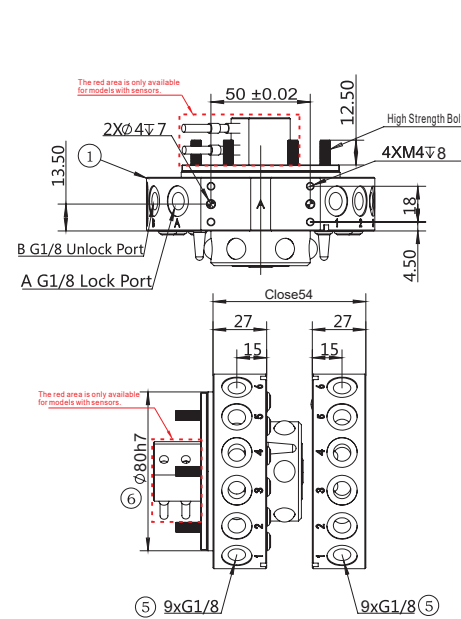


PN	8.Y00350
Model	QCA-50G



PN	8.Y00349-SP	8.Y00349-SN
Model	QCA-50R-SP	QCA-50R-SN
Signal Detection Category	PNP	NPN

Robot Side



- A. The air connection locked
- B. Air connection released
- 1. Robot side connection
- 2. Threaded through-holes
- 3. Optional mounting surface
- 4. Positioning pin
- 5. Straight through air hole
- 6. Central positioning

Accessory Components

Applicable Module

Pneumatic Extension Module

Product name	Model	PN	Gas path	Threaded hole	Product name	Model	PN	Gas path	Threaded hole
Robot side pneumatic extension module	QCAM-06G18R	7.Y01015	6	G1/8	Robot side pneumatic extension module	QCAM-14M5R	7.Y01055	14	M5
Gripper side pneumatic extension module	QCAM-06G18G	7.Y01016	6	G1/8	Gripper side pneumatic extension module	QCAM-14M5G	7.Y01056	14	M5
Robot side pneumatic extension module	QCAM-06G18R-E	7.Y01018	6	G1/8	Robot side self-proclaimed pneumatic extension module	QCAM-06G18R-F	7.Y02005	6	G1/8
Gripper side pneumatic extension module	QCAM-06G18G-E	7.Y01019	6	G1/8	Gripper side self-proclaimed pneumatic extension module	QCAM-06G18G-F	7.Y02006	6	G1/8
Robot side pneumatic extension module	QCAM-10M5R	7.Y01053	10	M5	Robot side pneumatic extension module	QCAM-04G38R	7.Y02043	4	G3/8
Gripper side pneumatic extension module	QCAM-10M5G	7.Y01054	10	M5	Gripper side pneumatic extension module	QCAM-04G38G	7.Y02044	4	G3/8

High Frequency Module Type

Product name	Model	PN	Voltage	Current
Robot side signal module	QCHFM-E14-C1R	7.Y02003	1.4KV	5A
Gripper side signal module	QCHFM-E14-C1G	7.Y02004	1.4KV	5A

Signal Module (network cable interface)

Product name	Model	PN
Robot side signal module	QCSM-RJ45-06R	7.Y02007
Gripper side signal module	QCSM-RJ45-06G	7.Y02008

Servo Signal Module

Product name	Model	PN
Robot side servo signal module	QCSM-12R	7.Y02082
Gripper side servo signal module	QCSM-12G	7.Y02083

Servo Power Module

Product name	Model	PN
Robot side servo power module	QCSM-08R1	7.Y02080
Gripper side servo power module	QCSM-08G1	7.Y02081

Self-Sealing Fluid Air Module

Product name	Model	PN
Robot side signal module	QCWM-02R	7.Y02049
Gripper side signal module	QCWM-02G	7.Y02050

Quick Changer

QCA-100



Robot side

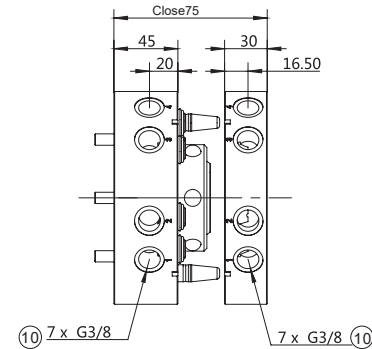
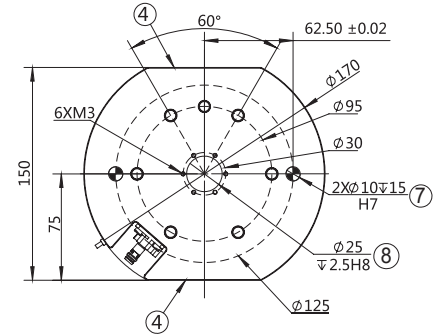
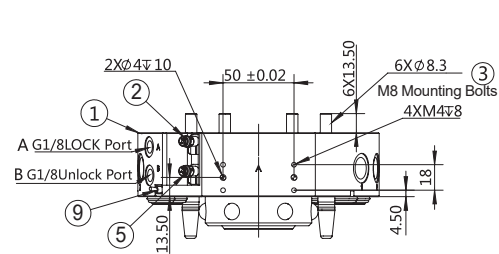
PN	8.Y00362-SP	8.Y00362-SN
Model	QCA-100R-SP	QCA-100R-SN
Signal Detection Category	PNP	NPN



Gripper side

PN	8.Y00363
Model	QCA-100G

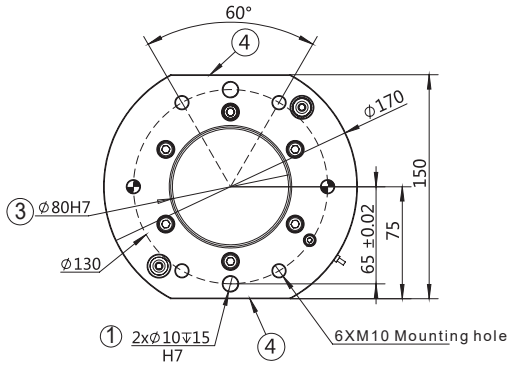
Robot Side



- A. The air connection locked
- B. Air connection released
- 1. Robot side connection
- 2. Monitoring position locked
- 3. Threaded through-holes
- 4. Optional mounting surface
- 5. Monitor position released
- 7. Positioning pin
- 8. Central positioning
- 9. Proximity switch for robot side confirmation
- 10. Straight through air hole

Quick Changer

Gripper Side



1. Positioning pin
2. Gripper side connection
3. Central positioning
4. Optional mounting surface

Parameter

1. Max payload: 100kg
2. Locking force@80Psi (5.5Bar) 12000 N
3. Static Load torque(X&Y): 538 Nm
4. Static Load torque(Z): 720 Nm
5. Repeatability accuracy(X,Y&Z): ±0.015 mm
6. Weight after locked: 5.2 kg
7. Robot side's weight: 3.6 kg
8. Gripper side's weight: 1.6 kg
9. Maximum allowable angle deviation: ±1°
10. Size of straight air hole(quantity): (7) G3/8

Applicable Module

Module Type

Product name	Model	PN	Voltage	Current	Connector	PN
Robot side signal module	QCSM-15R2	7.Y00468	24V	2.5A	D-Sub15R2-1000 ①	1.Y10080
Gripper side signal module	QCSM-15G2	7.Y00469	24V	2.5A	D-Sub15G2-1000 ①	1.Y10081
Robot side signal module	QCSM-08R	7.Y00477	380V	30A	3108A22-23S ①	1.Y10710
Gripper side signal module	QCSM-08G	7.Y00478	380V	30A	3108A22-23P ①	1.Y10711
Robot side signal module	QCSM-19R	7.Y00954	220V	3A	MS3116F14-19S/-Y ^②	1.Y11420
					CMB08E-14-19S(072)SR-B ^②	1.Y11863
					MS3116F14-19S/-Y ^②	1.Y11420
Robot side signal module	QCSM-19R1	7.Y02123	220V	3A	CMB08E-14-19S(072)SR-B ^②	1.Y11863
					MS3116F14-19P/-Y ^②	1.Y11419
Gripper side signal module	QCSM-19G	7.Y00955	220V	3A	CMB08E-14-19P(072)SR-B ^②	1.Y11864
					MS3116F16-26S/-Y ^②	1.Y11867
Robot side signal module	QCSM-26R	7.Y00464	220V	3A	CMB08E-16-26S(072)SR-B ^②	1.Y11865
					MS3116F16-26P/-Y ^②	1.Y11369
Gripper side signal module	QCSM-26G	7.Y00465	220V	3A	CMB08E-16-26P(072)SR-B ^②	1.Y11866
					MS3116F16-26P/-Y ^②	1.Y11369
Gripper side signal module	QCSM-21/26G	7.Y02117	220V	3A	CMB08E-16-26P(072)SR-B ^②	1.Y11866
					MS3116F22-36S ^②	1.Y13392
Robot side signal module	QCSM-32R	7.Y02095	220V	3A	MS3118F22-36S ^②	1.Y13393
					MS3116F22-36P ^②	1.Y13394
Gripper side signal module	QCSM-32G	7.Y02096	220V	3A	MS3118F22-36P ^②	1.Y13395

① The cable's length is 1 meter

② Joint only, no wire

Applicable Module

Pneumatic Extension Module

Product name	Model	PN	Gas path	Threaded hole
Robot side pneumatic extension module	QCAM-06G18R	7.Y01015	6	G1/8
Gripper side pneumatic extension module	QCAM-06G18G	7.Y01016	6	G1/8
Robot side pneumatic extension module	QCAM-06G18R-E	7.Y01018	6	G1/8
Gripper side pneumatic extension module	QCAM-06G18G-E	7.Y01019	6	G1/8
Robot side pneumatic extension module	QCAM-10M5R	7.Y01053	10	M5
Gripper side pneumatic extension module	QCAM-10M5G	7.Y01054	10	M5

Product name	Model	PN	Gas path	Threaded hole
Robot side pneumatic extension module	QCAM-14M5R	7.Y01055	14	M5
Gripper side pneumatic extension module	QCAM-14M5G	7.Y01056	14	M5
Robot side self-proclaimed pneumatic extension module	QCAM-06G18R-F	7.Y02005	6	G1/8
Gripper side self-proclaimed pneumatic extension module	QCAM-06G18G-F	7.Y02006	6	G1/8
Robot side pneumatic extension module	QCAM-04G38R	7.Y02043	4	G3/8
Gripper side pneumatic extension module	QCAM-04G38G	7.Y02044	4	G3/8

High Frequency Module Type

Product name	Model	PN	Voltage	Current
Robot side signal module	QCHFM-E14-C1R	7.Y02003	1.4KV	5A
Gripper side signal module	QCHFM-E14-C1G	7.Y02004	1.4KV	5A

Signal Module (network cable interface)

Product name	Model	PN
Robot side signal module	QCSM-RJ45-06R	7.Y02007
Gripper side signal module	QCSM-RJ45-06G	7.Y02008

Servo Signal Module

Product name	Model	PN
Robot side servo signal module	QCSM-12R	7.Y02082
Gripper side servo signal module	QCSM-12G	7.Y02083

Servo Power Module

Product name	Model	PN
Robot side servo power module	QCSM-08R1	7.Y02080
Gripper side servo power module	QCSM-08G1	7.Y02081

Self-Sealing Fluid Air Module

Product name	Model	PN
Robot side signal module	QCWM-02R	7.Y02049
Gripper side signal module	QCWM-02G	7.Y02050

Quick Changer

QCA-S100



NEW

Robot side

PN	8.Y00437
Model	QCA-S100R-SP
Signal Detection Category	PNP

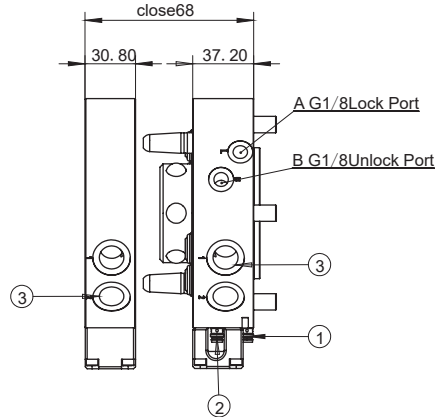
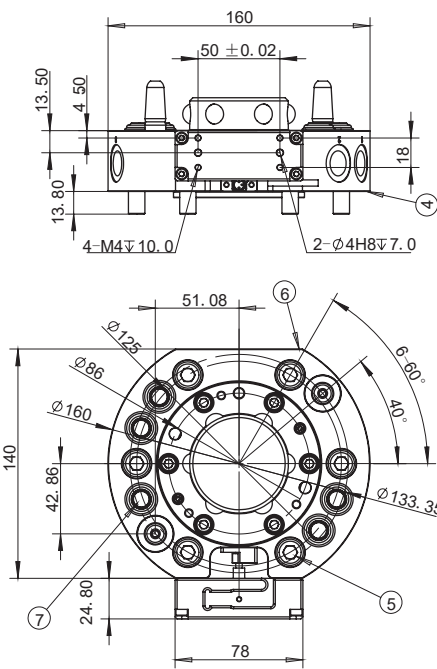


NEW

Gripper side

PN	8.Y00426
Model	QCA-S100G

Robot Side



A. The air connection locked

B. Air connection released

1. Monitoring position locked

2. Monitor position released

3. Straight through air hole G3/8

4. Robot side connection

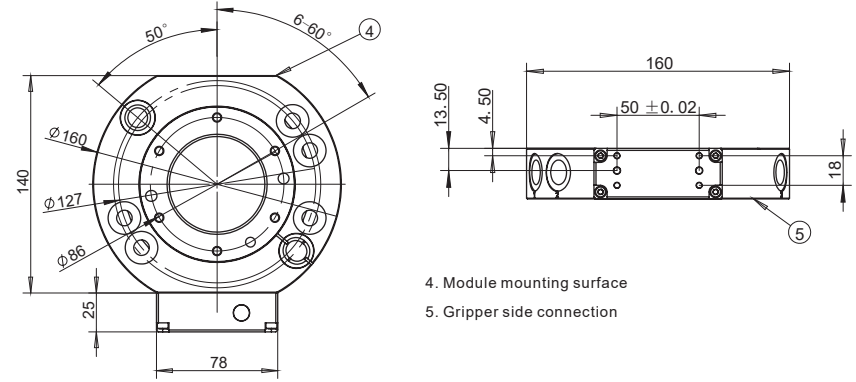
5. Robot Side Mounting Screws M10

6. Optional mounting surface

7. Docking through-type air holes

Quick Changer

Gripper Side



4. Module mounting surface

5. Gripper side connection

Parameter

1. Max payload: 100kg
2. Locking force@80Psi (5.5Bar) 12000 N
3. Static Load torque(X&Y): 1626 Nm
4. Static Load torque(Z): 2103 Nm
5. Repeatability accuracy(X,Y&Z): ±0.015 mm
6. Weight after locked: 3.7 kg
7. Robot side's weight: 2.3 kg
8. Gripper side's weight: 1.4 kg
9. Maximum allowable angle deviation: ±1°
10. Size of straight air hole (quantity) : (5) G3/8

Applicable Module

Module Type

Product name	Model	PN	Voltage	Current	Connector	PN
Robot side signal module	QCSM-15R2	7.Y00468	24V	2.5A	D-Sub15R2-1000 ^①	1.Y10080
Gripper side signal module	QCSM-15G2	7.Y00469	24V	2.5A	D-Sub15G2-1000 ^①	1.Y10081
Robot side signal module	QCSM-08R	7.Y00477	380V	30A	3108A22-23S ^②	1.Y10710
Gripper side signal module	QCSM-08G	7.Y00478	380V	30A	3108A22-23P ^②	1.Y10711
Robot side signal module	QCSM-19R	7.Y00954	220V	3A	MS3116F14-19S/-Y ^② CMB08E-14-19S(072)SR-B ^②	1.Y11420 1.Y11863
Robot side signal module	QCSM-19R1	7.Y02123	220V	3A	MS3116F14-19S/-Y ^② CMB08E-14-19S(072)SR-B ^②	1.Y11420 1.Y11863
Gripper side signal module	QCSM-19G	7.Y00955	220V	3A	MS3116F14-19P/-Y ^② CMB08E-14-19P(072)SR-B ^②	1.Y11419 1.Y11864
Robot side signal module	QCSM-26R	7.Y00464	220V	3A	MS3116F16-26S/-Y ^② CMB08E-16-26S(072)SR-B ^②	1.Y11867 1.Y11865
Gripper side signal module	QCSM-26G	7.Y00465	220V	3A	MS3116F16-26P/-Y ^② CMB08E-16-26P(072)SR-B ^②	1.Y11369 1.Y11866
Gripper side signal module	QCSM-21/26G	7.Y02117	220V	3A	MS3116F16-26P/-Y ^② CMB08E-16-26P(072)SR-B ^②	1.Y11369 1.Y11866
Robot side signal module	QCSM-32R	7.Y02095	220V	3A	MS3116F22-36S ^② MS3118F22-36S ^②	1.Y13392 1.Y13393
Gripper side signal module	QCSM-32G	7.Y02096	220V	3A	MS3116F22-36P ^② MS3118F22-36P ^②	1.Y13394 1.Y13395

① The cable's length is 1 meter

② Joint only, no wire

Applicable Module

Pneumatic Extension Module

Product name	Model	PN	Gas path	Threaded hole	Product name	Model	PN	Gas path	Threaded hole
Robot side pneumatic extension module	QCAM-06G18R	7.Y01015	6	G1/8	Robot side pneumatic extension module	QCAM-14M5R	7.Y01055	14	M5
Gripper side pneumatic extension module	QCAM-06G18G	7.Y01016	6	G1/8	Gripper side pneumatic extension module	QCAM-14M5G	7.Y01056	14	M5
Robot side pneumatic extension module	QCAM-06G18R-E	7.Y01018	6	G1/8	Robot side self-proclaimed pneumatic extension module	QCAM-06G18R-F	7.Y02005	6	G1/8
Gripper side pneumatic extension module	QCAM-06G18G-E	7.Y01019	6	G1/8	Gripper side self-proclaimed pneumatic extension module	QCAM-06G18G-F	7.Y02006	6	G1/8
Robot side pneumatic extension module	QCAM-10M5R	7.Y01053	10	M5	Robot side pneumatic extension module	QCAM-04G38R	7.Y02043	4	G3/8
Gripper side pneumatic extension module	QCAM-10M5G	7.Y01054	10	M5	Gripper side pneumatic extension module	QCAM-04G38G	7.Y02044	4	G3/8

High Frequency Module Type

Product name	Model	PN	Voltage	Current
Robot side signal module	QCHFM-E14-C1R	7.Y02003	1.4KV	5A
Gripper side signal module	QCHFM-E14-C1G	7.Y02004	1.4KV	5A

Signal Module (network cable interface)

Product name	Model	PN
Robot side signal module	QCSM-RJ45-06R	7.Y02007
Gripper side signal module	QCSM-RJ45-06G	7.Y02008

Servo Signal Module

Product name	Model	PN
Robot side servo signal module	QCSM-12R	7.Y02082
Gripper side servo signal module	QCSM-12G	7.Y02083

Servo Power Module

Product name	Model	PN
Robot side servo power module	QCSM-08R1	7.Y02080
Gripper side servo power module	QCSM-08G1	7.Y02081

Self-Sealing Fluid Air Module

Product name	Model	PN
Robot side signal module	QCWM-02R	7.Y02049
Gripper side signal module	QCWM-02G	7.Y02050

Quick Changer

QCA-S150

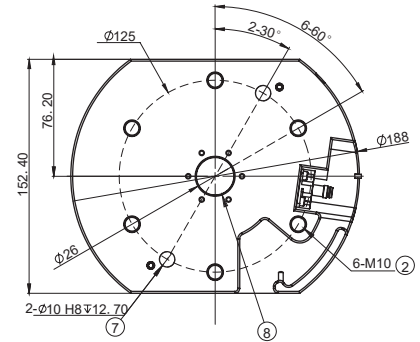
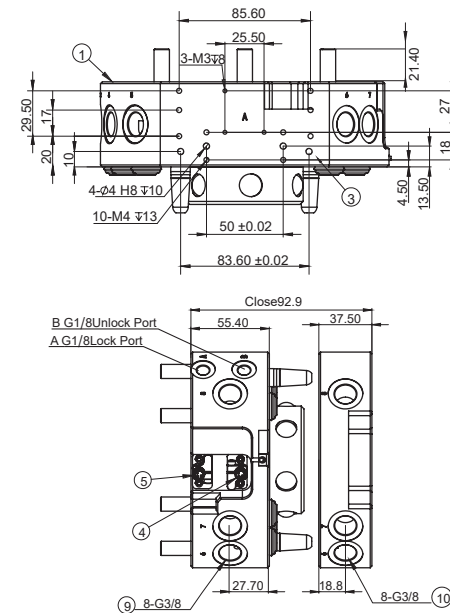


PN	8.Y01013
Model	QCA-S150R-SP
Signal Detection Category	PNP



PN	8.Y01014
Model	QCA-S150G

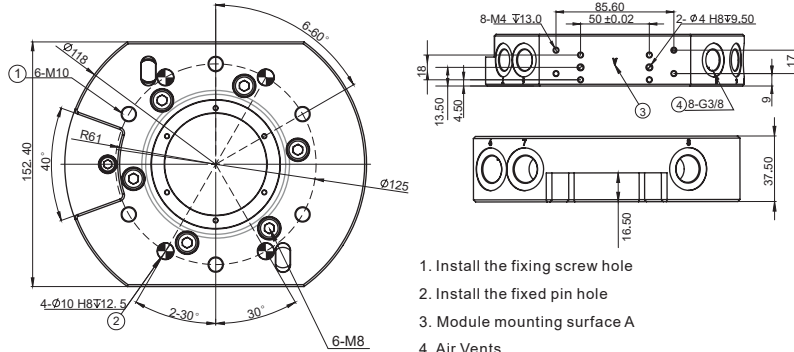
Robot Side



- A. The air connection locked
- B. Air connection released
- 1. Robot side connection
- 2. Threaded through-holes
- 3. Optional mounting surface
- 4. Monitoring position locked
- 5. Monitor position released
- 7. Positioning pin
- 8. Central positioning
- 9. Straight through air hole

Quick Changer

Gripper Side



1. Install the fixing screw hole
2. Install the fixed pin hole
3. Module mounting surface A
4. Air Vents
5. Module mounting surface B

Parameter

1. Max payload: 150kg
2. Locking force@80Psi(5.5Bar): 12000 N
3. Static Load torque(X&Y): 2352 Nm
4. Static Load torque(Z): 2352 Nm
5. Repeatability accuracy(X,Y&Z): ±0.015 mm
6. Weight after locked: 6.2 kg
7. Robot side's weight: 4 kg
8. Gripper side's weight: 2.2 kg
9. Maximum allowable angle deviation: ±1°
10. Size of straight air hole (quantity) : (8) 3/8

Applicable Module

Module Type

Product name	Model	PN	Voltage	Current	Connector	PN
Robot side signal module	QCSM-15R2	7.Y00468	24V	2.5A	D-Sub15R2-1000 ①	1.Y10080
Gripper side signal module	QCSM-15G2	7.Y00469	24V	2.5A	D-Sub15G2-1000 ①	1.Y10081
Robot side signal module	QCSM-08R	7.Y00477	380V	30A	3108A22-23S ②	1.Y10710
Gripper side signal module	QCSM-08G	7.Y00478	380V	30A	3108A22-23P ②	1.Y10711
Robot side signal module	QCSM-19R	7.Y00954	220V	3A	MS3116F14-19S/-Y② CMB08E-14-19S(072)SR-B②	1.Y11420 1.Y11863
Robot side signal module	QCSM-19R1	7.Y02123	220V	3A	MS3116F14-19S/-Y② CMB08E-14-19S(072)SR-B②	1.Y11420 1.Y11863
Gripper side signal module	QCSM-19G	7.Y00955	220V	3A	MS3116F14-19P/-Y② CMB08E-14-19P(072)SR-B②	1.Y11419 1.Y11864
Robot side signal module	QCSM-26R	7.Y00464	220V	3A	MS3116F16-26S/-Y② CMB08E-16-26S(072)SR-B②	1.Y11867 1.Y11865
Gripper side signal module	QCSM-26G	7.Y00465	220V	3A	MS3116F16-26P/-Y② CMB08E-16-26P(072)SR-B②	1.Y11369 1.Y11866
Gripper side signal module	QCSM-21/26G	7.Y02117	220V	3A	MS3116F16-26P/-Y② CMB08E-16-26P(072)SR-B②	1.Y11369 1.Y11866
Robot side signal module	QCSM-32R	7.Y02095	220V	3A	MS3116F22-36S② MS3118F22-36S②	1.Y13392 1.Y13393
Gripper side signal module	QCSM-32G	7.Y02096	220V	3A	MS3116F22-36P② MS3118F22-36P②	1.Y13394 1.Y13395

① The cable's length is 1 meter

② Joint only, no wire

Applicable Module

Pneumatic Extension Module

Product name	Model	PN	Gas path	Threaded hole	Product name	Model	PN	Gas path	Threaded hole
Robot side pneumatic extension module	QCAM-06G18R	7.Y01015	6	G1/8	Robot side pneumatic extension module	QCAM-14M5R	7.Y01055	14	M5
Gripper side pneumatic extension module	QCAM-06G18G	7.Y01016	6	G1/8	Gripper side pneumatic extension module	QCAM-14M5G	7.Y01056	14	M5
Robot side pneumatic extension module	QCAM-06G18R-E	7.Y01018	6	G1/8	Robot side self-proclaimed pneumatic extension module	QCAM-06G18R-F	7.Y02005	6	G1/8
Gripper side pneumatic extension module	QCAM-06G18G-E	7.Y01019	6	G1/8	Gripper side self-proclaimed pneumatic extension module	QCAM-06G18G-F	7.Y02006	6	G1/8
Robot side pneumatic extension module	QCAM-10M5R	7.Y01053	10	M5	Robot side pneumatic extension module	QCAM-04G38R	7.Y02043	4	G3/8
Gripper side pneumatic extension module	QCAM-10M5G	7.Y01054	10	M5	Gripper side pneumatic extension module	QCAM-04G38G	7.Y02044	4	G3/8

High Frequency Module Type

Product name	Model	PN	Voltage	Current
Robot side signal module	QCHFME14-C1R	7.Y02003	1.4KV	5A
Gripper side signal module	QCHFME14-C1G	7.Y02004	1.4KV	5A

Signal Module (network cable interface)

Product name	Model	PN
Robot side signal module	QCSM-RJ45-06R	7.Y02007
Gripper side signal module	QCSM-RJ45-06G	7.Y02008

Servo Signal Module

Product name	Model	PN
Robot side servo signal module	QCSM-12R	7.Y02082
Gripper side servo signal module	QCSM-12G	7.Y02083

Servo Power Module

Product name	Model	PN
Robot side servo power module	QCSM-08R1	7.Y02080
Gripper side servo power module	QCSM-08G1	7.Y02081

Self-Sealing Fluid Air Module

Product name	Model	PN
Robot side signal module	QCWM-02R	7.Y02049
Gripper side signal module	QCWM-02G	7.Y02050

Quick Changer

QCA-200



Robot side

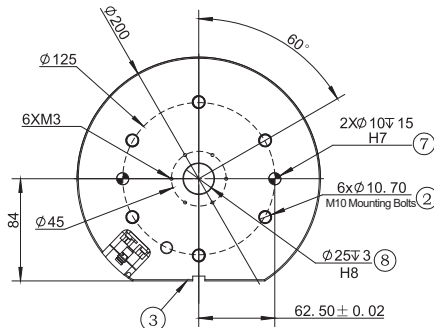
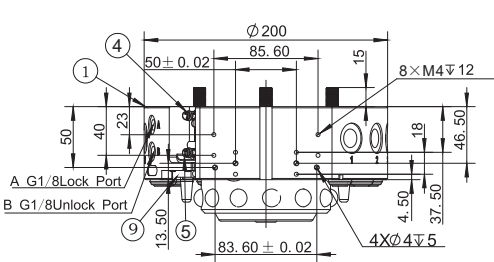
PN	8.Y00272-SP	8.Y00272-SN
Model	QCA-200R-SP	QCA-200R-SN
Signal Detection Category	PNP	NPN



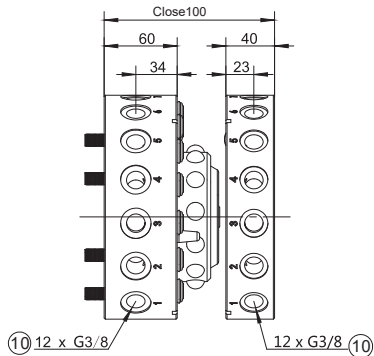
Gripper side

PN	8.Y00357
Model	QCA-200G

Robot Side

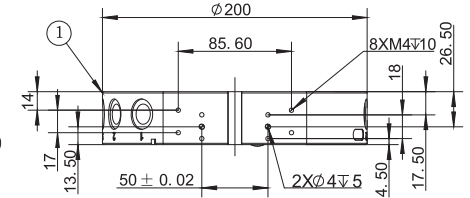
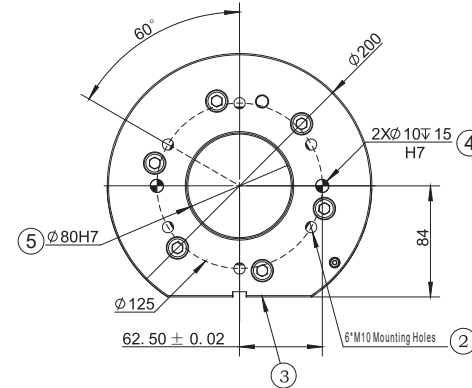


- A. The air connection locked
B. Air connection released
1. Robot side connection
 2. Threaded through-holes
 3. Optional mounting surface
 4. Monitoring position locked
 5. Monitor position released
 7. Positioning pin
 8. Central positioning
 9. Proximity switch for robot side confirmation
 10. Straight through air hole



Quick Changer

Gripper Side



1. Gripper side connection
2. Threaded through-holes
3. Optional mounting surface
4. Positioning pin
5. Central positioning

Parameter

1. Max payload: 300kg
2. Locking force@80Psi(5.5Bar) 16000 N
3. Static Load torque(X&Y): 1360 Nm
4. Static Load torque(Z): 1130 Nm
5. Repeatability accuracy(X,Y&Z): ±0.015 mm
6. Weight after locked: 9.0 kg
7. Robot side's weight: 6.2 kg
8. Gripper side's weight: 2.8 kg
9. Maximum allowable angle deviation: ±1°
10. Size of straight air hole(quantity): (12) 3/8

Applicable Module

Module Type

Product name	Model	PN	Voltage	Current	Connector	PN
Robot side signal module	QCSM-15R2	7.Y00468	24V	2.5A	D-Sub15R2-1000 ①	1.Y10080
Gripper side signal module	QCSM-15G2	7.Y00469	24V	2.5A	D-Sub15G2-1000 ①	1.Y10081
Robot side signal module	QCSM-08R	7.Y00477	380V	30A	3108A22-23S ②	1.Y10710
Gripper side signal module	QCSM-08G	7.Y00478	380V	30A	3108A22-23P ②	1.Y10711
Robot side signal module	QCSM-19R	7.Y00954	220V	3A	MS3116F14-19S/-Y ② CMB08E-14-19S(072)SR-B ②	1.Y11420 1.Y11863
Robot side signal module	QCSM-19R1	7.Y02123	220V	3A	MS3116F14-19S/-Y ② CMB08E-14-19S(072)SR-B ②	1.Y11420 1.Y11863
Gripper side signal module	QCSM-19G	7.Y00955	220V	3A	MS3116F14-19P/-Y ② CMB08E-14-19P(072)SR-B ②	1.Y11419 1.Y11864
Robot side signal module	QCSM-26R	7.Y00464	220V	3A	MS3116F16-26S/-Y ② CMB08E-16-26S(072)SR-B ②	1.Y11867 1.Y11865
Gripper side signal module	QCSM-26G	7.Y00465	220V	3A	MS3116F16-26P/-Y ② CMB08E-16-26P(072)SR-B ②	1.Y11369 1.Y11866
Gripper side signal module	QCSM-21/26G	7.Y02117	220V	3A	MS3116F16-26P/-Y ② CMB08E-16-26P(072)SR-B ②	1.Y11369 1.Y11866
Robot side signal module	QCSM-32R	7.Y02095	220V	3A	MS3116F22-36S ② MS3118F22-36S ②	1.Y13392 1.Y13393
Gripper side signal module	QCSM-32G	7.Y02096	220V	3A	MS3116F22-36P ② MS3118F22-36P ②	1.Y13394 1.Y13395

① The cable's length is 1 meter

② Joint only, no wire

Applicable Module

Pneumatic Extension Module

Product name	Model	PN	Gas path	Threaded hole	Product name	Model	PN	Gas path	Threaded hole
Robot side pneumatic extension module	QCAM-06G18R	7.Y01015	6	G1/8	Robot side pneumatic extension module	QCAM-14M5R	7.Y01055	14	M5
Gripper side pneumatic extension module	QCAM-06G18G	7.Y01016	6	G1/8	Gripper side pneumatic extension module	QCAM-14M5G	7.Y01056	14	M5
Robot side pneumatic extension module	QCAM-06G18R-E	7.Y01018	6	G1/8	Robot side self-proclaimed pneumatic extension module	QCAM-06G18R-F	7.Y02005	6	G1/8
Gripper side pneumatic extension module	QCAM-06G18G-E	7.Y01019	6	G1/8	Gripper side self-proclaimed pneumatic extension module	QCAM-06G18G-F	7.Y02006	6	G1/8
Robot side pneumatic extension module	QCAM-10M5R	7.Y01053	10	M5	Robot side pneumatic extension module	QCAM-04G38R	7.Y02043	4	G3/8
Gripper side pneumatic extension module	QCAM-10M5G	7.Y01054	10	M5	Gripper side pneumatic extension module	QCAM-04G38G	7.Y02044	4	G3/8

High Frequency Module Type

Product name	Model	PN	Voltage	Current
Robot side signal module	QCHFM-E14-C1R	7.Y02003	1.4KV	5A
Gripper side signal module	QCHFM-E14-C1G	7.Y02004	1.4KV	5A

Signal Module (network cable interface)

Product name	Model	PN
Robot side signal module	QCSM-RJ45-06R	7.Y02007
Gripper side signal module	QCSM-RJ45-06G	7.Y02008

Servo Signal Module

Product name	Model	PN
Robot side servo signal module	QCSM-12R	7.Y02082
Gripper side servo signal module	QCSM-12G	7.Y02083

Servo Power Module

Product name	Model	PN
Robot side servo power module	QCSM-08R1	7.Y02080
Gripper side servo power module	QCSM-08G1	7.Y02081

Self-Sealing Fluid Air Module

Product name	Model	PN
Robot side signal module	QCWM-02R	7.Y02049
Gripper side signal module	QCWM-02G	7.Y02050

Quick Changer

QCA-200-D1



Robot side

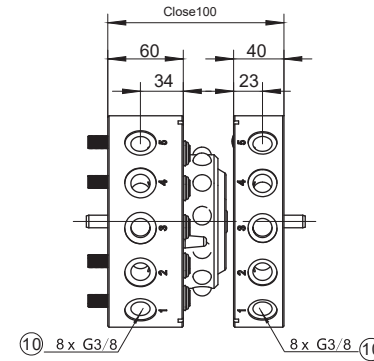
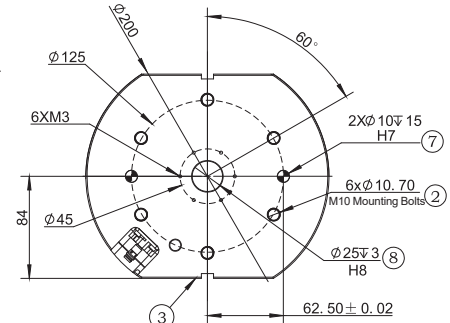
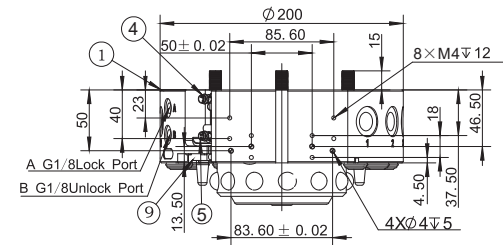
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Model	QCA-200R-SP-D1	QCA-200R-SN-D1
Signal Detection Category	PNP	NPN



Gripper side

PN	8.Y00357-D1
Model	QCA-200G-D1

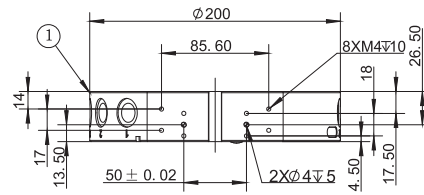
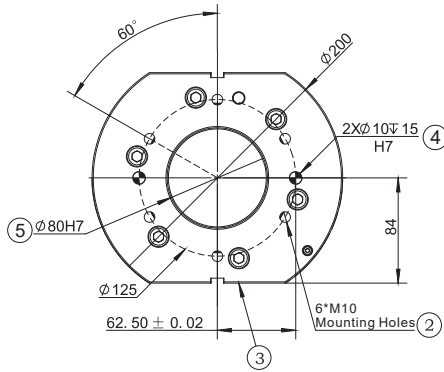
Robot Side



- A. The air connection locked
- B. Air connection released
- 1. Robot side connection
- 2. Threaded through-holes
- 3. Optional mounting surface
- 4. Monitoring position locked
- 5. Monitor position released
- 7. Positioning pin
- 8. Central positioning
- 9. Proximity switch for robot side confirmation
- 10. Straight through air hole
- 11. Straight through air hole

Quick Changer

Gripper Side



1. Gripper side connection
2. Threaded through-holes
3. Optional mounting surface
4. Positioning pin
5. Central positioning

Parameter

1. Max payload: 300kg
2. Locking force@80Psi(5.5Bar) 16000 N
3. Static Load torque(X&Y): 1360 Nm
4. Static Load torque(Z): 1130 Nm
5. Repeatability accuracy(X,Y&Z): ±0.015 mm
6. Weight after locked: 9.0 kg
7. Robot side's weight: 6.2 kg
8. Gripper side's weight: 2.8 kg
9. Maximum allowable angle deviation: ±1°
10. Size of straight air hole (quantity) : (8) 3/8

Applicable Module

Module Type

Product name	Model	PN	Voltage	Current	Connector	PN
Robot side signal module	QCSM-15R2	7.Y00468	24V	2.5A	D-Sub15R2-1000 ①	1.Y10080
Gripper side signal module	QCSM-15G2	7.Y00469	24V	2.5A	D-Sub15G2-1000 ①	1.Y10081
Robot side signal module	QCSM-08R	7.Y00477	380V	30A	3108A22-23S ②	1.Y10710
Gripper side signal module	QCSM-08G	7.Y00478	380V	30A	3108A22-23P ②	1.Y10711
Robot side signal module	QCSM-19R	7.Y00954	220V	3A	MS3116F14-19S/-Y ② CMB08E-14-19S(072)SR-B ②	1.Y11420 1.Y11863
Robot side signal module	QCSM-19R1	7.Y02123	220V	3A	MS3116F14-19S/-Y ② CMB08E-14-19S(072)SR-B ②	1.Y11420 1.Y11863
Gripper side signal module	QCSM-19G	7.Y00955	220V	3A	MS3116F14-19P/-Y ② CMB08E-14-19P(072)SR-B ②	1.Y11419 1.Y11864
Robot side signal module	QCSM-26R	7.Y00464	220V	3A	MS3116F16-26S/-Y ② CMB08E-16-26S(072)SR-B ②	1.Y11867 1.Y11865
Gripper side signal module	QCSM-26G	7.Y00465	220V	3A	MS3116F16-26P/-Y ② CMB08E-16-26P(072)SR-B ②	1.Y11369 1.Y11866
Gripper side signal module	QCSM-21/26G	7.Y02117	220V	3A	MS3116F16-26P/-Y ② CMB08E-16-26P(072)SR-B ②	1.Y11369 1.Y11866
Robot side signal module	QCSM-32R	7.Y02095	220V	3A	MS3116F22-36S ② MS3118F22-36S ②	1.Y13392 1.Y13393
Gripper side signal module	QCSM-32G	7.Y02096	220V	3A	MS3116F22-36P ② MS3118F22-36P ②	1.Y13394 1.Y13395

① The cable's length is 1 meter

② Joint only, no wire

Applicable Module

Pneumatic Extension Module

Product name	Model	PN	Gas path	Threaded hole	Product name	Model	PN	Gas path	Threaded hole
Robot side pneumatic extension module	QCAM-06G18R	7.Y01015	6	G1/8	Robot side pneumatic extension module	QCAM-14M5R	7.Y01055	14	M5
Gripper side pneumatic extension module	QCAM-06G18G	7.Y01016	6	G1/8	Gripper side pneumatic extension module	QCAM-14M5G	7.Y01056	14	M5
Robot side pneumatic extension module	QCAM-06G18R-E	7.Y01018	6	G1/8	Robot side self-proclaimed pneumatic extension module	QCAM-06G18R-F	7.Y02005	6	G1/8
Gripper side pneumatic extension module	QCAM-06G18G-E	7.Y01019	6	G1/8	Gripper side self-proclaimed pneumatic extension module	QCAM-06G18G-F	7.Y02006	6	G1/8
Robot side pneumatic extension module	QCAM-10M5R	7.Y01053	10	M5	Robot side pneumatic extension module	QCAM-04G38R	7.Y02043	4	G3/8
Gripper side pneumatic extension module	QCAM-10M5G	7.Y01054	10	M5	Gripper side pneumatic extension module	QCAM-04G38G	7.Y02044	4	G3/8

High Frequency Module Type

Product name	Model	PN	Voltage	Current
Robot side signal module	QCHFM-E14-C1R	7.Y02003	1.4KV	5A
Gripper side signal module	QCHFM-E14-C1G	7.Y02004	1.4KV	5A

Signal Module (network cable interface)

Product name	Model	PN
Robot side signal module	QCSM-RJ45-06R	7.Y02007
Gripper side signal module	QCSM-RJ45-06G	7.Y02008

Servo Signal Module

Product name	Model	PN
Robot side servo signal module	QCSM-12R	7.Y02082
Gripper side servo signal module	QCSM-12G	7.Y02083

Servo Power Module

Product name	Model	PN
Robot side servo power module	QCSM-08R1	7.Y02080
Gripper side servo power module	QCSM-08G1	7.Y02081

Self-Sealing Fluid Air Module

Product name	Model	PN
Robot side signal module	QCWM-02R	7.Y02049
Gripper side signal module	QCWM-02G	7.Y02050

Module Type



Gold-plated stitching

Electrical module: used for bus signal and servo power transmission

- The needle-like protrusions in the connection to ensure contact stability anti-interference.
- Rated voltage and current: 24V 2.5A~380V 200A(the highest standard parameters)
- Material: gold-plated pin
- Elastic pressure contact number: more than 300,000 times

Installation Method

Module Mounting mode on gripper side



Module Mounting mode on robot side



Module Type



Gold-plated stitching

Electrical module: used for bus signal and servo power transmission

- The needle-like protrusions in the connection to ensure contact stability anti-interference.
- Rated voltage and current: 24V 2.5A~380V 200A(the highest standard parameters)
- Material: gold-plated pin
- Elastic pressure contact number: more than 300,000 times

Installation Method

Module Mounting mode on gripper side



Module Mounting mode on robot side



1000000 components

① The wire's length is 1 meters ② Joint only, no wire

 116

Signal Module

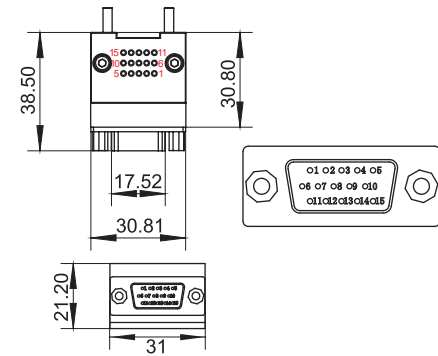
QCSM-15R1

Robot side module



PN	7.Y00965
Model	QCSM-15R1

- ※ Voltage: 24V
- ※ Current: 2.5A
- ※ Weight: 30.5g
- ※ Suitable for: QCA05, QCA15, QCA25



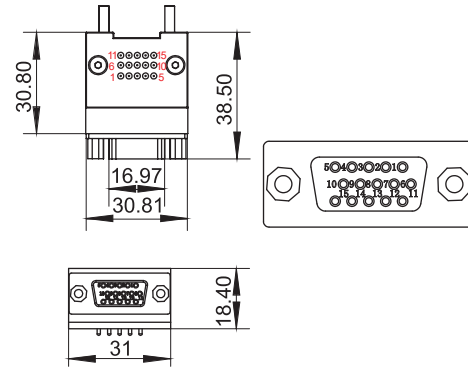
QCSM-15G1

Gripper side module



PN	7.Y00966
Model	QCSM-15G1

- ※ Voltage: 24V
- ※ Current: 2.5A
- ※ Weight: 29.8g



Signal Module-Straight Out Line

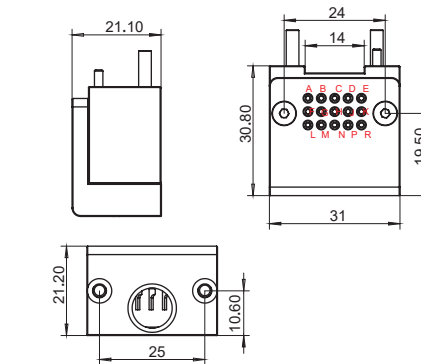
QCSM-15R1-1000

Robot side module



PN	7.Y02097
Model	QCSM-15R1-1000

- ※ Voltage: 24V
- ※ Current: 2.5A
- ※ Weight: 152g
- ※ The wire's length is 1 meters(Customizable)
- ※ Suitable for: QCA05, QCA15, QCA25



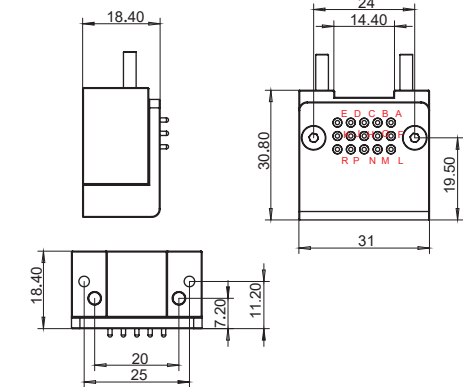
QCSM-15G1-1000

Gripper side module

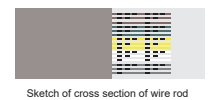
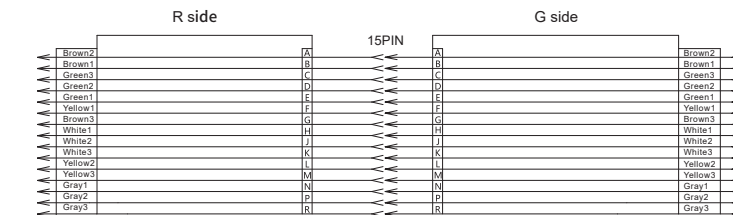


PN	7.Y02098
Model	QCSM-15G1-1000

- ※ Voltage: 24V
- ※ Current: 2.5A
- ※ Weight: 158g
- ※ The wire's length is 1 meters(Customizable)



Wiring diagram



Sketch of cross section of wire rod

Signal Module

QCSM-15R2

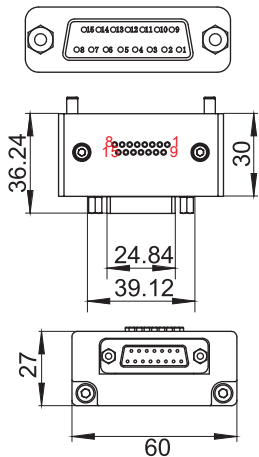
Robot side module



PN	7.Y00468
Model	QCSM-15R2

- ※ Voltage: 24V
- ※ Current: 2.5A
- ※ Weight: 68g

※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1



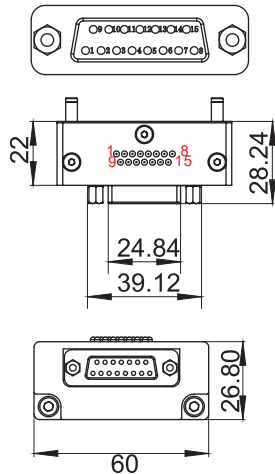
QCSM-15G2

Gripper side module



PN	7.Y00469
Model	QCSM-15G2

- ※ Voltage: 24V
- ※ Current: 2.5A
- ※ Weight: 48.5g



Signal Module

QCSM-19R

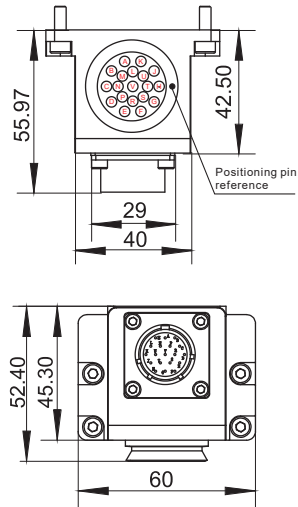
Robot side module



PN	7.Y00954
Model	QCSM-19R

- ※ Voltage: 220V
- ※ Current: 3A
- ※ Weight: 178.3g

※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1



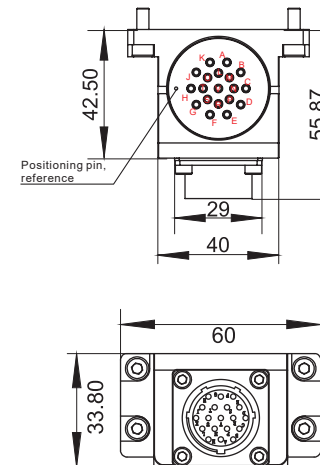
QCSM-19G

Gripper side module



PN	7.Y00955
Model	QCSM-19G

- ※ Voltage: 220V
- ※ Current: 3A
- ※ Weight: 130.7g



Signal Module

QCSM-19R1

Robot side module



Points to note

- 1, Module installation, must be fixed in place, to avoid causing damage to the needle lead to poor signal transmission
- 2, Module replacement, must ensure that the power cut after the operation
- 3, Do not disconnect the signal connector during signal transmission
- 4, Module maintenance, regular use of brush clean contact surface

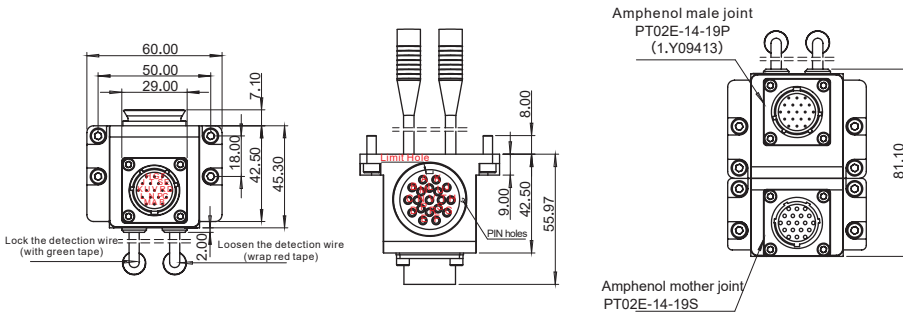
PN	7.Y02123
Model	QCSM-19R1

※ Voltage: 220V

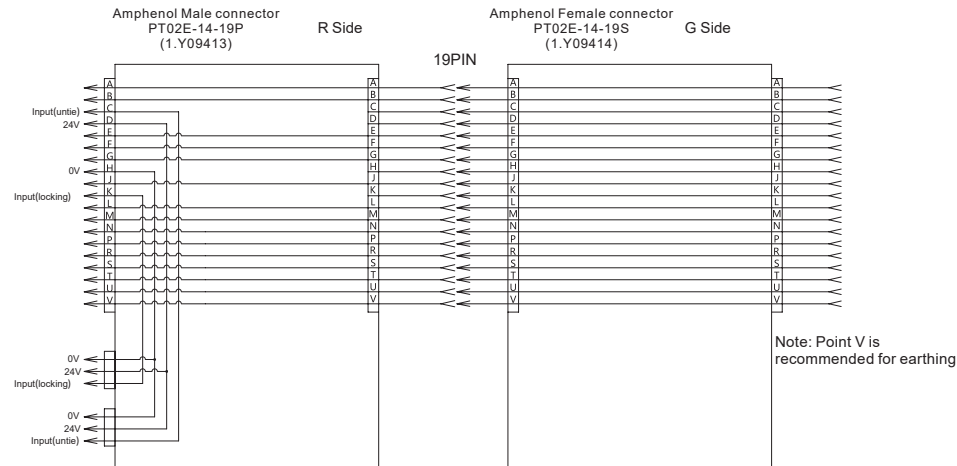
※ Current: 3A

※ Weight: 309g

※ Suitable for: QCA35, QCA50, QCA50, QCA100, QCA100, QCA150, QCA200, QCA200-D1



Wiring diagram



Signal Module

QCSM-26R

Robot side module



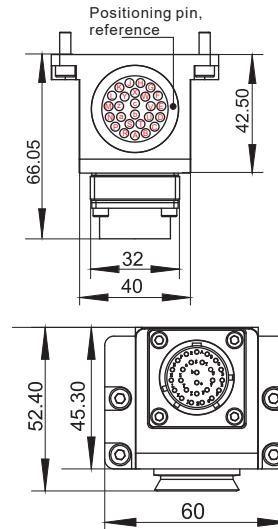
PN	7.Y00464
Model	QCSM-26R

※ Voltage: 220V

※ Current: 3A

※ Weight: 198.5g

※ Suitable for: QCA35, QCA50, QCA50, QCA100, QCA100, QCA150, QCA200, QCA200-D1



QCSM-26G

Gripper side module

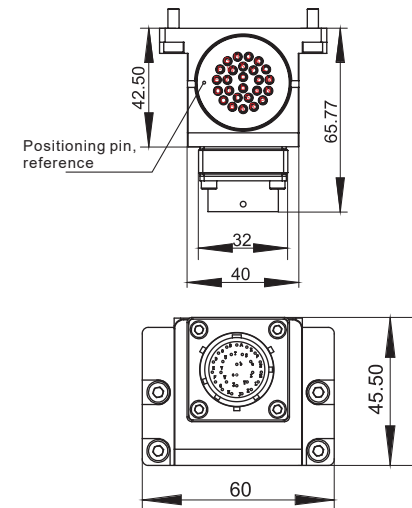


PN	7.Y00465
Model	QCSM-26G

※ Voltage: 220V

※ Current: 3A

※ Weight: 178.2g



Signal Module

QCSM-21/26G

Gripper side module



Application scenarios

In a device using multiple tools (fixtures) , you can identify the corresponding tools (fixtures) code, can effectively prevent tool misuse.

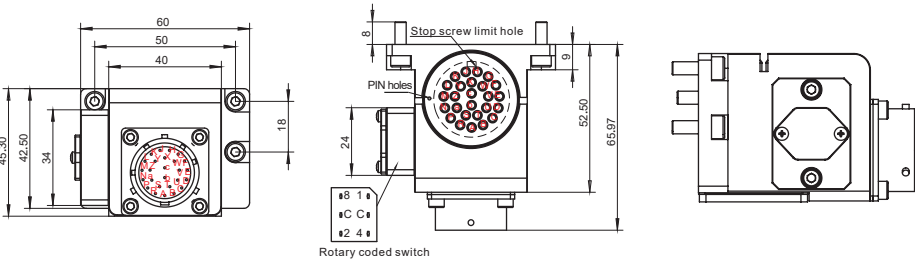
PN	7.Y02117
Model	QCSM-21/26G

※ Voltage: 220V

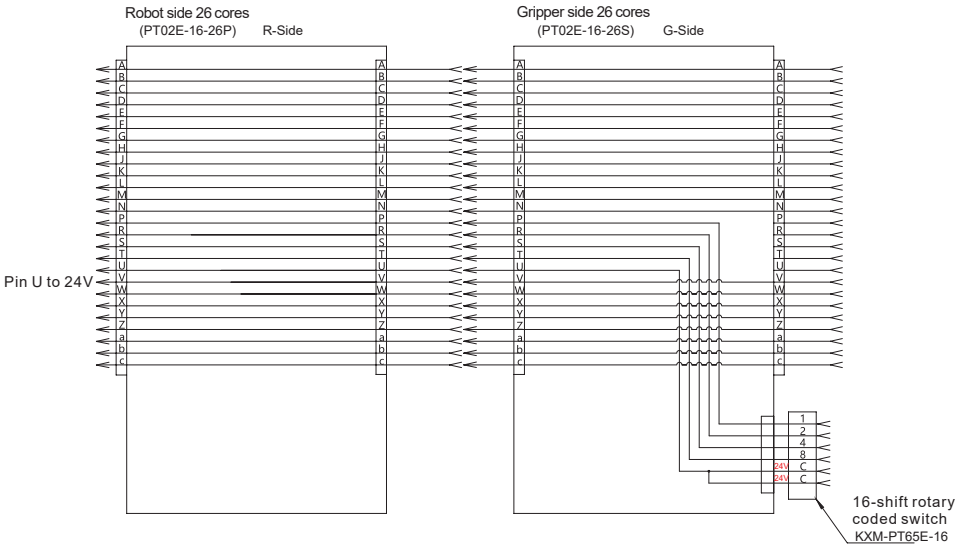
※ Current: 3A

※ Weight: 226g

※ Suitable for: QCA35, QCA50, QCA50, QCA100, QCA100, QCA150, QCA200, QCA200-D1



Wiring diagram



Signal Module

QCSM-32R

Robot side module



QCSM-32G

Gripper side module



PN	7.Y02095
Model	QCSM-32R

※ Aluminum alloy protective housing

※ Master disc tension detection sensor

※ Voltage: 220V

※ Current: 3A

※ Weight: 284g

※ Suitable for: QCA35, QCA50, QCA50, QCA100, QCA100, QCA150, QCA200, QCA200-D1

PN	7.Y02096
Model	QCSM-32G

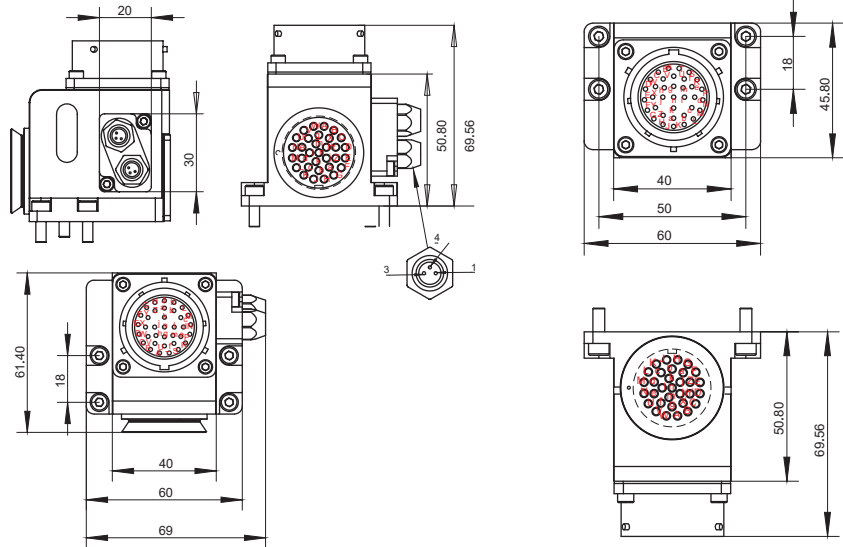
※ Aluminum alloy protective housing

※ Master disc tension detection sensor

※ Voltage: 220V

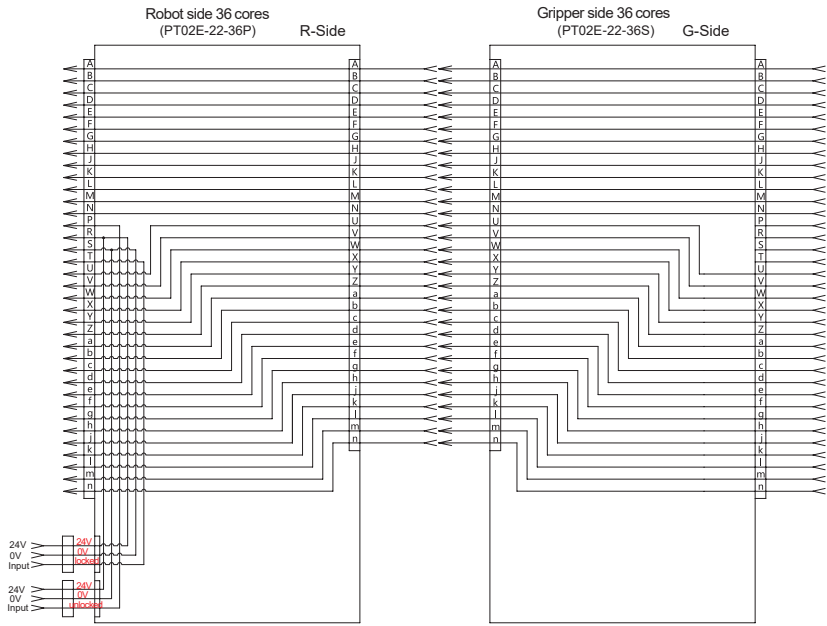
※ Current: 3A

※ Weight: 207g



Signal Module

Wiring diagram



Power Module

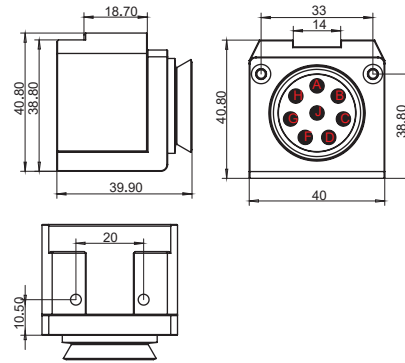
QCSM-08R-1000

Robot side module



PN	7.Y02084
Model	QCSM-08R-1000

- ※ Voltage: 380V
- ※ Current: 24A
- ※ Weight: 468g
- ※ The wire's length is 1 meters (Customizable)
- ※ Suitable for: QCA05, QCA15, QCA25



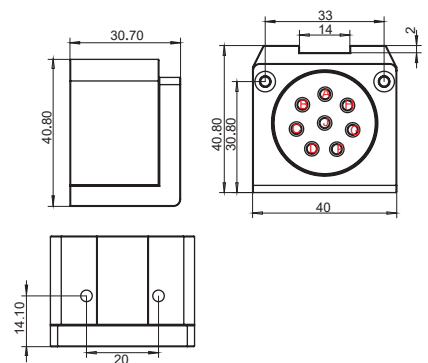
QCSM-08G-1000

Gripper side module

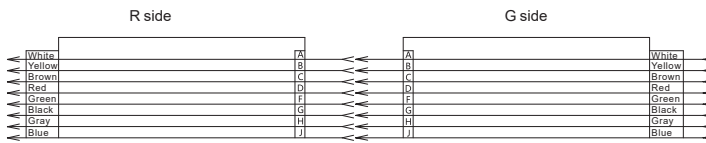


PN	7.Y02085
Model	QCSM-08G-1000

- ※ Voltage: 380V
- ※ Current: 24A
- ※ Weight: 487g
- ※ The wire's length is 1 meters (Customizable)



Wiring diagram



Sketch of cross section of wire rod

Power Module

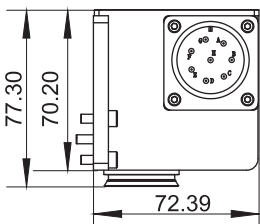
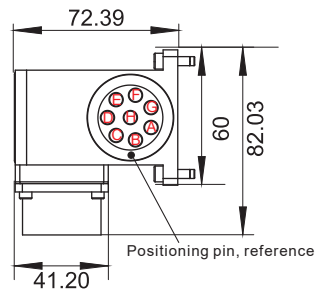
QCSM-08R

Robot side module



PN	7.Y00477
Model	QCSM-08R

- ※ Voltage: 380V
- ※ Current: 30A
- ※ Weight: 434.7g
- ※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1



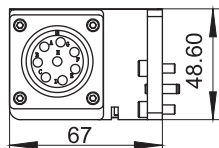
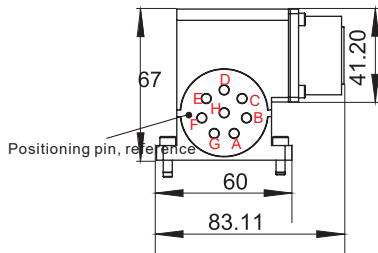
QCSM-08G

Gripper side module



PN	7.Y00478
Model	QCSM-08G

- ※ Voltage: 380V
- ※ Current: 30A
- ※ Weight: 330g



Power Module

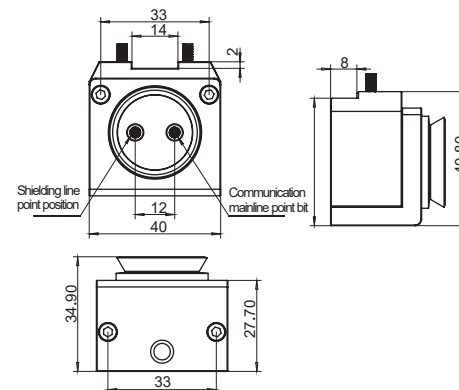
QCHFМ-02R-1000

Robot side module

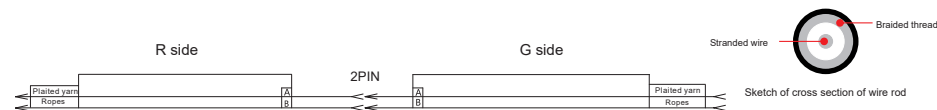


PN	7.Y02086
Model	QCHFМ-02R-1000

- ※ Voltage: 1.4KV
- ※ Current: 5A
- ※ Weight: 138g
- ※ The wire's length is 1 meters(Customizable)
- ※ Suitable for: QCA05, QCA15, QCA25



Wiring diagram



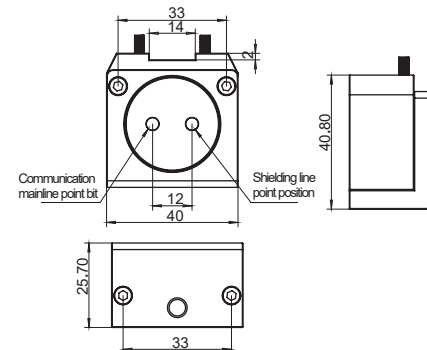
QCHFМ-02G-1000

Gripper side module



PN	7.Y02087
Model	QCHFМ-02G-1000

- ※ Voltage: 1.4KV
- ※ Current: 5A
- ※ Weight: 122g
- ※ The wire's length is 1 meters(Customizable)



Power Module

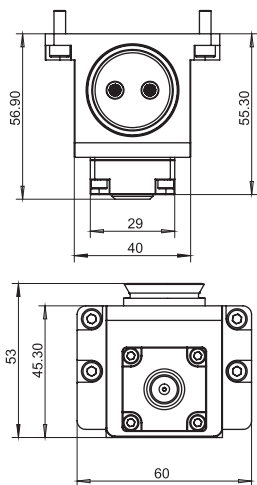
QCHFM-E14-C1R

Robot side module



PN	7.Y02003
Model	QCHFM-E14-C1R

- ※ Voltage: 1.4KV
- ※ Current: 5A
- ※ Weight: 194.5g
- ※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1



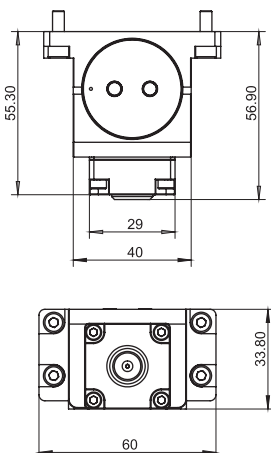
QCHFM-E14-C1G

Gripper side module



PN	7.Y02004
Model	QCHFM-E14-C1G

- ※ Voltage: 1.4KV
- ※ Current: 5A
- ※ Weight: 151g



Servo Module

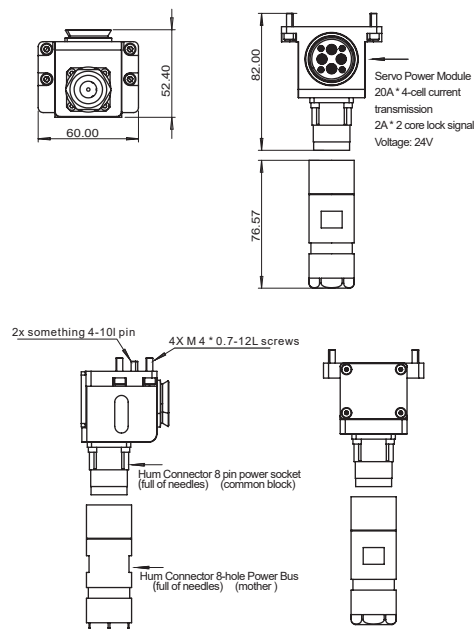
QCSM-08R1

Robot side module



PN	7.Y02080
Model	QCSM-08R1

- ※ 20A* 4-core current transmission
- ※ 2A*2 core lock signal
- ※ Voltage: 24V
- ※ Weight: 310.5g
- ※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1



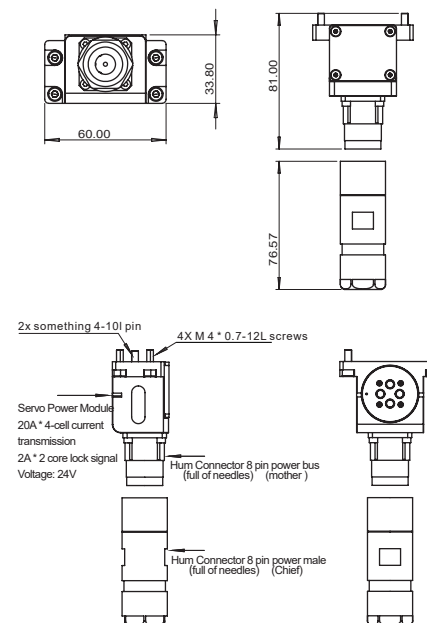
QCSM-08G1

Gripper side module



PN	7.Y02081
Model	QCSM-08G1

- ※ 20A* 4-core current transmission
- ※ 2A*2 core lock signal
- ※ Voltage: 24V
- ※ Weight: 262.2g



Servo Module

QCSM-12R

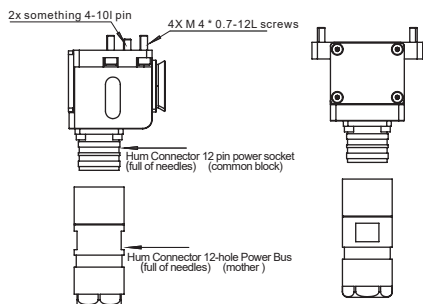
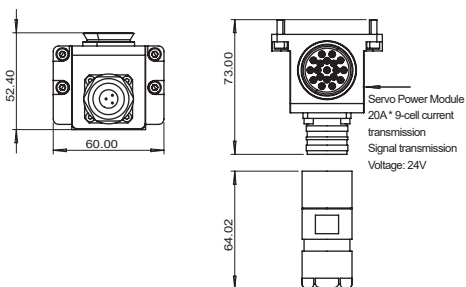
Robot side module

NEW



PN	7.Y02082
Model	QCSM-12R

- ※ Voltage: 24V
- ※ 2A * 9 cores
- ※ Encoder signal transmission
- ※ Weight: 274.4g
- ※ Suitable for: QCA35, QCA50, QCA50, QCA100, QCA100, QCA150, QCA200, QCA200-D1



QCSM-12G

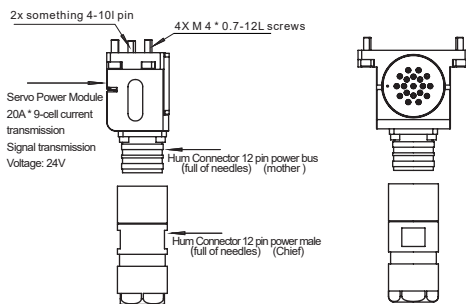
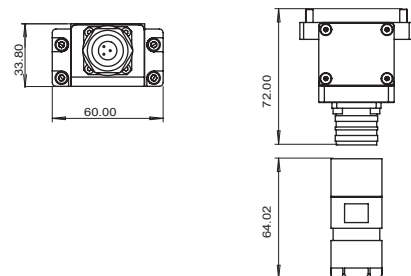
Gripper side module

NEW



PN	7.Y02083
Model	QCSM-12G

- ※ Voltage: 24V
- ※ 2A * 9 cores
- ※ Encoder signal transmission
- ※ Weight: 219.4g



Communication Module

QCSM-RJ45*5M-06R

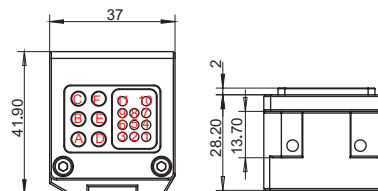
Robot side module

NEW

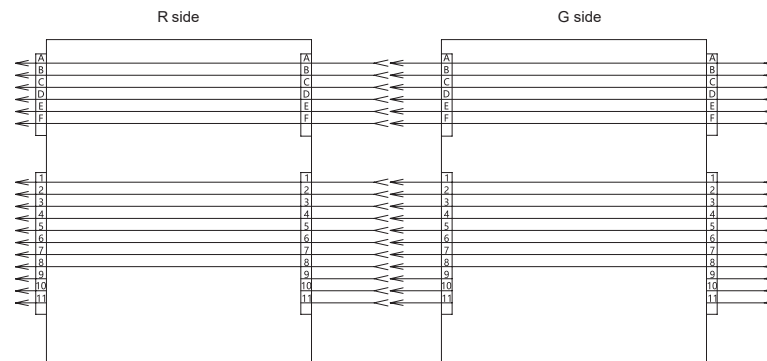


PN	7.Y02129
Model	QCSM-RJ45*5M-06R

- ※ Voltage: 220V
- ※ Current: 3A
- ※ Weight: 135g
- ※ The wire's length is 1 meters(Customizable)
- ※ Suitable for: QCA05, QCA15, QCA25



Wiring diagram



QCSM-RJ45*5M-06G

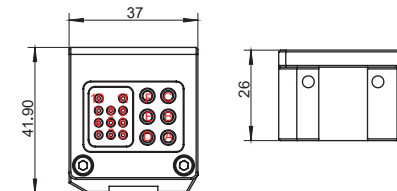
Gripper side module

NEW



PN	7.Y02130
Model	QCSM-RJ45*5M-06G

- ※ Voltage: 220KV
- ※ Current: 3A
- ※ Weight: 119g
- ※ The wire's length is 1 meters(Customizable)



Communication Module

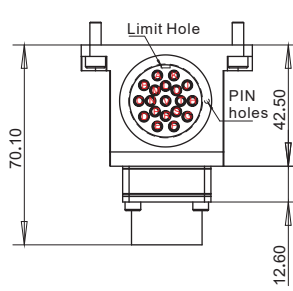
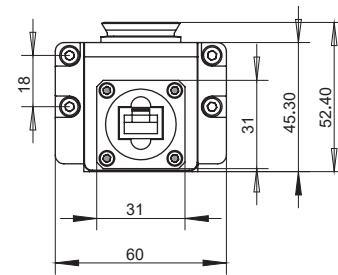
QCSM-RJ45-06R

Robot side module



PN	7.Y02007
Model	QCSM-RJ45-06R

- ※ RJ45100 megabit network port
- ※ Weight: 194.5g
- ※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1



- 1, RJ45 interface
- 2, RD stable connection technology
- 3, Aluminum alloy protective shell

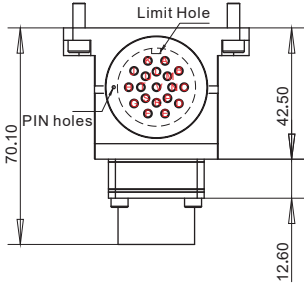
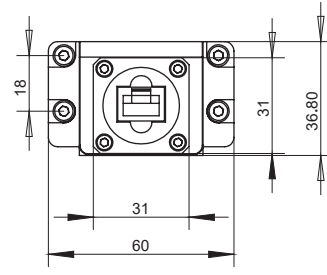
QCSM-RJ45-06G

Gripper side module



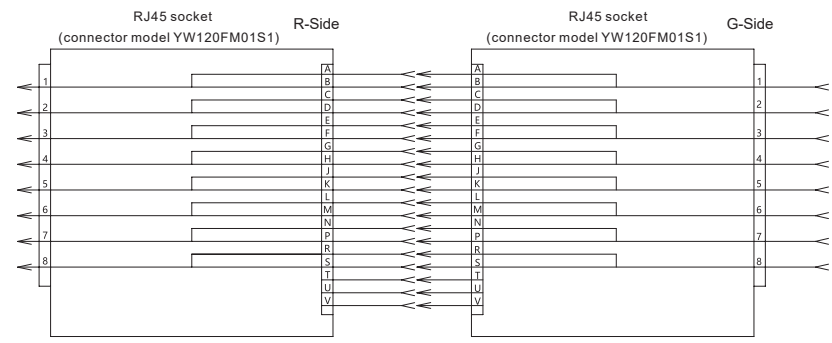
PN	7.Y02008
Model	QCSM-RJ45-06G

- ※ RJ45100 megabit network port
- ※ Weight: 151g



Communication Module

Wiring Diagram



Optional



Rj45 Network Interface

PN	1.Y13396
Model	YM110Fm01S1-01

Profile SUS Tube
Stems Module
Quick Charger
Grip Module
Air Nipper
Vacuum Module
Accessory Components

Profile SUS Tube
Stems Module
Quick Charger
Grip Module
Air Nipper
Vacuum Module
Accessory Components

Pneumatic Module

QCAM-06G18R

Robot side module



PN	7.Y01015
Model	QCAM-06G18R

※ Weight: 141.4g
※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1

QCAM-06G18G

Gripper side module



PN	7.Y01016
Model	QCAM-06G18G

※ Weight: 140.9g

Pneumatic Module

QCAM-06G18R-E

Robot side module



PN	7.Y01018
Model	QCAM-06G18R-E

※ Weight: 145g
※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1

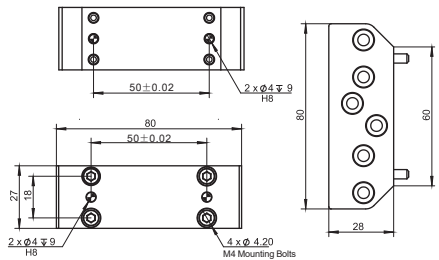
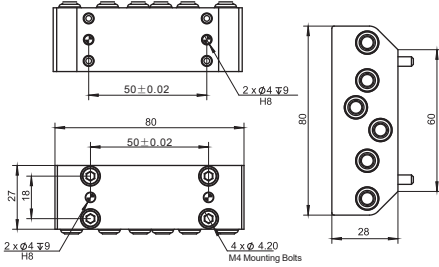
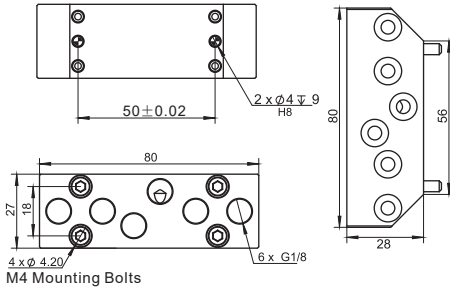
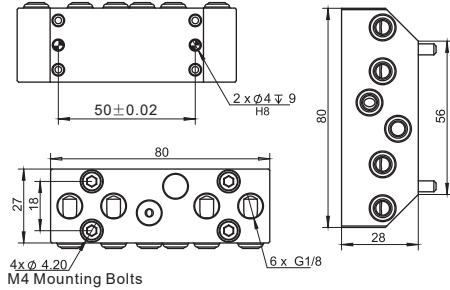
QCAM-06G18G-E

Gripper side module



PN	7.Y01019
Model	QCAM-06G18G-E

※ Weight: 148g



Profile SUS Tube
Stems Module
Quick Changer
Grip Module
Air Nipper
Vacuum Module
Accessory Components

Profile SUS Tube
Stems Module
Quick Changer
Grip Module
Air Nipper
Vacuum Module
Accessory Components

Pneumatic Module-Self-sealing

QCAM-06G18R-F

Robot side module



PN	7.Y02005
Model	QCAM-06G18R-F

- ※ Weight: 150g
※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1

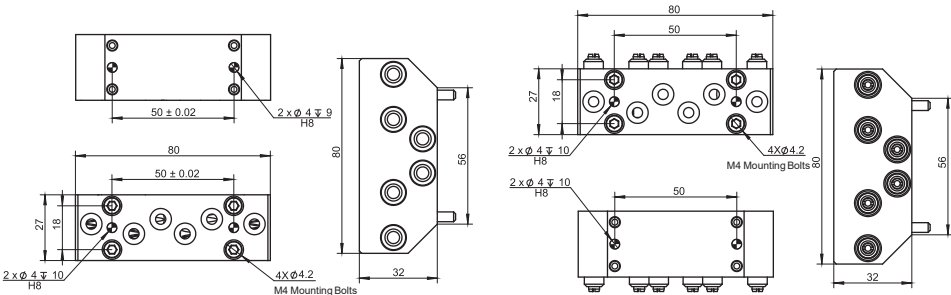
QCAM-06G18G-F

Gripper side module



PN	7.Y02006
Model	QCAM-06G18G-F

- ※ Weight: 152g



Pneumatic Module

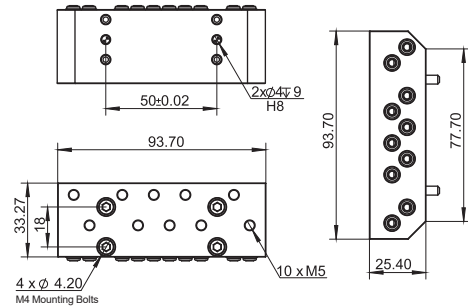
QCAM-10M5R

Robot side module



PN	7.Y01053
Model	QCAM-10M5R

- ※ Weight: 263.9g
※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1



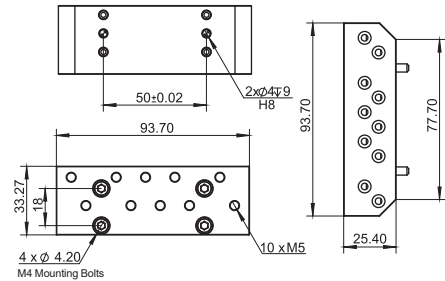
QCAM-10M5G

Gripper side module



PN	7.Y01054
Model	QCAM-10M5G

- ※ Weight: 267.9g



Pneumatic Module

QCAM-14M5R

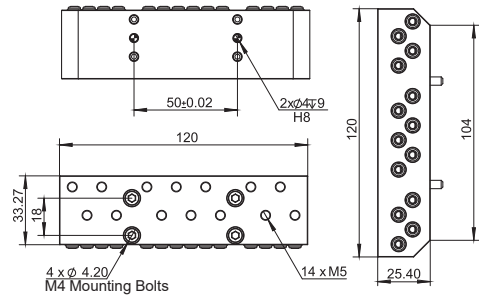
Robot side module



PN	7.Y01055
Model	QCAM-14M5R

※ Weight: 207.4g

※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1



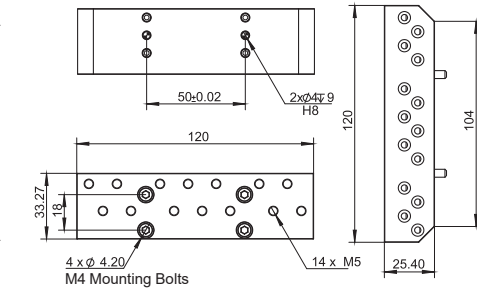
QCAM-14M5G

Gripper side module



PN	7.Y01056
Model	QCAM-14M5G

※ Weight: 210.3g



Pneumatic Module

QCAM-04G38R

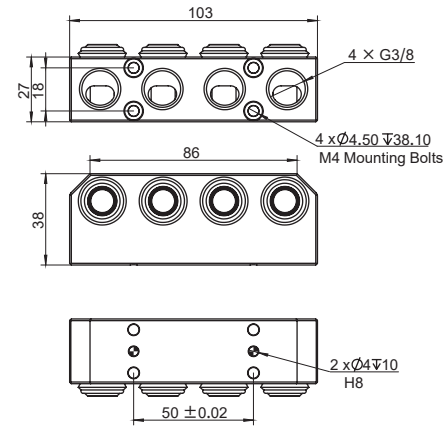
Robot side module



PN	7.Y02043
Model	QCAM-04G38R

※ Weight: 242g

※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1



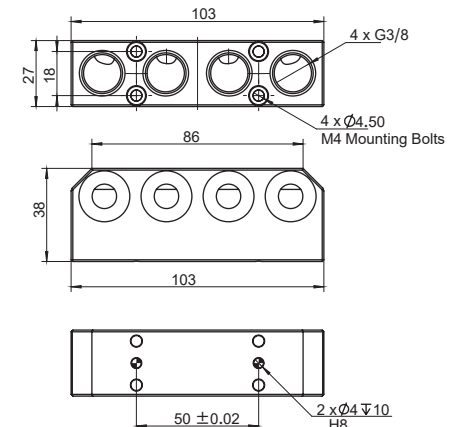
QCAM-04G38G

Gripper side module



PN	7.Y02044
Model	QCAM-04G38G

※ Weight: 213.4g



Water-Pneumatic Module

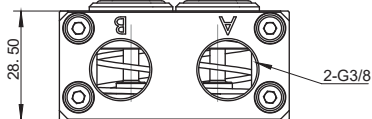
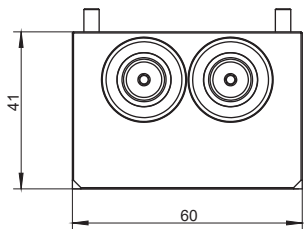
QCWM-02R

Robot side module



PN	7.Y02049
Model	QCWM-02R

- ※ Material: Stainless steel housing
- ※ Weight: 393.6g
- ※ Suitable for: QCA35, QCA50, QCAS50, QCA100, QCAS100, QCAS150, QCA200, QCA200-D1



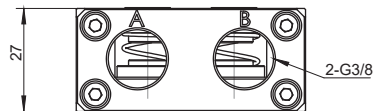
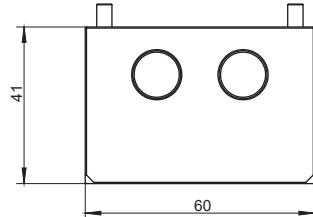
QCWM-02G

Gripper side module



PN	7.Y02050
Model	QCWM-02G

- ※ Material: Stainless steel housing
- ※ Weight: 379g



Quick Changer Signal Cable

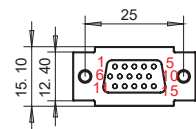
DB15R1-1000

15 core quick changer signal cable (female head)

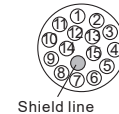


PN	1.Y10163
Model	DB15R1-1000

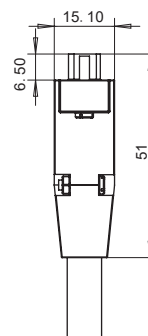
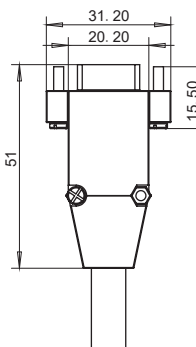
- ※ Weight: 125.7g
- ※ The wire's length is 1 meters



Sketch of signal line section



Shield line



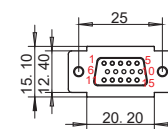
DB15G1-1000

15 core quick changer signal cable (male head)

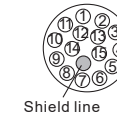


PN	1.Y10437
Model	DB15G1-1000

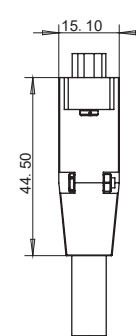
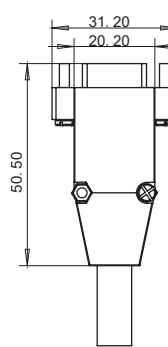
- ※ Weight: 123.7g
- ※ The wire's length is 1 meters



Sketch of signal line section



Shield line



Quick Changer Signal Cable

D-Sub15R2-1000

15 core quick changer signal cable (female head)



PN	1.Y10080
Model	D-Sub15R2-1000

- ※ Weight: 142g
- ※ The wire's length is 1 meters

D-Sub15G2-1000

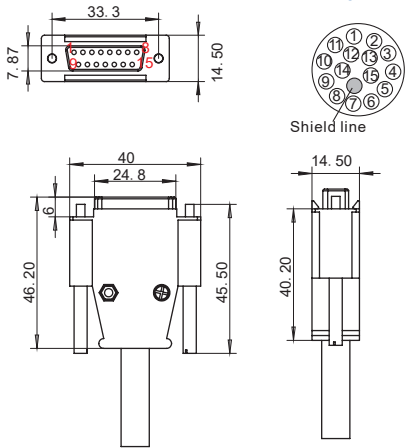
15 core quick changer signal cable (male head)



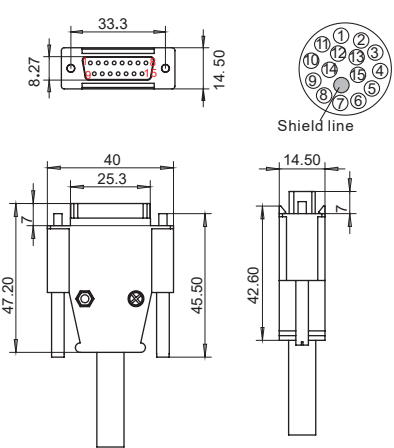
PN	1.Y10081
Model	D-Sub15G2-1000

- ※ Weight: 141.4g
- ※ The wire's length is 1 meters

Sketch of signal line section



Sketch of signal line section



90°Connector

3108A22-23S

8 core 90° connector (female head)



PN	1.Y10710
Model	3108A22-23S

- ※ Weight: 149.3g
- ※ Suitable for: QCSM-08R

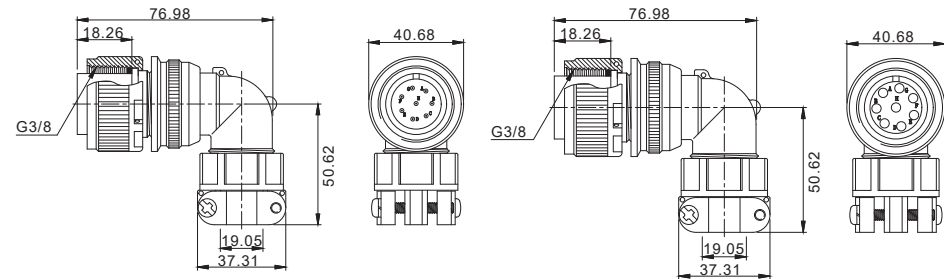
3108A22-23P

8 core 90° connector (male head)



PN	1.Y10711
Model	3108A22-23P

- ※ Weight: 119.2g
- ※ Suitable for: QCSM-08G



90°Connector

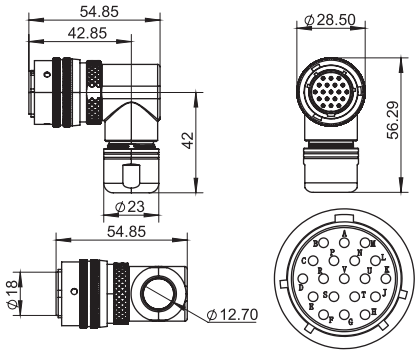
CMB08E-14-19S(072)SR-B

19 core 90° connector (female head)



PN	1.Y11863
Model	CMB08E-14-19S(072)SR-B

※ Weight: 81.1g
※ Suitable for: QCSM-19R



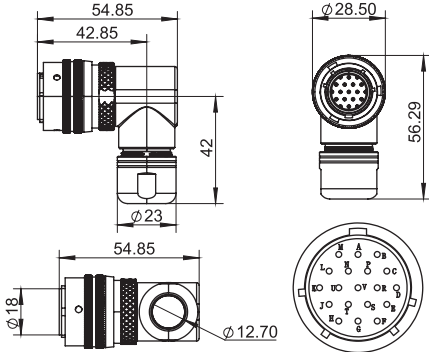
CMB08E-14-19P(072)SR-B

19 core 90° connector (male head)



PN	1.Y11864
Model	CMB08E-14-19P(072)SR-B

※ Weight: 79.2g
※ Suitable for: QCSM-19G



90°Connector

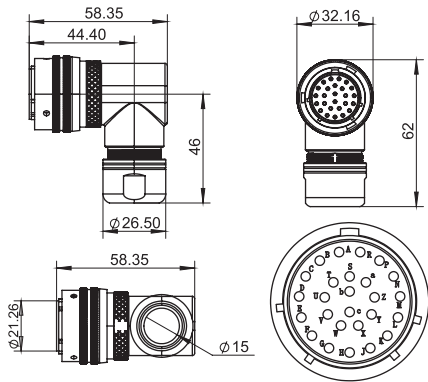
CMB08E-16-26S(072)SR-B

26 core 90° connector (female head)



PN	1.Y11865
Model	CMB08E-16-26S(072)SR-B

※ Weight: 99.5g
※ Suitable for: QCSM-21/26R



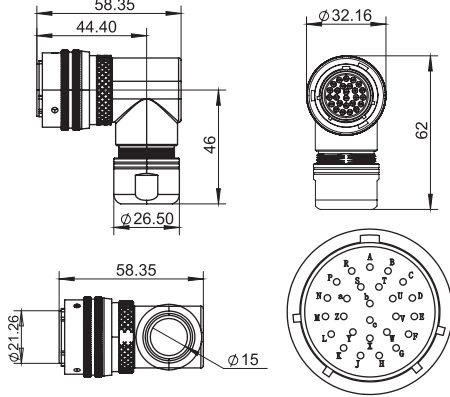
CMB08E-16-26P(072)SR-B

26 core 90° connector (male head)



PN	1.Y11866
Model	CMB08E-16-26P(072)SR-B

※ Weight: 96.4g
※ Suitable for: QCSM-21/26G



Connector

MS3116F14-19S

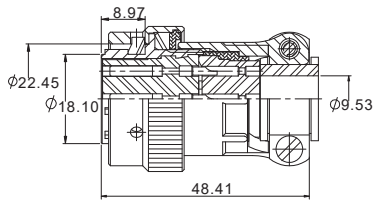
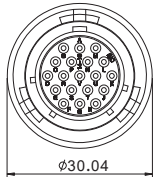
19 core straight connector (female head)



PN	1.Y11420	1.Y11420-Y
Model	MS3116F14-19S	MS3116F14-19S-Y

※ Weight: 36.8g

※ Suitable for: QCSM-19R



MS3116F14-19P

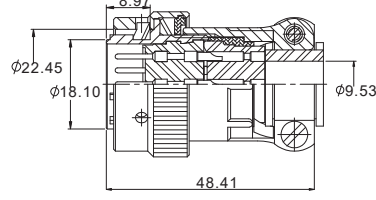
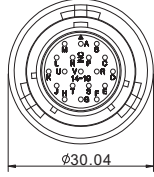
19 core straight connector (male head)



PN	1.Y11419	1.Y11419-Y
Model	MS3116F14-19P	MS3116F14-19P-Y

※ Weight: 36.8g

※ Suitable for: QCSM-19G



Connector

MS3116F16-26S

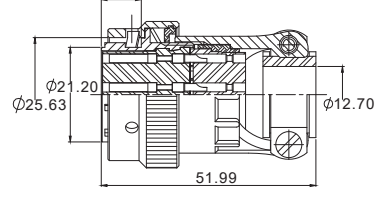
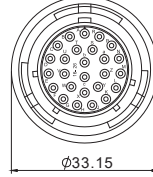
26 core straight connector (female head)



PN	1.Y11867	1.Y11867-Y
Model	MS3116F16-26S	MS3116F16-26S-Y

※ Weight: 44.8g

※ Suitable for: QCSM-21/26R



MS3116F16-26P

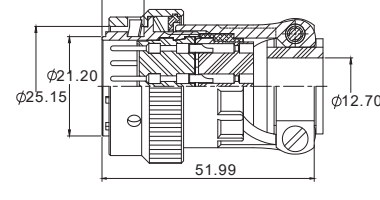
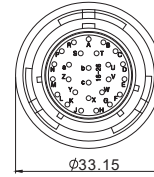
26 core straight connector (male head)



PN	1.Y11369	1.Y11369-Y
Model	MS3116F16-26P	MS3116F16-26P-Y

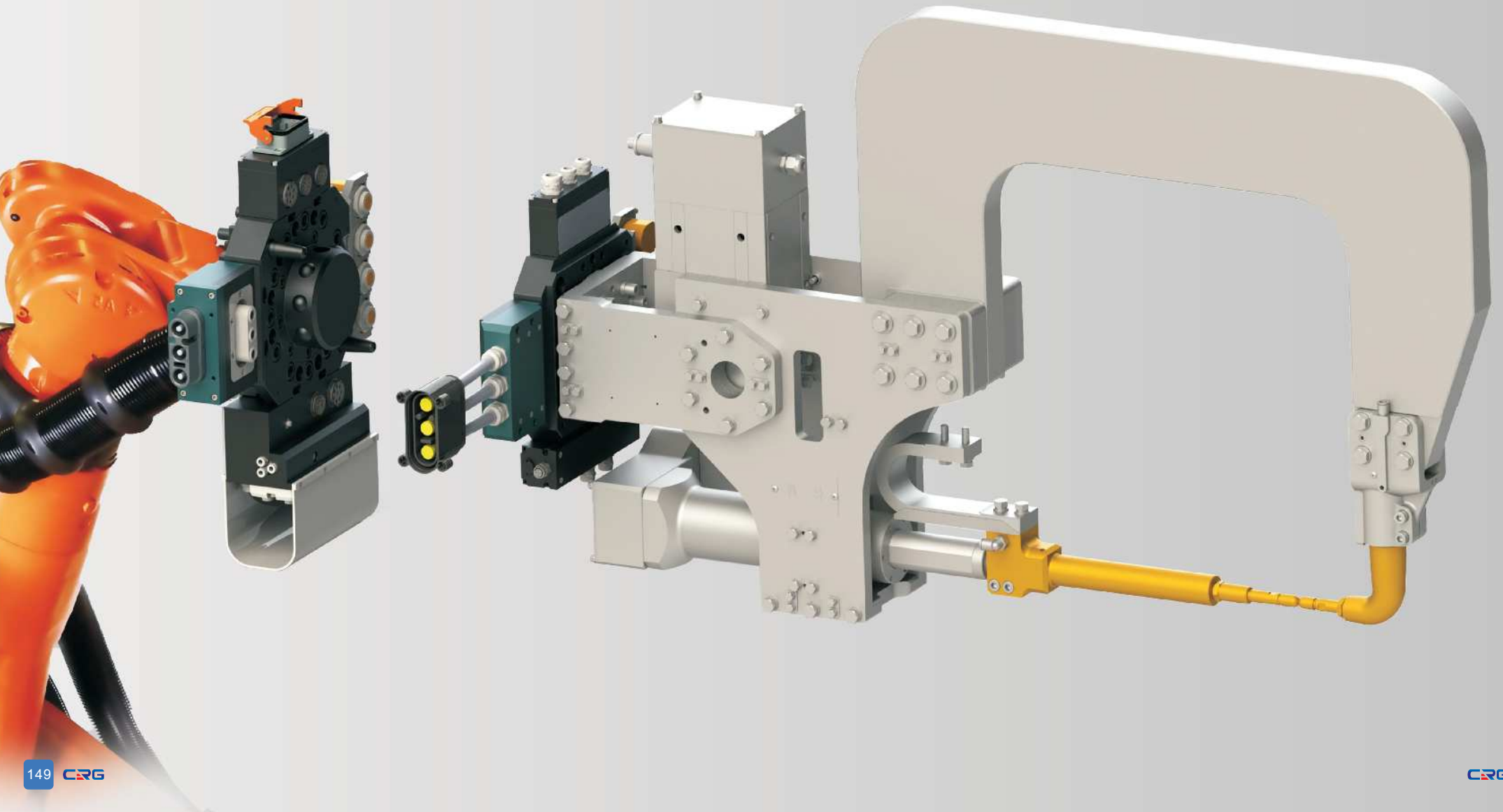
※ Weight: 44.8g

※ Suitable for: QCSM-21/26G



|| A Quick Changer Device At The End Of A Robot

- Quick changer applied in the automotive industry for spot welding, high current docking switching, handling of largepay loads, payloads up to 500kgs.



Quick Changer

QCA-S350



NEW



NEW

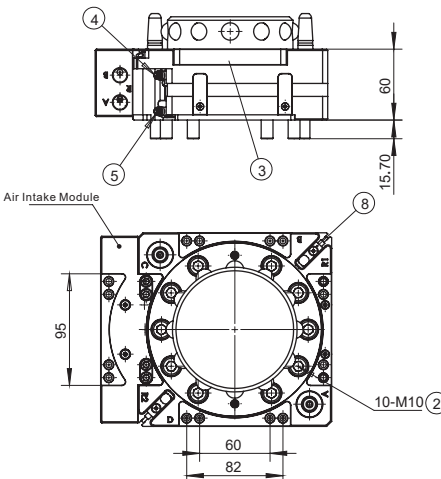
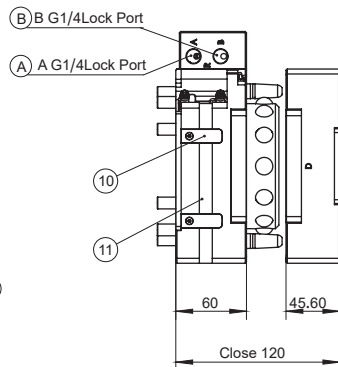
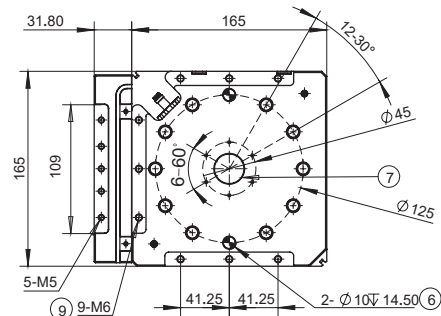
Robot side

PN	8.Y01009
Model	QCA-S350R-SP

Gripper side

PN	8.Y01010
Model	QCA-S350G

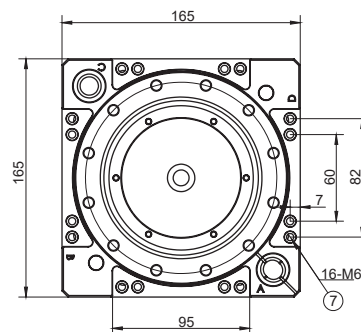
Robot Side



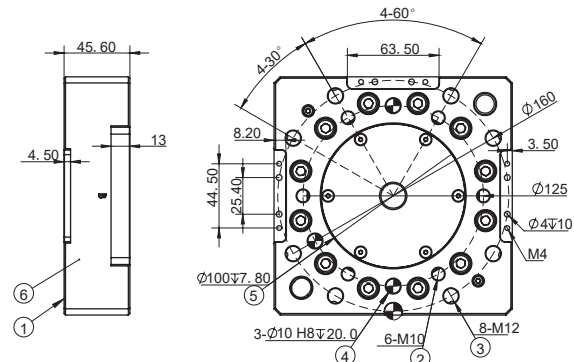
- A. The air connection locked
- B. Air connection released
- 2. Connection screw M10
- 3. Optional mounting surface
- 4. Monitoring position locked
- 5. Monitor position released
- 6. Positioning pin
- 7. Central positioning
- 8. Proximity switch for robot side confirmation
- 9. Optional fitting for mounting screw holes
- 10. Signal line pressure plate
- 11. Signal line slot

Quick Changer

Gripper Side



- 1. Gripper side connection
- 2. Install fixed screw hole M10
- 3. Install fixed screw hole M12



- 4. Positioning pin
- 5. Central positioning
- 6. Optional fitting mounting surface
- 7. Optional fitting for mounting mounting screws

Parameter

- 1. Max payload: 350kg
- 2. Locking force@80Psi (5.5Bar) 31000 N
- 3. Static load torque(X&Y): 2710 Nm
- 4. Static load torque(Z): 2260 Nm
- 5. Repeatability accuracy(X,Y&Z): ±0.015 mm
- 6. Weight after locked: 9.4kg
- 7. Robot side's weight: 6.5 kg
- 8. Gripper side's weight: 2.9 kg
- 9. Maximum allowable angle deviation: ±1°

Applicable Module

Welding Power Module

Product name	Model	PN
Robot side welding power module	QCSM-03R	7.Y02069
Gripper side welding power module	QCSM-03G	7.Y02070

Waterway Module

Product name	Model	PN
Robot side waterway module	QCWM-04R1	7.Y02071
Gripper side waterway module	QCWM-04G1	7.Y02072

Pneumatic Extension Module

Product name	Model	PN
Robot side self-proclaimed pneumatic extension module	QCAM-08G38R	7.Y02051
Gripper side self-proclaimed pneumatic extension module	QCAM-08G38G	7.Y02052

Quick Changer

QCA-S500



Robot side

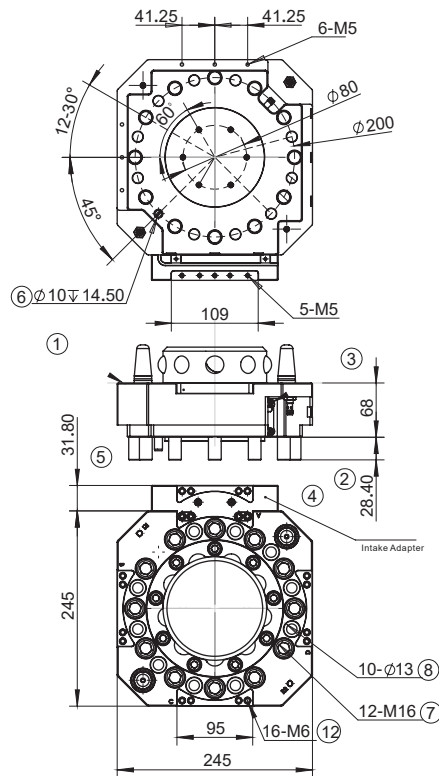
PN	8.Y01015
Model	QCA-S500R-SP



Gripper side

PN	8.Y01016
Model	QCA-S500G

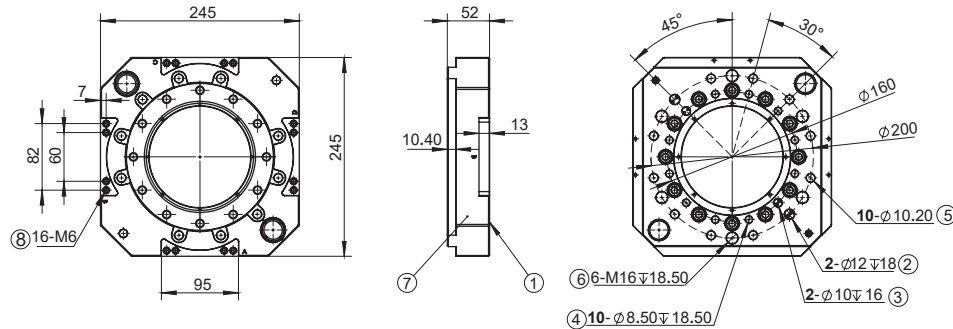
Robot Side



- A. The air connection locked
B. Air connection released
1. Robot side connection
 2. Robot side confirm proximity switch
 3. Monitor position released
 4. Monitoring position locked
 5. Optional mounting surface
 6. Positioning pin
 7. Connection screw M16-12
 8. Through hole for screw installation
 9. Signal line pressure plate
 10. Signal line slot
 11. Intake Adapter
 12. Optional fitting for mounting screw holes

Quick Changer

Gripper Side



Parameter

1. Max payload: 500kg
2. Locking force@80Psi (5.5Bar) 38000 N
3. Static load torque(X&Y): 3290 Nm
4. Static load torque(Z): 3160 Nm
5. Repeatability accuracy(X,Y&Z): ± 0.015 mm
6. Weight after locked: 23.4kg
7. Robot side's weight: 15.9 kg
8. Gripper side's weight: 7.5 kg
9. Maximum allowable angle deviation: $\pm 1^\circ$

Applicable Module

Welding Power Module

Product name	Model	PN
Robot side welding power module	QCSM-03R	7.Y02069
Gripper side welding power module	QCSM-03G	7.Y02070

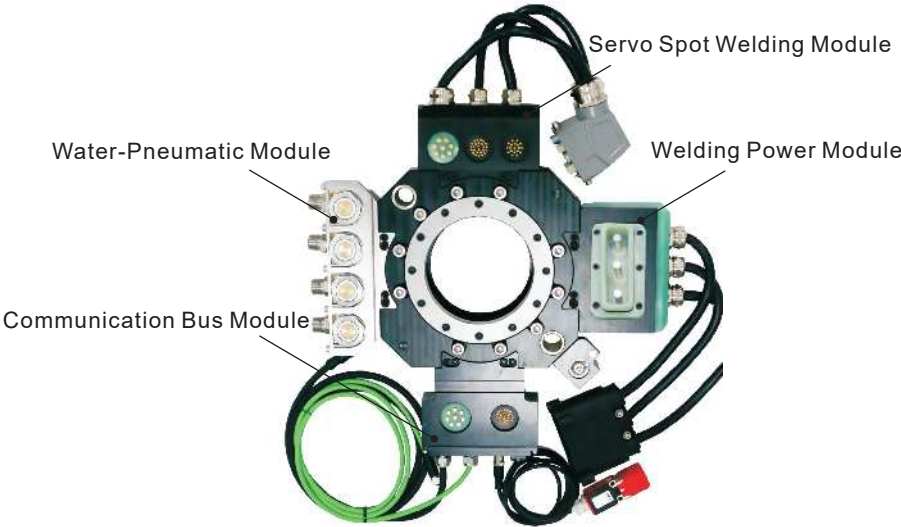
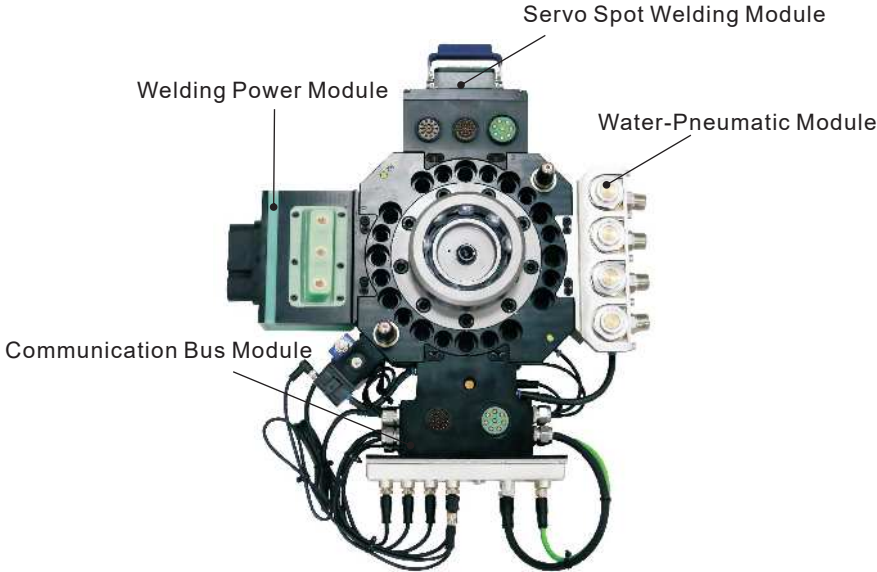
Pneumatic Extension Module

Product name	Model	PN
Robot side self-proclaimed pneumatic extension module	QCAM-08G38R	7.Y02051
Gripper side self-proclaimed pneumatic extension module	QCAM-08G38G	7.Y02052

Waterway Module

Product name	Model	PN
Robot side waterway module	QCWM-04R1	7.Y02071
Gripper side waterway module	QCWM-04G1	7.Y02072

Can be adapted to more modules by adding addition intake adapter module



Water-Pneumatic Module

QCWM-04R1

Robot side module



PN	7.Y02071
Model	QCWM-04R1

※ Weight: 3.25Kg
※ Suitable for : QCAS350, QCAS500

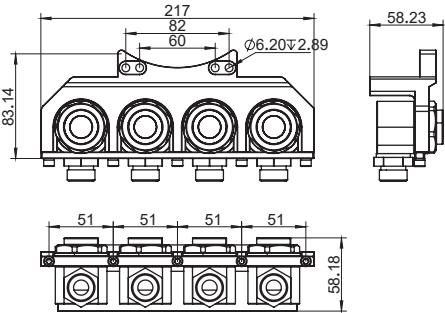
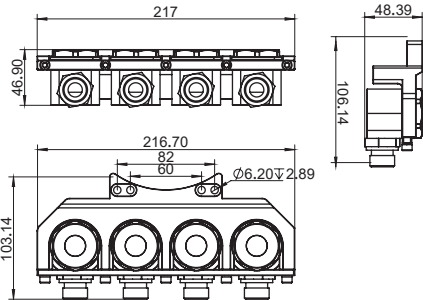
QCWM-04G1

Gripper side module



PN	7.Y02072
Model	QCWM-04G1

※ Weight: 2.96Kg



Welding Power Module

QCSM-03R

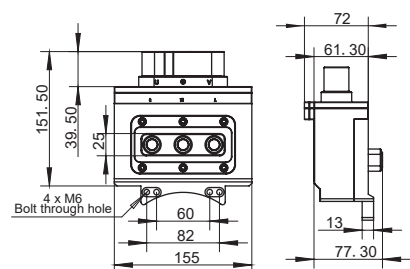
Robot side module



PN	7.Y02069
Model	QCSM-03R

※ Weight: 2.6Kg

※ Suitable for : QCAS350, QCAS500



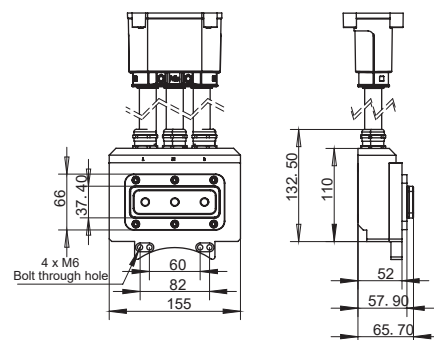
QCSM-03G

Gripper side module



PN	7.Y02070
Model	QCSM-03G

※ Weight: 1.85Kg



Pneumatic Module

QCAM-08G38R

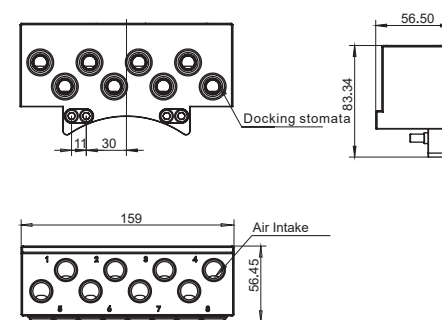
Robot side module



PN	7.Y02051
Model	QCAM-08G38R

※ Weight: 1.25Kg

※ Suitable for : QCAS350, QCAS500



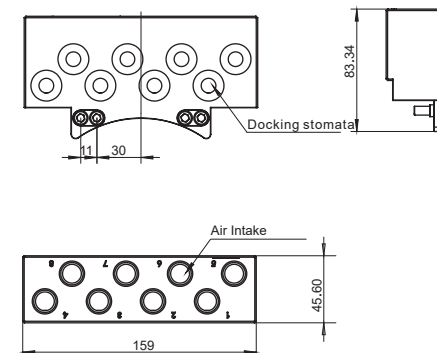
QCAM-08G38G

Gripper side module



PN	7.Y02052
Model	QCAM-08G38G

※ Weight: 1.1Kg



Communication Module

QCSM-05G7/8-04M12-10R

Robot side module **NEW**



PN	7.Y02118
Model	QCSM-05G7/8-04M12-10R

※ Weight: 0.5KG
 ※ Suitable for : QCAS350、QCAS500

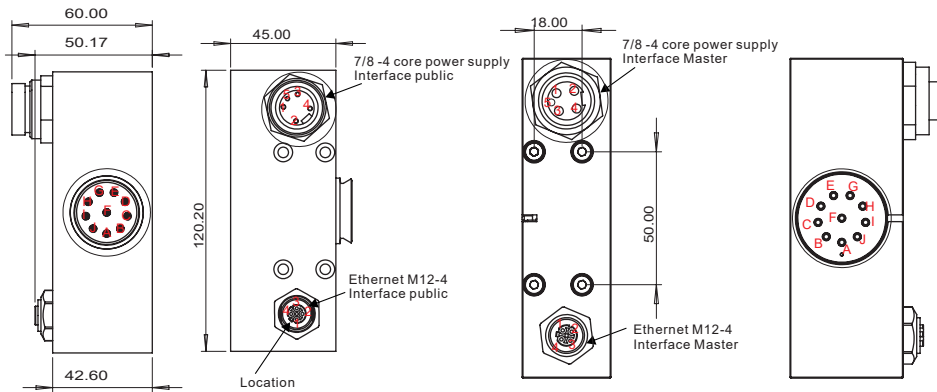
QCSM-05G7/8-04M12-10G

Gripper side module **NEW**



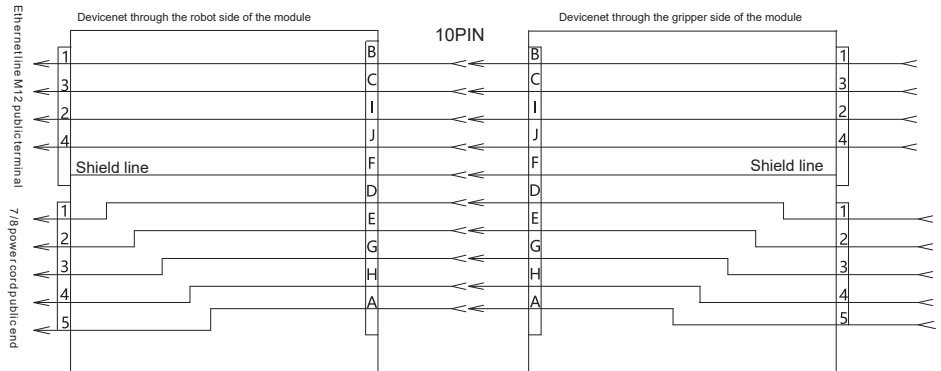
PN	7.Y02119
Model	QCSM-05G7/8-04M12-10G

※ Weight: 0.5KG

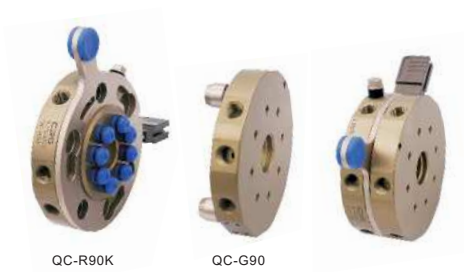


Communication Module

Wiring diagram



Round Manual Quick Changer



- Easy replacement of the EOAT on the robot.
- Suitable also with vacuum ports.
- Avoid mistakes in pneumatic and electrical connections.
- 4, 8, 10 or 12 pneumatic connections.
- The two parts (robot side and gripper side) are supplied separately.

Model	QC50	QC90	QC150	QC160	QC200
Medium	Filtered compressed air				
Pressure range	5~6 bar				
Temperature range	5 ~ 60 °C				
Robot side quick changer	QC-R50K	QC-R90K	QC-R150K	QC-R160K	QC-R200K
Robot side quick changer weight	103 g	318 g	1159 g	1200 g	2640 g
Gripper side quick changer	QC-G50	QC-G90	QC-G150	QC-G160	QC-G200
Gripper side quick changer weight	65 g	227 g	837g	900 g	1890 g
Vertical pull F	150N	400N	1000N	1000N	2000N
Rotation torque Mt	20Nm	100Nm	250Nm	250Nm	600Nm
Flip torque Mb	10Nm	60Nm	150Nm	150Nm	300Nm
Recommended payload	5kgs	15kgs	35kgs	35kgs	75kgs
Colour	Brass	Brass	Black	Brass	Black

Installation and use example

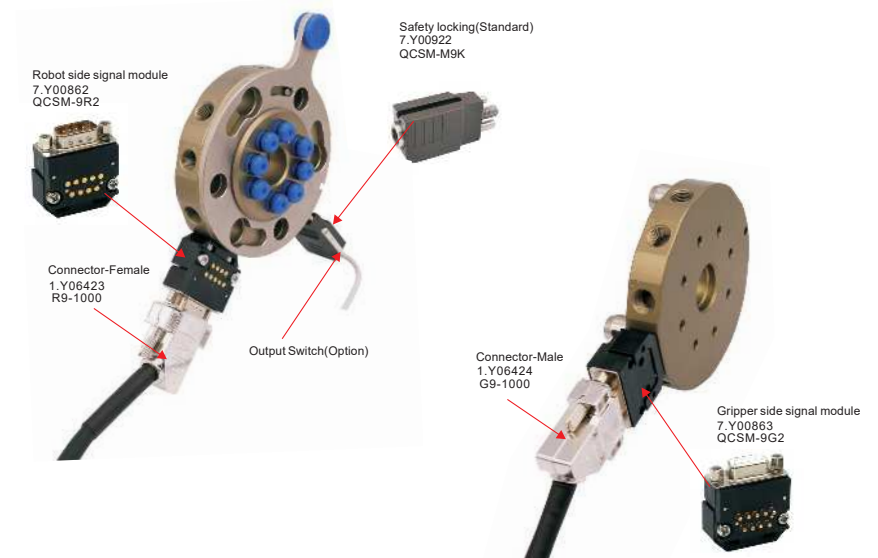


Round Manual Quick Changer

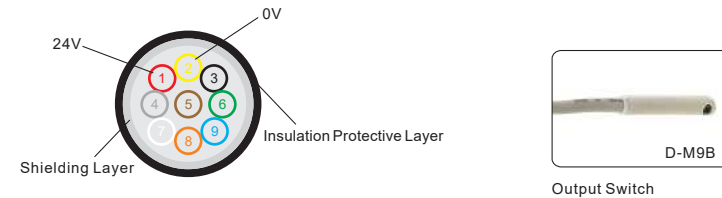
Accessories

Electrical connection module

- I/O quick change by D-SUB 9 pins connector.
- The two parts are supplied separately.
QCSM-9R2 robot side signal module.
QCSM-9G2 gripper side signal module.
R9-1000 45 degree metal female fitting.
G9-1000 45 degree metal male fitting.



Singal Wire Cross-sectional Sketch Map



Round Manual Quick Changer

QC-50



Robot side	
PN	8.Y00402
Model	QC-R50K



Gripper side	
PN	8.Y00055
Model	QC-G50

Parameter

- Recommended rated load: 5kg
- Medium: Filtered compressed air
- Pressure Range: 5-6bar
- Temperature Range: 5-60°C
- Vertical Pulling Force F: 150N
- Rotating Torque Mt: 20Nm
- Reversal Torque Mb: 10Nm
- Robot side weight: 103g
- Gripper side weight: 65g
- Repeatability accuracy(X,Y&Z): ±0.05mm
- Colour: Brass
- Size of straight air hole(quantity): (4)M5

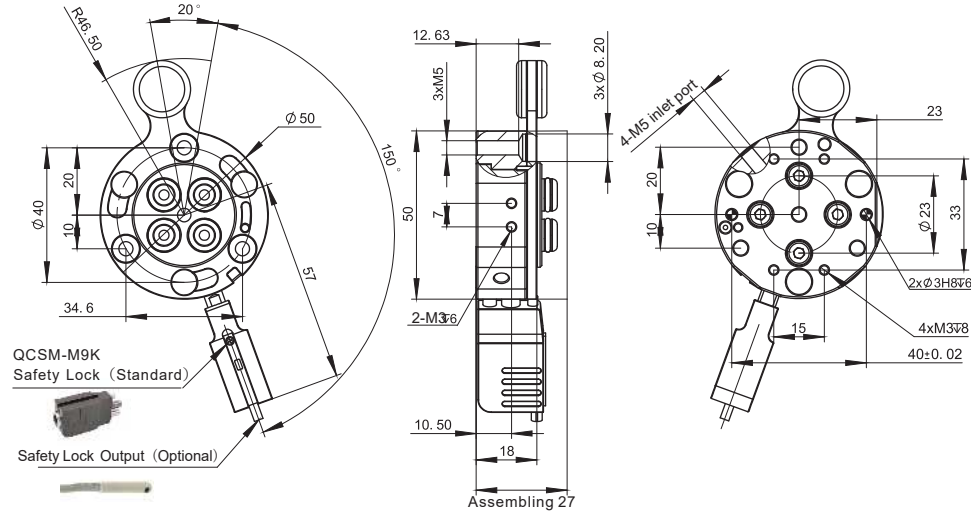
Module Type

Product	Product name	Model	PN	I/O connection type	Working current	Cable
	Robot side signal module	QCSM-9R1	7.Y00823	9PIN D-SUB	MAX 3A	R9-1000 (1.Y06423)
	Gripper side signal module	QCSM-9G1	7.Y00824	9PIN D-SUB	MAX 3A	G9-1000 (1.Y06424)

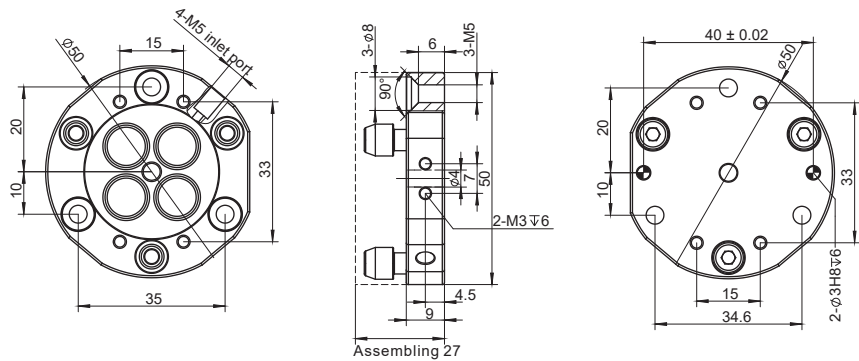
*R9-1000,G9-1000 option, the cable's length is 1 meter

Round Manual Quick Changer

Robot Side



Gripper Side



Round Manual Quick Changer

QC-90



PN	8.Y00359
Model	QC-R90K



PN	8.Y00033
Model	QC-G90

Parameter

- Recommended rated load: 15kg
- Medium: Filtered compressed air
- Pressure Range: 5-6bar
- Temperature Range: 5-60°C
- Vertical Pulling Force F: 400N
- Rotating Torque Mt: 100Nm
- Reversal Torque Mb: 60Nm
- Robot side weight: 318g
- Gripper side weight: 227g
- Repeatability accuracy(X,Y&Z): ±0.05mm
- Colour: Brass
- Size of straight air hole(quantity): (8)G1/8

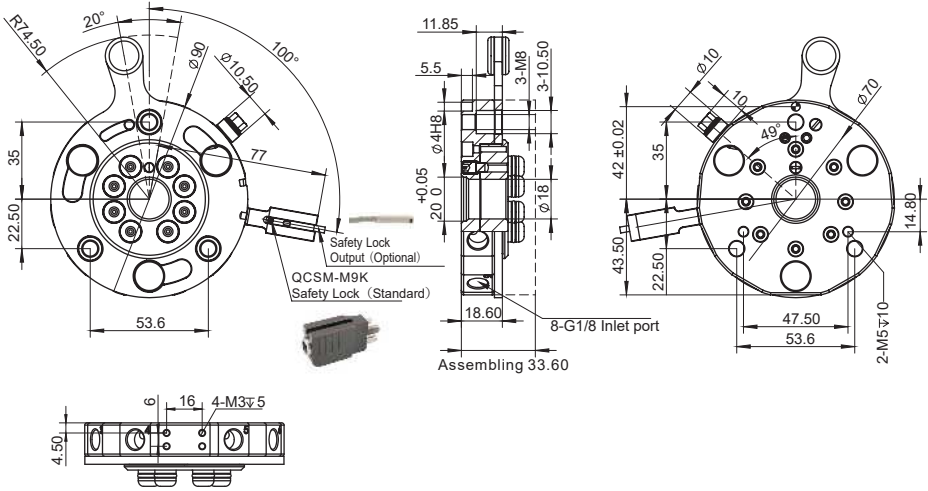
Module Type

Product	Product name	Model	PN	I/O connection type	Working current	Cable
	Robot side signal module	QCSM-9R2	7.Y00862	9PIN D-SUB	MAX 3A	R9-1000 (1.Y06423)
	Gripper side signal module	QCSM-9G2	7.Y00863	9PIN D-SUB	MAX 3A	G9-1000 (1.Y06424)

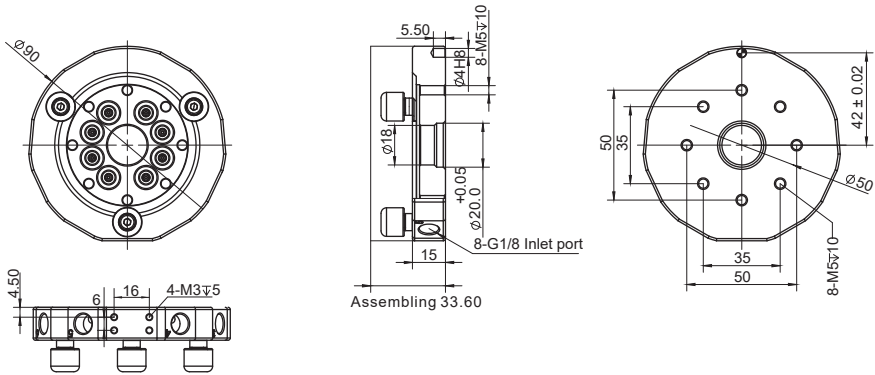
*R9-1000, G9-1000 option, the cable's length is 1 meter

Round Manual Quick Changer

Robot Side



Gripper Side



Round Manual Quick Changer

QC-150



Robot side

PN	8.Y00376
Model	QC-R150K



Gripper side

PN	8.Y00377
Model	QC-G150

Parameter

1. Recommended rated load: 35kg

2. Medium: Filtered compressed air

3. Pressure Range: 5-6bar

4. Temperature Range: 5-60°C

5. Vertical Pulling Force F: 1000N

6. Rotating Torque Mt: 250Nm
7. Reversal Torque Mb: 150Nm

8. Robot side weight: 1159g

9. Gripper side weight: 837g

10. Repeatability accuracy(X,Y&Z): ±0.05mm

11. Colour: Black

12. Size of straight air hole(quantity): (10)G1/4

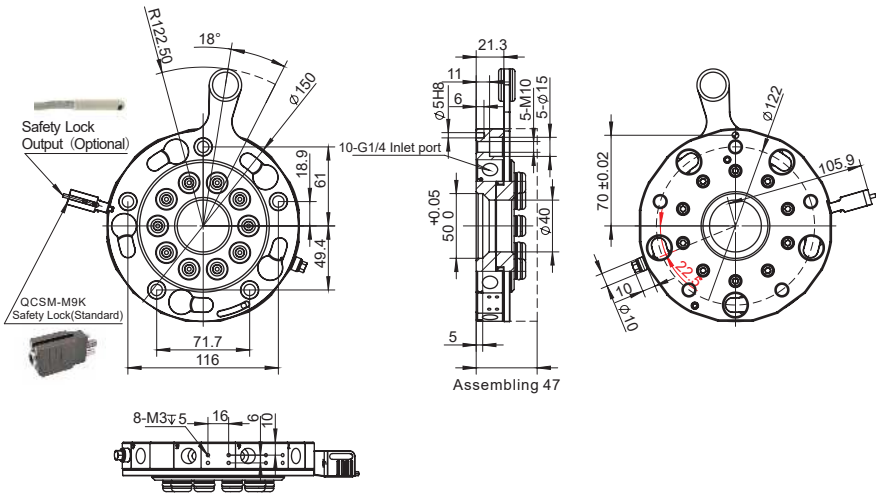
Module Type

Product	Product name	Model	PN	I/O connection type	Working current	Cable
	Robot side signal module	QCSM-9R3	7.Y00819	9PIN D-SUB	MAX 3A	R9-1000 (1.Y06423)
	Gripper side signal module	QCSM-9G3	7.Y00820	9PIN D-SUB	MAX 3A	G9-1000 (1.Y06424)

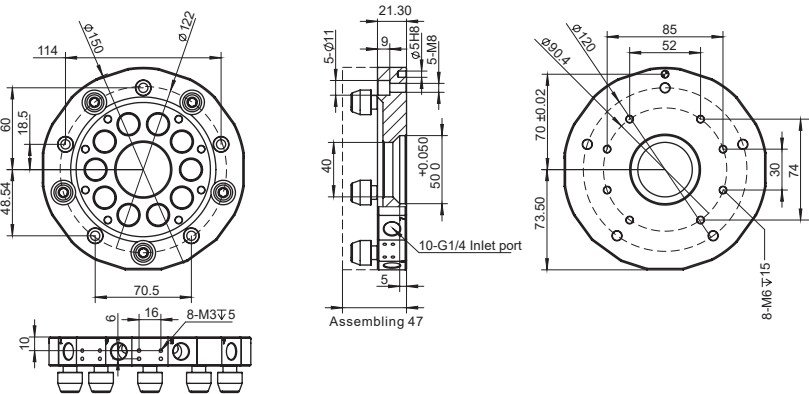
*R9-1000,G9-1000 option, the cable's length is 1 meter

Round Manual Quick Changer

Robot Side



Gripper Side



Round Manual Quick Changer

QC-160



Robot side

PN	8.Y00360
Model	QC-R160K



Gripper side

PN	8.Y00053
Model	QC-G160

Parameter

1. Recommended rated load: 35kg

2. Medium: Filtered compressed air

3. Pressure Range: 5-6bar

4. Temperature Range: 5-60°C

5. Vertical Pulling Force F: 1000N

6. Rotating Torque Mt: 250Nm
7. Reversal Torque Mb: 150Nm

8. Robot side weight: 1200g

9. Gripper side weight: 900g

10. Repeatability accuracy(X,Y&Z): ±0.05mm

11. Colour: Brass

12. Size of straight air hole(quantity): (12)G1/8

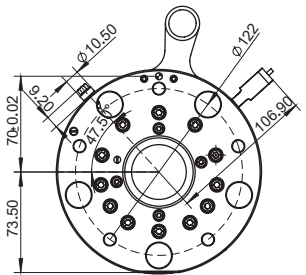
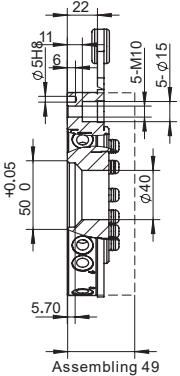
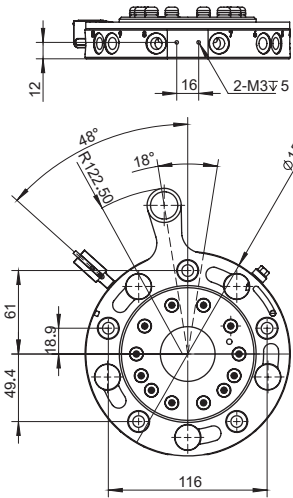
Module Type

Product	Product name	Model	PN	I/O connection type	Working current	Cable
	Robot side signal module	QCSM-9R2	7.Y00862	9PIN D-SUB	MAX 3A	R9-1000 (1.Y06423)
	Gripper side signal module	QCSM-9G2	7.Y00863	9PIN D-SUB	MAX 3A	G9-1000 (1.Y06424)

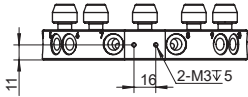
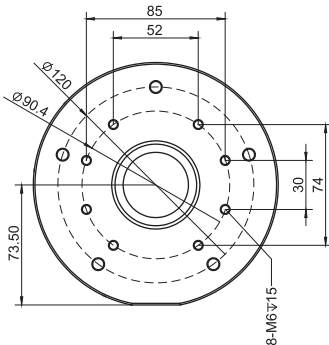
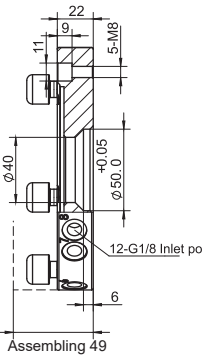
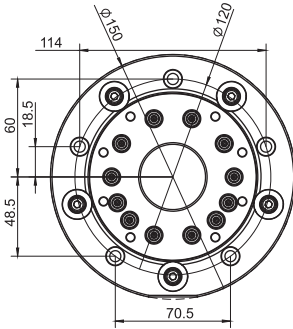
*R9-1000,G9-1000 option, the cable's length is 1 meter

Round Manual Quick Changer

Robot Side



Gripper Side



Round Manual Quick Changer

QC-200



Parameter

- Recommended rated load: 75kg
- Medium: Filtered compressed air
- Pressure Range: 5-6bar
- Temperature Range: 5-60°C
- Vertical Pulling Force F: 2000N
- Rotating Torque Mt: 600Nm
- Reversal Torque Mb: 300Nm
- Robot side weight: 2640g
- Gripper side weight: 1890g
- Repeatability accuracy(X,Y&Z): ±0.05mm
- Colour: Black
- Size of straight air hole(quantity): (12)G1/4

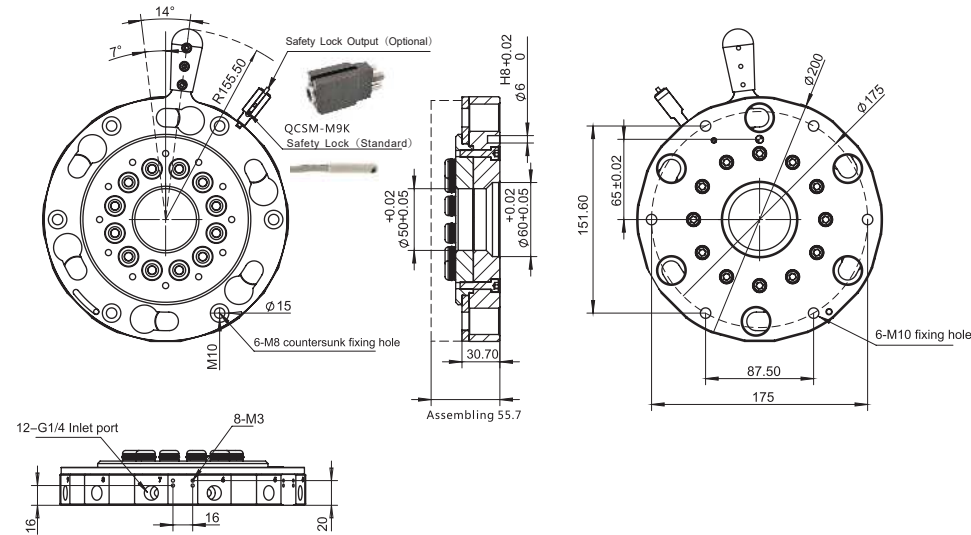
Module Type

Product	Product name	Model	PN	I/O connection type	Working current	Cable
	Robot side signal module	QCSM-9R4	7.Y00821	9PIN D-SUB	MAX 3A	R9-1000 (1.Y06423)
	Gripper side signal module	QCSM-9G4	7.Y00822	9PIN D-SUB	MAX 3A	G9-1000 (1.Y06424)

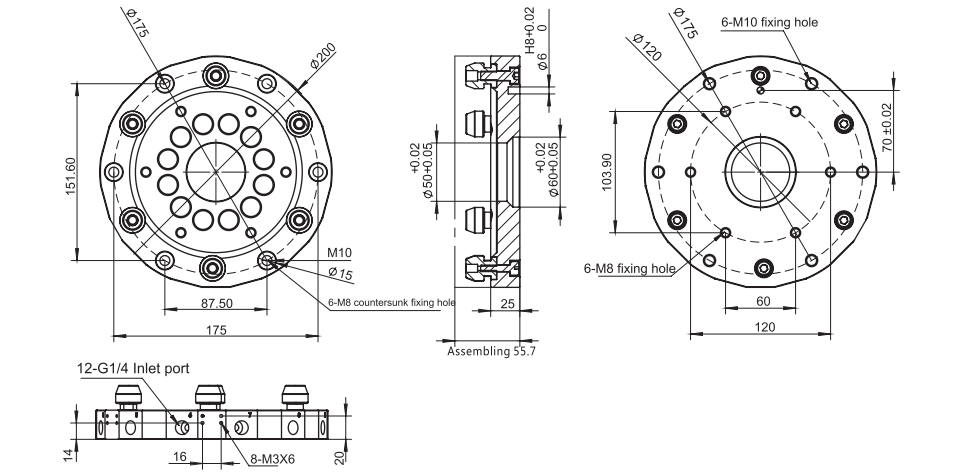
*R9-1000,G9-1000 option, the cable's length is 1 meter

Round Manual Quick Changer

Robot Side



Gripper Side

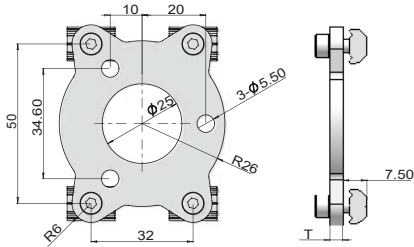


Interface

SIP-50B



(Kit With Screws Option)



PN	7.Y00650
Model	SIP-50B
For quick changer	QC-G50
Thickness	4mm
Accessories selection	
Screws	PTC-M5L12*4
Single hole shim	PTS-M5*4
T-Nuts	PTN-M5*4
Weight	90g

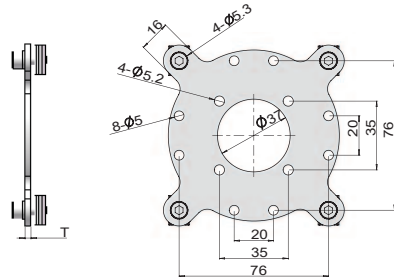
Note: If screw kits needed, add T to the part number and model number. eg: Model SIP-50BT Part number 7.Y00650-T.



SIP-90B



(Kit With Screws Option)



PN	7.Y00634
Model	SIP-90B
For quick changer	QC-G90
Thickness	3mm
Accessories selection	
Screws	PTC-M5L12*4
Single hole shim	PTS-M5*4
T-Nuts	PTN-M5*4
Weight	190g

Note: If screw kits needed, add T to the part number and model number. eg: Model SIP-50BT Part number 7.Y00650-T.

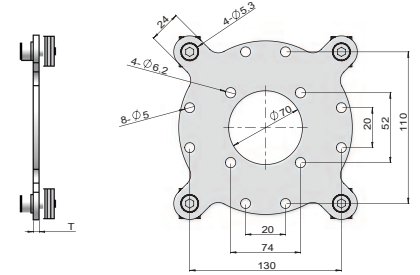


Interface

SIP-50B



(Kit With Screws Option)



PN	7.Y00635
Model	SIP-160B
For quick changer	QC-G150/QC-G160
Thickness	4mm
Accessories selection	
Screws	PTC-M5L12*4
Single hole shim	PTS-M5*4
T-Nuts	PTN-M5*4
Weight	540g

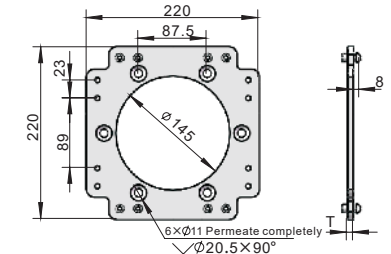
Note: If screw kits needed, add T to the part number and model number. eg: Model SIP-50BT Part number 7.Y00650-T.



SIP-90B



(Kit With Screws Option)



PN	7.Y00855
Model	SIP-200B
For quick changer	QC-G200
Thickness	8mm
Weight	578g
Accessories selection	
Screws	PTC-M5L16*16
Single hole shim	PTS-M5*16
T-Nuts	PTN-M5*16

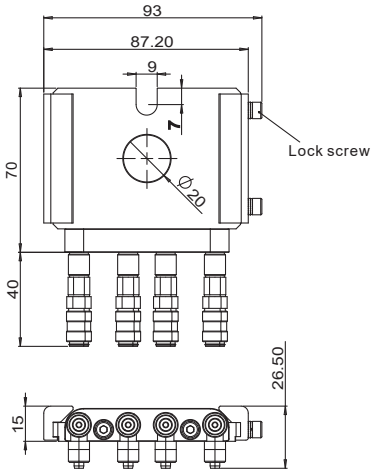
Note: If screw kits needed, add T to the part number and model number. eg: Model SIP-50BT Part number 7.Y00650-T.



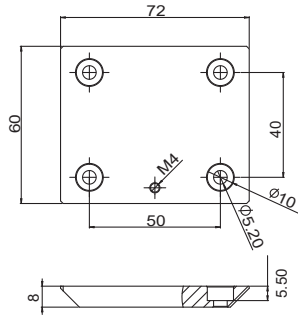
Square Manual Quick Changer



QCS-R60



QCS-G60

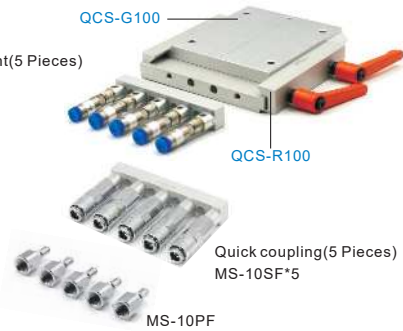


Threaded Hose Module(Optional)

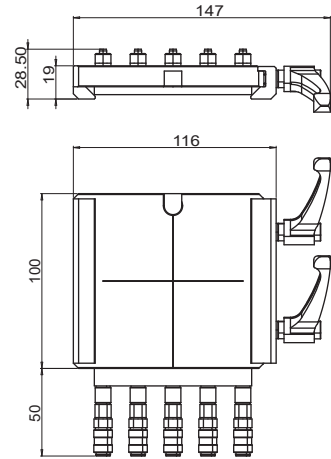
PN	8.Y00081	8.Y00082	1.Y03525	1.Y03524
Model	QCS-R60	QCS-G60	KCH04-M5	KCH06-M5
Load	70N		-	-
Weight	148g	79g	7g	9g

Square Manual Quick Changer

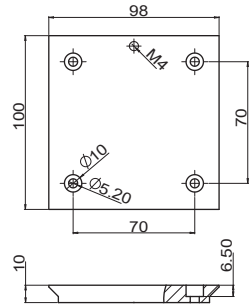
Unidirectional joint(5 Pieces)
KCH06-M5*5
KCH04-M5*5



QCS-R100



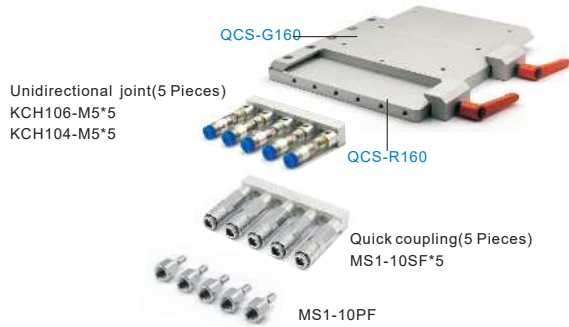
QCS-G100



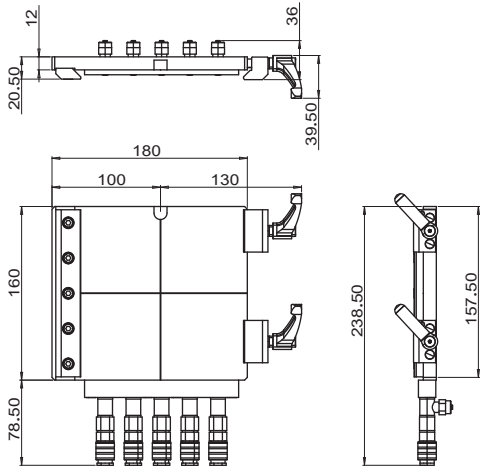
Threaded Hose Module(Optional)

PN	7.Y00332	7.Y00175	7.Y00860	7.Y00861	7.Y00334	1.Y04667
Model	QCS-R100	QCS-G100	KCH04-M5*5	KCH06-M5*5	MS-10SF*5	MS-10PF
Load	300N		-	-	-	-
Weight	463g	240g	86g	96g	196g	11g

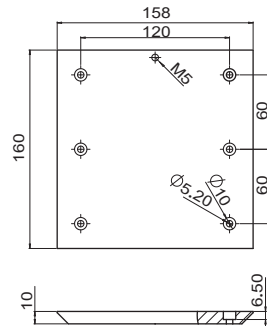
Square Manual Quick Changer



QCS-R160



QCS-G160



Threaded Hose Module(Optional)

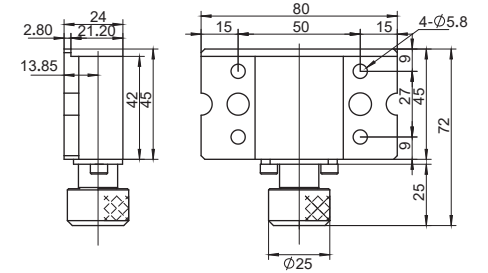
PN	7.Y00160	7.Y00161	7.Y02016	7.Y02017	7.Y02018	1.Y20004
Model	QCS-R160	QCS-G160	KCH104-M5*5	KCH106-M5*5	MS1-10SF*5	MS1-10PF
Load	800N		-	-	-	-
Weight	1198g	634g	86g	96g	196g	11g

L-Type Manual Quick Changer



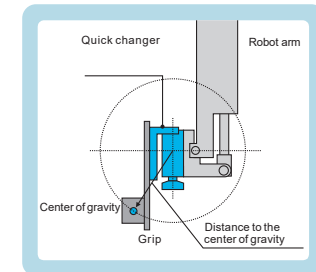
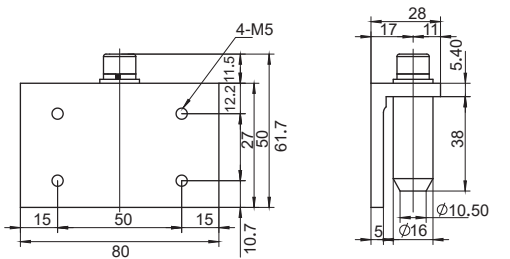
※Superhard aluminum
※Weight: 185g
※Installation location: Robot side
※Load weight: ~15kg

PN	1.Y01275
Model	QCL15R-Y



※Steel
※Weight: 294g
※Installation location: Grip side
※Load weight: ~15kg

PN	1.Y01276
Model	QCL15G-Y

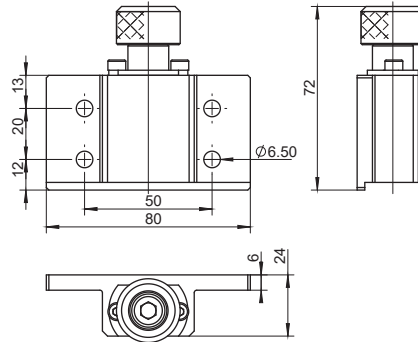


L-Type Manual Quick Changer



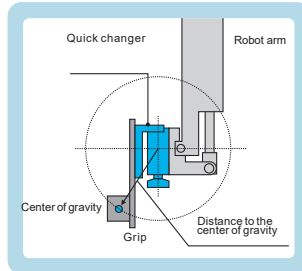
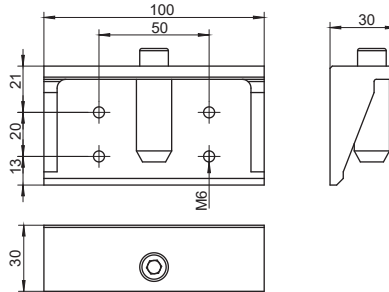
※Superhard aluminum
 ※Weight: 190g
 ※Installation location: Robot side
 ※Load weight: ~15kg

PN	8.Y00236
Model	QCL15R-S



※Superhard aluminum
 ※Weight: 197g
 ※Installation location: Grip side
 ※Load weight: ~15kg

PN	8.Y00235
Model	QCL15G-S

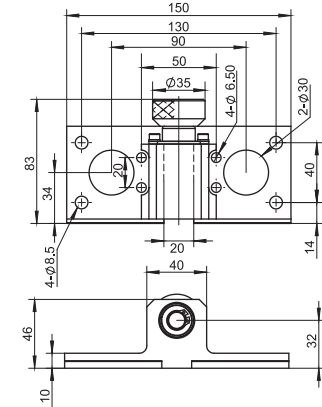


L-Type Manual Quick Changer



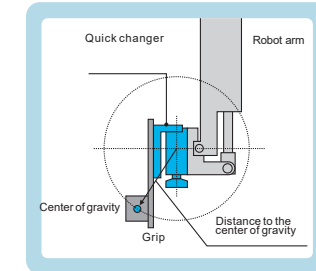
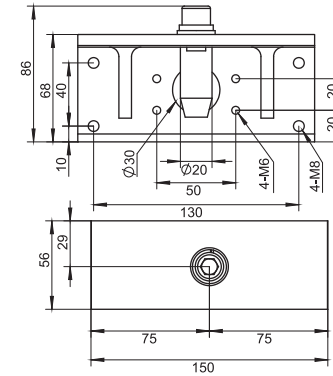
※Superhard aluminum
 ※Weight: 505g
 ※Installation location: Robot side
 ※Load weight: ~35kg

PN	8.Y00101
Model	QCL35R-S



※Superhard aluminum
 ※Weight: 565g
 ※Installation location: Grip side
 ※Load weight: ~35kg

PN	8.Y00102
Model	QCL35G-S



FPT Two-finger Translational Gripper

Features

- T-tooth guide rail. Compact structure and reliable
- Magnetic switch interface
- Proximity switch interface
- Pipeless connection interface
- Ten million maintenance-free operations



Basic version



Dustproof version



High temperature version

Optional Accessories



Proximity switch M8



Magnetic switch M8



90° bend angle
Rotatable hose fitting

FPT Two-finger Translational Gripper

PN	Model	Single finger stroke (mm)	Gripping force (N)	Self weight (kg)	Workpiece weight (kg)	Longest finger length (mm)	Maximum single finger weight (kg)	Repeat positioning accuracy (mm)	IP rating
1.Y13289	FPT-40A-1	2.5	123	0.08	0.68	50	0.1	0.01	40
1.Y13290	FPT-40A-1-SD	2.5	123/132	0.11	0.68	50	0.1	0.01	64
1.Y13291	FPT-40A-1-TEM	2.5	123/132	0.08	0.68	50	0.1	0.01	40
1.Y13292	FPT-50A-1	4	140/145	0.15	0.77	64	0.18	0.01	40
1.Y13293	FPT-50A-2	2	290/310	0.15	1.60	58	0.18	0.01	40
1.Y13294	FPT-50A-1-SD	4	140/145	0.18	0.77	64	0.18	0.01	64
1.Y13295	FPT-50A-2-SD	2	290/310	0.18	1.60	58	0.18	0.01	64
1.Y13296	FPT-50A-1-TEM	4	140/145	0.15	0.77	64	0.18	0.01	40
1.Y13297	FPT-50A-2-TEM	2	290/310	0.15	1.60	58	0.18	0.01	40
1.Y13298	FPT-64A-1	6	250/270	0.28	1.38	80	0.35	0.01	40
1.Y13299	FPT-64A-2	3	520/565	0.28	2.86	72	0.35	0.01	40
1.Y13300	FPT-64A-1-SD	6	250/270	0.35	1.38	80	0.35	0.01	64
1.Y13301	FPT-64A-2-SD	3	520/565	0.35	2.86	72	0.35	0.01	64
1.Y13302	FPT-64A-1-TEM	6	250/270	0.28	1.38	80	0.35	0.01	40
1.Y13303	FPT-64A-2-TEM	3	520/565	0.28	2.86	72	0.35	0.01	40
1.Y13304	FPT-80A-1	8	415-465	0.5	2.31	100	0.6	0.01	40
1.Y13305	FPT-80A-2	4	860/960	0.5	4.73	90	0.6	0.01	40
1.Y13306	FPT-80A-1-SD	8	415/465	0.6	2.31	100	0.6	0.01	64
1.Y13307	FPT-80A-2-SD	4	860/960	0.6	4.73	90	0.6	0.01	64
1.Y13308	FPT-80A-1-TEM	8	415/465	0.5	2.31	100	0.6	0.01	40
1.Y13309	FPT-80A-2-TEM	4	860-960	0.5	4.73	90	0.6	0.01	40
1.Y13310	FPT-100A-1	10	660/725	0.81	3.63	125	1.1	0.01	40
1.Y13311	FPT-100A-2	5	1370/1500	0.81	7.54	115	1.1	0.01	40
1.Y13312	FPT-100A-1-SD	10	660/725	0.99	3.63	125	1.1	0.01	64
1.Y13313	FPT-100A-2-SD	5	1370/1500	0.99	7.54	115	1.1	0.01	64
1.Y13314	FPT-100A-1-TEM	10	660-725	0.81	3.63	125	1.1	0.01	40
1.Y13315	FPT-100A-2-TEM	5	1370-1500	0.81	7.54	115	1.1	0.01	40
1.Y13316	FPT-110A-1	20	1050-1150	2	5.25	150	2	0.01	40
1.Y13317	FPT-125A-1	13	1080/1170	1.35	5.94	160	2.1	0.01	40
1.Y13318	FPT-125A-2	6	2240/2420	1.35	12.32	145	2.1	0.01	40
1.Y13319	FPT-125A-1-SD	13	1080/1170	1.55	5.94	160	2.1	0.01	64
1.Y13320	FPT-125A-2-SD	6	2240/2420	1.55	12.32	145	2.1	0.01	64
1.Y13321	FPT-125A-1-TEM	13	1080/1170	1.35	5.94	160	2.1	0.01	40
1.Y13322	FPT-125A-2-TEM	6	2240/2420	1.35	12.32	145	2.1	0.01	40
1.Y13323	FPT-160A-1	16	1640/1770	2.6	9.02	200	3.5	0.01	40
1.Y13324	FPT-160A-2	8	3200/3460	2.6	17.60	190	3.5	0.01	40
1.Y13325	FPT-160A-1-SD	16	1640/1770	3	9.02	200	3.5	0.01	64
1.Y13326	FPT-160A-2-SD	8	3200/3460	3	17.60	190	3.5	0.01	64
1.Y13327	FPT-160A-1-TEM	16	1640/1770	2.6	9.02	200	3.5	0.01	40
1.Y13328	FPT-160A-2-TEM	8	3200/3460	2.6	17.60	190	3.5	0.01	40
1.Y13329	FPT-200A-1	25	2700/2870	5.2	14.85	240	6.5	0.02	40
1.Y13330	FPT-200A-1-SD	25	2700/2870	5.8	14.85	240	6.5	0.02	64
1.Y13331	FPT-200A-1-TEM	25	2700/2870	5.2	14.85	240	6.5	0.02	40
1.Y13332	FPT-240A-1	30	4200/4440	8	21.50	280	8.5	0.04	40
1.Y13333	FPT-240A-1-SD	30	4200/4440	11	21.50	280	8.5	0.04	64
1.Y13334	FPT-240A-1-TEM	30	4200/4440	8	21.50	280	8.5	0.04	40
1.Y13335	FPT-300A-1	35	6000/6260	13.5	33.00	300	11.5	0.05	40
1.Y13336	FPT-300A-1-SD	35	6000/6260	17.5	33.00	300	11.5	0.05	64
1.Y13337	FPT-300A-1-TEM	35	6000/6260	13.5	33.00	300	11.5	0.05	40

FPT Three-finger Translational Gripper

Features

- T-tooth guide rail. Compact structure and reliable
- Magnetic switch interface
- Proximity switch interface
- Pipeless connection interface
- Ten million maintenance-free operations



Basic version



Dustproof version



High temperature version

Optional Accessories



Proximity switch M8



Magnetic switch M8



90° bend angle
rotatable hose fitting

FPT Three-finger Translational Gripper

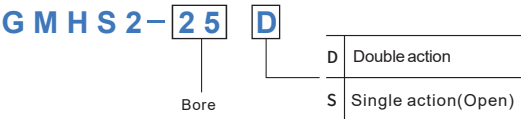
PN	Model	Single finger stroke (mm)	Gripping force (N)	Self weight (kg)	Workpiece weight (kg)	Longest finger length (mm)	Maximum single finger weight (kg)	Repeat positioning accuracy (mm)	IP rating
1.Y13338	FCT-40A-1	2.5	255/270	0.12	1.38	50	0.1	0.01	40
1.Y13339	FCT-40A-1-SD	2.5	255/270	0.15	1.38	50	0.1	0.01	64
1.Y13340	FCT-40A-1-TEM	2.5	255/270	0.12	1.38	50	0.1	0.01	40
1.Y13341	FCT-50A-1	4	325/355	0.25	1.76	64	0.18	0.01	40
1.Y13342	FCT-50A-1-SD	4	325/355	0.31	1.76	64	0.18	0.01	64
1.Y13343	FCT-50A-1-TEM	4	325/355	0.25	1.76	64	0.18	0.01	40
1.Y13344	FCT-64A-1	6	580/640	0.43	3.19	80	0.35	0.01	40
1.Y13345	FCT-64A-1-SD	6	580/640	0.6	3.19	80	0.35	0.01	64
1.Y13346	FCT-64A-1-TEM	6	580/640	0.43	3.19	80	0.35	0.01	40
1.Y13347	FCT-80A-1	8	1000/1080	0.79	5.50	100	0.6	0.01	40
1.Y13348	FCT-80A-1-SD	8	1000/1080	1	5.50	100	0.6	0.01	64
1.Y13349	FCT-80A-1-TEM	8	1000/1080	0.79	5.50	100	0.6	0.01	40
1.Y13350	FCT-100A-1	10	1800/1902	1.41	9.90	125	1.1	0.01	40
1.Y13351	FCT-100A-1-SD	10	1800/1920	1.9	9.90	125	1.1	0.01	64
1.Y13352	FCT-100A-1-TEM	10	1800/1920	1.41	9.90	125	1.1	0.01	40
1.Y13353	FCT-125A-1	13	3100/3330	2.8	17.05	160	2.1	0.01	40
1.Y13354	FCT-125A-1-SD	13	3100/3330	3.23	17.05	160	2.1	0.01	64
1.Y13355	FCT-125A-1-TEM	13	3100/3330	2.8	17.05	160	2.1	0.01	40
1.Y13356	FCT-160A-1	16	3100/3330	5.6	33.00	200	3.5	0.02	40
1.Y13357	FCT-160A-1-SD	16	6000/6390	6.5	33.00	200	3.5	0.02	64
1.Y13358	FCT-160A-1-TEM	16	6000/6390	5.6	33.00	200	3.5	0.02	40
1.Y13359	FCT-200A-1	25	7100/1540	11	39.05	240	6.5	0.05	40
1.Y13360	FCT-200A-1-SD	25	7100/7540	12	39.05	240	6.5	0.05	64
1.Y13361	FCT-200A-1-TEM	25	7100/7540	11	39.05	240	6.5	0.05	40
1.Y13362	FCT-240A-1	30	9500/10400	20	55.00	280	8.5	0.05	40
1.Y13363	FCT-240A-1-SD	30	9500/10400	21.5	55.00	280	8.5	0.05	64
1.Y13364	FCT-240A-1-TEM	30	9500/10400	20	55.00	280	8.5	0.05	40
1.Y13365	FCT-300A-1	35	14500/15200	33	79.75	250	11.5	0.05	40
1.Y13366	FCT-300A-1-SD	35	14500/15200	35.5	79.75	250	11.5	0.05	64
1.Y13367	FCT-300A-1-TEM	35	14500/15200	33	79.75	250	11.5	0.05	40

Three Jaws Gripper

Model Representation Methods



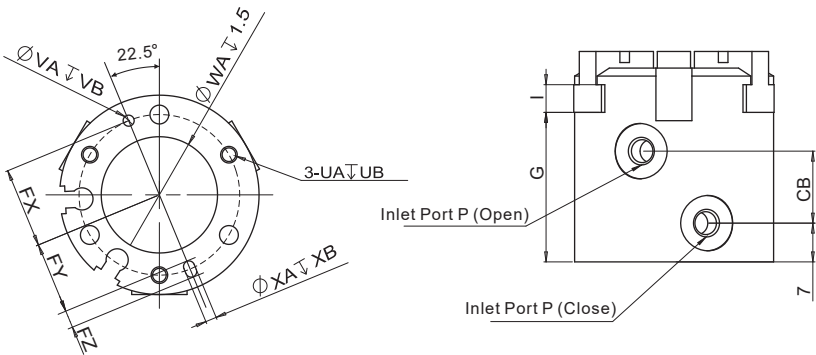
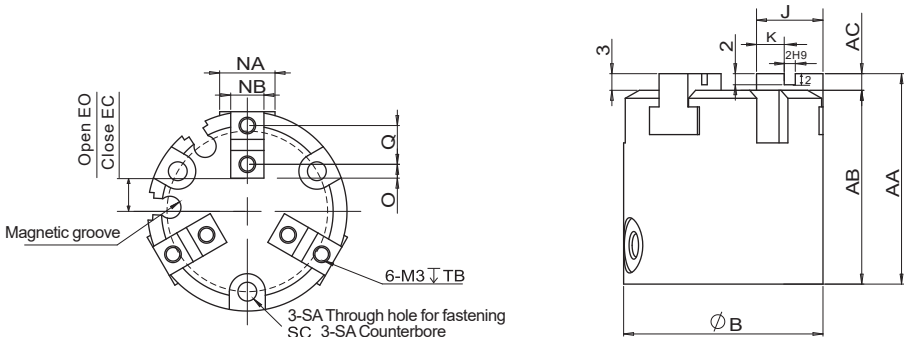
Standard type



PN		1.Y04529	1.Y04764	1.Y05750
Model		GMHS3-16D	GMHS3-20D	GMHS3-25D
Bore		16	20	25
Fluid		Air		
Operating pressure range		0.2~0.6MPa		
Environment and fluid temperature		-10~60℃		
Repeatability accuracy (mm)		±0.01		
Maximum frequency of use (c.p.m)		120c.p.m		
Action mode		Double action		
Note) gripping force N Pressure 0.5MPa	External diameter clamping	14	25	42
	Internal diameter clamping	16	28	47
	External diameter clamping with dust cover	9	21	36
Standard finger stroke with hood		4	4	6
Long stroke finger stroke		10	10	12
Rc Pipe Size		M3×0.5	M5×0.8	M5×0.8
Magnetic switch		Built in magnetic ring type		
Weight		59g	96.7g	138g

Note)Clamping force when holding the outside diameter,
The value of the holding point of ø16-ø25 is L=20mm

Three Jaws Gripper



Bore	AA	AB	B	CB	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB
16	35	32	30	11	5	7	12.5	11	3	25	4	10	4	8	5h9
20	38	35	36	13	6	8	14.5	13	3	27	5	12	5	10	6h9
25	40	37	42	15	7	10	17	14.5	5	28	5	14	6	12	6h9

Bore	O	P	Q	SA	SB	SC	TB	UA	UB	VA	VB	WA	XA	XB
16	2	M3x0.5	6	3.4	6.5	8	5	M3x0.5	4.5	2H9	2	17H9	2H9	2
20	2.5	M5x0.8	7	3.4	6.5	9.5	6	M3x0.5	6	2H9	2	21H9	2H9	2
25	3	M5x0.8	8	4.5	8	10	6	M4x0.7	6	3H9	3	26H9	3H9	3

Parallel Gripper

Model Representation Methods

Standard type

GMHZ2- 20 D

Parallel opening and closing type

Bore

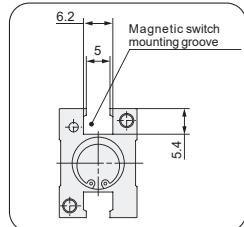
D	Double action
S	Single action(Open)

PN	Model	Bore	Pressure Range (Mpa)		Temperature range	Repetition accuracy	Maximum frequency of use (c.p.m)	Nozzle diameter	Weight	Gripping force (N)			Opening and closing stroke on both sides (mm)	
			Single action	Double action						Single action		Double action		
										External	External	Internal		Internal
1.Y00258	GMHZ2-10S	10	0.35~0.7	/	-10~60°C	±0.01	180	M3*0.5	53g	7.1	11	17	4	
1.Y00252	GMHZ2-10D	10	/	0.2~0.7	-10~60°C	±0.01	180	M3*0.5	52.5g	7.1	11	17	4	
1.Y00257	GMHZ2-16S	16	0.25~0.7	/	-10~60°C	±0.01	180	M5*0.8	123g	27	34	45	6	
1.Y00256	GMHZ2-16D	16	/	0.1~0.7	-10~60°C	±0.01	180	M5*0.8	120g	27	34	45	6	
1.Y03080	GMHZ2-20S	20	0.25~0.7	/	-10~60°C	±0.01	180	M5*0.8	227g	33	42	66	10	
1.Y02703	GMHZ2-20D	20	/	0.1~0.7	-10~60°C	±0.01	180	M5*0.8	225g	33	42	66	10	
1.Y09884	GMHZ2-25S	25	0.25~0.7	/	-10~60°C	±0.01	180	M5*0.8	309g	45	65	104	14	
1.Y09338	GMHZ2-25D	25	/	0.1~0.7	-10~60°C	±0.01	180	M5*0.8	314g	45	65	104	14	
1.Y09885	GMHZ2-32S	32	0.25~0.7	/	-10~60°C	±0.02	60	M5*0.8	415g	131	158	193	22	
1.Y09886	GMHZ2-32D	32	/	0.1~0.7	-10~60°C	±0.02	60	M5*0.8	410g	131	158	193	22	
1.Y09887	GMHZ2-40S	40	0.25~0.7	/	-10~60°C	±0.02	60	M5*0.8	543g	217	254	318	30	
1.Y09888	GMHZ2-40D	40	/	0.1~0.7	-10~60°C	±0.02	60	M5*0.8	537g	217	254	318	30	

Notes:
1, Air Fluid
2, action mode single-acting double-acting (optional)
3, optional non-contact magnetic switch

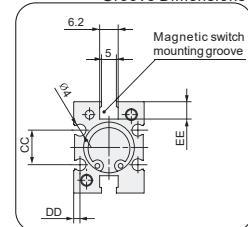
Dimensions Table (mm)

GMHZ2-10□Magnetic Switch Mounting Groove Dimensions



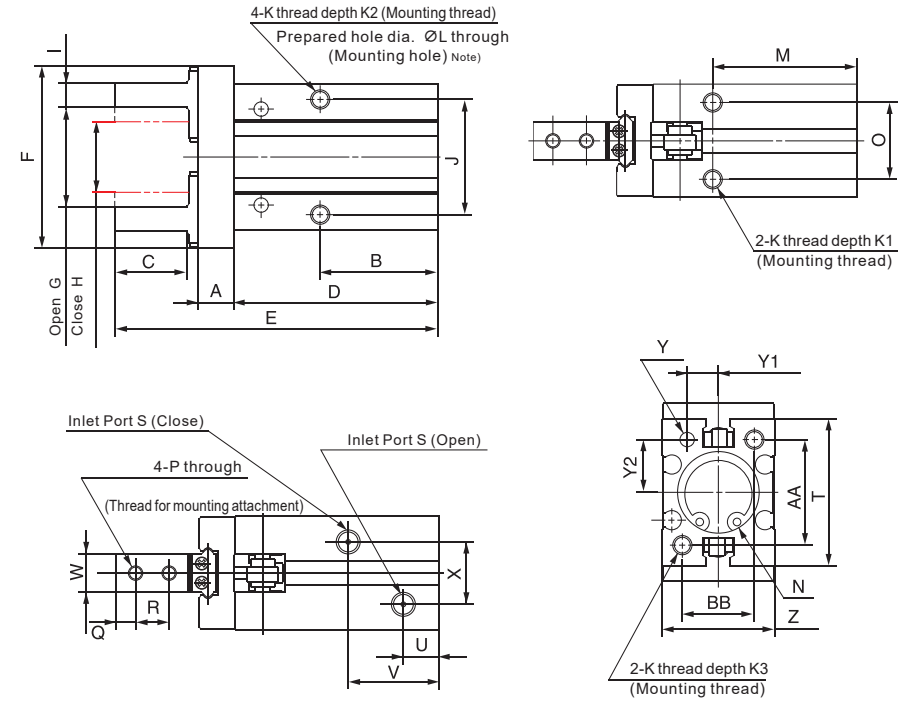
Note) When using Magnetic switches, throughhole mounting is not possible.

GMHZ2-□□Magnetic Switch Mounting Groove Dimensions



Note) When using Magnetic switches D-Y59, D-Y69, D-Y7, throughhole mounting is not possible.

Parallel Gripper



* For single action, the port on one side is a breathing hole.

Bore	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ØL	M	N
10	6	23	12	37.8	57	29	15.2 ±0.1	11.2 ±0.1	4 ±0.1	16	M3x0.5	6	5.5	6	2.6	27	Ø11H9T 2
16	7.5	24.5	15	42.5	67.3	38	20.9 ±0.1	14.9 ±0.1	5 ±0.1	24	M4x0.7	4.5	8	8	3.4	30	Ø17H9T 2
20	9.5	29	20	52.8	84.8	50	26.3 ±0.1	16.3 ±0.1	8 ±0.1	30	M5x0.8	8	10	10	4.3	35	Ø21H9T 3
25	11	30	25	63.6	102.7	63	33.3 ±0.1	19.3 ±0.1	10 ±0.1	36	M6x1	10	12	12	5.1	36.5	Ø26H9T 3.5
32	12	40(49)	29	67(76)	113(122)	97	48 ±0.1	26 ±0.1	12 ±0.1	46	M6x1	10	13	13	5.1	48(57)	Ø34H9T 4
40	15	49(62)	36	83(96)	139(152)	119	60 ±0.1	30 ±0.1	14 ±0.1	56	M8x1.25	13	16	17	6.6	58(71)	Ø42H9T 4

Bore	O	P	Q	R	S	T	U	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	11.4	M2.5x0.45	3	5.7	M3x0.5	23	9	19	5 ±0.1	11	Ø2H9T 3	16.4 ±0.05	6.2 ±0.05	7.6 ±0.05	18	12	-	-	-
16	16	M3x0.5	4	7	M5x0.8	30.6	7.5	19	8 ±0.1	13	Ø3H9T 3	23.6 ±0.05	6.5 ±0.05	11 ±0.05	22	15	11.6	2.1	5.8
20	18.6	M4x0.7	5	9	M5x0.8	42	10	23	10 ±0.1	15	Ø4H9T 4	27.6 ±0.05	7.5 ±0.05	16.8 ±0.05	32	18	14	2.1	9
25	22	M5x0.8	6	12	M5x0.8	52	10.7	23.5	12 ±0.1	20	Ø4H9T 4	33.6 ±0.05	10 ±0.05	21.8 ±0.05	40	22	19	3.5	11.5
32	26	M6x1	7	14	M5x0.8	60	11	31(37)	15 ±0.1	24	Ø5H9T 5	40 ±0.1	12 ±0.05	23 ±0.05	46	26	24	3.3	11.5
40	32	M8x1.25	9	17	M5x0.8	72	12	38(45)	18 ±0.1	28	Ø5H9T 5	48 ±0.1	14 ±0.05	29 ±0.05	56	32	29.4	3.7	13

The size of the single action is within ().

Parallel Gripper



Model representation methods

Standard type

GMHZL2-20D

Long Stroke type

Bore

D Double action

S Single action(Open)

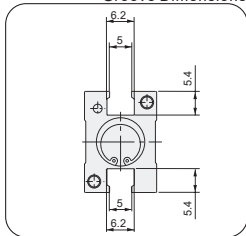
PN	Model	Bore	Pressure Range (Mpa)		Temperature range	Repetition accuracy	Maximum frequency of use (c.p.m)	Nozzle diameter	Weight	Gripping force (N)			Opening and closing stroke on both sides (mm)
			Single action	Double action						Single action External	Double action External	Double action Internal	
1.Y09405	GMHZL2-10S	10	0.35~0.7	/	-10~60°C	±0.01	120	M3*0.5	63g	7.1	11	17	8
1.Y07974	GMHZL2-10D	10	/	0.2~0.7	-10~60°C	±0.01	120	M3*0.5	59g	7.1	11	17	8
1.Y08175	GMHZL2-16S	16	0.25~0.7	/	-10~60°C	±0.01	120	M5*0.8	139g	27	34	45	12
1.Y08146	GMHZL2-16D	16	/	0.1~0.7	-10~60°C	±0.01	120	M5*0.8	130g	27	34	45	12
1.Y09882	GMHZL2-20S	20	0.25~0.7	/	-10~60°C	±0.01	120	M5*0.8	218g	33	42	66	18
1.Y07975	GMHZL2-20D	20	/	0.1~0.7	-10~60°C	±0.01	120	M5*0.8	211g	33	42	66	18
1.Y09883	GMHZL2-25S	25	0.25~0.7	/	-10~60°C	±0.01	120	M5*0.8	302g	50	65	104	22
1.Y08802	GMHZL2-25D	25	/	0.1~0.7	-10~60°C	±0.01	120	M5*0.8	293g	50	65	104	22

Notes:

- 1, Air Fluid
- 2, action mode single-acting double-acting (optional)
- 3, optional non-contact magnetic switch

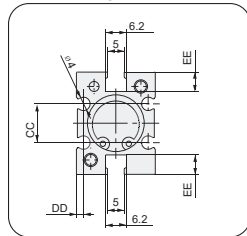
Dimensions table (mm)

GMHZL2-10□Magnetic Switch Mounting Groove Dimensions



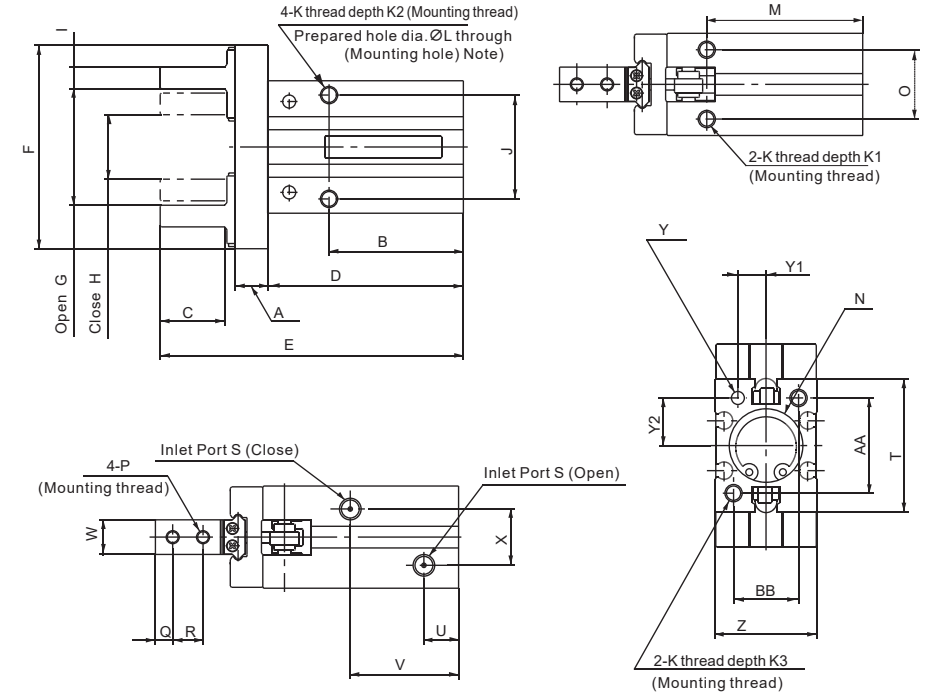
Note) When using Magnetic switches, throughhole mounting is not possible.

GMHZL2-□□Magnetic Switch Mounting Groove Dimensions



Note) When using Magnetic switchesD-Y59, D-Y69, D-Y7, throughhole mounting is not possible.

Parallel Gripper



* For single action, the port on one side is a breathing hole.

Bore	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ØL	M	N
10	6	25(35)	12	37.8(47.8)	57(67)	35	19.2 ^{±0.1}	11.2 ^{±0.1}	4 ^{±0.1}	16	M3x0.5	6	5.5	6	2.6	29(39)	Ø11H9T/2
16	7.5	31(36)	15	45.2(50.2)	70(75)	47	26.9 ^{±0.1}	14.9 ^{±0.1}	5 ^{±0.1}	24	M4x0.7	4.5	8	8	3.4	36(41)	Ø17H9T/2
20	9.5	36(42)	20	58(64)	90(96)	62	34.3 ^{±0.1}	16.3 ^{±0.1}	8 ^{±0.1}	30	M5x0.8	5	10	10	4.3	43(49)	Ø21H9T/3
25	11	40(50)	25	66.9(76.9)	106(116)	75	41.3 ^{±0.1}	19.3 ^{±0.1}	10 ^{±0.1}	36	M6x1	8	12	12	5.1	48(58)	Ø26H9T3.5

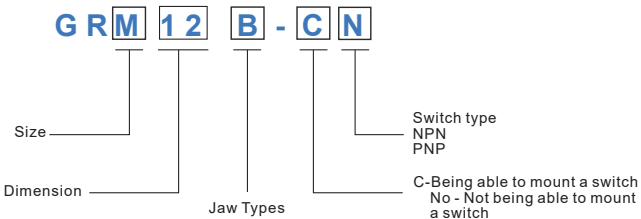
Bore	O	P	Q	R	S	T	U	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	11.4	M2.5x0.45	3	5.7	M3x0.5	23	8	21(31)	5 ^{±0.1}	11	Ø2H9T/3	16.4 ^{±0.1}	5.2 ^{±0.1}	7.8 ^{±0.1}	18	12	-	-	-
16	16	M3x0.5	4	7	M5x0.8	30.6	8	25(30)	8 ^{±0.1}	13	Ø2H9T/3	23.6 ^{±0.1}	6.5 ^{±0.1}	11 ^{±0.1}	22	15	11.6	2.1	5.8
20	18.6	M4x0.7	5	9	M5x0.8	42	10	30(36)	10 ^{±0.1}	15	Ø4H9T/4	27.6 ^{±0.1}	7.5 ^{±0.1}	16.8 ^{±0.1}	32	18	14	2.1	9
25	22	M5x0.8	6	12	M5x0.8	52	10	33(43)	12 ^{±0.1}	20	Ø4H9T/4	33.6 ^{±0.1}	10 ^{±0.1}	21.8 ^{±0.1}	40	22	19	3.5	11.5

The size of the single action is within ().

Sprue Gripper

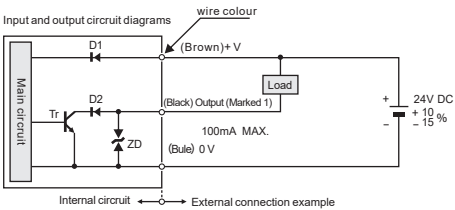
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.

Model representation methods



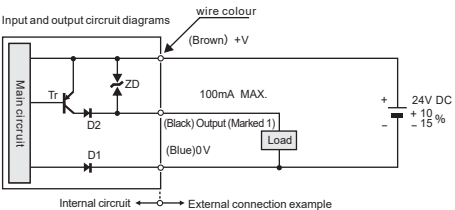
Switch wiring instructions

NPN output type



(Marked 1) Output is not equipped with short-circuit protection circuit.
Do not connect directly to power or capacitive loads

PNP output type



(Marked 1) Output is not equipped with short-circuit protection circuit.
Do not connect directly to power or capacitive loads

Accessories selection



PN	Model
7.Y00800	PNP
7.Y00801	NPN

Note: The length is 1 meter

Sprue Gripper

Series GR-Sprue Gripper (Without Sensor)



Series GR -Sprue Gripper (With Sensor)



PN	Model	Switch type	Gripping force(F)	Weight
8.Y00214	GRS08	-	5N	18g
8.Y00011	GRS08-CN	NPN	5N	40g
8.Y00012	GRS08-CP	PNP	5N	40g
8.Y00103	GRM12A	-	28N	46g
8.Y00009	GRM12A-CN	NPN	28N	60g
8.Y00010	GRM12A-CP	PNP	28N	60g
8.Y00107	GRM12B	-	28N	46g
8.Y00104	GRM12B-CN	NPN	28N	60g
8.Y00105	GRM12B-CP	PNP	28N	60g
8.Y00108	GRL12A	-	45N	94g
8.Y00001	GRL12A-CN	NPN	45N	100g
8.Y00002	GRL12A-CP	PNP	45N	100g
8.Y00213	GRX20	-	80N	180g
8.Y00013	GRX20-CN	NPN	80N	192g
8.Y00014	GRX20-CP	PNP	80N	192g

GRS08 Series

Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



GRS08
Without Sensor

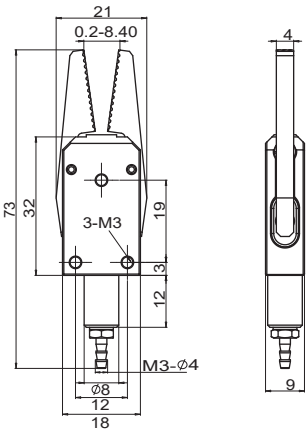


Diamond tooth

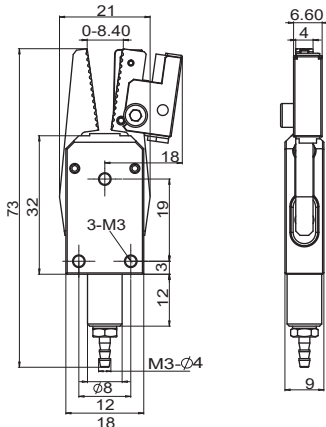


GRS08-CN(CP)
With Sensor

(PNP)
(NPN)



Without Sensor



With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00214	GRS08	-	5N	18g
8.Y00011	GRS08-CN	NPN	5N	40g
8.Y00012	GRS08-CP	PNP	5N	40g

GRM12 Series

Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



GRM12A
Without Sensor



A Diamond tooth

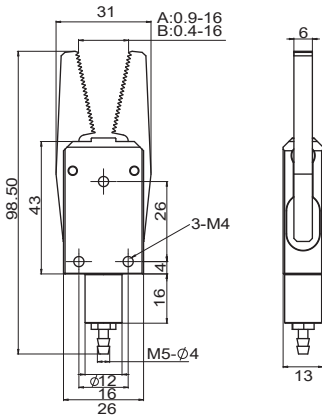


B Helical tooth

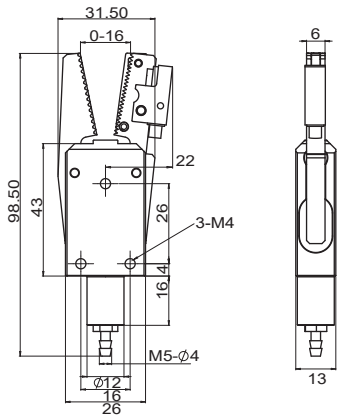


GRM12A-CN(CP)
With Sensor

(PNP)
(NPN)



Without Sensor



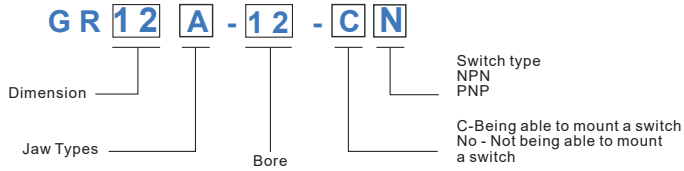
With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00103	GRM12A	-	28N	46g
8.Y00107	GRM12B	-	28N	46g
8.Y00009	GRM12A-CN	NPN	28N	60g
8.Y00010	GRM12A-CP	PNP	28N	60g
8.Y00104	GRM12B-CN	NPN	28N	60g
8.Y00105	GRM12B-CP	PNP	28N	60g

Sprue Gripper

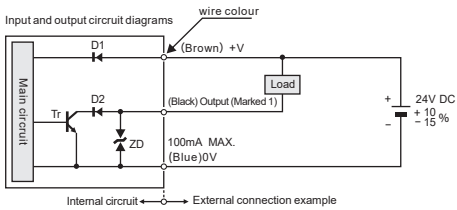
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.

Model representation methods



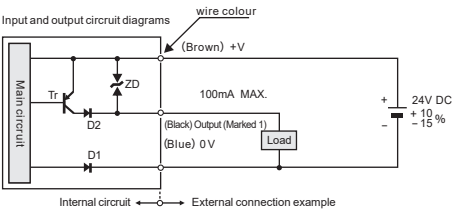
Switch wiring instructions

NPN output type



(Marked 1) Output is not equipped with short-circuit protection circuit.
Do not connect directly to power or capacitive loads

PNP output type



(Marked 1) Output is not equipped with short-circuit protection circuit.
Do not connect directly to power or capacitive loads

Accessoirer selection



Sensor
1. PNP
2. NPN

PN	Model
1.Y07261	MAP-8S2P1/F (PNP)
1.Y07405	MAP-8S2N1/F (NPN)

Note: The length is 1 meter

Sprue Gripper



GR05A-10
Without Sensor



GR10A-12
GR12A-12
GR12M-12(steel jaws)
Without Sensor



GR12B-12
Without Sensor



GR12L-12
Without Sensor



GR10A-12-CP
GR12A-12-CN(CP)
GR12M-12-CN(CP)(steel jaws)
With Sensor

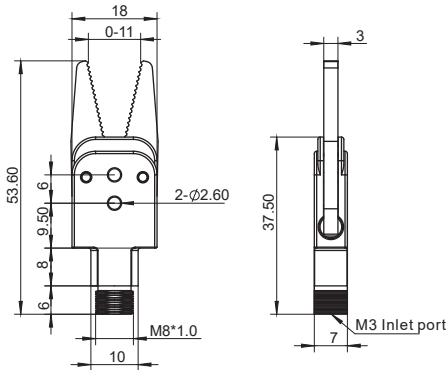


GR12B-12-CN(CP)
With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00348	GR05A-10	-	12N	9.6g
8.Y00268	GR10A-12	-	28N	44g
8.Y00267	GR10A-12-CP	PNP	28N	70g
8.Y00305	GR10A-12-CN	NPN	28N	70g
8.Y00370	GR10D-12	-	28N	42g
8.Y00369	GR10D-12-CP	PNP	28N	61g
8.Y01034	GR10D-12-CN	NPN	28N	61g
8.Y00048	GR12A-12	-	28N	44g
8.Y00050	GR12A-12-CP	PNP	28N	70g
8.Y00091	GR12A-12-CN	NPN	28N	70g
8.Y00245	GR12B-12	-	28N	44g
8.Y00261	GR12B-12-CP	PNP	28N	70g
8.Y00262	GR12B-12-CN	NPN	28N	70g
8.Y00307	GR10L-12	-	28N	50g
8.Y00308	GR12L-12	-	28N	50g
8.Y01053	GR10L-12-CP	PNP	28N	116g
8.Y01054	GR10L-12-CN	NPN	28N	116g
8.Y01020	GR12L-12-CP	PNP	28N	116g
8.Y01021	GR12L-12-CN	NPN	28N	116g
8.Y00419 (steel jaws)	GR12M-12	-	28N	66.2g
8.Y00421 (steel jaws)	GR12M-12-CP	PNP	28N	82.5g
8.Y00420 (steel jaws)	GR12M-12-CN	NPN	28N	82.5g
8.Y01011	GR10N-12	-	28N	42g
8.Y01012	GR12N-12	-	28N	42g
8.Y01018	GR12N-12-CP	PNP	28N	74.3g
8.Y01083	GR12N-12-CN	NPN	28N	74.3g

GR05A Series

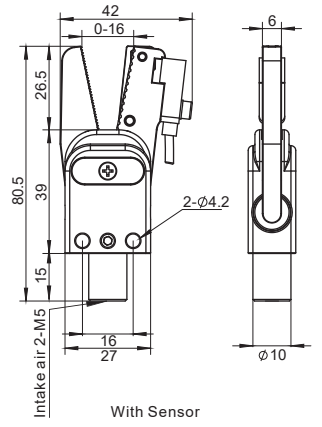
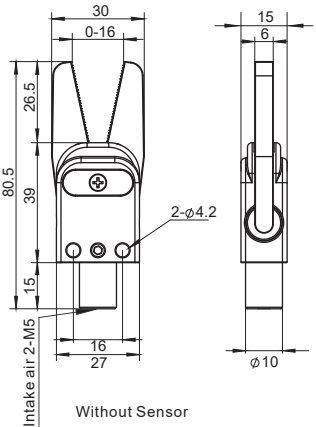
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00348	GR05A-10	-	12N	9.6g

GR10A Series

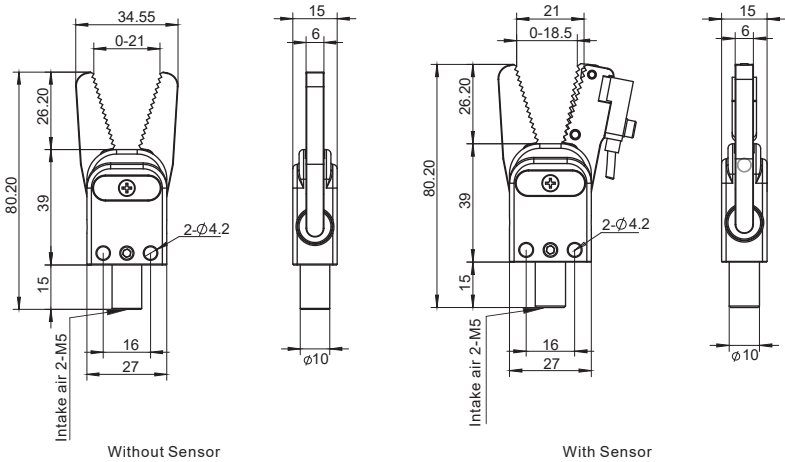
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00268	GR10A-12	-	28N	44g
8.Y00267	GR10A-12-CP	PNP	28N	70g
8.Y00305	GR10A-12-CN	NPN	28N	70g

GR10D Series

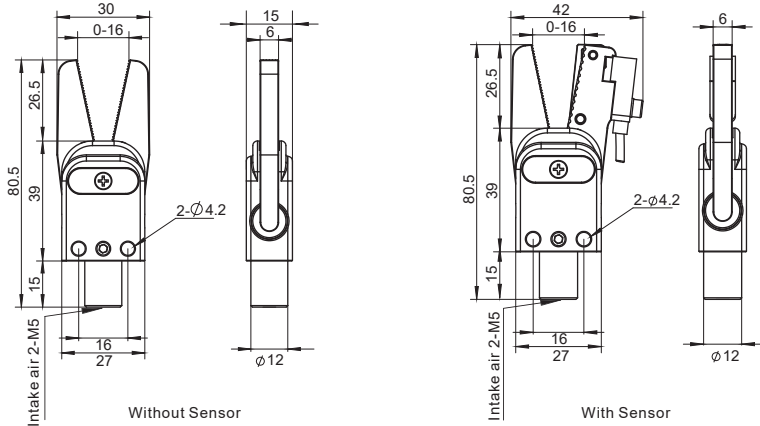
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00370	GR10D-12	-	28N	42g
8.Y00369	GR10D-12-CP	PNP	28N	61g
8.Y01034	GR10D-12-CN	NPN	28N	61g

GR12A Series

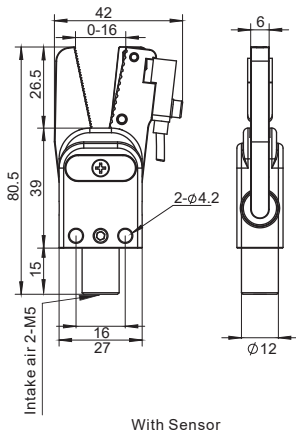
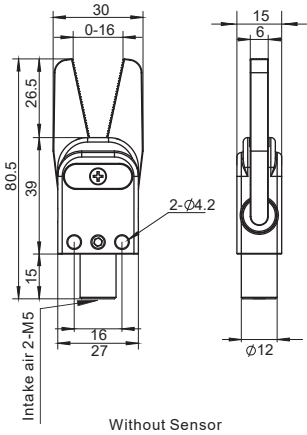
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00048	GR12A-12	-	28N	44g
8.Y00050	GR12A-12-CP	PNP	28N	70g
8.Y00091	GR12A-12-CN	NPN	28N	70g

GR12B Series

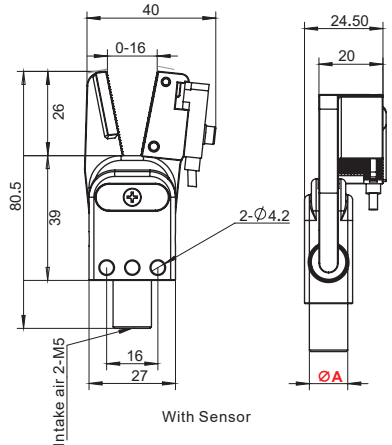
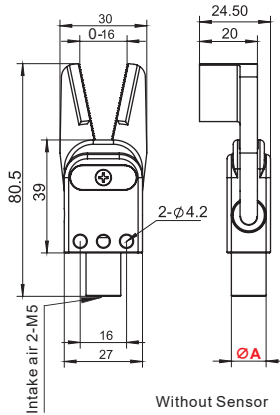
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00245	GR12B-12	-	28N	44g
8.Y00261	GR12B-12-CP	PNP	28N	70g
8.Y00262	GR12B-12-CN	NPN	28N	70g

GR10/12L Series

Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.
Wider Jaws, hold more stable and firm.



PN	Model	A	Sensor	Gripping force(F)	Weight
8.Y00307	GR10L-12	Ø10	-	28N	50g
8.Y00308	GR12L-12	Ø12	-	28N	50g
8.Y01053	GR10L-12-CP	Ø10	PNP	28N	116g
8.Y01054	GR10L-12-CN	Ø10	NPN	28N	116g
8.Y01020	GR12L-12-CP	Ø12	PNP	28N	116g
8.Y01021	GR12L-12-CN	Ø12	NPN	28N	116g

Accessory Components

Accessory Components

Sprue Gripper

1. Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
2. Using threaded components or CRG's components when to assemble.
3. GR series of sprue gripper can choose different types of jaws to satisfy the clamping of various sprue gate.



GR20A-20
Without Sensor



GR20B-20
Without Sensor



GR20D-20
Without Sensor



GR20C-20
Without Sensor



GR20A-20-CN(CP)
With Sensor



GR20B-20-CN(CP)
With Sensor



GR20D-20-CN(CP)
With Sensor



GR20E-20
Without Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00224	GR20A-20	-	80N	112g
8.Y00226	GR20A-20-CP	PNP	80N	137g
8.Y00051	GR20A-20-CN	NPN	80N	137g
8.Y00234	GR20B-20	-	80N	112g
8.Y00232	GR20B-20-CP	PNP	80N	137g
8.Y00233	GR20B-20-CN	NPN	80N	137g
8.Y00342	GR20C-20	-	80N	140g
8.Y00343	GR20D-20	-	80N	149g
8.Y00442	GR20D-20-CP	PNP	80N	173.1g
8.Y00479	GR20D-20-CN	NPN	80N	173.1g
8.Y00343-D1	GR20D-20-D1	PNP/NPN	80N	205g
8.Y00344	GR20E-20	-	80N	129g

Sprue Gripper

1. Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
2. Using threaded components or CRG's components when to assemble.
3. GR series of sprue gripper can choose different types of jaws to satisfy the clamping of various sprue gate.



GR20G-20
Without Sensor



GR20H-20
Without Sensor



GR20I-20
Without Sensor



GR20F-20
Without Sensor



GR20G-20-CN(CP)
With Sensor



GR20H-20-CN(CP)
With Sensor



GR20I-20-CN(CP)
With Sensor

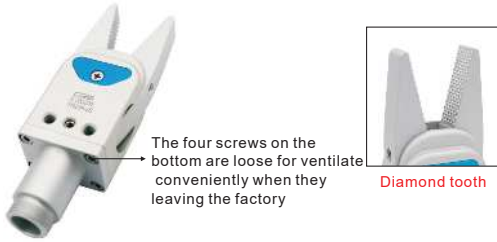


GR20D-20M
Optional Sensors

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00345	GR20F-20	-	80N	128g
8.Y00433	GR20G-20	-	80N	131.1g
8.Y00472	GR20G-20-CP	PNP	80N	153.7g
8.Y00473	GR20G-20-CN	NPN	80N	153.7g
8.Y00422 (steel jaws)	GR20H-20	-	80N	193.1g
8.Y00424 (steel jaws)	GR20H-20-CP	PNP	80N	220.5g
8.Y00423 (steel jaws)	GR20H-20-CN	NPN	80N	220.5g
8.Y00450 (steel jaws)	GR20I-20	-	80N	191.6g
8.Y00470 (steel jaws)	GR20I-20-CP	PNP	80N	219g
8.Y00471 (steel jaws)	GR20I-20-CN	NPN	80N	219g
8.Y01099	GR20D-20M	-	80N	163.6g
8.Y01100	GR20D-20M-CP	PNP	80N	170g
8.Y01101	GR20D-20M-CN	NPN	80N	170g

GR20A Series

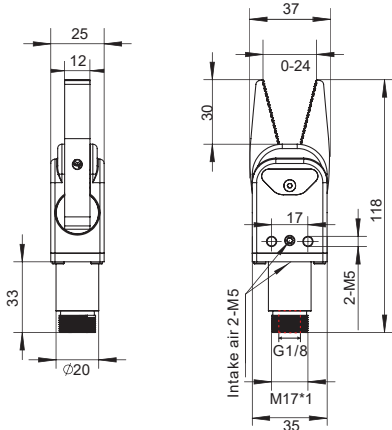
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



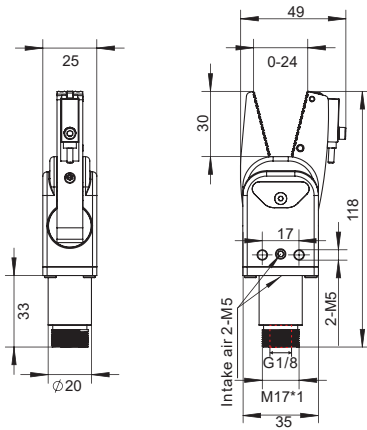
GR20A-20
Without Sensor



GR20A-20-CN(CP)
With Sensor



Without Sensor



With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00224	GR20A-20	-	80N	112g
8.Y00226	GR20A-20-CP	PNP	80N	137g
8.Y00051	GR20A-20-CN	NPN	80N	137g

GR20B Series

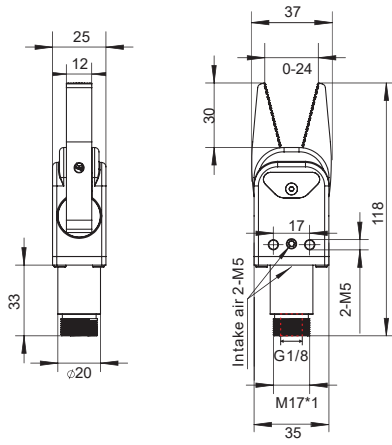
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



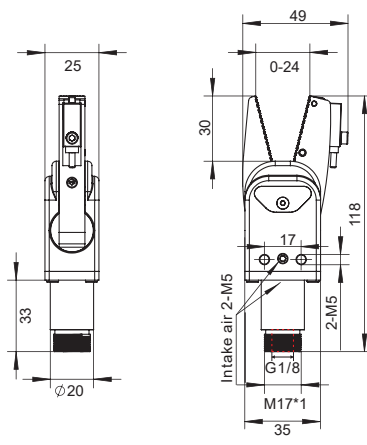
GR20B-20
Without Sensor



GR20B-20-CN(CP)
With Sensor



Without Sensor

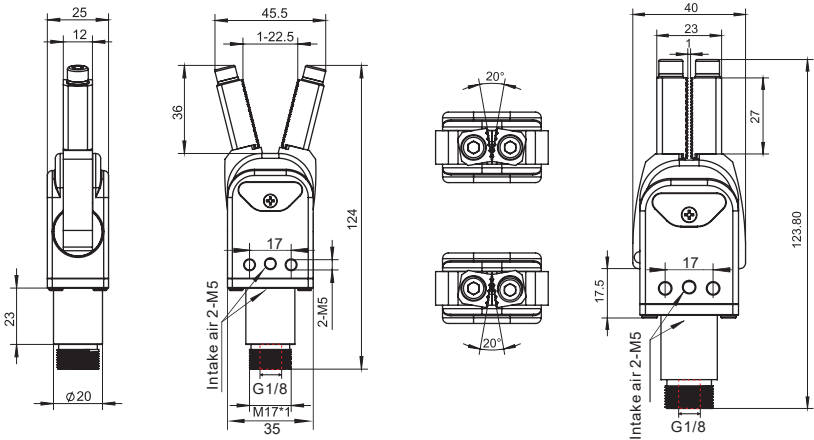


With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00234	GR20B-20	-	80N	112g
8.Y00232	GR20B-20-CP	PNP	80N	137g
8.Y00233	GR20B-20-CN	NPN	80N	137g

GR20C Series

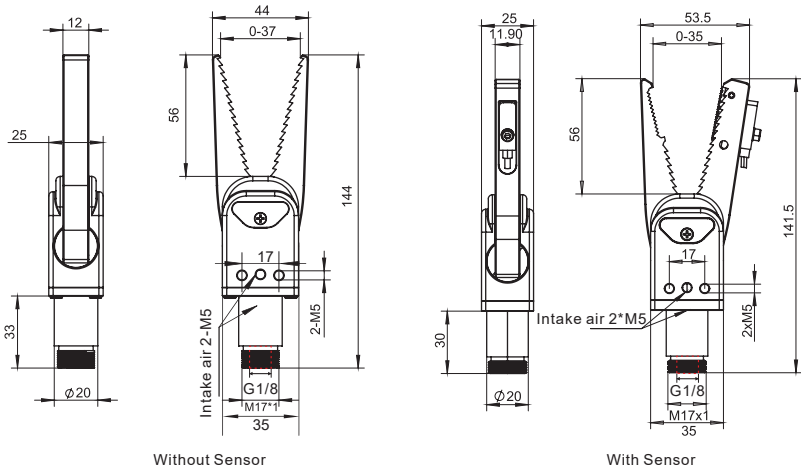
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00342	GR20C-20	-	80N	140g

GR20D Series

Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



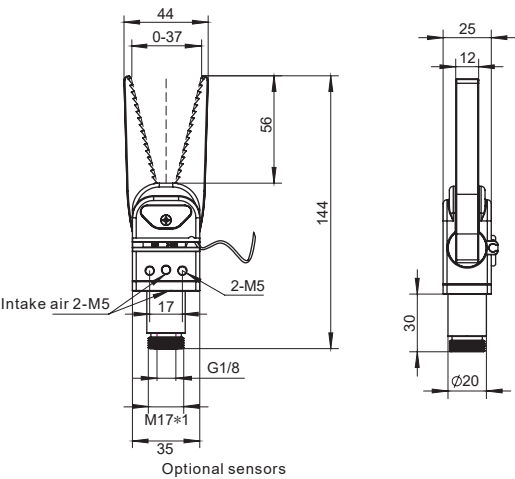
PN	Model	Sensor	Gripping force(F)	Weight
8.Y00343	GR20D-20	-	80N	149g
8.Y00442	GR20D-20-CP	PNP	80N	173.1g
8.Y00479	GR20D-20-CN	NPN	80N	173.1g

GR20D-20M Series

The position of the sensor can be adjusted to detect whether the clamp is in place when the product is clamped. The closed-loop function can be realized in automatic production.



GR20D-20M
Optional sensors



PN	Model	Sensor	Gripping force(F)	Weight
8.Y01099	GR20D-20M	-	80N	163.6g
8.Y01100	GR20D-20M-CP	PNP	80N	170g
8.Y01101	GR20D-20M-CN	NPN	80N	170g

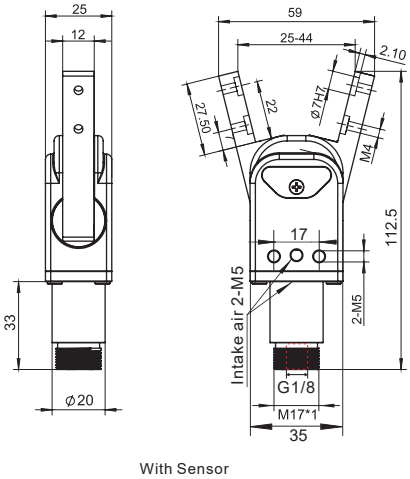
GR20E Series

Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle. Using threaded components or CRG's components when to assemble.



GR20E-20
Without Sensor

The four screws on the bottom are loose for ventilate conveniently when they leaving the factory



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00344	GR20E-20	-	80N	129g

GR20F Series

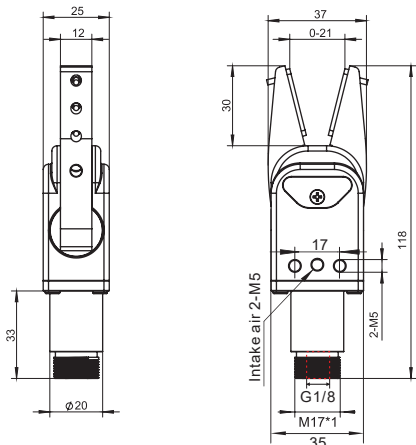
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



GR20F-20
Without Sensor



PN	4.Y00513
Model	SIL-1026
Weight	1.7g



Without Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00345	GR20F-20	-	80N	128g

GR20G Series

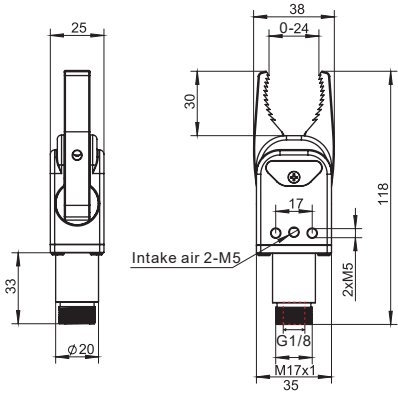
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



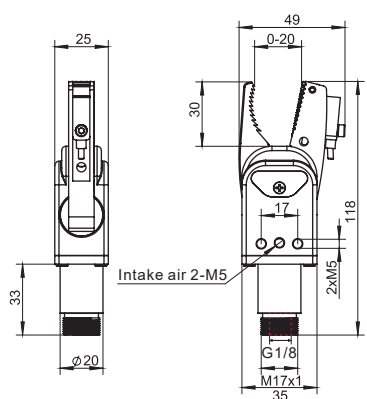
GR20G-20
Without Sensor



GR20G-20-CN(CP)
With Sensor



Without Sensor

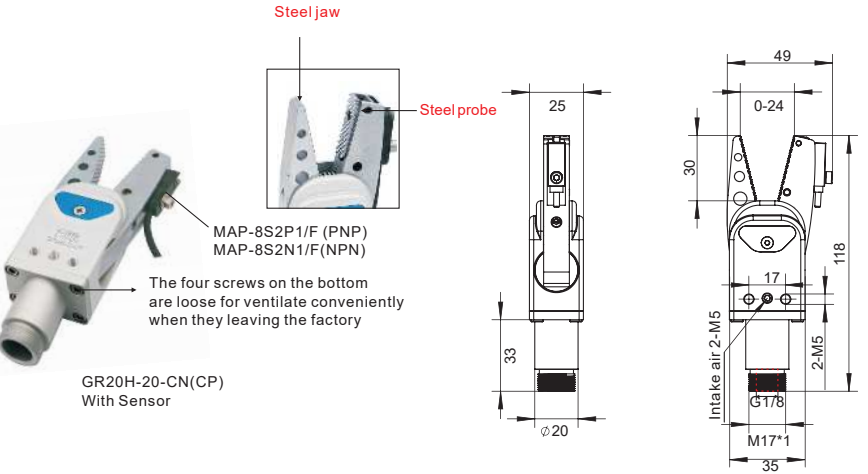
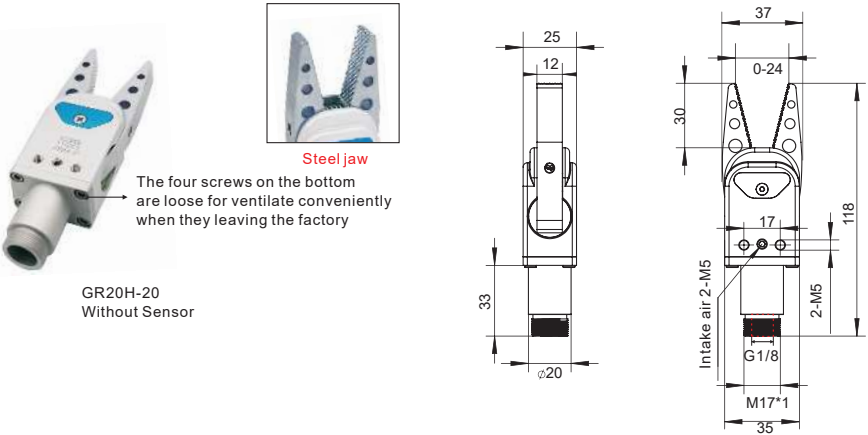


With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00433	GR20G-20	-	80N	131.1g
8.Y00472	GR20G-20-CP	PNP	80N	153.7g
8.Y00473	GR20G-20-CN	NPN	80N	153.7g

GR20H Series

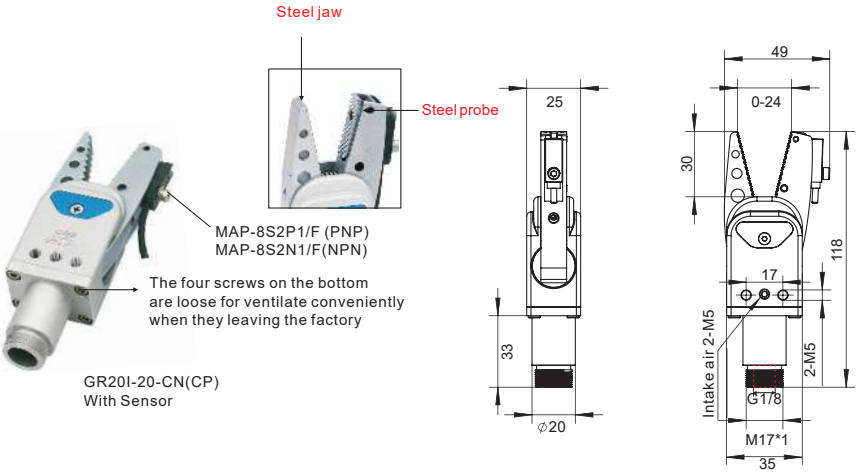
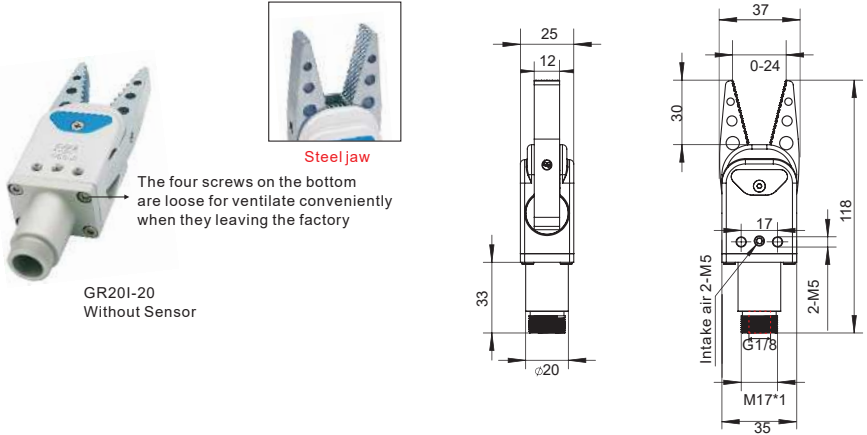
Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00422	GR20H-20	-	80N	193.1g
8.Y00424	GR20H-20-CP	PNP	80N	220.5g
8.Y00423	GR20H-20-CN	NPN	80N	220.5g

GR20I Series

Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
Using threaded components or CRG's components when to assemble.



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00450	GR20I-20	-	80N	191.6g
8.Y00470	GR20I-20-CP	PNP	80N	219.1g
8.Y00471	GR20I-20-CN	NPN	80N	219.1g

Sprue Gripper

- 1. Double acting or spring open (-NO).
- 2. Very high gripping force related to the weight and dimensions.
- 3. Different options for fastening.
- 4. Optional magnetic sensors.



GRA20A
Without Sensor



GRA20A-CN(CP)
With Sensor



GRA20C-CN(CP)
With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00391	GRA20A	-	80N	110g
8.Y00392	GRA20A-CP	PNP	80N	115g
8.Y00393	GRA20A-CN	NPN	80N	115g
8.Y00434	GRA20C-CP	PNP	80N	135g
8.Y00435	GRA20C-CN	NPN	80N	135g

GRA20A Series

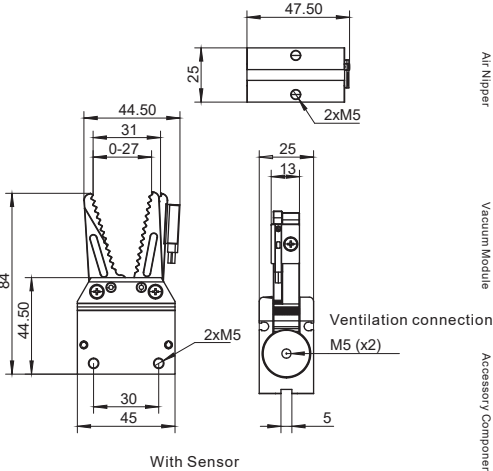
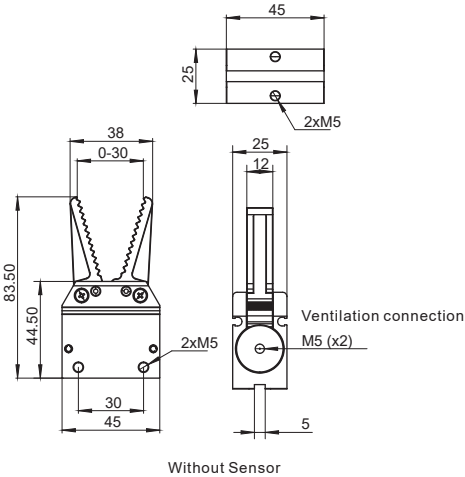
- 1. Double acting or spring open (-NO).
- 2. Very high gripping force related to the weight and dimensions.
- 3. Different options for fastening.
- 4. Optional magnetic sensors.



GRA20A
Without Sensor



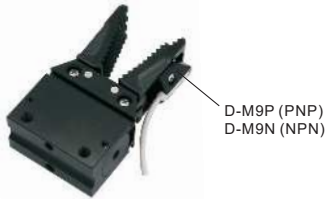
GRA20A-CN(CP)
With Sensor



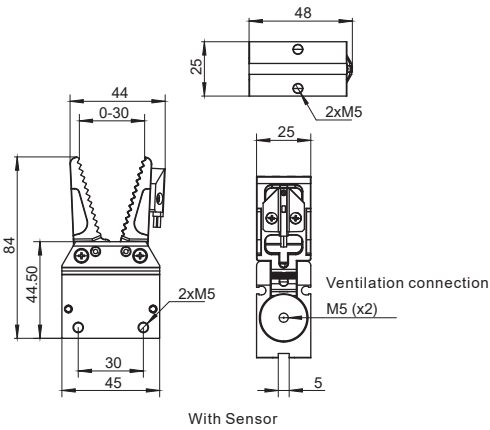
PN	Model	Sensor	Gripping force(F)	Weight
8.Y00391	GRA20A	-	80N	110g
8.Y00392	GRA20A-CP	PNP	80N	115g
8.Y00393	GRA20A-CN	NPN	80N	115g

GRA20C Series

- 1. Double acting or spring open (-NO).
- 2. Very high gripping force related to the weight and dimensions.
- 3. Different options for fastening.
- 4. Optional magnetic sensors.



GRA20C-CN(CP)
With Sensor



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00434	GRA20C-CP	PNP	80N	135g
8.Y00435	GRA20C-CN	NPN	80N	135g

Sprue Gripper

- 1. Main body being made of high-strength Aluminium, light weight, strong rigidity and long life cycle.
- 2. Using threaded components or CRG's components when to assemble.
- 3. GR series of sprue gripper can choose different types of jaws to satisfy the clamping of various sprue gate.



GRT20A
Without Sensor



GRT20B
Without Sensor



GRT20C
Without Sensor



GRT20E
Without Sensor



GRT20A-CN(CP)
With Sensor



GRT20B-CN(CP)
With Sensor



GRT20D
Without Sensor



GRT20E-CN(CP)
With Sensor

PN	Model	Switch type	Gripping force(F)	Weight
8.Y00257	GRT20A	-	100N	111g
8.Y00258	GRT20A-CN	NPN	100N	130g
8.Y00259	GRT20A-CP	PNP	100N	130g
8.Y00279	GRT20B	-	100N	162.8g
8.Y00281	GRT20B-CN	NPN	100N	158.4g
8.Y00282	GRT20B-CP	PNP	100N	158.4g
8.Y00316	GRT20C	-	100N	144g
8.Y00317	GRT20D	-	100N	160g
8.Y01004	GRT20D-CP	PNP	100N	145g
8.Y00458	GRT20D-CN	NPN	100N	145g
8.Y00318	GRT20E	-	100N	161g
8.Y00339	GRT20E-CN	NPN	100N	165g
8.Y00340	GRT20E-CP	PNP	100N	165g
8.Y01008	GRT20F	-	100N	111g

GRT20A Series

1. Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
2. Using threaded components or CRG's components when to assemble.
3. GR series of sprue gripper can choose different types of jaws to satisfy the clamping of various sprue gate.

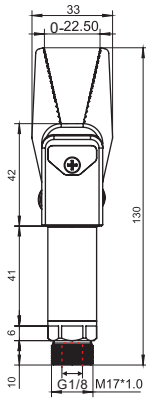


GRT20A
Without Sensor

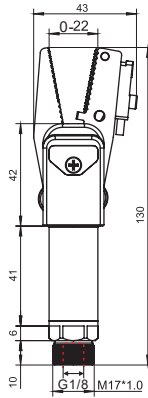
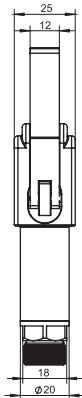


GRT20A-CN(CP)
With Sensor

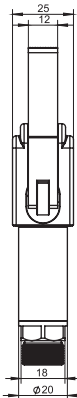
MAP-8S2P1/F (PNP)
MAP-8S2N1/F (NPN)



Without Sensor



With Sensor



PN	Model	Sensor	Gripping force(F)	Weight
8.Y00257	GRT20A	-	100N	111g
8.Y00258	GRT20A-CN	NPN	100N	130g
8.Y00259	GRT20A-CP	PNP	100N	130g

GRT20B Series

1. Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
2. Using threaded components or CRG's components when to assemble.
3. GR series of sprue gripper can choose different types of jaws to satisfy the clamping of various sprue gate.

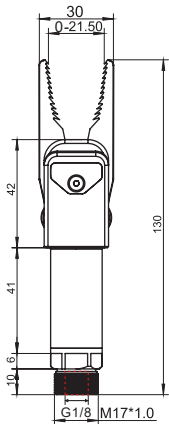


GRT20B
Without Sensor

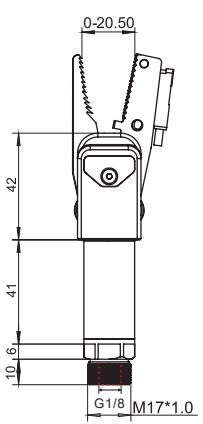
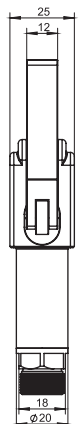


GRT20B-CN(CP)
With Sensor

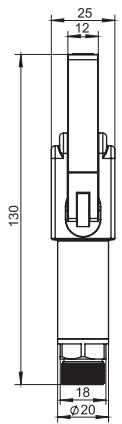
MAP-8S2P1/F (PNP)
MAP-8S2N1/F (NPN)



Without Sensor



With Sensor



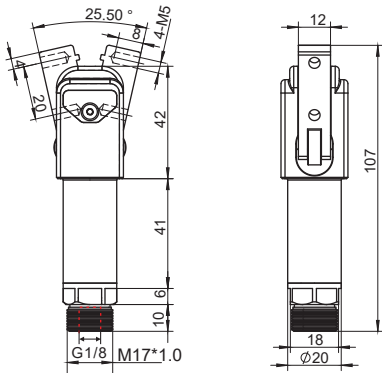
PN	Model	Sensor	Gripping force(F)	Weight
8.Y00279	GRT20B	-	100N	162.8g
8.Y00281	GRT20B-CN	NPN	100N	158.4g
8.Y00282	GRT20B-CP	PNP	100N	158.4g

GRT20C Series

1. Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
2. Using threaded components or CRG's components when to assemble.
3. GR series of sprue gripper can choose different types of jaws to satisfy the clamping of various sprue gate.



GRT20C
Without Sensor



Without Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00316	GRT20C	-	100N	144g

GRT20D Series

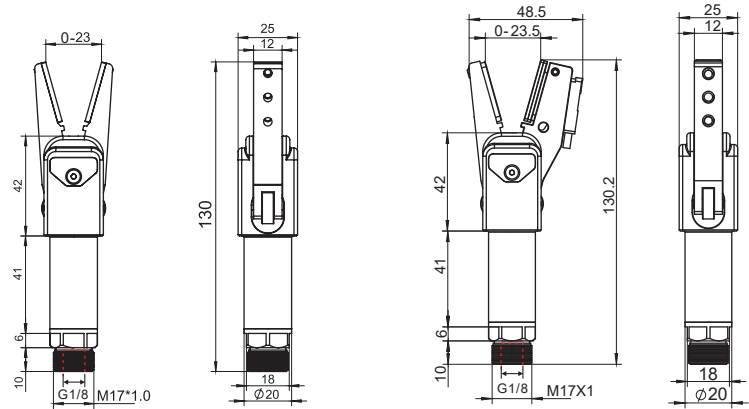
1. Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
2. Using threaded components or CRG's components when to assemble.
3. GR series of sprue gripper can choose different types of jaws to satisfy the clamping of various sprue gate.



GRT20D
Without Sensor



GRT20D-CN(CP)
With Sensor



Without Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00317	GRT20D	-	100N	160g
8.Y01004	GRT20D-CP	PNP	100N	145g
8.Y00458	GRT20D-CN	NPN	100N	145g

GRT20E Series

- 1. Main body being made of high-strength Aluminium , light weight , strong rigidity and long life cycle.
- 2. Using threaded components or CRG's components when to assemble.
- 3. GR series of sprue gripper can choose different types of jaws to satisfy the clamping of various sprue gate.

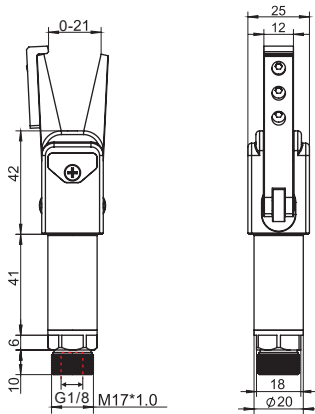


GRT20E
Without Sensor

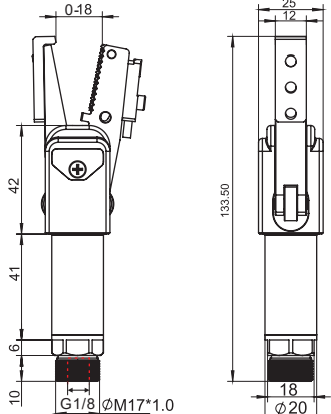


GRT20E-CN(CP)
With Sensor

MAP-8S2P1/F (PNP)
MAP-8S2N1/F (NPN)



Without Sensor



With Sensor

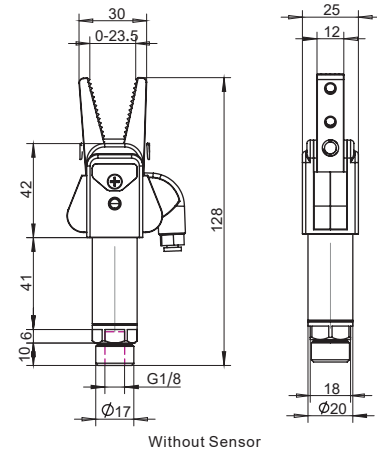
PN	Model	Sensor	Gripping force(F)	Weight
8.Y00318	GRT20E	-	100N	161g
8.Y00339	GRT20E-CN	NPN	100N	165g
8.Y00340	GRT20E-CP	PNP	100N	165g

GRT20F Series

- 1. When the Sprue gripper the product, the baffle rotates to block the air passage of the vacuum detector, so that the external detector can detect whether the Sprue gripper the product or not.
- 2. The cylinder body is provided with a first reset spring, and a third reset spring is arranged on the A face of the stopper, and a third reset spring is arranged between the upper gripper and the lower gripper, so that the piston can quickly reset when the Sprue gripper lowers the clamping object.
- 3. The air outlet of the vacuum test piece is provided with a cushion, which can enhance the air tightness between the barrier piece and the vacuum test piece, and can avoid the abrasion when the hard material resists.



GRT20F
Without Sensor



PN	Model	Sensor	Gripping force(F)	Weight
8.Y01008	GRT20F	-	100N	111g

Sprue Gripper

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
Shaft diameter 25mm, optional 30mm.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.



GRP32A
Without Sensor



GRP32B
Without Sensor



GRP32A-30
Without Sensor



GRP32B-30
Without Sensor



GRP32A-CN(CP)
With Sensor



GRP32B-CN(CP)
With Sensor



GRP32A-30CN(CP)
With Sensor



GRP32B-30CN(CP)
With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00278	GRP32A	-	200N	604g
8.Y00462	GRP32A-CP	PNP	200N	658g
8.Y00463	GRP32A-CN	NPN	200N	658g
8.Y00388	GRP32B	-	200N	608g
8.Y00466	GRP32B-CP	PNP	200N	662.4g
8.Y00467	GRP32B-CN	NPN	200N	662.4g
8.Y00315	GRP32A-30	-	200N	1276g
8.Y00464	GRP32A-30CP	PNP	200N	1330g
8.Y00465	GRP32A-30CN	NPN	200N	1330g
8.Y00387	GRP32B-30	-	200N	1282g
8.Y00399	GRP32B-30CP	PNP	200N	1336g
8.Y00411	GRP32B-30CN	NPN	200N	1336g

Sprue Gripper

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
Shaft diameter 25mm, optional 30mm.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.



GRP32C
Without Sensor



GRP32A-3020
Without Sensor



GRP32B-3020
Without Sensor



GRP32C-3020
Without Sensor



GRP32C-30
Without Sensor



GRP32A-3020CN(CP)
With Sensor



GRP32B-3020CN(CP)
With Sensor

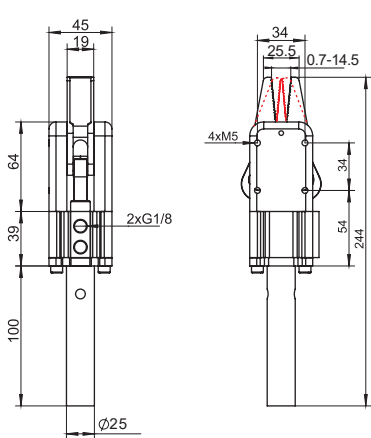
PN	Model	Sensor	Gripping force(F)	Weight
8.Y00468	GRP32A-3020	-	200N	1600g
8.Y00469	GRP32A-3020CP	PNP	200N	1654g
8.Y00477	GRP32A-3020CN	NPN	200N	1654g
8.Y00478	GRP32B-3020	-	200N	1604g
8.Y00416	GRP32B-3020CP	PNP	200N	1658g
8.Y00417	GRP32B-3020CN	NPN	200N	1658g
8.Y00412	GRP32C	-	200N	614g
8.Y00415	GRP32C-30	-	200N	1286g
8.Y00418	GRP32C-3020	-	200N	1610g

GRP32A Series

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
Shaft diameter 25mm, optional 30mm.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.



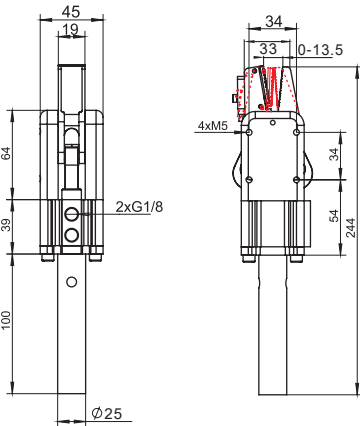
GRP32A
Without Sensor



Without Sensor



GRP32A-CN(CP)
With Sensor



With Sensor

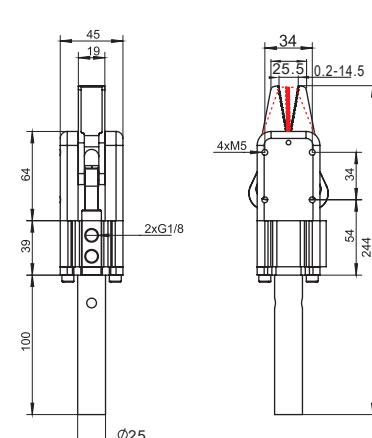
PN	Model	Sensor	Gripping force(F)	Weight
8.Y00278	GRP32A	-	200N	604g
8.Y00462	GRP32A-CP	PNP	200N	658g
8.Y00463	GRP32A-CN	NPN	200N	658g

GRP32B Series

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
Shaft diameter 25mm, optional 30mm.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.



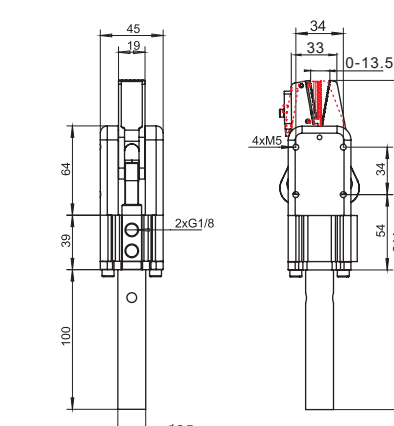
GRP32B
Without Sensor



Without Sensor



GRP32B-CN(CP)
With Sensor



With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00388	GRP32B	-	200N	608g
8.Y00466	GRP32B-CP	PNP	200N	662.4g
8.Y00467	GRP32B-CN	NPN	200N	622.4g

GRP32A-30 Series

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
Shaft diameter 25mm, optional 30mm.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.



GRP32A-30
Without Sensor



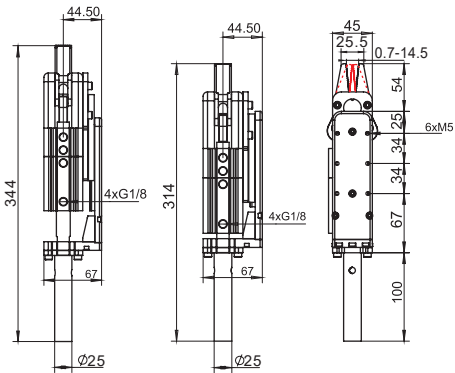
Helical tooth



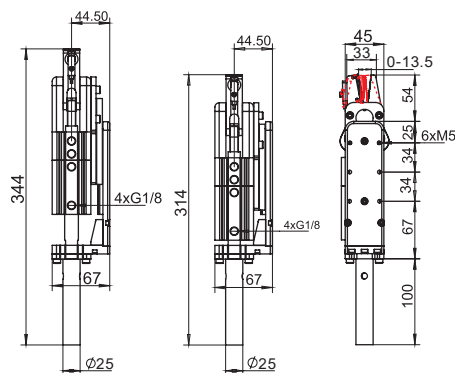
GRP32A-30CN(CP)
With Sensor

MAP-8S2P1/F (PNP)
MAP-8S2N1/F (NPN)

Diameter $\phi 25$, select $\phi 30$
Length can changes to 50/100/150



Without Sensor



With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00315	GRP32A-30	-	200N	1276g
8.Y00464	GRP32A-30CP	PNP	200N	1330g
8.Y00465	GRP32A-30CN	NPN	200N	1330g

GRP32B-30 Series

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
Shaft diameter 25mm, optional 30mm.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.



GRP32B-30
Without Sensor



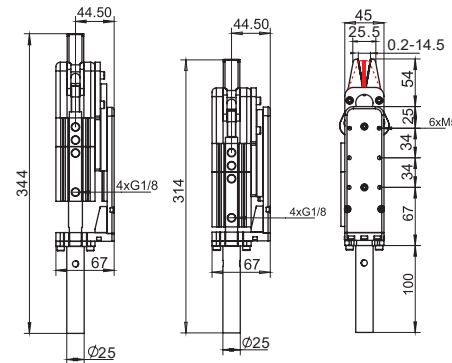
Diamond tooth



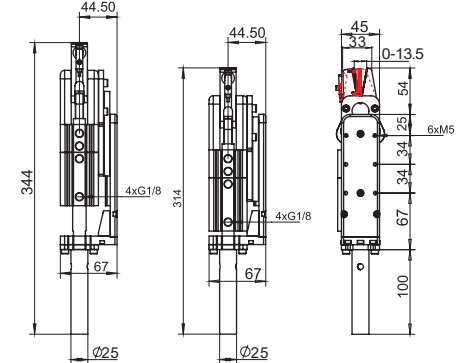
GRP32B-30CN(CP)
With Sensor

MAP-8S2P1/F (PNP)
MAP-8S2N1/F (NPN)

Diameter $\phi 25$, select $\phi 30$
Length can changes to 50/100/150



Without Sensor



With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00387	GRP32B-30	-	200N	1282g
8.Y00399	GRP32B-30CP	PNP	200N	1336g
8.Y00411	GRP32B-30CN	NPN	200N	1336g

GRP32A-3020 Series

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
Shaft diameter 25mm, optional 30mm.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.



GRP32A-3020
Without Sensor



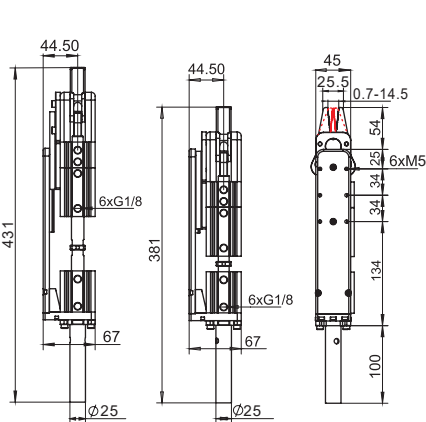
Helical tooth



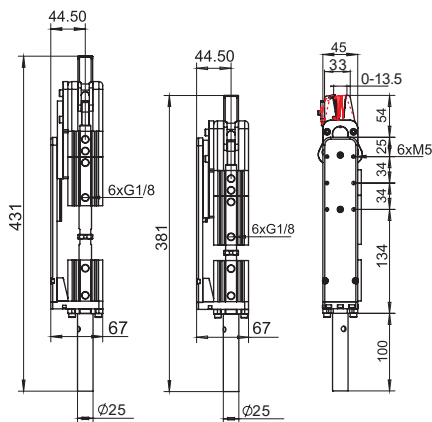
GRP32A-3020CN(CP)
With Sensor

MAP-8S2P1/F (PNP)
MAP-8S2N1/F (NPN)

Diameter $\phi 25$, select $\phi 30$
Length can changes to 50/100/150



Without Sensor



With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00468	GRP32A-3020	-	200N	1600g
8.Y00469	GRP32A-3020CP	PNP	200N	1654g
8.Y00477	GRP32A-3020CN	NPN	200N	1654g

GRP32B-3020 Series

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
Shaft diameter 25mm, optional 30mm.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.



GRP32B-3020
Without Sensor



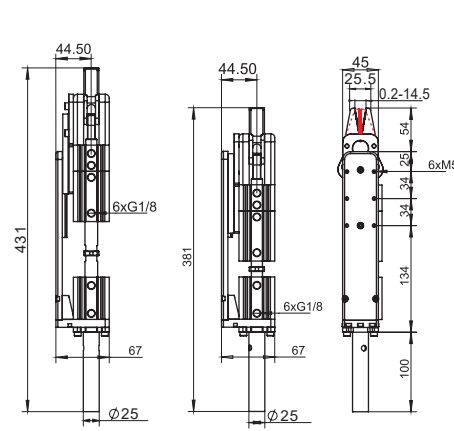
Diamond tooth



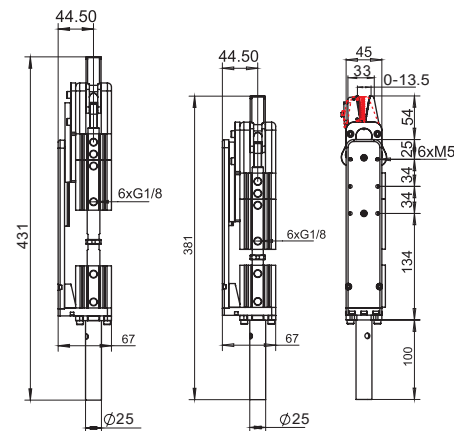
GRP32B-3020CN(CP)
With Sensor

MAP-8S2P1/F (PNP)
MAP-8S2N1/F (NPN)

Diameter $\phi 25$, select $\phi 30$
Length can changes to 50/100/150



Without Sensor



With Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00478	GRP32B-3020	-	200N	1604g
8.Y00416	GRP32B-3020CP	PNP	200N	1658g
8.Y00417	GRP32B-3020CN	NPN	200N	1658g

GRP32C Series

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
Shaft diameter 25mm, optional 30mm.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.



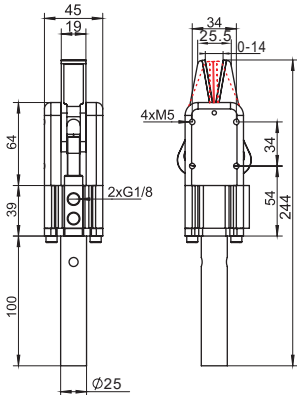
GRP32C
Without Sensor

Diameter $\varnothing 25$, select $\varnothing 30$
Length can change to 50/100/150

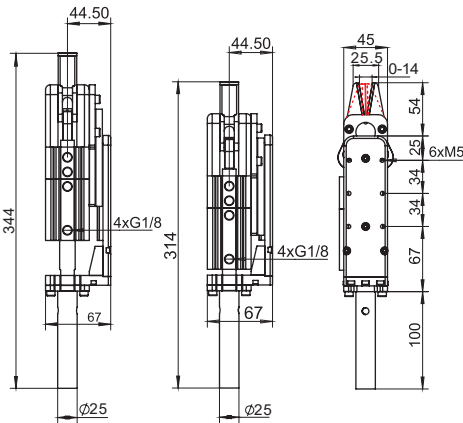


GRP32C-30
Without Sensor

Diameter $\varnothing 25$, select $\varnothing 30$
Length can change to 50/100/150



Without Sensor



Without Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00412	GRP32C	-	200N	614g
8.Y00415	GRP32C-30	-	200N	1286g

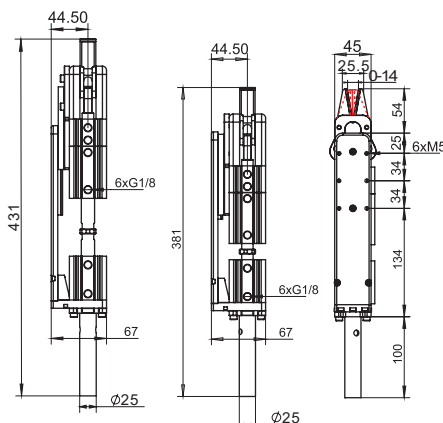
GRP32C-3020 Series

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
Shaft diameter 25mm, optional 30mm.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.



GRP32C-3020
Without Sensor

Diameter $\varnothing 25$, select $\varnothing 30$
Length can change to 50/100/150



Without Sensor

PN	Model	Sensor	Gripping force(F)	Weight
8.Y00418	GRP32C-3020	-	200N	1610g

Rochu Gripper Introduction

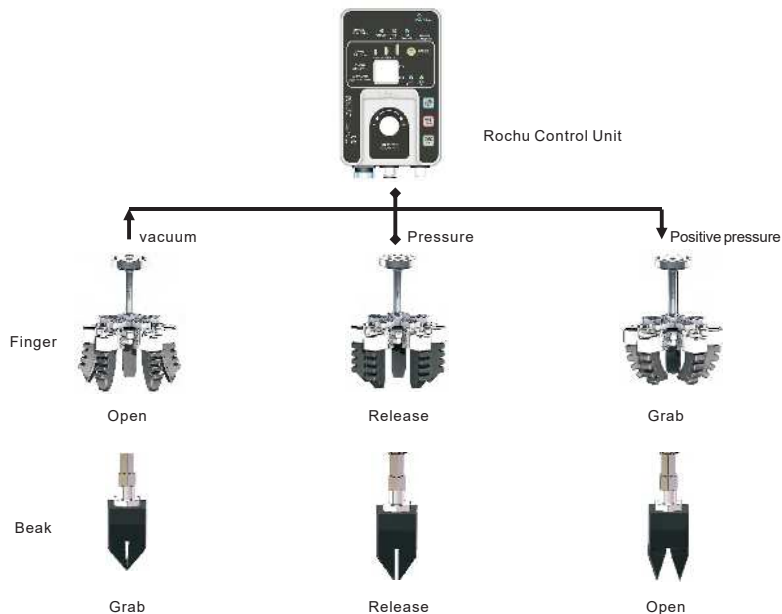
Flexible soft grippers use the principle of bionics to imitate the action of Octopus tentacle wrapping the captured object, so as to grasp the object in a wrapping way. Traditional fixture often can't provide a successful grasping scheme because of the limitations of object shape, material, grasping requirements and so on. Flexible soft grippers, made of flexible materials, will not damage the object to be caught. At the same time, due to its centimeter level adaptive ability, it has high versatility. One claw is omnipotent, suitable for different shapes of objects, and users do not need to replace the fixture frequently. Flexible soft grippers fills the gap of the End-Of-Arm-Tooling, and greatly expands the application of industrial robot.

Working Principle

Flexible soft grippers adopt pneumatic drive technology, through positive and negative pressure transform to achieve fingers opening and closing movement. Then realize flexible gripping or outrigger action. The gripper grab strength is adjusted by air pressure. Then achieve flexible gripping of different objects while avoiding damage objects.



The working pressure must be kept within a safe range, overload may cause irreversible damage of the finger. It is recommended to use our "Rochu control unit" to ensure the life time and stability of the soft finger and beak. Please refer to the product page or packaging mark for the air pressure of the product.



Application

The grasping action of flexible fingers is inspired by the tentacles of octopus, which can wrap the captured object in a soft way, without damaging the object or leaving scratches on the surface of the object. And widely used in auto parts, 3C electronics, food, medical, clothing, daily chemical and other industries. The flexible gripper can be used in assembly, sorting, handling and other industrial occasions, and can also be used in new retail industries such as vending machines. It has the advantages of high safety, good versatility, simple and convenient installation, and makes up for the vacancy that the mechanical clamping claw and vacuum cup can not be applied in some occasions.



Food

Food safe materials. FDA and EC-1935 certification. Used for pick and place of fruits, dough, candies, pastry and vegetables.



3C

It is used for high-precision plug and pull of small electronic parts. Assembling, sorting, testing and packaging of ceramic and plastic parts in mobile phone, PCBs, silicon wafers, optic glasses.



Clothing fabric

It's suitable for layer grabbing or multi-layer grabbing of knitted and woven fabrics at the same time. When layer grabbing, only the top layer of stacked materials can be grabbed, and it can also be used for stacking and handling of stacked pieces.



Auto mobile

Used for sorting, transporting, loading and unloading of automobile lamps, metal special-shaped parts and appearance parts, especially suitable for small batch and multi batch flexible production.



Smart picking

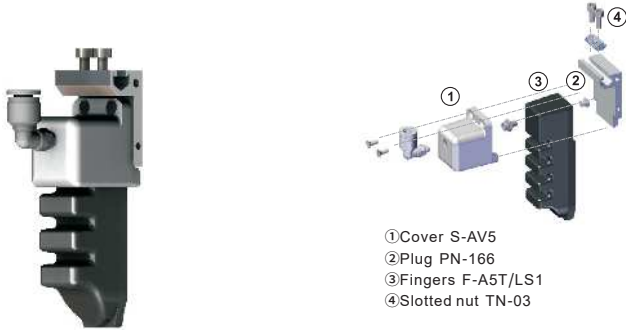
Smart picking based on artificial intelligence technology. It can be used for sorting and logistics packaging under disorderly stacking and complex scenes.



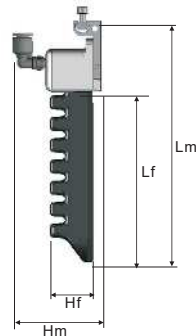
Medical supplies

It is used for grasping medical consumables such as infusion tube, test tube and ampoule bottle, as well as bottled and bagged reagents, including the production and disinfection of medical devices.

Series-GFM-V5 Finger Module

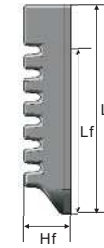
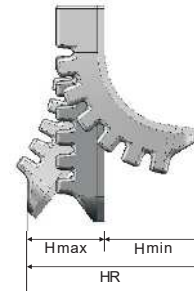
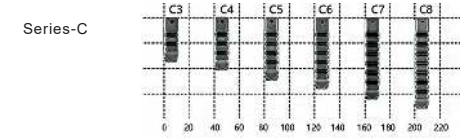
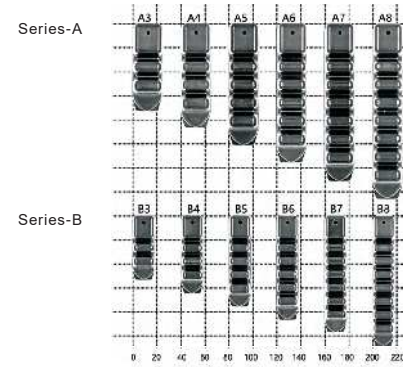


- ①Cover S-AV5
- ②Plug PN-166
- ③Fingers F-A5T/LS1
- ④Slotted nut TN-03



Series	PN	Model	HR [mm]	Negative pressure stroke* Hmax [mm]		Positive pressure stroke** Hmin [mm]	Module height Hm [mm]	Height Hf [mm]	Module length Lm [mm]	Length Lf [mm]	Module width Wm [mm]	Width Wf [mm]	Self-respect [g]	Safe working air pressure [Kpa]	
				Conventional type	Enhanced									Conventional type	Enhanced
Paragraph A	4.Y00500	GFM-A3V5	16.5	8	7	8.5	58			88	41	24	76	120	300
	4.Y00501	GFM-A4V5	27	10	12	17				102	55		83		
	4.Y00502	GFM-A5V5	43.5	19	16	24.5				116	69		90		
	4.Y10951	GFM-A6V5	72	33	22	39				130	83		97		
	4.Y10952	GFM-A7V5	90	39	27	51				144	97		104		
	4.Y10953	GFM-A8V5	109	45	32	64				158	111		111		
Paragraph B	4.Y00503	GFM-B3V5	19	10	6	9	51	21		71	31	25	44	120	260
	4.Y00504	GFM-B4V5	29	13	10	16				82	41.5		48		
	4.Y00505	GFM-B5V5	40	16	14	24				92	52		52		
	4.Y10954	GFM-B6V5	53	23	17	30				103	62.5		56		
	4.Y10955	GFM-B7V5	75	30	21	45				113	73		60		
	4.Y10956	GFM-B8V5	98	37	25	61				124	83.5		64		
Paragraph C	4.Y00506	GFM-C3V5	10.5	5	1	5.5	44	14		53	21	18	28	120	220
	4.Y00507	GFM-C4V5	20	9	3	11				60	28		28		
	4.Y00508	GFM-C5V5	27	12	8	15				67	35		29		
	4.Y10957	GFM-C6V5	42	20	10	22				74	42		30		
	4.Y10958	GFM-C7V5	63	29	13	34				81	49		31		
	4.Y10959	GFM-C8V5	80	38	16	42				88	56		32		

Flexible Finger



Series	PN	Model	HR [mm]	Negative pressure stroke* Hmax [mm]		Positive pressure stroke** Hmin [mm]	Height Hf [mm]	Length Lf [mm]	Total length L [mm]	Width Wf [mm]	Self-respect [g]	Safe working air pressure [Kpa]	
				Conventional type	Enhanced							Conventional type	Enhanced
Paragraph A	1.Y08421	A3	16.5	8	7	8.5	28	41	69	24	33	120	300
	1.Y08422	A4	27	10	12	17		55	83		40		
	1.Y08423	A5	43.5	19	16	24.5		69	97		47		
	1.Y12918	A6	72	33	22	39		83	111		55		
	1.Y12919	A7	90	39	27	51		97	125		62		
	1.Y12920	A8	109	45	32	64		111	139		69		
Paragraph B	1.Y08424	B3	19	10	6	9	21	31	52	18	11	120	260
	1.Y08425	B4	29	13	10	16		42	62		16		
	1.Y08426	B5	40	16	14	24		52	73		20		
	1.Y12921	B6	53	23	17	30		63	83		24		
	1.Y12922	B7	75	30	21	45		73	94		28		
	1.Y12923	B8	98	37	25	61		84	104		32		
Paragraph C	1.Y08427	C3	10.5	5	1	5.5	14	21	34	12	4	120	220
	1.Y08428	C4	20	9	3	11		28	41		5		
	1.Y08429	C5	27	12	8	15		35	48		6		
	1.Y12924	C6	42	20	10	22		42	55		7		
	1.Y12925	C7	63	29	13	34		49	62		7		
	1.Y12926	C8	80	38	16	42		56	69		8		

Roro Beak Suit

GBS-4B-S01 4 pieces Beak Suit



VFNT1011-M5
Assembling Suit
VFNT1011-M5

B-4B
Roro Beak
B-4B



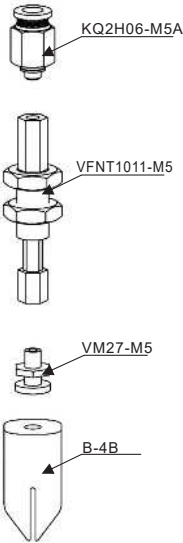
3 Pieces Application: Gripping jewelry by external bracing



3 Pieces Application: Gripping ring by external bracing



4 Pieces Application: Gripping products in Electronic industry



KQ2H06-M5A

VFNT1011-M5

VM27-M5

B-4B

PN	Model	Maximum Load	Maximum Working Frequency	Precision Range
4.Y00509	GBS-2B-S01	5 g	200 times/min	0.1 mm
4.Y00510	GBS-3B-S01	5 g	200 times/min	0.1 mm
4.Y00511	GBS-4B-S01	5 g	200 times/min	0.1 mm

Roro Beak

Roro Beak B-2B



PN	1.Y08430
Model	B-2B

Roro Beak B-3B

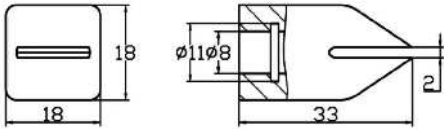


PN	1.Y08431
Model	B-3B

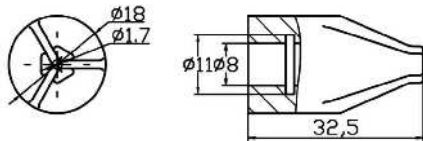
Roro Beak B-4B



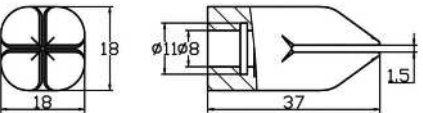
PN	1.Y08432
Model	B-4B



2 pieces Roro Beak Gripping Range: 1-5mm, Application: fibrous, striped small objects



3 pieces Roro Beak Gripping Range: 7-12mm, Application: gripping small rings by external bracing



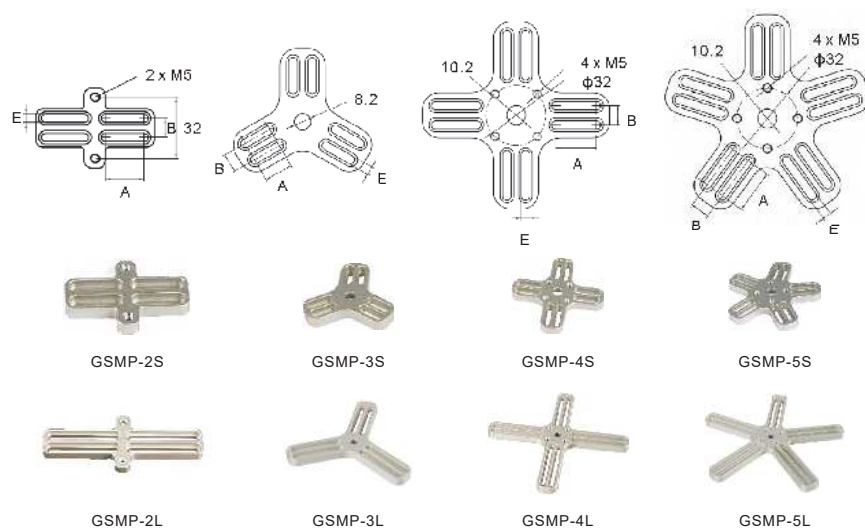
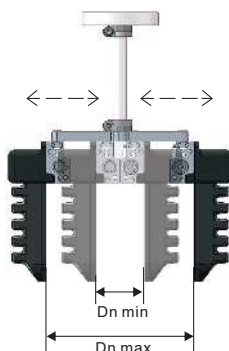
4 pieces Roro Beak Gripping Range: 1-5mm, Application: spherical, irregular small objects, the best universality

Slide Mounting Platte

GSMP- Multidirection

Features

- Different styles according to shape and slot length
- Can be used for assembly between finger module [FM] and flange connection module [FCM]
- The installation angle and position of finger module [FM] can be adjusted freely



Series	PN	Model	Slot length A [mm]	Slot spacing B [mm]	Slot width E [mm]	Thickness [mm]	Normal pressure fingertip distance Dn [mm] Dnmin-Dnmax		Self-respect [g]
							V2,V4 Finger module	V3,V5 Finger module	
Two-way	7.Y01028	GSMP-2S	20	10	4.2	8	40~69	10~37	18.9
	7.Y01029	GSMP-2L	45	10	4.2	8	40~119	10~87	25.4
Three-way	7.Y01030	GSMP-3S	15	10	4.2	10	58~82	28~50	42.4
	7.Y01031	GSMP-3L	50	10	4.2	10	58~152	28~120	73.9
Four-way	7.Y01032	GSMP-4S	22	10	4.2	10	72~104	41~72	52.3
	7.Y01033	GSMP-4L	67	10	4.2	10	72~194	41~162	86.2
Five-way	7.Y01034	GSMP-5S	23	10	4.2	10	91~112	53~80	94.8
	7.Y01035	GSMP-5L	78	10	4.2	10	91~222	53~109	179.7

iPCU 2 Integrated Passive Control Unit

- Compact special controller for flexible soft grippers . Small size, light weight, easy installation.
- With three adjustable output pressure range, it fully supports the drive from soft beak to enhanced finger.
- Manual knob pressure regulation.
- The integrated panel integrates digital display and operation button.
- With manual (button) and automatic (I / O level signal) two control modes, equipped with a variety of mechanical arm, PLC terminal.
- Equipped with mounting block and industrial rail slot, a variety of installation methods.
- IP54 electrical protection grade, waterproof and dustproof, suitable for all kinds of bad working conditions, with intelligent alarm function, safe and stable, no need to worry about misoperation, the product has passed the EU CE safety certification.

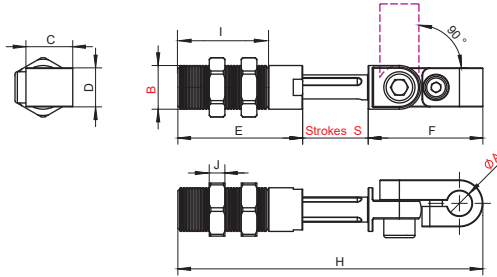


Work Parameter

Parameter	Range	Parameter	Range
Rated Voltage	24 VDC $\pm 10\%$	Fuselage shell	ABS
Rated power	12 W	Size	207x132x141 mm
Input Air Source	0.45~1.00 Mpa, Traffic>200 L/min	Net weight	2.0 kg
Output Air Pressure	-90~60kPa (Low)	Life span	5000 A million times
	-90~120kPa (Mid-range)	Control mode	a. Manual button
	-90~300kPa (Upscale)		b. I/O, Level signal
Protection Grade	Ip54	Work mode	Continuous signal drive

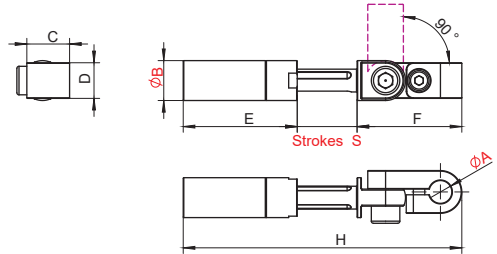
Model	PN	Manual voltage regulation	Electronic voltage regulator	Wireless remote control	Wireless attitude feedback	Speed adjustment	Safety air pressure	Positive pressure flow	Negative pressure flow
								[L/min]	[L/min]
Standard Model	iPCU 2-SMN	1.Y12927	●				Adjustable	200	40

Buffer Support



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	H(mm)	I(mm)	J(mm)	S(mm)	Weight
8.Y00242	GSRT1421-08	8	M14	15	12.5	40	36.75	97.75	29	2.7	21	43g
8.Y00332	GSRT2026-10	10	M20	20	15	50	45.5	121.5	39	3.9	26	92g
8.Y00244	GSRT2026-12	12	M20	20	15	50	45.5	121.5	39	3.9	26	91g
8.Y00333	GSRT2051-10	10	M20	20	15	84	45.5	180.5	39	3.9	51	129g
8.Y00334	GSRT2051-12	12	M20	20	15	84	45.5	180.5	39	3.9	51	128g

Dimensions (mm)



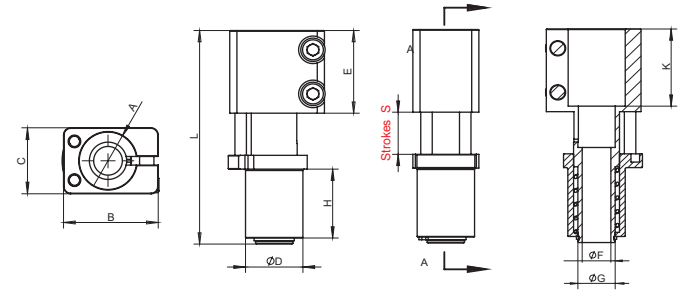
PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	H(mm)	S(mm)	Weight
8.Y00241	GSR1421-08	8	14	15	12.5	40	36.75	97.75	21	36g
8.Y00373	GSR1436-10	10	14	20	15	60	45.5	139	36.5	54g
8.Y00329	GSR2026-10	10	20	20	15	50	45.5	121.5	26	74g
8.Y00243	GSR2026-12	12	20	20	15	50	45.5	121.5	26	73g
8.Y00330	GSR2051-10	10	20	20	15	84	45.5	180.5	51	111g
8.Y00331	GSR2051-12	12	20	20	15	84	45.5	180.5	51	110g

Dimensions (mm)

Buffer Support



Without Sensor

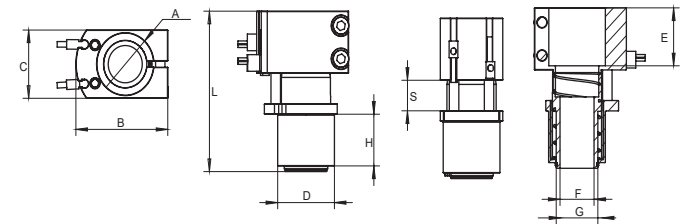


PN	Model	A	B	C	D	E	F	G	H	L	K	Strokes S	Weight
8.Y00238	GSP20-14	14	31	20	20	30	10	13	25	77.5	28	15	57g
8.Y00239	GSP20-20	20	33	23	20	30	10	13	25	77.5	28	15	65g
8.Y01032	GSP30-30	30	43	33	30	30	18	22	25	77.5	28	15	108g

Dimensions (mm)



Sensor optional



1. The position of the sensor can be adjusted to detect whether the buffer is in place or not.
2. The closed-loop function can be realized in automatic production.

PN	Model	A	B	C	D	E	F	G	H	L	S	Weight
8.Y01079	GSP20-20C	20	38.5	23	20	28	Ø10	Ø12.5	25	77.5	15	80g
8.Y01081	GSP30-30C	30	48.6	33	30	30	Ø18	Ø22	25	77.5	15	103g

Dimensions (mm)

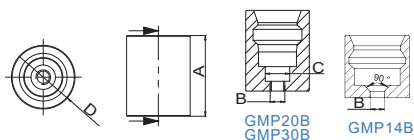
Product colour is based on the actual product

Mould Positioner



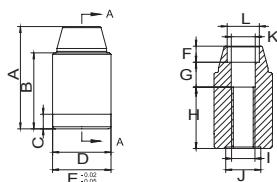
PN	Model	A	B	D	E	F	G	H	I	J	K	Maximum locking force	Weight
8.Y00408	GMP14A	38	14	M12*1	-	12	5	4	Ø14	Ø11	M5	90N	62g
8.Y00088	GMP20A	46	25	M17*1	19	18	10	9	Ø20	Ø15.5	G1/8	190N	78g
8.Y00089	GMP30A	75	38	M27*1	28	27	11	10	Ø30	Ø25.5	G1/8	280N	303g

Dimensions (mm)



PN	Model	A	B	C	D	Repetition accuracy	Weight
7.Y00968	GMP14B	15	M4(orM3)	-	15.5h7	±0.015	46g
7.Y00726	GMP20B	33	M6(orM5)	10	26h7	±0.015	87g
7.Y00789	GMP30B	43.5	M8(orM6)	11	40h7	±0.015	264g

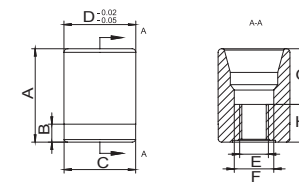
Dimensions (mm)



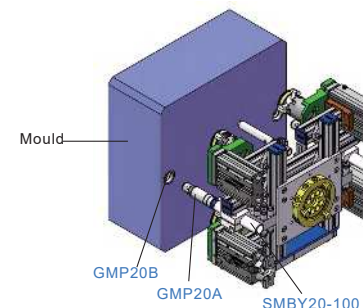
PN	Model	A	B	C	D	E	F	G	H	I	J	K	L	Weight
7.Y00894	GLU20A	35	26	5	Ø19.92	Ø20	5.50	8.50	21	M8	Ø12	Ø8.20	Ø11	61g

Dimensions (mm)

Mould Positioner



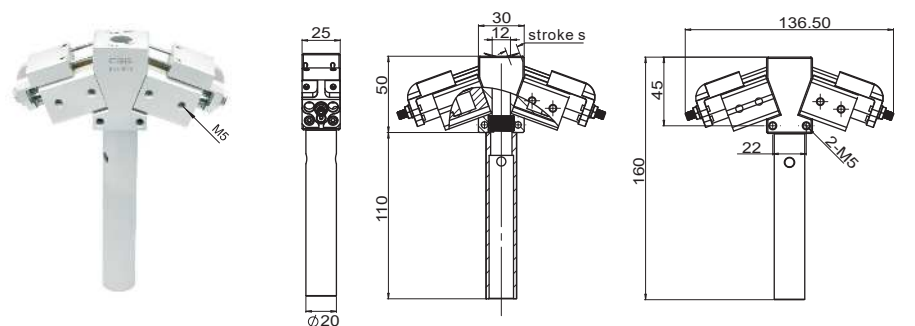
PN	Model	A	B	C	D	E	F	G	H	Weight
7.Y00895	GLU20B	26	5	Ø19.92	Ø20	M8	Ø11	15.50	10.50	42g



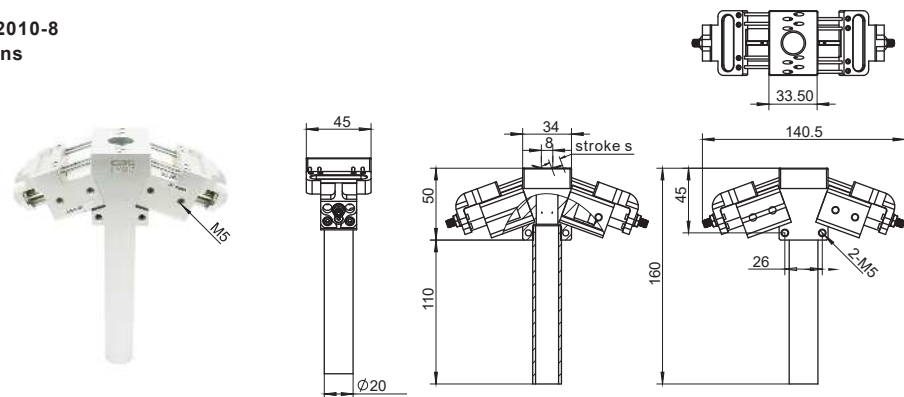
Pneumatic Needle Gripper(Series GN)

Being used for embedding and taking out nonwoven fabric, net cloth and sponge. The length of the steel needle can be not only adjustable, but also customized according to the requirements of the customer.

GN2010
4 Pins



GN2010-8
8 Pins

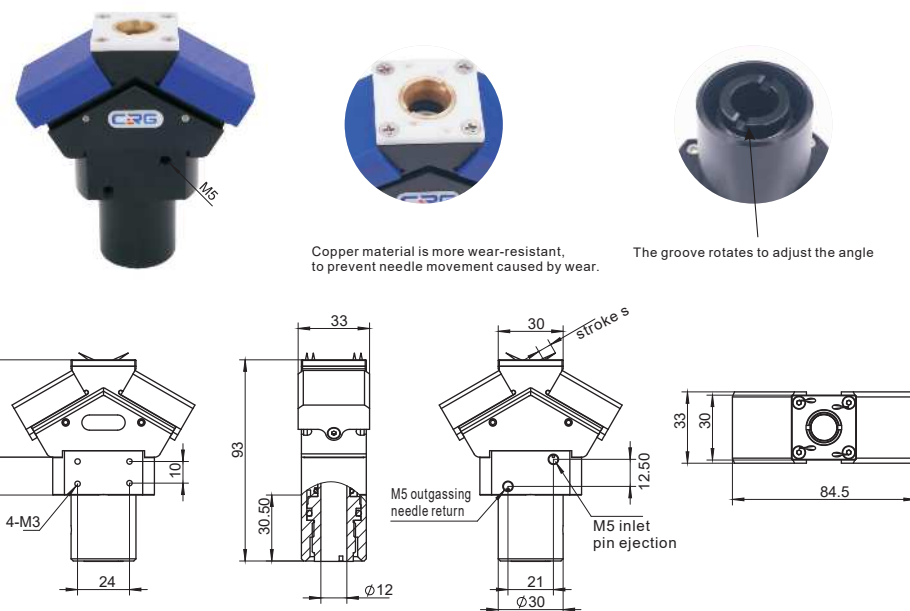


PN	8.Y00025	8.Y00347
Model	GN2010	GN2010-8
Weight	274g	317g

Pneumatic Needle Gripper(Series GN)

Small needle insertion depth is shallow
Can quickly release, transport thin breathable workpiece,
Can adjust the needle stroke,
Processing difficult to vacuum adsorption of materials,
such as composite textiles, wool, filters, woven glass or carbon fiber,
woven aramid, foam, etc.

GN3003-4
4 Pins

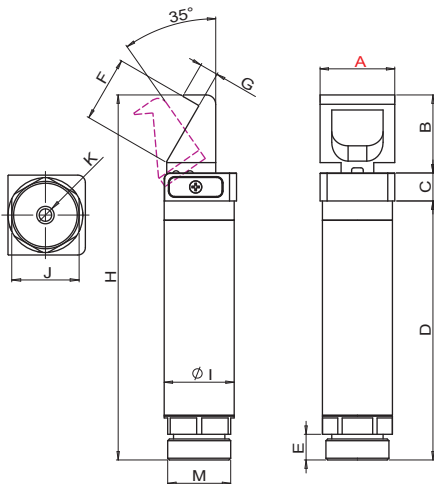


PN	8.Y01005
Model	GN3003-4
Weight	188g

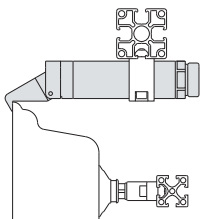
One Finger Angular Pneumatic Grippers (Series GFA)

For product with small surface position that are unfavourable for absorption and clamping.
The embedded fixture is matched with the mould locator, so it can locate with higher precision.
Reduce the precision requirement of manipulator in automation project.
Single action, built-in Magnetic Loop.

GFA...-35



Product Samples



Technical Parameters

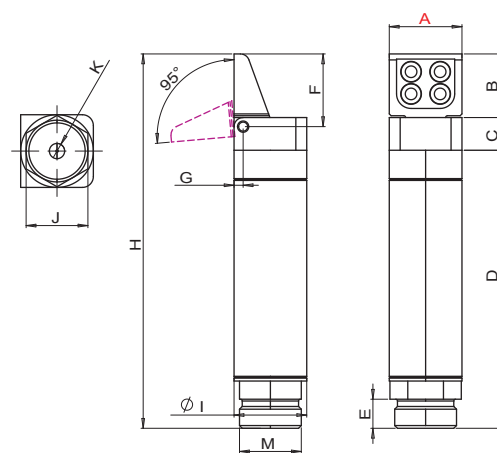
PN	Model	Pressure range	Temperature range	Stroke	Piston bore	Closing torque at 6 bar	Cycle air consumption	Built-in magnetic ring
8.Y00117	GFA14-35				Ø10 mm	26 Ncm	0.4 cm ³	Yes
8.Y00118	GFA20-35	2.5 ~ 8 bar	-10 ~ 70 °C	35°	Ø16 mm	100 Ncm	1.24 cm ³	Yes
8.Y00119	GFA30-35				Ø25 mm	430 Ncm	4.56 cm ³	Yes

PN	Model	Weight	A	B	C	D	E	F	G	H	I	J	K	M
8.Y00117	GFA14-35	25g	14	14	10.5	49.5	5.5	13.5	4.5	74	Ø14	12	M5	M12×1
8.Y00118	GFA20-35	65g	20	20.5	9	76.5	8	20.2	6	106	Ø20	17	M5	M17×1
8.Y00119	GFA30-35	206g	30	30	12	111	11	30.5	8	153	Ø30	27	G1/8	M27×1

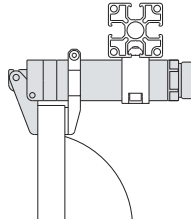
One Finger Angular Pneumatic Grippers (Series GFR)

For product with small surface position that are unfavourable for absorption and clamping.
The embedded fixture is matched with the mould locator, so it can locate with higher precision.
Reduce the precision requirement of manipulator in automation project.
Single action, built-in Magnetic Loop.

GFR...-95



Product Samples



Technical Parameters

PN	Model	Pressure range	Temperature range	Stroke	Piston bore	Closing torque at 6 bar	Cycle air consumption	Built-in magnetic ring
8.Y00042	GFR14-95				Ø10 mm	19 Ncm	1 cm ³	Yes
8.Y00311	GFR20-95E	2.5 ~ 8 bar	-10 ~ 70 °C	95°	Ø16 mm	70 Ncm	3.52 cm ³	Yes
8.Y00095	GFR30-95				Ø25 mm	300 Ncm	12.9 cm ³	Yes

PN	Model	Weight	A	B	C	D	E	F	G	H	I	J	K	M
8.Y00042	GFR14-95	25g	14	12	10.5	49.5	5.5	14	2	72	Ø14	12	M5	M12×1
8.Y00311	GFR20-95E	60g	20	17.5	9	76.5	8	20	2.5	103	Ø20	17	M5	M17×1
8.Y00095	GFR30-95	193g	30	25	12	111	11	29	4	148	Ø30	27	G1/8	M27×1

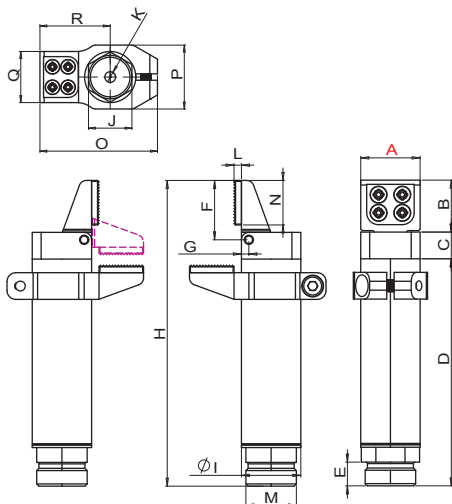
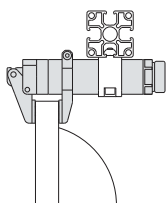
One Finger Angular Pneumatic Grippers (Series GFR)

For product with small surface position that are unfavourable for absorption and clamping.
The embedded fixture is matched with the mould locator, so it can locate with higher precision.
Reduce the precision requirement of manipulator in automation project.
Single action, built-in Magnetic Loop.

GFR...-95G



Product Samples



Technical Parameters

PN	Model	Pressure range	Temperature range	Stroke	Piston bore	Closing torque at 6 bar	Cycle air consumption	Built-in magnetic ring
8.Y00084	GFR14-95G				Ø10 mm	19 Ncm	1 cm ³	Yes
8.Y00312	GFR20-95EG	2.5 ~ 8 bar	-10 ~ 70 °C	95°	Ø16 mm	70 Ncm	3.52 cm ³	Yes
8.Y00096	GFR30-95G				Ø25 mm	300 Ncm	12.9 cm ³	Yes

PN	Model	Weight	A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	Q	R
8.Y00084	GFR14-95G	36g	14	12	10.5	49.5	5.5	14	2	72	Ø14	12	M5	M12×1	11	32	19	14	19
8.Y00312	GFR20-95EG	87g	20	17.5	9	76.5	8	20	2.5	103	Ø20	17	M5	M17×1	15	46	25	20	27.5
8.Y00096	GFR30-95G	300g	30	25	12	111	11	29	4	148	Ø30	27	G1/8	M27×1	20	63	37	30	40

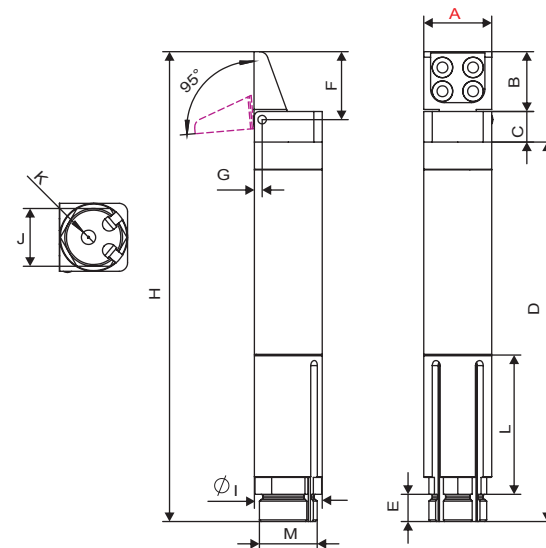
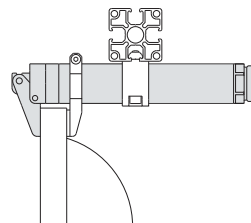
One Finger Angular Pneumatic Grippers (Series GFR)

For product with small surface position that are unfavourable for absorption and clamping.
The embedded fixture is matched with the mould locator, so it can locate with higher precision.
Reduce the precision requirement of manipulator in automation project.
Single action, built-in Magnetic Loop.

GFR...-95S



Product Samples



Technical Parameters

PN	Model	Pressure range	Temperature range	Stroke	Piston bore	Closing torque at 6 bar	Cycle air consumption	Built-in magnetic ring
8.Y00335	GFR20-95S	2.5 ~ 8 bar	-10 ~ 70 °C	95°	Ø16 mm	70 Ncm	3.52 cm ³	Yes

PN	Model	Weight	A	B	C	D	E	F	G	H	I	J	K	L	M
8.Y00335	GFR20-95S	89g	20	17.5	9	111.5	8	20	2.3	138	Ø20	17	M5	41	M17×1

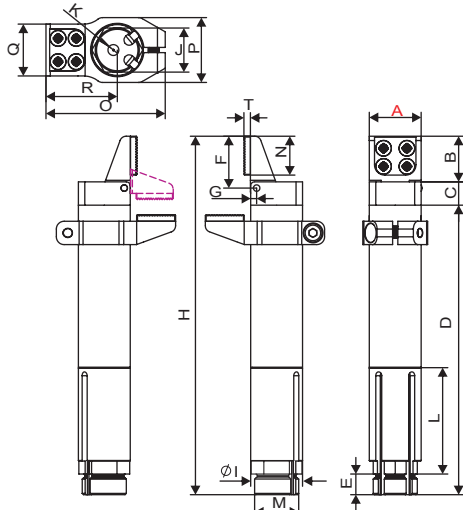
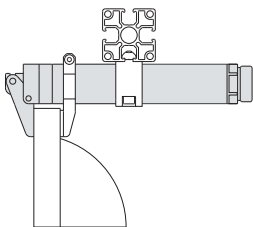
One Finger Angular Pneumatic Grippers (Series GFR)

For product with small surface position that are unfavourable for absorption and clamping.
The embedded fixture is matched with the mould locator, so it can locate with higher precision,
Reduce the precision requirement of manipulator in automation project.
Single action, built-in Magnetic Loop.

GFR...-95SG



Product Samples



Technical Parameters

PN	Model	Pressure range	Temperature range	Stroke	Piston bore	Closing torque at 6 bar	Cycle air consumption	Built-in magnetic ring
8.Y00336	GFR20-95SG	2.5 ~ 8 bar	-10 ~ 70 °C	95°	Ø16 mm	70 Ncm	3.52 cm ³	Yes

PN	Model	Weight	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	T
8.Y00336	GFR20-95SG	104.8g	20	17.5	9	111.5	8	20	2.3	138	Ø20	17	M5	41	M17×1	15	46	25	20	27.5	2.5

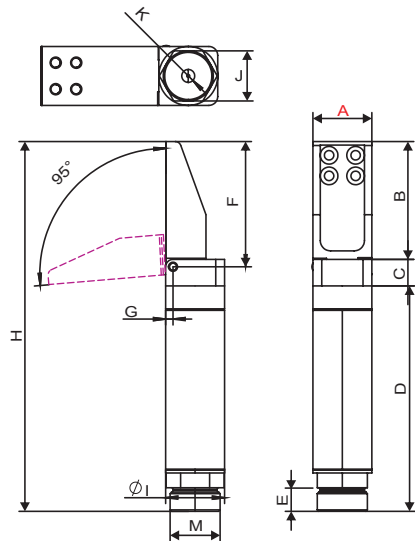
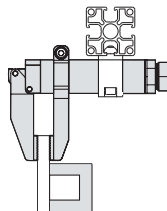
One Finger Angular Pneumatic Grippers (Series GFR)

For product with small surface position that are unfavourable for absorption and clamping.
The embedded fixture is matched with the mould locator, so it can locate with higher precision,
Reduce the precision requirement of manipulator in automation project.
Single action, built-in Magnetic Loop.

GFR...-95L



Product Samples



Technical Parameters

PN	Model	Pressure range	Temperature range	Stroke	Piston bore	Closing torque at 6 bar	Cycle air consumption	Built-in magnetic ring
8.Y00309	GFR20-95L	2.5 ~ 8 bar	-10 ~ 70 °C	95°	Ø16 mm	70 Ncm	3.52 cm ³	Yes

PN	Model	Weight	A	B	C	D	E	F	G	H	I	J	K	M
8.Y00309	GFR20-95L	81.4g	20	40	9	76.3	8	42.5	2.5	125.5	Ø20	17	M5	M17×1

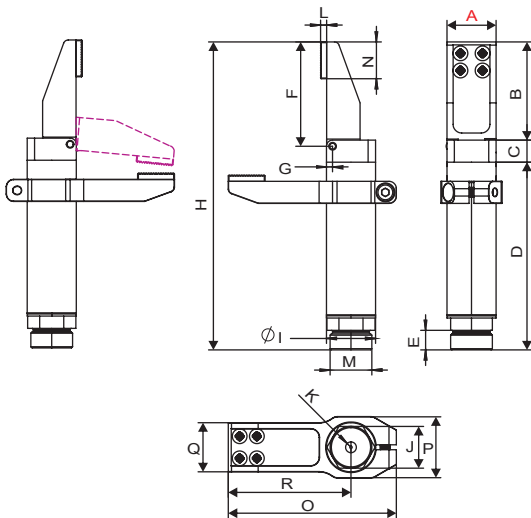
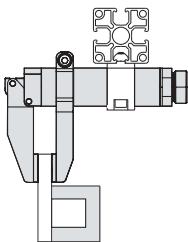
One Finger Angular Pneumatic Grippers (Series GFR)

For product with small surface position that are unfavourable for absorption and clamping.
The embedded fixture is matched with the mould locator, so it can locate with higher precision,
Reduce the precision requirement of manipulator in automation project.
Single action, built-in Magnetic Loop.

GFR...-95LG



Product Samples



Technical Parameters

PN	Model	Pressure range	Temperature range	Stroke	Piston bore	Closing torque at 6 bar	Cycle air consumption	Built-in magnetic ring
8.Y00310	GFR20-95LG	2.5 ~ 8 bar	-10 ~ 70 °C	95°	Ø16 mm	70 Ncm	3.52 cm ³	Yes

PN	Model	Weight	A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	Q	R
8.Y00310	GFR20-95LG	104.8g	20	40	9	76.5	8	42.5	2.5	125.5	Ø20	17	M5	M17×1	15	68.5	25	20	50

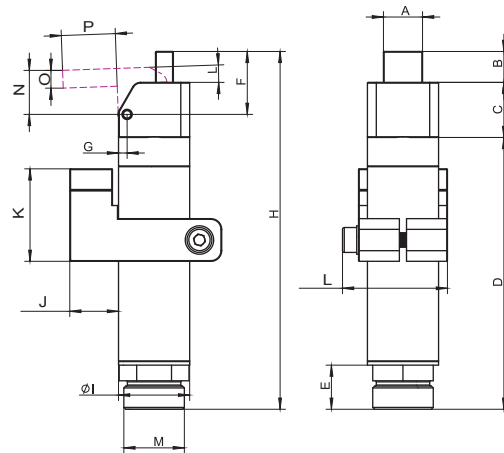
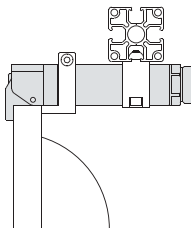
One Finger Angular Pneumatic Grippers (Series GFS)

For product with small surface position that are unfavourable for absorption and clamping.
The embedded fixture is matched with the mould locator, so it can locate with higher precision,
Reduce the precision requirement of manipulator in automation project.
Single action, built-in Magnetic Loop.

GFS...-90G



Product Samples



Technical Parameters

PN	Model	Pressure range	Temperature range	Stroke	Piston bore	Closing torque at 6 bar	Cycle air consumption	Built-in magnetic ring
8.Y01001	GFS14-90G				Ø10 mm	19 Ncm	1 cm ³	Yes
8.Y01002	GFS20-90G	2.5 ~ 8 bar	-10 ~ 70 °C	90°	Ø16 mm	70 Ncm	3.52 cm ³	Yes
8.Y01003	GFS30-90G				Ø25 mm	300 Ncm	12.9cm ³	Yes

PN	Model	Weight	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
8.Y01001	GFS14-90G	34g	8	6.7	10.5	49.5	5.5	6	2	66.8	Ø14	9	12	22.5	M12×1	8.5	4	10.8
8.Y01002	GFS20-95G	83g	11	8.7	15.5	76.4	8	17.7	2.4	100.6	Ø20	13.7	26	29.5	M17×1	12.4	5	15.2
8.Y01003	GFS30-95G	296g	14	13.7	23.5	111	11	29.5	4	139.2	Ø30	23.7	26	66	M27×1	20	6	25.2

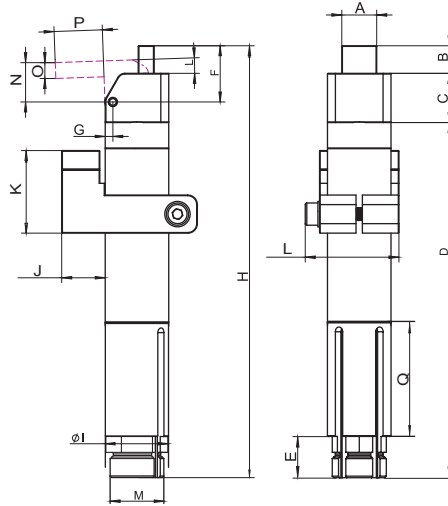
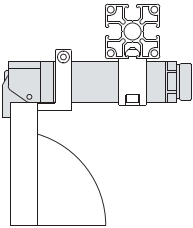
One Finger Angular Pneumatic Grippers (Series GFS)

For product with small surface position that are unfavourable for absorption and clamping.
The embedded fixture is matched with the mould locator, so it can locate with higher precision,
Reduce the precision requirement of manipulator in automation project.
Single action, built-in Magnetic Loop.

GFS...-90SG



Product Samples



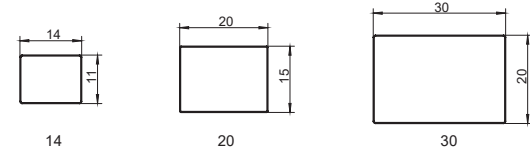
Technical Parameters

PN	Model	Pressure range	Temperature range	Stroke	Piston bore	Closing torque at 6 bar	Cycle air consumption	Built-in magnetic ring
8.Y01030	GFS20-90SG	2.5 ~ 8 bar	-10 ~ 70 °C	90°	Ø16 mm	70 Ncm	3.52 cm ³	Yes
8.Y01031	GFS30-90SG				Ø25 mm	300 Ncm	12.9cm ³	

PN	Model	Weight	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
8.Y01030	GFS20-90SG	99g	11	8.7	15.5	112	8	17.7	2.4	136.2	Ø20	13.7	26	29.5	M17×1	12.37	5	15.2	36
8.Y01031	GFS30-95SG	312g	14	13.7	23.5	147	11	29.2	4	184.2	Ø30	23.7	26	66	M27×1	20	6	25.2	49

Finger Grippers Options

Silicone Gasket



PN	4.Y00486	4.Y00485	4.Y00514
Model	SIL-14G	SIL-20G	SIL-30G
Applicable Products	GFR14-95G	GFR20-95EG GFR20-95LG GFR20-95SG	GFR30-95G

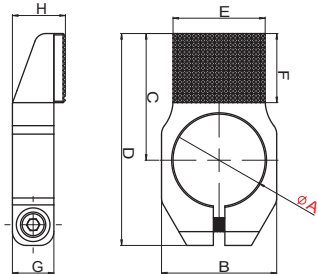
Material Selection Of Gasket



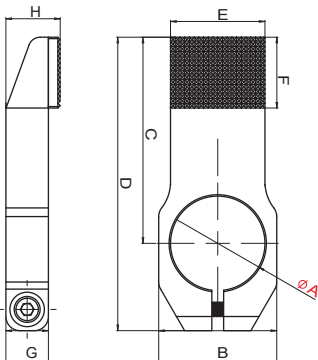
PN	Model	Materials	Color	Temperature range
4.Y00486-HNBR	SIL-14G-HNBR	HNBR	Black	-40°-150°
4.Y00485-HNBR	SIL-20G-HNBR			
4.Y00514-HNBR	SIL-30G-HNBR			
4.Y00486-NBR	SIL-14G-NBR	NBR	Green	-40°-120°
4.Y00485-NBR	SIL-20G-NBR			
4.Y00514-NBR	SIL-30G-NBR			
4.Y00486-TPU	SIL-14G-TPU	TPU	White	-60°-100°
4.Y00485-TPU	SIL-20G-TPU			
4.Y00514-TPU	SIL-30G-TPU			
4.Y00486-EPDM	SIL-14G-EPDM	EPDM	Yellow	-60°-150°
4.Y00485-EPDM	SIL-20G-EPDM			
4.Y00514-EPDM	SIL-30G-EPDM			

Finger Grippers Options

Clamp bolts



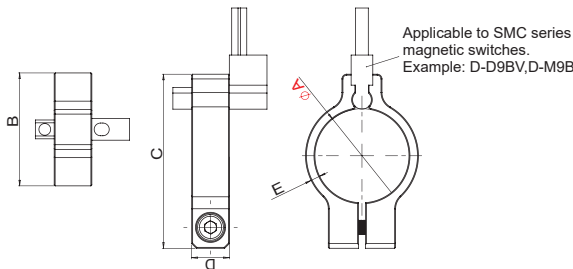
GP3-20L



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	H(mm)	G(mm)	Weight
7.Y00783	GP3-14	Ø14	19	19	32	14	11	8.5	6	6g
7.Y00700	GP3-20	Ø20	25	27.5	46	20	15	11.5	9	12g
7.Y00908	GP3-20L	Ø20	25	50	68.5	20	15	11.5	9	19.8g
7.Y00785	GP3-30	Ø30	37	40	63	30	20	14.1	10	30g

Finger Grippers Options

Clamp bolts



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	Weight
7.Y00786	GS-14	Ø14	18	30	8	2	14g
7.Y00787	GS-20	Ø20	24	37	8	2	17g
7.Y00788	GS-30	Ø30	34	47	8	2	25g



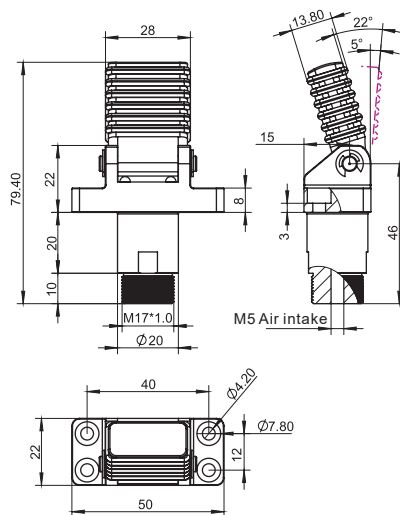
One Finger Angular Pneumatic Grippers (Series GO)



GOF20-20-VMQ



GOF20-20-NBR



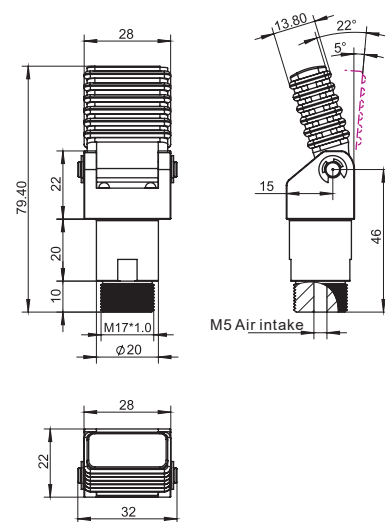
PN	Model	Weight	Heatresistance (in °C)
8.Y00396	GOF20-20-NBR	57.4g	-20 to 80
8.Y00395	GOF20-20-VMQ	57.4g	-40 to 160



GOP20-20-VMQ



GOP20-20-NBR



PN	Model	Weight	Heatresistance (in °C)
8.Y00398	GOP20-20-NBR	50g	-20 to 80
8.Y00397	GOP20-20-VMQ	50g	-40 to 160

Optional Magnetic Sensors

The operating position is detected by magnetic proximity sensors (optional) through a magnet placed on the piston.

The use of magnetic proximity sensors is to be avoided in the vicinity of large masses of ferromagnetic material or intense magnetic fields as this may cause detection problems.

The sensors that can be used are:



D-M9PV

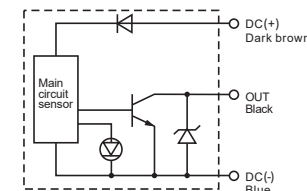


D-M9B

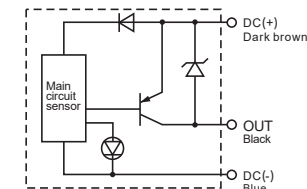


PN	1.Y00293
Model	D-MQ

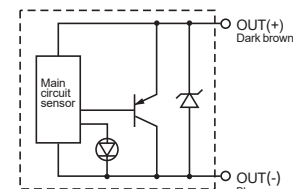
D-M9N•M9NV



D-M9P•M9PV



D-M9B•M9BV

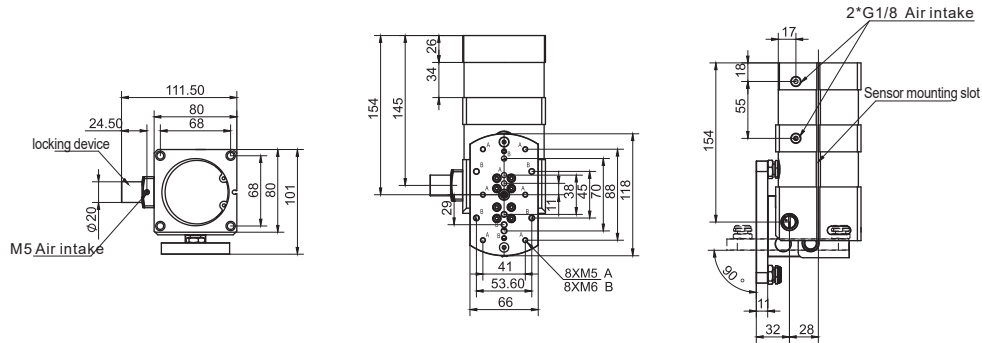


PN	Model	Switch Type	L (mm)
1.Y00310	D-M9B	NPN	/
1.Y00307	D-M9BL		/
1.Y02565	D-M9BV		/
1.Y03843	D-M9BVL	NPN	/
1.Y00311	D-M9N		/
1.Y00295	D-M9NL		/
1.Y00298	D-M9NV	NPN	cable 0.5m
1.Y03598	D-M9NVL		cable 3.0m
1.Y00309	D-M9P	PNP	cable 0.5m
1.Y02301	D-M9PL		cable 3.0m
1.Y00296	D-M9PV		cable 0.5m
1.Y02964	D-M9PVL	PNP	cable 3.0m

Posture Set Accessories



- 90° rotation
- Single-acting
- Lifting by compressed air, spring reset
- Several mounting accessories
- Optional magnetic sensors

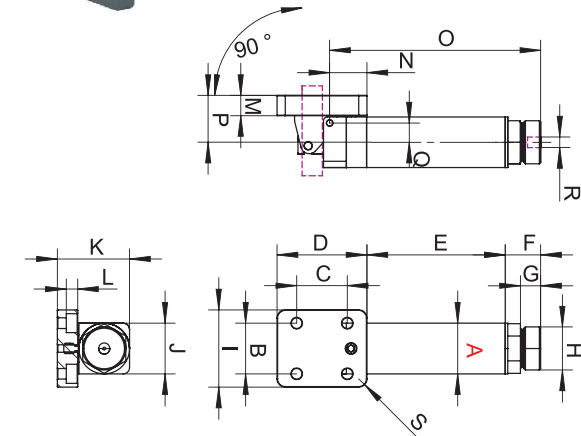


PN	8.Y01007
Model	GFT60-90
Medium	Filtered, lubricated / non lubricated compressed air
Pressure range	2~8 bar
Unlock pressure	> 3.5 bar
Temperature range	5 ~ 60 °C.
Tilt angle	90°
End stroke adjustment	± 2°
Cycle air consumption	462 cm ³
Lift torque at 6 bar (90° → 0°)	> 78 Nm
Drop torque at 6 bar (0° → 90°)	> 42 Nm
Allowed load	300 N
Allowed moment	30 Nm
Weight	2520g

Min Posture Gripper



- 90° rotation
- Single-acting
- Lifting by compressed air, spring reset
- Several mounting accessories
- Optional magnetic sensors



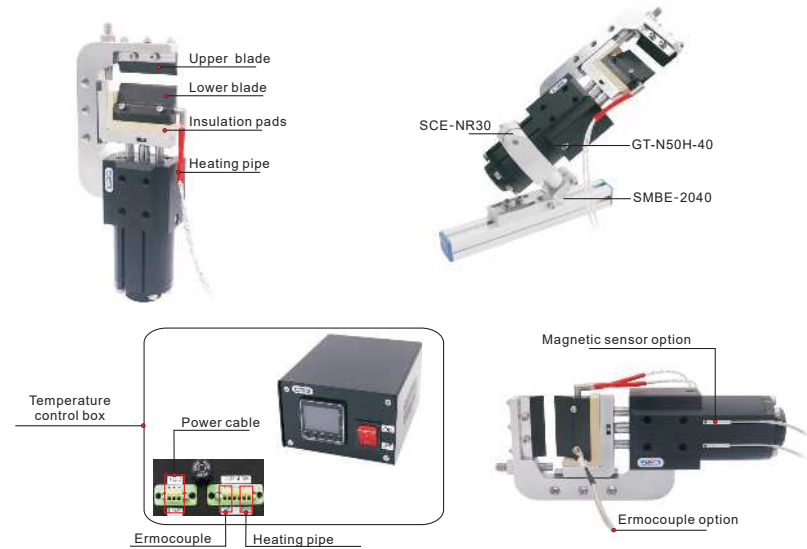
Technical Parameters

PN	Model	Medium	Pressure range	Temperature range	Tilt angle	Lift torque at 6 bar	Weight
8.Y00094	GFN20-90	Filtered, lubricated non lubricated compressed air	2 ~ 8 bar	-10 ~ 70 °C	90°	120 Ncm	65g
8.Y00116	GFN30-90					300 Ncm	210g

PN	Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
8.Y00094	GFN20-90	Ø20	20	20	35.5	54.6	14	8	17	30.5	20	28.5	4.5	8	14.74	83.34	18.5	7.6	M5	3.25
8.Y00116	GFN30-90	Ø30	25	25	46	81.5	19	11	M27*1	37	30	40	5.5	10	18.5	119	25	11	M5	3

Thrust Cut Nippers

Double-acting operation with tandem cylinders.
Optional magnetic sensors .
blade heating system.
Optional (upper/lower blade) and spare parts such as thermal pads are available.



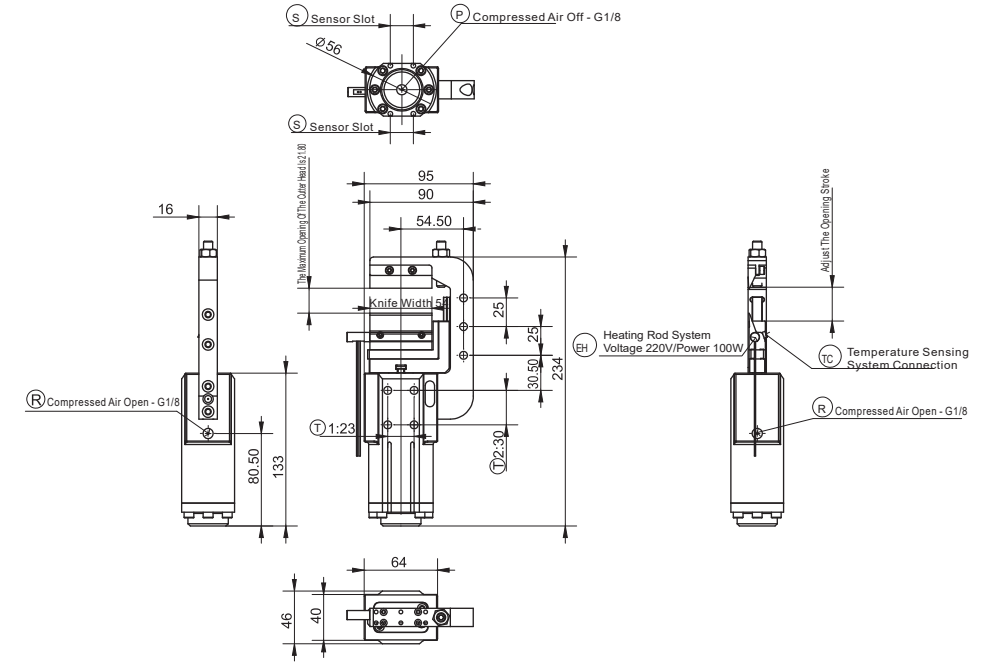
Technical Parameters

PN	Model	Medium	Pressure range	Temperature range	Piston bore	Closing torque at 6 bar	Cycle air consumption	Weight
8.Y00367	GT-N50H-40	Filtered, lubricated / non lubricated compressed air	2~ 6 bar	5 ~ 60 °C	Ø40 mm	1470 Ncm	75 cm³	1570g

	Upper blade	lower blade	Insulation pads	Ermocouple	Heating pipe	Temperature range	Power	Ater control box	Operating voltage
PN	7.Y00441	7.Y00442	2.Y05202	1.Y20002	1.Y20003	-	-	8.Y01026	-
Model	N54-T	N54-D	L54-5	-	D6-L55	-	-	GTC-001	-

Describe	-	-	-	220V/100W, cable L 1.5M	220V/100W, cable L 1.5M	0~200°C	100W	-	100~240Vac 50/60Hz
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Thrust Cut Nippers



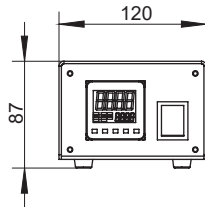
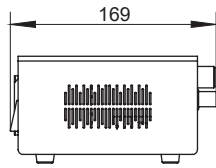
- (P) Compressed air connection: CLOSING
- (R) Compressed air connection: OPENING
- (S) Sensor slot
- (T) Threaded hole for fastening
- (EH) Heating system housing Ø6.1
- (TC) Thermocouple temperature sensing system

Temperature Regulator

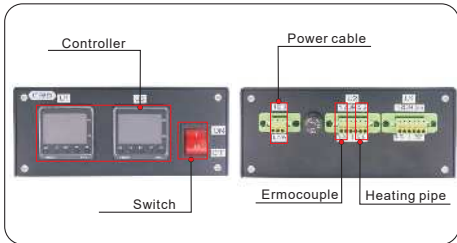
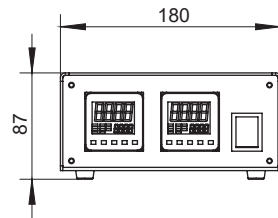
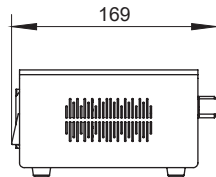
Process temperature monitoring and control is possible.
Switching configuration and programming is easy.
Capable of controlling several heating tubes connected in series.
Easy to carry and change the workplace, easy to connect.



GTC-001



GTC-002



Technical Parameters

PN	Model	Temperature range- Thermocouple K	Power supply	Ambient/ Storage temperature	Protection fuse	Weight
8.Y01026	GTC-001	0° ~ 200 °C	AC100-240V	0-50°C/10-65°C (Avoid icing or condensation)	One built-in 15A	1268g
8.Y01027	GTC-002					1820g

Heating Tube/Thermocouple

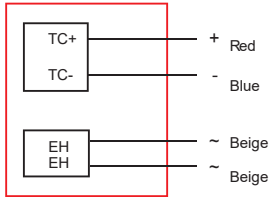
Heating tube power is 100W.
Heating tube ϕ 6.
Thermocouple (TC): K type.
Easy to carry and change the workplace, easy to connect.



Heating pipe



Ermocouple



	PN	Model	Describe
Thermocouple	1.Y20002	-	220V / 100W cable L 1.5m
Heating pipe	1.Y20003	D6-L55	220V / 100W cable L 1.5m

GT-NS30-N30PF_H Heat Air Nipper

NEW

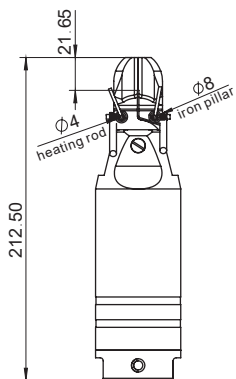
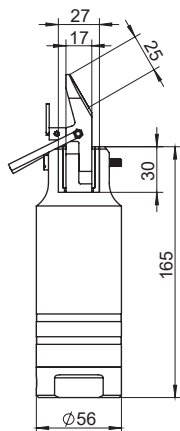


This product is suitable for cutting some transparent products, which can effectively suppress cracks and make the cutting surface more beautiful
Recommended temperature 0-150° C for use with product temperature controller.
Maximum opening distance 15mm Shearable

Advantages:

- 1.The increase of heat insulation pad, the maximum possible reduction of the temperature of the product itself
- 2.The heating rod and temperature control line can be used with other products
- 3.Simple appearance

PN	Model
7.Y02260	GT-NR30-N30PF_H

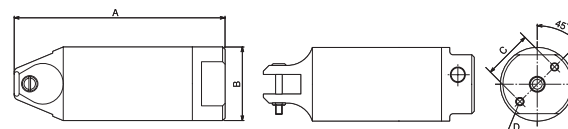


NR20-P/NR30-P Air Nipper Round-Type without Lever

NR



- . The main body end is 180° rotatable.
- * Two suction (intake) ports are provided, the suction can be optionally changed depending on the mounting plate.



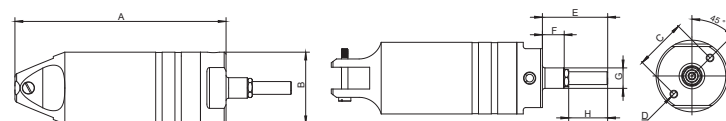
Soft Plastic	Hard Plastic	Copper	Steel	PN	Model	Size (mm)				Air Consumption (cm³/str.)	Air Pressure (MPa)	Weight (g)	Hose coupling
7.0	5.0	2.6	2.0	8.Y00113	NR20-P	A	B	C	D	230	0.5~0.6	280	Rc1/8
10.0	6.5	3.3	2.8	8.Y00237	NR30-P	129	45	30	M5 Depth12	584	0.5~0.6	505	

- * Air hose inner dia:5mm
- * Overall length/Weight:Accessories not included.
- * Before mounting of exclusive/automatic machines,check the following product dimensions.
(Frame O.D., screw dia.(screw to screw)dimensions,etc.)

NR



- . The main body end is 180° rotatable.
- * Two suction (intake) ports are provided, the suction can be optionally changed depending on the mounting plate.



Soft Plastic	Hard Plastic	Copper	Steel	PN	Model	Size (mm)								Air Consumption (cm³/str.)	Air Pressure (MPa)	Weight (g)	Hose coupling
7.0	5.0	2.6	2.0	8.Y00113-D1	NR20-P-D1	A	B	C	D	E	F	G	H	230	0.5~0.6	508	Rc1/8
10.0	6.5	3.3	2.8	8.Y00237-D1	NR30-P-D1	129	45	30	M5 Depth12	46	17	15	strokes20mm	584	0.5~0.6	533	

- * Air hose inner dia:5mm
- * Overall length/Weight:Accessories not included.
- * Before mounting of exclusive/automatic machines,check the following product dimensions.
(Frame O.D., screw dia.(screw to screw)dimensions,etc.)

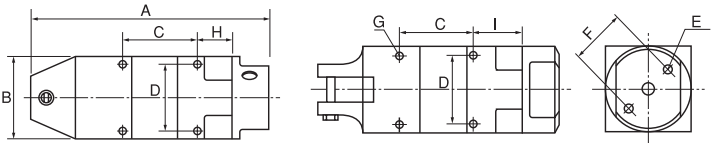
NR20-P/NR30-P Square Air Nipper

NS



- The main body end is 180° rotatable.
- Two suction (intake) ports are provided, the suction can be optionally changed depending on the mounting plate.

VESSEL provides a generous selection of blades for all wire cutting needs, including resin product gate cuts and automatic welding equipment.



Capacity φ (mm)				PN	Model	Size (mm)										Air Consumption (cm ³ /str.)	Air Pressure (MPa)	Weight (g)	Hose coupling
Soft Plastic	Hard Plastic	Copper	Steel			A	B	C	D	E	F	G	H	I					
7.0	5.0	2.6	2.0	8.Y00079	NS20-P	129	45	40	36	M5Depth12	30	M4Depth7	19	24	230	0.5~0.6	370	Rc1/8	
10.0	6.5	3.3	2.8	8.Y00080	NS30-P	170	56	60	46	M6Depth12	40	M5Depth10	20	30	584	0.5~0.6	685		

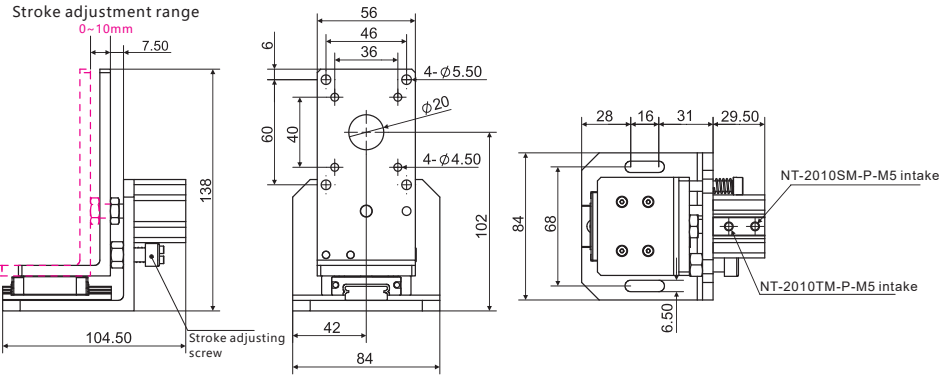
- Air hose inner dia:5mm
- Overall length/Weight:Accessories not included.
- ※ Before mounting of exclusive/automatic machines,check the following product dimensions.
(Frame O.D., screw dia.(screw to screw)dimensions,etc.)
- ※ Model GT-NS50 is a special order item.Please contact VESSEL for details

Slide-Off Air Nipper Bracket-Type

NT



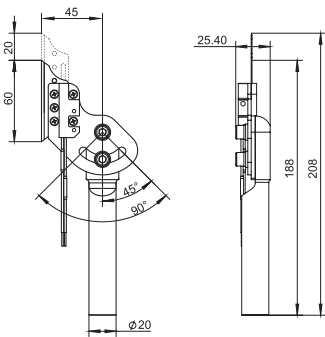
It has achieved smooth,continuous slide movement even for large diameter gate cuts, which produce a large shock at each cut.



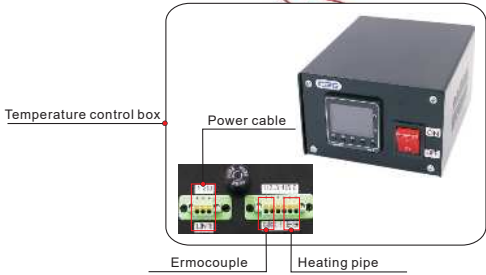
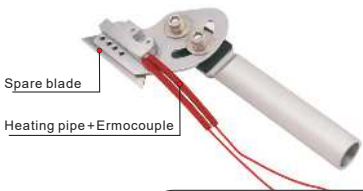
PN	8.Y00006	8.Y00003
Model	NT-2010TM-P	NT-2010SM-P
	pull by compressed air	push by compressed air
Weight	612g	617.3g

Heating Cutter

Remove sprue,debur and trim.



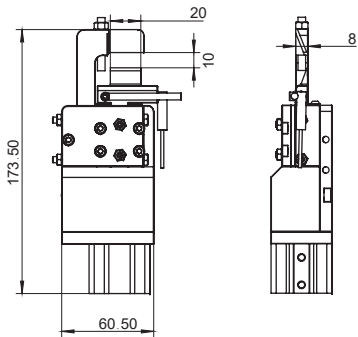
PN	Model	Weight
8.Y00346	GT-BH2060	186g



	PN	Model	Describe
Spare blade (10 pieces package)	7.Y02019	NBH2060	-
ater control box	8.Y01026	GTC-001	-

GT-N2010H-10 Heat Air Nippers

NEW



Heated scissors are used to cut some things that pneumatic scissors can not cut, and can increase the beauty of the shear surface.
PC material with a maximum height of 3mm and a width of 15mm can be cut.
Temperatures can reach up to 240°C degrees.
The method of oil pressure is adopted, and the cutting force is greater.
When cutting transparent products, cracks can be effectively suppressed to make the cutting surface more beautiful.

PN	Model
8.Y01070	GT-N2010H-10

Gas-liquid Converter

NEW



PN	Model
8.Y02005	AHC32X50

Vacuum Cups

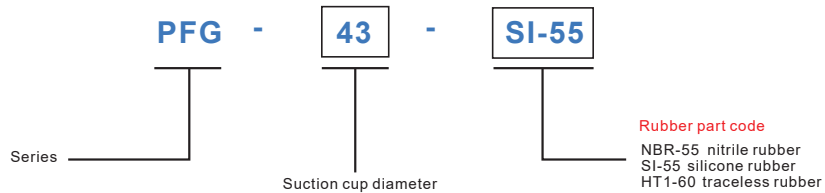
Highlights

Various sizes and materials are available
Soft and tapered sealing lip
Rib structure on the top of the suction cup
Optimum structural design
Bottom support structure

Advantage

Suitable for workpieces of different sizes and shapes
Strong adaptability to curved surfaces and uneven workpieces
Strong horizontal and lateral grabbing force when moving at high speed
Small size and high suction
Handling thin-walled workpieces without permanent deformation

Model Representation Methods



HT1-60 traceless rubber



NBR-55 nitrile rubber



SI-55 silicone rubber



packaging industry



Electronics industry



Injection molding industry

Vacuum Cups PFG Series(Flat type)



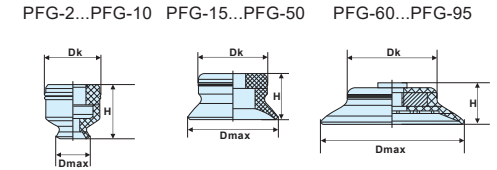
HT1-60
(Blue)



NBR-55
(Black)

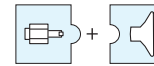


SI-55
(Translucent)

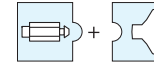


Model	Suction force (N)	Recommended Vacuum Tubes Inner Diameter(mm)	Dk (mm)	Dmax (mm)	H (mm)	NBR-55 (Black)	SI-55 (Translucent)	HT1-60 (Blue)	Weight
PFG-2-...	0.12	2	4.2	3.0	4.0	1.Y12953	1.Y12972	1.Y12991	0.02g
PFG-3.5-...	0.42	2	4.2	4.0	4.0	1.Y12954	1.Y12973	1.Y12992	0.03g
PFG-5-...	0.75	2	7.7	5.5	6.5	1.Y12955	1.Y12974	1.Y12993	0.15g
PFG-6-...	1.2	2	7.7	6.5	6.5	1.Y12956	1.Y12975	1.Y12994	0.17g
PFG-8-...	2.3	2	8.2	9.0	7.0	1.Y12957	1.Y12976	1.Y12995	0.23g
PFG-10-...	4.0	2	8.7	11.5	7.5	1.Y12958	1.Y12977	1.Y12996	0.30g
PFG-15-...	9.0	4	12.2	17.5	8.0	1.Y12959	1.Y12978	1.Y12997	1g
PFG-20-...	15.5	4	15.2	23.0	10.0	1.Y12960	1.Y12979	1.Y12998	1g
PFG-25-...	26.5	4	16.2	27.5	14.0	1.Y12961	1.Y12980	1.Y12999	3g
PFG-30-...	34.0	4	15.1	31.5	12.0	1.Y12962	1.Y12981	1.Y13000	3g
PFG-35-...	44.0	4	20.5	38.0	14.0	1.Y12963	1.Y12982	1.Y13001	6g
PFG-40-...	57.7	4	24.3	43.0	14.0	1.Y12964	1.Y12983	1.Y13002	7g
PFG-50-...	91.0	4	29.1	53.5	15.0	1.Y12965	1.Y12984	1.Y13003	11g
PFG-60-...	125.0	6	38.7	64.0	18.0	1.Y12966	1.Y12985	1.Y13004	25g
PFG-80-...	260.0	6	52.3	86.0	20.5	1.Y12967	1.Y12986	1.Y13005	52g
PFG-95-...	350.0	6	68.2	102.0	19.0	1.Y12968	1.Y12987	1.Y13006	93g

(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.



Factory-crimped fitting



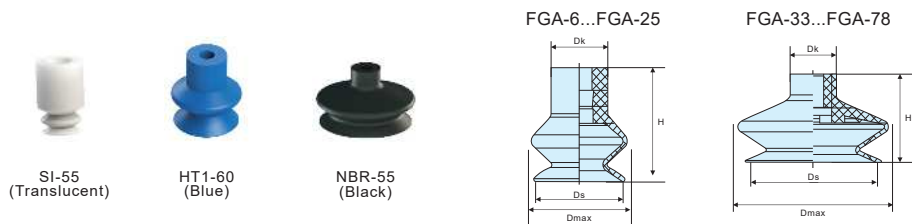
Hollow shaft fitting

Vacuum Cup Fitting	Vacuum Cups
VM14-M5	PFG-2~PFG-3.5
VM29-M5, VM30-G18	PFG-5~PFG-10
VM31-M5, VM32-G18	PFG-15
VM33-M5, VM34-G18	PFG-20
VM35-M5, VM36-G18	PFG-25~PFG-40
VM37-M5, VM38-G18	PFG-50
VM-G14M-M10M, VM-G18M-M10M	PFG-60~PFG-95

Technical Parameters

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI-55: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent
HT1-60: Siton [®] Specialized composites (non-marking)	60	+	++	-	++	-25 to 170	Blue
NBR-55: Nitrile Nitrile rubber	60	+	+	-	++	-30 to 120	Black

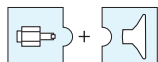
Vacuum Cups FGA Series(Bellows type/2 layers)



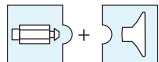
Model	Suction force (N) ⁽¹⁾	Pull-off force (N) ⁽¹⁾⁽²⁾	Recommended Vacuum Tubes Inner Diameter(mm)	Dk (mm)	Dmax(S) (mm)	Ds (mm)	H (mm)	NBR-55 (Black)	SI-55 (Translucent)	HT1-60 (Blue)	Weight
FGA-6-...	0.4	1.4	4	7	8.0	5.7	9.0	1.Y12937	1.Y12949	1.Y12951	1g
FGA-11-...	0.95	3.8	4	10	13.0	10.4	16.0	1.Y12938	1.Y12288	1.Y12298	1g
FGA-14-...	1.2	5.0	4	10	14.5	12.5	15.5	1.Y12939	1.Y12289	1.Y12299	1g
FGA-16-...	2.3	6.7	4	10	18.5	15.6	19.2	1.Y12940	1.Y12290	1.Y12300	1g
FGA-20-...	4.7	10.7	4	10	21.0	18.1	15.2	1.Y12941	1.Y12291	1.Y12301	2g
FGA-22-...	5.7	15.2	4	10	25.0	21.5	19.0	1.Y12942	1.Y12292	1.Y12302	2g
FGA-25-...	5.3	17.3	4	10	26.5	22.5	23.0	1.Y12943	1.Y12293	1.Y12303	3g
FGA-33-...	13.6	39.6	6	18	38.0	30.0	27.0	1.Y12944	1.Y12294	1.Y12304	7g
FGA-43-...	22.8	64.5	6	18	47.5	38.0	27.6	1.Y12945	1.Y12295	1.Y12305	11g
FGA-53-...	51.3	95.0	6	18	60.0	50.0	34.0	1.Y12946	1.Y12296	1.Y12306	19g
FGA-63-...	85.0	135.0	6	18	68.0	60.0	34.0	1.Y12947	1.Y12297	1.Y12307	24g
FGA-78-...	137.4	218.0	6	25	84.5	74.0	47.0	1.Y12948	1.Y12950	1.Y12952	56g

(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

(2) The pull-off force of the vacuum cup made of natural rubber is reduced by about 40%.



Factory-crimped fitting



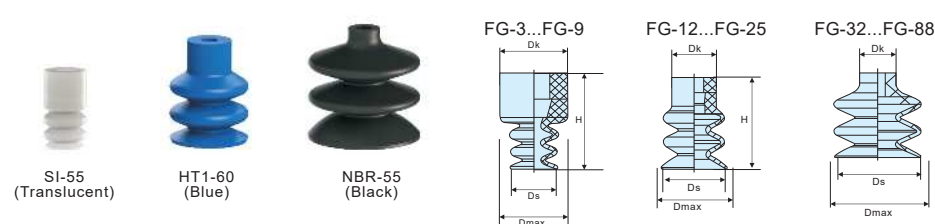
Hollow shaft fitting

Vacuum Cup Fitting	Vacuum Cups
VM21-M5	FGA-6
VM18-M5, VM02-G18	FGA-11~FGA-25
VM24-G18, VM42-G14	FGA-33~FGA-63
VM41-G14	FGA-78

Technical Parameters

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI-55: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent
HT1-60: Siton [®] Specialized composites (non-marking)	60	+	++	-	++	-25 to 170	Blue
NBR-55: Nitrile Nitrile rubber	60	+	+	-	++	-30 to 120	Black

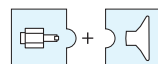
Vacuum Cups FG Series(Bellows type/3 layers)



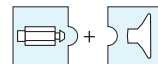
Model	Suction force (N) ⁽¹⁾	Pull-off force (N) ⁽¹⁾⁽²⁾	Recommended Vacuum Tubes Inner Diameter(mm)	Dk (mm)	Dmax(S) (mm)	Ds (mm)	H (mm)	NBR-55 (Black)	SI-55 (Translucent)	HT1-60 (Blue)	Weight
FG-3-...	0.2	0.4	2	4	4.0	3.0	6.7	1.Y12929	1.Y12931	1.Y12934	1g
FG-4-...	0.3	0.6	2	7	7.0	3.8	14.0	1.Y12930	1.Y12932	1.Y12935	1g
FG-5-...	0.2	0.8	2	7	7.0	5.0	14.0	1.Y12308	1.Y12319	1.Y12331	1g
FG-7-...	0.1	0.9	4	9	9.0	5.9	14.0	1.Y12309	1.Y12320	1.Y12332	1g
FG-9-...	0.7	2.3	4	9	9.5	9.0	15.0	1.Y12310	1.Y12321	1.Y12333	1g
FG-12-...	0.9	3.5	4	10	13.0	12.0	21.0	1.Y12311	1.Y12322	1.Y12334	1g
FG-14-...	1.2	5.7	4	10	15.5	14.5	22.8	1.Y12312	1.Y12323	1.Y12335	2g
FG-18-...	2.3	8.5	4	10	19.0	17.2	22.6	1.Y12313	1.Y12324	1.Y12336	2g
FG-20-...	3.8	12.1	4	10	21.0	20.0	22.1	1.Y12314	1.Y12325	1.Y12337	2g
FG-25-...	4.5	19.0	4	10	26.0	23.0	34.0	1.Y12315	1.Y12326	1.Y12338	4g
FG-32-...	12.0	36.9	6	18	33.5	32.0	37.5	1.Y12284	1.Y12327	1.Y11797	10g
FG-42-...	13.6	44.0	6	18	45.0	42.6	46.0	1.Y12316	1.Y12328	1.Y12340	18g
FG-52-...	27.0	96.0	6	18	55.0	52.5	48.7	1.Y12317	1.Y12329	1.Y12341	24g
FG-62-...	39.6	137.0	6	18	65.0	62.2	54.0	1.Y12318	1.Y12330	1.Y12342	39g
FG-88-...	45.2	286.0	9	25	95.5	89.0	86.5	1.Y12928	1.Y12933	1.Y12936	166g

(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

(2) The pull-off force of the vacuum cup made of natural rubber is reduced by about 40%.



Factory-crimped fitting



Hollow shaft fitting

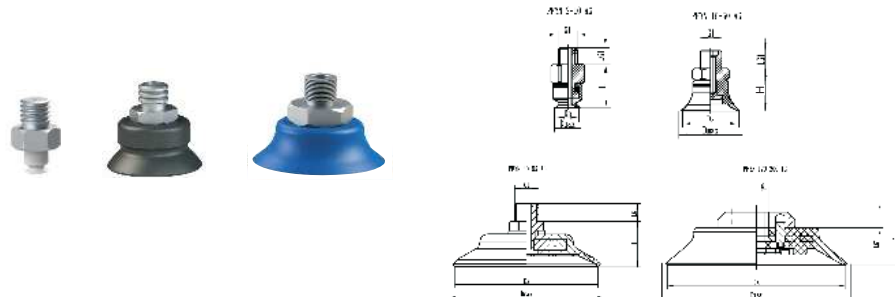
Vacuum Cup Fitting	Vacuum Cups
VM14-M5	FG-3
VM21-M5	FG-4~FG-5
VM39-M5, VM40-G18	FG-7~FG-25
VM24-G18	FG-32~FG-62
VM41-G14	FG-88

Technical Parameters

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI-55: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent
HT1-60: Siton [®] Specialized composites (non-marking)	60	+	++	-	++	-25 to 170	Blue
NBR-55: Nitrile Nitrile rubber	60	+	+	-	++	-30 to 120	Black

Vacuum Cups PFYN Series(Flat type)

NEW



Model	Suction force (N) ⁽¹⁾	Recommended Vacuum Tubes Inner Diameter(mm)	G1 (mm)	Ds (mm)	Dmax (mm)	H (mm)	LG1 (mm)	NBR-55 (Black)	SI-55 (Translucent)	HT1-60 (Blue)	Weight
PFYN-2-...	0.12	2	M5-M	2.0	2.5	6.0	3.0	7.Y02131	7.Y02147	7.Y02163	1g
PFYN-3.5-...	0.42	2	M5-M	3.5	4.0	6.0	3.0	7.Y02132	7.Y02148	7.Y02164	1g
PFYN-5-...	0.75	2	M5-M	5.0	5.5	11.5	4.5	7.Y02133	7.Y02149	7.Y02165	1g
PFYN-6-...	1.2	2	M5-M	6.0	6.5	11.5	4.5	7.Y02134	7.Y02150	7.Y02166	1g
PFYN-8-...	2.3	2	M5-M	8.0	9.0	12.0	4.5	7.Y02135	7.Y02151	7.Y02167	1g
PFYN-10-...	4.0	2	M5-M	10.0	11.5	12.5	4.5	7.Y02136	7.Y02152	7.Y02168	4g
PFYN-15-...	9.0	4	G1/8-M	15.0	17.5	13.0	8.0	7.Y02137	7.Y02153	7.Y02169	5g
PFYN-20-...	15.5	4	G1/8-M	20.0	23.0	15.0	8.0	7.Y02138	7.Y02154	7.Y02170	6g
PFYN-25-...	26.5	4	G1/8-M	25.0	27.5	19.0	8.0	7.Y02139	7.Y02155	7.Y02171	7g
PFYN-30-...	34.0	4	G1/8-M	28.8	31.5	17.0	8.0	7.Y02140	7.Y02156	7.Y02172	8g
PFYN-35-...	44.0	4	G1/8-M	35.0	38.0	19.0	8.0	7.Y02141	7.Y02157	7.Y02173	11g
PFYN-40-...	57.7	4	G1/8-M	40.0	43.0	19.0	8.0	7.Y02142	7.Y02158	7.Y02174	12g
PFYN-50-...	91.0	4	G1/8-M	50.0	53.5	20.0	8.0	7.Y02143	7.Y02159	7.Y02175	15g
PFYN-60-...	125.0	6	G1/4-M	60.0	64.0	23.0	10.0	7.Y02144	7.Y02160	7.Y02176	34g
PFYN-80-...	260.0	6	G1/4-M	80.0	86.0	25.0	10.0	7.Y02145	7.Y02161	7.Y02177	63g
PFYN-95-...	350.0	6	G1/4-M	95.0	102.0	25.5	10.0	7.Y02146	7.Y02162	7.Y02178	102g
PFYN-120-...	540.0	9	G1/2-F	120.0	124.0	36.5	13.0	1.Y12969	1.Y12988	-	353g
PFYN-150-...	842.0	9	G1/2-F	147.5	158.0	45.5	13.0	1.Y12970	1.Y12989	1.Y13008	521g
PFYN-200-...	1498.0	9	G1/2-F	193.0	222.0	50.5	13.0	1.Y12971	1.Y12990	-	785g

(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

Technical Parameters

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI-55: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent
HT1-60: Siton® Specialized composites (non-marking)	60	+	++	-	++	-25 to 170	Blue
NBR-55: Nitrile Nitrile rubber	60	+	+	-	++	-30 to 120	Black

Vacuum Cups FSGA Series(Bellows type/2 layers)

NEW



Model	Suction force (N) ⁽¹⁾	Pull-off force (N) ⁽¹⁾⁽²⁾	Recommended Vacuum Tubes Inner Diameter(mm)	G1 (mm)	Ds (mm)	Dmax(S) (mm)	H (mm)	LG1 (mm)	NBR-55 (Black)	SI-55 (Translucent)	HT1-60 (Blue)	Weight
FSGA-6-...	0.4	1.4	4	M5-M	5.7	8.0	14.0	4.5	7.Y02179	7.Y02191	7.Y02203	2g
FSGA-11-...	0.95	3.8	4	M5-M	10.1	13.0	21.0	5.0	7.Y02180	7.Y02192	7.Y02204	2g
FSGA-14-...	1.2	5.0	4	M5-M	12.5	14.5	20.5	5.0	7.Y02181	7.Y02193	7.Y02205	2g
FSGA-16-...	2.3	6.7	4	G1/8-M	15.6	18.5	25.2	7.5	7.Y02182	7.Y02194	7.Y02206	5g
FSGA-20-...	4.7	10.7	4	G1/8-M	18.1	21.0	21.2	7.5	7.Y02183	7.Y02195	7.Y02207	5g
FSGA-22-...	5.7	15.2	4	G1/8-M	21.5	25.0	25.0	7.5	7.Y02184	7.Y02196	7.Y02208	6g
FSGA-25-...	5.3	17.3	4	G1/8-M	22.5	26.5	29.0	7.5	7.Y02185	7.Y02197	7.Y02209	6g
FSGA-33-...	13.6	39.6	6	G1/4-M	30.0	38.0	31.0	11.0	7.Y02186	7.Y02198	7.Y02210	16g
FSGA-43-...	22.8	64.5	6	G1/4-M	38.0	47.5	31.6	11.0	7.Y02187	7.Y02199	7.Y02211	19g
FSGA-53-...	51.3	95.0	6	G1/4-M	50.0	60.0	38.0	11.0	7.Y02188	7.Y02200	7.Y02212	27g
FSGA-63-...	85.0	135.0	6	G1/4-M	60.0	68.0	38.0	11.0	7.Y02189	7.Y02201	7.Y02213	34g
FSGA-78-...	137.4	218.0	6	G1/4-M	74.0	84.5	53.0	11.0	7.Y02190	7.Y02202	7.Y02214	71g

(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

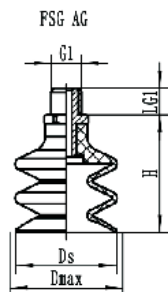
(2) The pull-off force of the vacuum cup made of natural rubber is reduced by about 40%.

Technical Parameters

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI-55: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent
HT1-60: Siton® Specialized composites (non-marking)	60	+	++	-	++	-25 to 170	Blue
NBR-55: Nitrile Nitrile rubber	60	+	+	-	++	-30 to 120	Black

Vacuum Cups FSG Series(Bellows type/2 layers)

NEW



Model	Suction force (N) ⁽¹⁾	Pull-off force (N) ⁽¹⁾⁽²⁾	Recommended Vacuum Tubes Inner Diameter(mm)	G1 (mm)	Dmax(S) (mm)	Ds (mm)	H (mm)	LG1 (mm)	NBR-55 (Black)	SI-55 (Translucent)	HT1-60 (Blue)	Weight
FSG-3-...	0.2	0.4	2	M5-M	4.0	3.0	8.7	3.0	7.Y02215	7.Y02230	7.Y02245	1g
FSG-4-...	0.3	0.6	2	M5-M	7.0	3.8	19.0	5.0	7.Y02216	7.Y02231	7.Y02246	2g
FSG-5-...	0.2	0.8	2	M5-M	7.0	5.0	19.0	5.0	7.Y02217	7.Y02232	7.Y02247	2g
FSG-7-...	0.1	0.9	4	M5-M	9.0	5.9	19.0	5.0	7.Y02218	7.Y02233	7.Y02248	2g
FSG-9-...	0.7	2.3	4	M5-M	9.5	9.0	20.0	5.0	7.Y02219	7.Y02234	7.Y02249	2g
FSG-12-...	0.9	3.5	4	M5-M	13.0	12.0	26.0	5.0	7.Y02220	7.Y02235	7.Y02250	2g
FSG-14-...	1.2	5.7	4	M5-M	15.5	14.5	27.8	5.0	7.Y02221	7.Y02236	7.Y02251	3g
FSG-18-...	2.3	8.5	4	G1/8-M	19.0	17.2	28.6	7.5	7.Y02222	7.Y02237	7.Y02252	6g
FSG-20-...	3.8	12.1	4	G1/8-M	21.0	20.0	28.1	7.5	7.Y02223	7.Y02238	7.Y02253	6g
FSG-25-...	4.5	19.0	4	G1/8-M	26.0	23.0	40.0	7.5	7.Y02224	7.Y02239	7.Y02254	8g
FSG-32-...	12.0	36.9	6	G1/8-M	33.5	32.0	41.5	11.0	7.Y02225	7.Y02240	7.Y02255	17g
FSG-42-...	13.6	44.0	6	G1/8-M	45.0	42.6	50.0	11.0	7.Y02226	7.Y02241	7.Y02256	27g
FSG-52-...	27.0	96.0	6	G1/8-M	55.0	52.5	52.7	11.0	7.Y02227	7.Y02242	7.Y02257	32g
FSG-62-...	39.6	137.0	6	G1/8-M	65.0	62.2	58.0	11.0	7.Y02228	7.Y02243	7.Y02258	60g
FSG-88-...	45.2	286.0	9	G1/4-M	95.5	89.0	92.5	11.0	7.Y02229	7.Y02244	-	173g

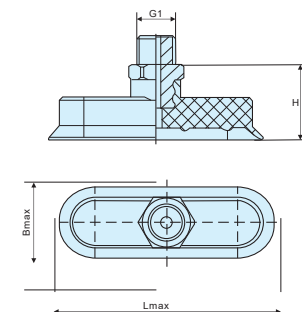
(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

(2) The pull-off force of the vacuum cup made of natural rubber is reduced by about 40%.

Technical Parameters

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI-55: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent
HT1-60: Siton [®] Specialized composites (non-marking)	60	+	++	-	++	-25 to 170	Blue
NBR-55: Nitrile Nitrile rubber	60	+	+	-	++	-30 to 120	Black

Vacuum Cups SGON Series(Flat Rectangular)



Model	Suction force (N) ⁽¹⁾	Recommended Vacuum Tubes Inner Diameter(mm)	G1 (mm)	Bmax (mm)	Lmax (mm)	H (mm)	NBR-55 (Black)	SI-55 (Translucent)	HT1-60 (Blue)	Weight
SGON-4x2-...	0.42	2	M3-M	2.5	4.5	8	1.Y13068	1.Y13079	1.Y13090	2g
SGON-7x3.5-...	1.0	2	M3-M	4.5	7.5	8	1.Y13069	1.Y13080	1.Y13091	2g
SGON-12x4-...	1.8	2	M5-M	5.0	13.0	18	1.Y13070	1.Y13081	1.Y13092	3g
SGON-15x5-...	3.1	2	M5-M	5.5	15.5	17	1.Y13071	1.Y13082	1.Y13093	3g
SGON-18x6-...	4.5	2	M5-M	7.0	18.5	17	1.Y13072	1.Y13083	1.Y13094	3g
SGON-24x8-...	8.0	4	G1/8-M	9.0	24.5	17	1.Y13073	1.Y13084	1.Y13095	7g
SGON-30x10-...	12.2	4	G1/8-M	11.5	30.5	17	1.Y13074	1.Y13085	1.Y13096	7g
SGON-45x15-...	28.2	6	G1/4-M	16.5	46.0	26	1.Y13075	1.Y13086	1.Y13097	15g
SGON-60x20-...	50.1	6	G1/4-M	22.0	61.0	26	1.Y13076	1.Y13087	1.Y13098	19g
SGON-75x25-...	78.3	6	G1/4-M	27.5	77.0	26	1.Y13077	1.Y13088	1.Y13099	27g
SGON-90x30-...	112.6	6	G1/4-M	33.0	92.5	26	1.Y13078	1.Y13089	1.Y13100	35g

(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

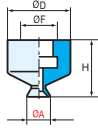
* SGON-24x8 and larger replacement vacuum cup pads are equipped with special fixing clips.

Technical Parameters

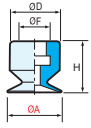
Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI-55: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent
HT1-60: Siton [®] Specialized composites (non-marking)	60	+	++	-	++	-25 to 170	Blue
NBR-55: Nitrile Nitrile rubber	60	+	+	-	++	-30 to 120	Black

Vacuum Cups VSH Series(Flat type)

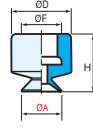
VSH-S2...VSH-S10



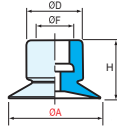
VSH-S12...VSH-S30



VSH-M4...VSH-M10



VSH-M12...VSH-M50

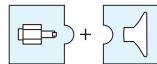


		$\Delta(N)(1)$	$\Delta(N)(1)$	$\varnothing A(mm)$	H(mm)	$\varnothing D(mm)$	$\varnothing F(mm)$	SI(Translucent)	SP(Sponge)
VSH-S2		0.5	0.1	2	13	11	7	1.Y07282	-
VSH-S4		0.7	0.2	4	10	10	7	1.Y07283	-
VSH-S6		0.9	0.3	6	10	10	7	1.Y07284	-
VSH-S8		1.1	0.5	8	10	10	7	1.Y07285	-
VSH-S10		1.6	0.8	10	10	10	7	1.Y07286	-
VSH-S12		2.0	1.5	12	12	10	7	1.Y07287	-
VSH-S15		3.7	1.8	15	12.5	11	7	1.Y07288	-
VSH-S20		6.1	3.0	20	13	12	7	1.Y07289	-
VSH-S25		9.4	4.7	25	13	13	7	1.Y07290	-
VSH-S30		15.9	7.9	30	13	13	7	1.Y07291	-
VSH-M4		0.7	0.2	4	15	15	11	1.Y07292	-
VSH-M6		0.9	0.3	6	15	15	11	1.Y07293	-
VSH-M8		1.1	0.5	8	15	15	11	1.Y07294	-
VSH-M10		1.6	0.8	10	15	15	11	1.Y07295	1.Y12885
VSH-M12		2.0	1.5	12	15	15	11	1.Y07296	1.Y12886
VSH-M15		3.7	1.8	15	15	15	11	1.Y07297	1.Y12887
VSH-M20		6.1	3.0	20	15	15	11	1.Y07298	1.Y07530
VSH-M25		9.4	4.7	25	15	15	11	1.Y07299	1.Y12888
VSH-M30		15.9	7.9	30	15	16	11	1.Y07300	1.Y07758
VSH-M40		26.7	13.4	40	15	17	11	1.Y07301	1.Y07894
VSH-M50		38.3	19.1	50	15	20	11	1.Y07302	1.Y07895

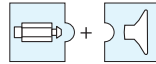
(1) Actual force of the suction cup in use with 65% vacuum and including a safety factor of 2 for horizontal handling and a factor of 4 for vertical handling.



	Vacuum Cup Fitting		Vacuum Cups
	VM11-M5, VM11-G18 VFS Series Stem VFST Series Stem		VSH-S2~VSH-S30
	VM10-G 1/8, VM27-M5 VFM Series Stem VFMT Series Stem		VSH-M4~VSH-M50



Factory-cripped fitting



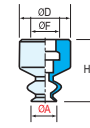
Hollow shaft fitting

Technical Parameters

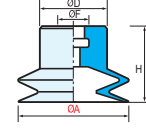
Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent

Vacuum Cups VSH2 Series(Bellows type/2 layers)

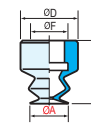
VSH2-S4...VSH2-S20



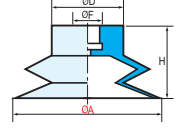
VSH2-S25...VSH2-S30



VSH2-M6...VSH2-M25



VSH2-M30...VSH2-M50

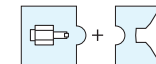


		$\Delta(N)(1)$	$\Delta(N)(1)$	$\varnothing A(mm)$	H(mm)	$\varnothing D(mm)$	$\varnothing F(mm)$	SI(Translucent)	SP(Sponge)
VSH2-S4		0.3	0.1	4	15	12	7	1.Y07303	-
VSH2-S6		0.5	0.2	6	15	12	7	1.Y07304	-
VSH2-S8		1.2	0.7	8	15	12	7	1.Y07305	-
VSH2-S10		1.7	0.9	10	15	12	7	1.Y07306	-
VSH2-S12		2.5	1.3	12	15	12	7	1.Y07307	-
VSH2-S15		2.7	1.3	15	17	15	7	1.Y07308	-
VSH2-S20		5.6	2.8	20	16.5	15	7	1.Y07309	-
VSH2-S25		7.9	4.0	25	18	15	7	1.Y07310	-
VSH2-S30		12.0	6.0	30	20	15	7	1.Y07311	-
VSH2-M6		0.5	0.2	6	18	15	11	1.Y07312	-
VSH2-M8		1.2	0.7	8	17	15	11	1.Y07313	-
VSH2-M10		1.7	0.9	10	17	15	11	1.Y07314	1.Y08294
VSH2-M12		2.5	1.3	12	17	15	11	1.Y07315	1.Y08295
VSH2-M15		2.7	1.3	15	18	15	11	1.Y07316	1.Y08296
VSH2-M20		5.6	2.8	20	18	15	11	1.Y07317	1.Y07929
VSH2-M25		7.9	4.0	25	18	15	11	1.Y07318	1.Y08349
VSH2-M30		12	6.0	30	19	18	11	1.Y07319	1.Y08056
VSH2-M35		13.9	6.9	35	24	18	11	1.Y07320	-
VSH2-M40		20.2	10.1	40	22	23	11	1.Y07321	1.Y08104
VSH2-M50		40.0	20.0	50	25	22	11	1.Y07322	1.Y08105

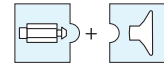
(1) Actual force of the suction cup in use with 65% vacuum and including a safety factor of 2 for horizontal handling and a factor of 4 for vertical handling.



	Vacuum Cup Fitting		Vacuum Cups
	VM11-M5, VM11-G18 VFS Series Stem VFST Series Stem		VSH2-S4~VSH2-S30
	VM10-G 1/8, VM27-M5 VFM Series Stem VFMT Series Stem		VSH2-M6~VSH2-M50



Factory-cripped fitting



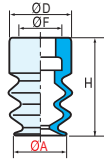
Hollow shaft fitting

Technical Parameters

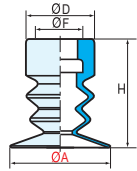
Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent

Vacuum Cups VSH3 Series(Bellows type/3 layers)

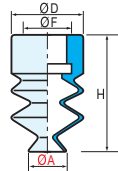
VSH3-S6...VSH3-S8



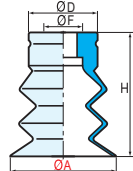
VSH3-S10...VSH3-S15



VSH3-M8...VSH3-M30



VSH3-M40...VSH3-M50



		Δ (N/U)	ØA(mm)	H(mm)	ØD(mm)	ØF(mm)	SI(Translucent)	SP(Sponge)
VSH3-S6		0.5	6	15	10	7	1.Y07323	-
VSH3-S8		1.0	8	15	10	7	1.Y07324	-
VSH3-S10		1.5	10	15	10	7	1.Y07325	-
VSH3-S12		2.8	12	15	10	7	1.Y07326	-
VSH3-S15		3.0	15	15	10	7	1.Y07327	-
VSH3-M8		1.0	8	20	15	11	1.Y07328	-
VSH3-M10		1.5	10	18	15	11	1.Y07329	1.Y09163
VSH3-M12		2.8	12	21	15	11	1.Y07330	1.Y09162
VSH3-M15		3.0	15	21	15	11	1.Y07331	1.Y09161
VSH3-M20		4.6	20	24	15	11	1.Y07332	1.Y08134
VSH3-M25		6.5	25	19	15	11	1.Y07333	1.Y09065
VSH3-M30		12.1	30	25	15	11	1.Y07334	1.Y08167
VSH3-M40		20.5	40	43	20	11	1.Y07335	1.Y08168
VSH3-M50		25.0	50	42	20	11	1.Y07336	1.Y08234

(1) Actual force of the suction cup in use with 65% vacuum and including a safety factor of 2 for horizontal handling and a factor of 4 for vertical handling.

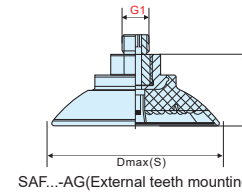


	Vacuum Cup Fitting		Vacuum Cups
VM11-M5, VM11-G18 VFS Series Stem VFST Series Stem		VSH3-S6~VSH3-S15	
VM10-G 1/8, VM27-M5 VFM Series Stem VFMT Series Stem		VSH3-M8~VSH3-M50	
	Factory-cripped fitting		Hollow shaft fitting

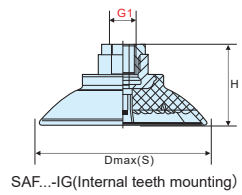
Technical Parameters

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent

Vacuum Cups SAF Series(Flat type)



SAF...-AG(External teeth mounting)

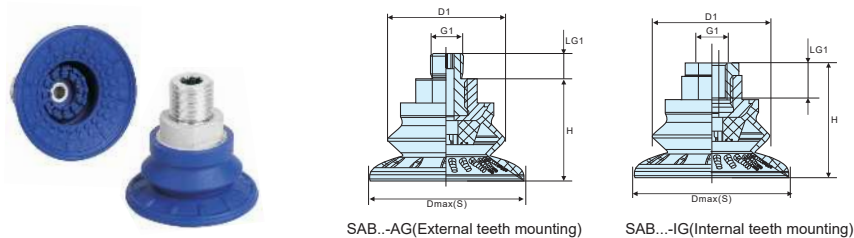


SAF...-IG(Internal teeth mounting)

PN	Model	Suction force (N)	Lateral force (N) ⁽²⁾	Recommended Vacuum Tubes Inner Diameter(mm)	Dmax(S) (mm)	G1 (mm)	H (mm)	LG1 (mm)	Weight
1.Y13010	SAF-30-G3/8AG	38	30	4	34	G3/8-M	20	10	17g
1.Y13011	SAF-30-G3/8IG	38	30	4	34	G3/8-F	36	9	43g
1.Y13012	SAF-40-G3/8AG	69	52	4	46	G3/8-M	22	10	19g
1.Y13013	SAF-40-G3/8IG	69	52	4	46	G3/8-F	38	9	45g
1.Y13014	SAF-50-G3/8AG	100	80	4	56	G3/8-M	28	10	40g
1.Y13015	SAF-50-G3/8IG	100	80	4	56	G3/8-F	28	15	31g
1.Y13016	SAF-60-G3/8AG	150	105	6	67	G3/8-M	31	10	46g
1.Y13017	SAF-60-G3/8IG	150	105	6	67	G3/8-F	31	15	37g
1.Y13018	SAF-80-G3/8AG	272	205	6	89	G3/8-M	35	10	65g
1.Y13019	SAF-80-G3/8IG	272	205	6	89	G3/8-F	35	15	56g
1.Y13020	SAF-100-G3/8AG	430	310	6	110	G3/8-M	36	10	76g
1.Y13021	SAF-100-G3/8IG	430	310	6	110	G3/8-F	36	15	67g
1.Y13023	SAF-125-G3/8IG	660	475	9	135	G3/8-F	43	15	146g

Functions: anti-skid, oil-proof and water-proof (mostly used for adsorption of automobile sheet metal, glass, etc.)

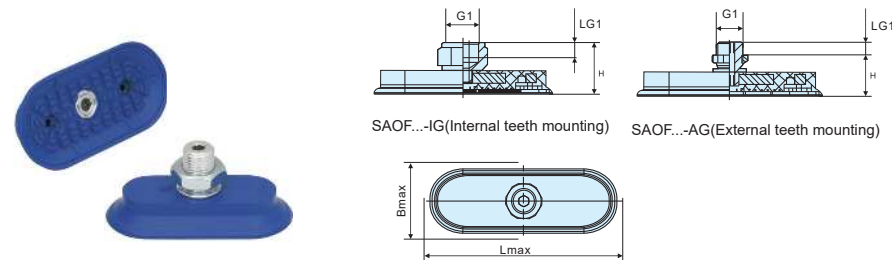
Vacuum Cups SAB Series(Bellows type/2 layers)



PN	Model	Suction force (N) ⁽¹⁾	Pull-off force (N) ⁽¹⁾	Lateral force (N) ⁽²⁾	Recommended Vacuum Tubes Inner Diameter(mm)	Dmax(S) (mm)	G1 (mm)	D1 (mm)	H (mm)	LG1 (mm)	Weight
1.Y13038	SAB-22-G3/8AG	16	24	18	4	24	G3/8-M	22	25	10	15g
1.Y13039	SAB-22-G3/8IG	16	24	18	4	24	G3/8-F	22	41	9.5	41g
1.Y13040	SAB-30-G3/8AG	22	33	30	4	34	G3/8-M	32	28	10	19g
1.Y13041	SAB-30-G3/8IG	22	33	30	4	34	G3/8-F	32	44	9.5	45g
1.Y13042	SAB-40-G3/8AG	38	59	36	4	45	G3/8-M	32	28.8	10	20g
1.Y13043	SAB-40-G3/8IG	38	59	36	4	45	G3/8-F	32	44.8	9.5	45g
1.Y13044	SAB-50-G3/8AG	53	87	55	4	56	G3/8-M	40	36.9	10	41g
1.Y13045	SAB-50-G3/8IG	53	87	55	4	56	G3/8-F	40	36.9	15	32g
1.Y13046	SAB-60-G3/8AG	82	130	82	6	67	G3/8-M	48	41.3	10	49g
1.Y13047	SAB-60-G3/8IG	82	130	82	6	67	G3/8-F	48	41.3	15	40g
1.Y13048	SAB-80-G3/8AG	135	221	145	6	89	G3/8-M	64	49.9	10	72g
1.Y13049	SAB-80-G3/8IG	135	221	145	6	89	G3/8-F	64	49.9	15	63g
1.Y13050	SAB-100-G3/8AG	190	357	220	6	110	G3/8-M	77	56.6	10	97g
1.Y13051	SAB-100-G3/8IG	190	357	220	6	110	G3/8-F	77	56.6	15	88g
1.Y13052	SAB-125-G3/8AG	250	558	352	9	135	G3/8-M	94	67.8	10	179g
1.Y13053	SAB-125-G3/8IG	250	558	352	9	135	G3/8-F	94	67.8	15	170g

Functions:anti-skid, oil-proof and water-proof(mostly used for adsorption of automobile sheet metal, glass, etc.)

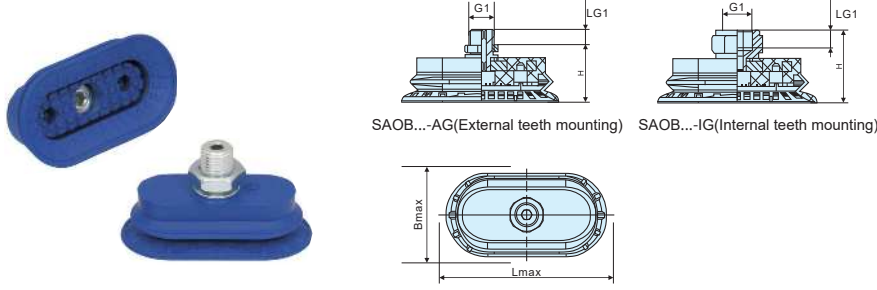
Vacuum Cups SAOF Series(Flat type)



PN	Model	Suction force (N) ⁽¹⁾	Lateral force (N) ⁽²⁾	Recommended Vacuum Tubes Inner Diameter(mm)	Dmax(S) (mm)	G1 (mm)	H (mm)	LG1 (mm)	Lmax(S) (mm)	Weight
1.Y13024	SAOF-50x16-G3/8AG	31	24	4	18	G3/8-M	26	8	52	24g
1.Y13025	SAOF-50x16-G3/8IG	31	24	4	18	G3/8-F	34	9	52	45g
1.Y13026	SAOF-60x23-G3/8AG	57	37	4	25	G3/8-M	18	8	64	21g
1.Y13027	SAOF-60x23-G3/8IG	57	37	4	25	G3/8-F	26	9	64	42g
1.Y13028	SAOF-90x30-G3/8AG	122	96	4	34	G3/8-M	19	8	94	39g
1.Y13029	SAOF-90x30-G3/8IG	122	96	4	34	G3/8-F	27	9	94	60g
1.Y13030	SAOF-80x40-G3/8AG	140	110	4	43	G3/8-M	20	8	85	34g
1.Y13031	SAOF-80x40-G3/8IG	140	110	4	43	G3/8-F	28	9	85	55g
1.Y13032	SAOF-100x50-G3/8AG	217	181	6	54	G3/8-M	22	8	106	63g
1.Y13033	SAOF-100x50-G3/8IG	217	181	6	54	G3/8-F	31	9	106	85g
1.Y13034	SAOF-120x60-G3/8AG	312	254	6	65	G3/8-M	24	8	128	77g
1.Y13035	SAOF-120x60-G3/8IG	312	254	6	65	G3/8-F	33	9	128	99g
1.Y13037	SAOF-140x70-G3/8IG	425	344	6	76	G3/8-F	34	9	149	107g

Functions:anti-skid, oil-proof and water-proof(mostly used for adsorption of automobile sheet metal, glass, etc.)

Vacuum Cups SAOB Series(Bellows type/2 layers)

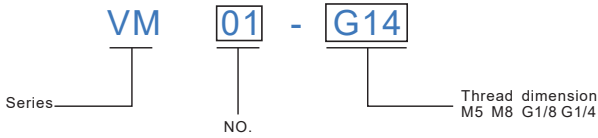


PN	Model	Suction force (N) ⁽¹⁾	Pull-off force (N) ⁽¹⁾	Lateral force (N) ⁽²⁾	Recommended Vacuum Tubes Inner Diameter(mm)	Bmax(S) (mm)	Lmax(S) (mm)	G1 (mm)	H (mm)	Lg1 (mm)	Weight
1.Y13054	SAOB-60x30-G3/8AG	38	70	73	4	33	63	G3/8-M	27.0	8	49g
1.Y13055	SAOB-60x30-G3/8IG	38	70	73	4	33	63	G3/8-F	35.0	9	70g
1.Y13056	SAOB-80x40-G3/8AG	65	132	153	6	43	83	G3/8-M	29.7	8	67g
1.Y13057	SAOB-80x40-G3/8IG	65	132	153	6	43	83	G3/8-F	37.7	9	88g
1.Y13058	SAOB-110x55-G3/8AG	110	234	299	6	59	114	G3/8-M	35.5	8	87g
1.Y13059	SAOB-110x55-G3/8IG	110	234	299	6	59	114	G3/8-F	43.5	9	109g
1.Y13061	SAOB-140x70-G3/8IG	165	355	473	6	75	146	G3/8-F	47.5	9	142g

Functions:anti-skid, oil-proof and water-proof(mostly used for adsorption of automobile sheet metal, glass, etc.)

Vacuum Cups Fitting

Model Representation Methods

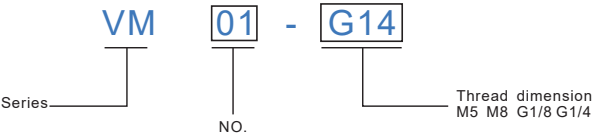


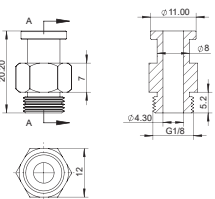
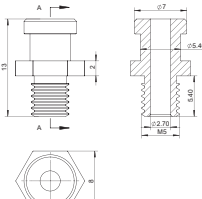
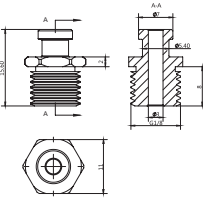
Vacuum Cup Fitting			
Dimension			
PN	7.Y00703	7.Y00709	7.Y00768
Model	VM02-G18	VM04-G14	VM06-G14
Weight	3.5g	7.0g	9.7g

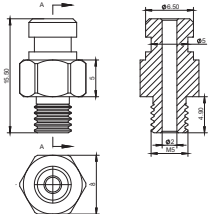
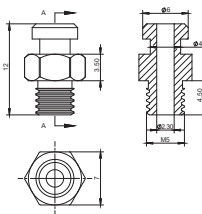
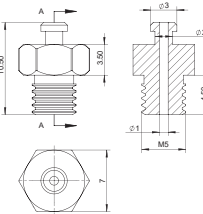
Vacuum Cup Fitting			
Dimension			
PN	7.Y00767	1.Y05275	1.Y05274
Model	VM07-G18	VM08-M8	VM09-M5
Weight	3.3g	8.3g	1.4g

Vacuum Cups Fitting

Model Representation Methods

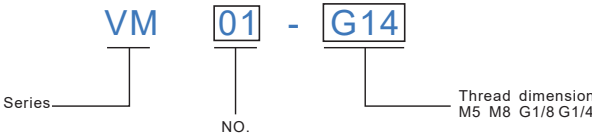


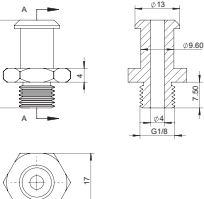
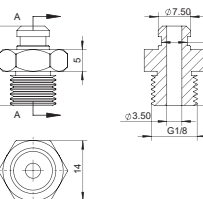
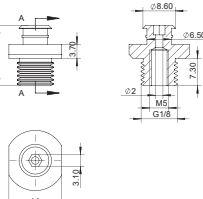
Vacuum Cup Fitting			
Dimension			
PN	7.Y00902	1.Y05327	1.Y12762
Model	VM10-G18	VM11-M5	VM11-G18
Weight	3.7g	2.0g	2.0g

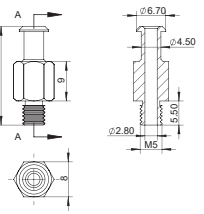
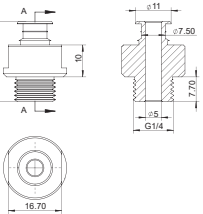
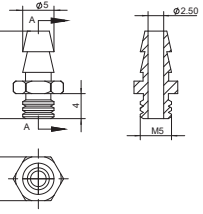
Vacuum Cup Fitting			
Dimension			
PN	7.Y00762	7.Y00761	7.Y00760
Model	VM12-M5	VM13-M5	VM14-M5
Weight	1.2g	0.7g	0.5g

Vacuum Cups Fitting

Model Representation Methods

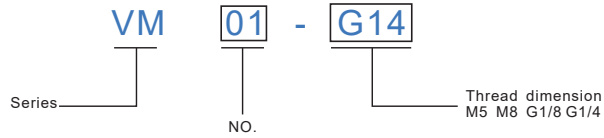


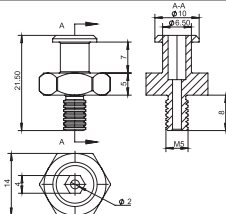
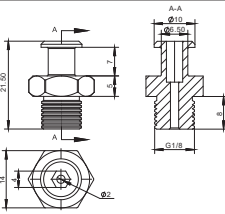
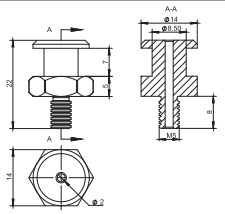
Vacuum Cup Fitting			
Dimension			
PN	7.Y00759	7.Y00758	7.Y00757
Model	VM15-G18	VM16-G18	VM17-G18
Weight	17.8g	3.8g	2.9g

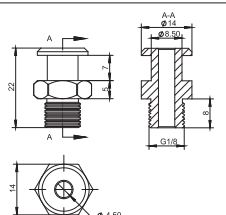
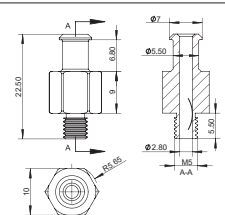
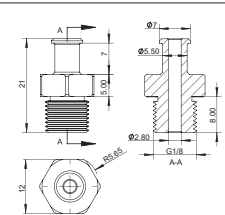
Vacuum Cup Fitting			
Dimension			
PN	1.Y05314	4.Y00058	1.Y01986
Model	VM18-M5	VM20-G14	VM21-M5
Weight	4.6g	9.5g	1.8g

Vacuum Cups Fitting

Model Representation Methods

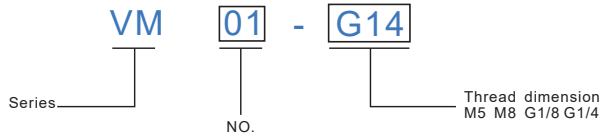


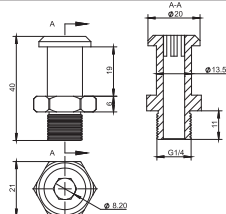
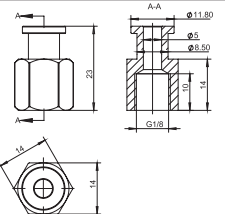
Vacuum Cup Fitting			
Dimension			
PN	7.Y01042	7.Y01043	7.Y01044
Model	VM35-M5	VM36-G18	VM37-M5
Weight	3.4g	3.7g	4.3g

Vacuum Cup Fitting			
Dimension			
PN	7.Y01045	7.Y01046	7.Y01047
Model	VM38-G18	VM39-M5	VM40-G18
Weight	4.7g	2.6g	4.0g

Vacuum Cups Fitting

Model Representation Methods

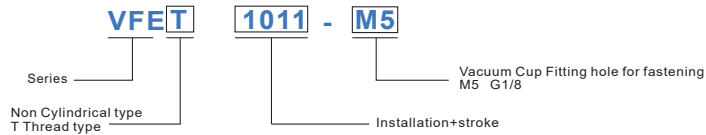


Vacuum Cup Fitting			
Dimension			
PN	7.Y01048	7.Y02013	
Model	VM41-G14	VM10-G18-F	
Weight	14g	5.7g	

Vacuum Cup Suspensions

The suspensions (or buffers, or level compensators) are used to keep the suction cups in position as the robot approaches. CRG offers a range specifically designed for Plastics applications. They are typically mounted on EAOTs (End Of Arm Toolings) with Mounting brackets.

Model Representation Methods



VFET



VFR



VFN



VFET



VFRT



VFNT

Suspensions with smooth body

VFR
VFN
VFE



Non-rotative suspensions

VFN
VFNT
VFE
VFET



Suspensions with threaded body

VFRT
VFNT
VFET



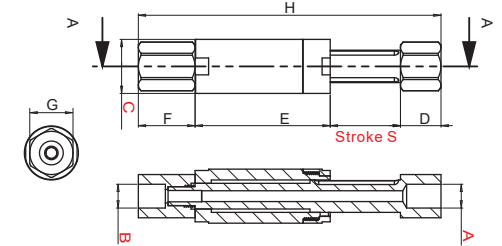
Rotative suspensions

VFR
VFRT

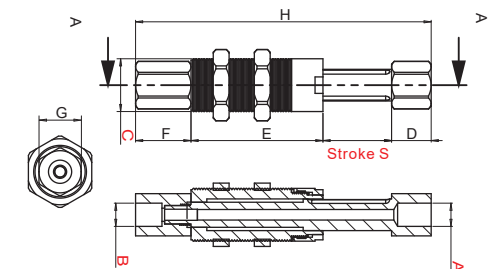


Non-rotative Suspensions

Body and rod in anodized aluminum.
Non-rotative rod with high load capability.
Pressure range: -1 ~ 8 bar.



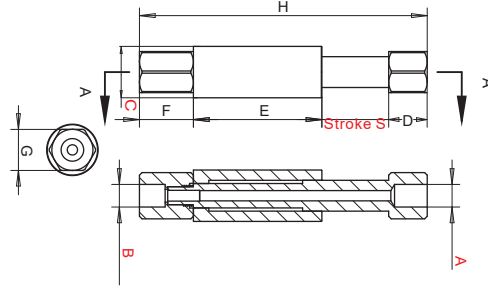
PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
8.Y00064	VFN1011-M5	M5	M5	Ø10	10	22	17	8	60	11	7g
8.Y00321	VFN1021-M5	M5	M5	Ø10	10	41	17	8	89	21	11g
8.Y00065	VFN1421-G18	G1/8	G1/8	Ø14	12	40	20	12	93	21	24g
8.Y00322	VFN1436-G18	G1/8	G1/8	Ø14	12	60	20	12	128	36	44g
8.Y00066	VFN2026-G18	G1/8	G1/8	Ø20	15	50	21	16	112	26	54g
8.Y00067	VFN2051-G18	G1/8	G1/8	Ø20	15	84	21	16	171	51	80g



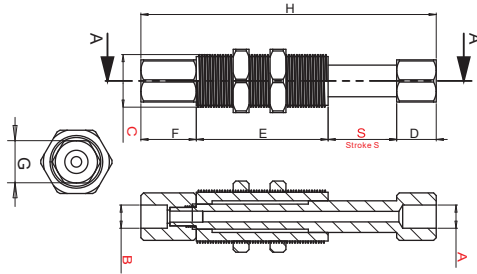
PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
8.Y00068	VFNT1011-M5	M5	M5	M10*1	10	22	17	8	60	11	12g
8.Y00323	VFNT1021-M5	M5	M5	M10*1	10	41	17	8	89	21	39g
8.Y00204	VFNT1421-G18	G1/8	G1/8	M14*1	12	40	20	12	93	21	51g
8.Y00383	VFNT1621-G18	G1/8	G1/8	M16*1	12	40	20	12	93	21	64g
8.Y00324	VFNT1436-G18	G1/8	G1/8	M14*1	12	60	20	12	128	36	72g
8.Y00384	VFNT1636-G18	G1/8	G1/8	M16*1	12	60	20	12	128	36	76g
8.Y00205	VFNT2026-G18	G1/8	G1/8	M20*1	15	50	21	16	112	26	82g
8.Y00206	VFNT2051-G18	G1/8	G1/8	M20*1	15	84	21	16	171	51	120g

Rotative Suspensions

Body and rod in anodized aluminum.
Non-rotative rod with high load capability.
Pressure range: -1 ~ 8 bar.



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
8.Y00060	VFR1011-M5	M5	M5	Ø10	3	22	17	8	53	11	11g
8.Y00325	VFR1021-M5	M5	M5	Ø10	3	41	17	8	82	21	17g
8.Y00061	VFR1421-G18	G1/8	G1/8	Ø14	12	40	20	12	93	21	23g
8.Y00326	VFR1436-G18	G1/8	G1/8	Ø14	12	60	20	12	128	36	40g
8.Y00062	VFR2026-G18	G1/8	G1/8	Ø20	15	50	21	16	112	26	50g
8.Y00063	VFR2051-G18	G1/8	G1/8	Ø20	15	84	21	16	171	51	77g



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
8.Y00074	VFRT1011-M5	M5	M5	M10*1	3	22	17	8	53	11	14g
8.Y00327	VFRT1021-M5	M5	M5	M10*1	3	41	17	8	82	21	26g
8.Y00075	VFRT1421-G18	G1/8	G1/8	M14*1	12	40	20	12	93	21	32g
8.Y00381	VFRT1621-G18	G1/8	G1/8	M16*1	12	40	20	12	93	21	36g
8.Y00328	VFRT1436-G18	G1/8	G1/8	M14*1	12	60	20	12	128	36	60g
8.Y00382	VFRT1636-G18	G1/8	G1/8	M16*1	12	60	20	12	128	36	65g
8.Y00076	VFRT2026-G18	G1/8	G1/8	M20*1	15	50	21	16	112	26	70g
8.Y00077	VFRT2051-G18	G1/8	G1/8	M20*1	15	84	21	16	171	51	104g

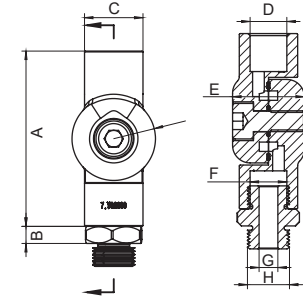
Adjustable Elbow Arm

After the rotation of ventilation, according to different customer needs to adjust the different angle.
Mount this vacuum elbow between the vacuum cup and suspension of the extension tube.

NEW



Physical Includes Air Fittings



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	Weight(g)
7.Y02101	VM-05F05F	33	4.10	Ø10	M5	14	M5	Ø2	G1/8	26g
7.Y02100	VM-14F14F	56	4.10	Ø15.9	G1/4	18.4	G1/4	Ø5	G1/8	49g
7.Y02099	VM-18F18F	42	4.10	Ø14	G1/8	17.2	G1/8	Ø4.5	G1/8	135g

Non-rotative Suspensions With Integral Elbow Arms

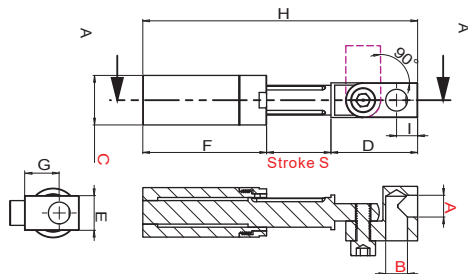
It is possible to set continuously the angle between 0° and +/-90°.

External air feeding.

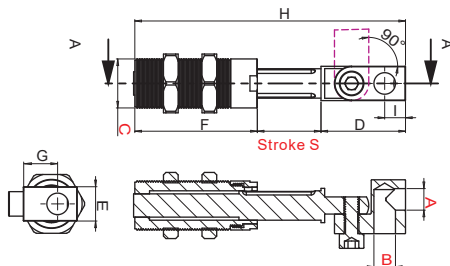
Body and rod in anodized aluminum.

Non-rotative rod with high load capability.

Pressure range: -1 ~ 8 bar.



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
8.Y00070	VFE1011-M5	M5	M5	Ø10	20	8	22	8	53	11	12g
8.Y00371	VFE1021-M5	M5	M5	Ø10	20	8	41	8	81	21	16g
8.Y00071	VFE1421-G18	G1/8	G1/8	Ø14	32	14	40	14	93	21	45g
8.Y00372	VFE1436-G18	G1/8	G1/8	Ø14	32	14	60	14	128	36	48g
8.Y00072	VFE2026-G18	G1/8	G1/8	Ø20	35	14	50	14	111	26	70g
8.Y00073	VFE2051-G18	G1/8	G1/8	Ø20	35	14	84	14	169.5	51	105g



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
8.Y00069	VFET1011-M5	M5	M5	M10*1	20	8	22	8	53	11	15g
8.Y00374	VFET1021-M5	M5	M5	M10*1	20	8	41	8	81	21	24g
8.Y00228	VFET1421-G18	G1/8	G1/8	M14*1	32	14	40	14	93	21	57g
8.Y00379	VFET1621-G18	G1/8	G1/8	M16*1	32	14	40	14	93	21	64g
8.Y00375	VFET1436-G18	G1/8	G1/8	M14*1	32	14	60	14	128	36	80g
8.Y00380	VFET1636-G18	G1/8	G1/8	M16*1	32	14	60	14	128	36	85g
8.Y00229	VFET2026-G18	G1/8	G1/8	M20*1	35	14	50	14	111	26	88g
8.Y00230	VFET2051-G18	G1/8	G1/8	M20*1	35	14	84	14	169.5	51	125g

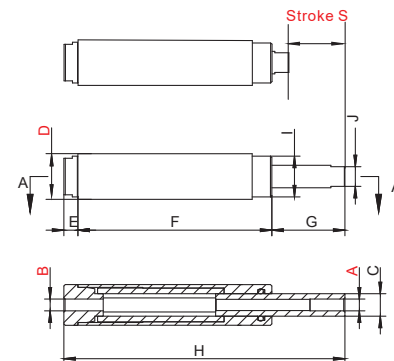
Non-rotating Suspension For Fixed Piping

The product is made of anodic aluminium.

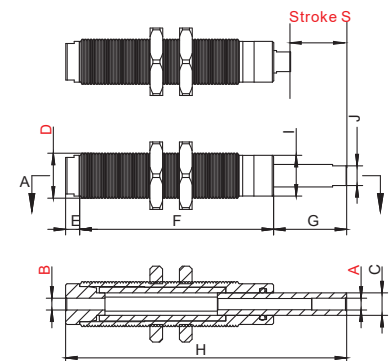
Built-in anti-rotation plastic piston.

Built-in telescopic function of spring reset,

tail vacuum intake fixed design.

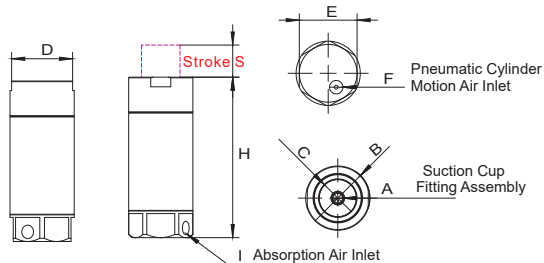


PN	Model	A	B	C	D	E	F	G	H	I	J	S	Weight(g)
8.Y00313	VFCT2030-G18	G1/8	G1/8	Φ13	Φ20	8	85	40	133	Φ18	12	30	60



PN	Model	A	B	C	D	E	F	G	H	I	J	S	Weight(g)
8.Y00277	VFCT1620-M5	M5	M5	Φ8	M16X1.0	5	69	26	100	Φ14.5	7	20	42.7
8.Y00314	VFCT2030-G18	G1/8	G1/8	Φ13	M20X1.0	8	85	40	133	Φ18	12	30	80

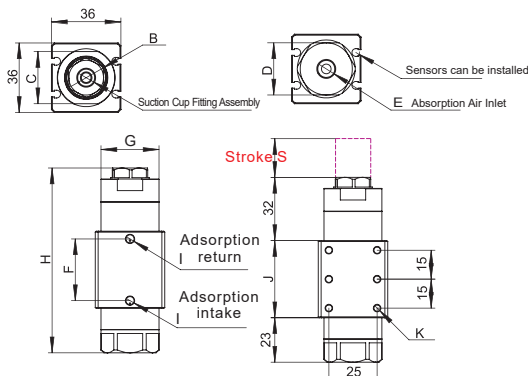
The Adsorption Of Pneumatic Fittings



Product does not contain suction cup and suction cup fitting

PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	H(mm)	I(mm)	S(mm)	Weight
8.Y00207	VFG20-10	M5	Φ20	Φ12	19	18	M5	50	M5	10	35g
8.Y00337	VFG20-20	M5	Φ20	Φ12	19	18	M5	65	M5	20	45g
8.Y00338	VFG30-20	G1/8	Φ30	Φ20	27	27	G1/8	72	G1/8	20	70g

Double action adsorption fittings

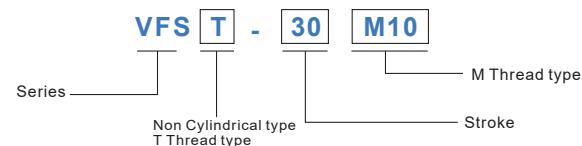


Product does not contain suction cup and suction cup fitting

PN	Model	A	B	C	D	E	F	G	H	I	J	K	S	Weight
8.Y00451	VFGD30-20	G1/8	Φ20	27	27	G1/8	32	Φ30	95	M5	40	M4	20	198.2g

Suction Stems

Model Representation Methods



VFSST



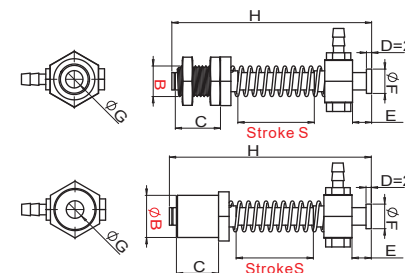
VFS



VFMT



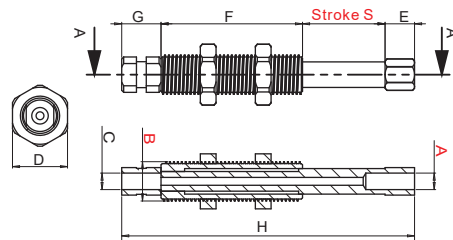
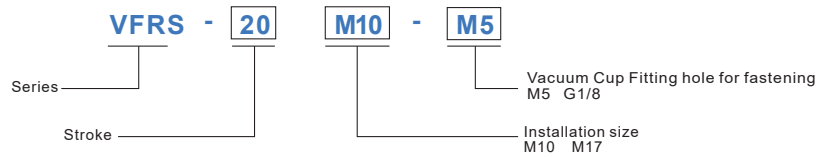
VFM



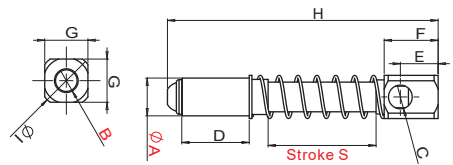
PN	Model	B(mm)	C(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
8.Y00283	VFST-5M10	M10*1	18	5.5	Ø7	Ø3.4	49	5	14g
8.Y00284	VFST-10M10	M10*1	18	5.5	Ø7	Ø3.4	54	10	15g
8.Y00285	VFST-20M10	M10*1	18	5.5	Ø7	Ø3.4	64	20	15g
8.Y00286	VFST-30M10	M10*1	18	5.5	Ø7	Ø3.4	74	30	16g
8.Y00287	VFS-0508	Ø8	18	5.5	Ø7	Ø3.4	49	5	9g
8.Y00288	VFS-0512	Ø12	18	5.5	Ø7	Ø3.4	49	5	13g
8.Y00289	VFS-1008	Ø8	18	5.5	Ø7	Ø3.4	54	10	9g
8.Y00007	VFS-1012	Ø12	18	5.5	Ø7	Ø3.4	54	10	14g
8.Y00290	VFS-2008	Ø8	18	5.5	Ø7	Ø3.4	64	20	10g
8.Y00008	VFS-2012	Ø12	18	5.5	Ø7	Ø3.4	64	20	14g
8.Y00291	VFS-3008	Ø8	18	5.5	Ø7	Ø3.4	74	30	11g
8.Y00292	VFS-3012	Ø12	18	5.5	Ø7	Ø3.4	74	30	15g
8.Y00293	VFMT-5M12	M12*1	18	9	Ø11	Ø4.6	52.5	5	20g
8.Y00294	VFMT-10M12	M12*1	18	9	Ø11	Ø4.6	57.5	10	21g
8.Y00295	VFMT-20M12	M12*1	18	9	Ø11	Ø4.6	67.5	20	22g
8.Y00296	VFMT-30M12	M12*1	18	9	Ø11	Ø4.6	77.5	30	24g
8.Y00297	VFM-0512	Ø12	18	9	Ø11	Ø4.6	52.5	5	15g
8.Y00298	VFM-0520	Ø20	18	9	Ø11	Ø4.6	52.5	5	29g
8.Y00299	VFM-1012	Ø12	18	9	Ø11	Ø4.6	57.5	10	16g
8.Y00300	VFM-1020	Ø20	18	9	Ø11	Ø4.6	57.5	10	29g
8.Y00301	VFM-2012	Ø12	18	9	Ø11	Ø4.6	67.5	20	18g
8.Y00302	VFM-2020	Ø20	18	9	Ø11	Ø4.6	67.5	20	31g
8.Y00303	VFM-3012	Ø12	18	9	Ø11	Ø4.6	77.5	30	19g
8.Y00304	VFM-3020	Ø20	18	9	Ø11	Ø4.6	77.5	30	32g

Suction Stems

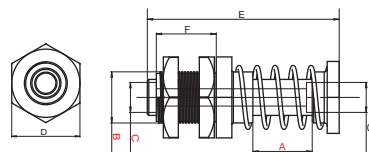
Model Representation Methods



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
4.Y00026	VFRS-20M10-M5	M5	M10*1	M5	14	7	36	10	73.5	20	27g
4.Y00023	VFRS-20M16-G18	G1/8	M16*1	G1/8	21	4	36	15	77	20	76g

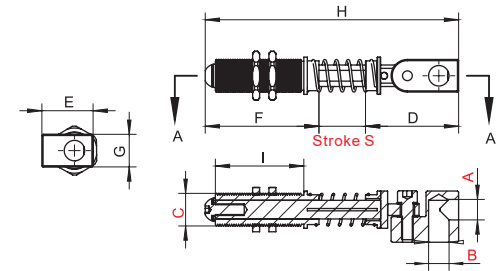


PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	S(mm)	Weight(g)
1.Y01452	VFM-4014-G18	Ø14	G1/8	G1/8	25	14	20	16	100	Ø20	40	48g
1.Y01451	VFM-2020-G14	Ø20	G1/4	G1/8	48	15	26	22	113	Ø27	20	136g

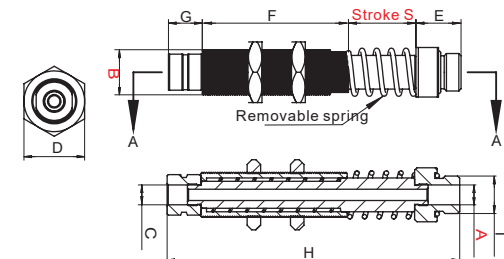


PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	Weight(g)
1.Y01453	VFL-20M17-G18	20	M17*1	G1/8	27	64	20	G1/8	119g

Suction Stems

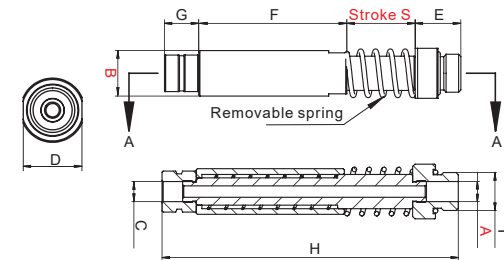


PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	S(mm)	Weight(g)
8.Y00319	VFMT-20M14-G18	G1/8	G1/8	M14X1.0	40	22	49	14	109	38	20	97g
8.Y00320	VFMT-40M14-G18	G1/8	G1/8	M14X1.0	40	22	64	14	144	50	40	123g



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	S(mm)	Weight(g)
8.Y00409	VFHT-30M20-G38F-G18M	G1/8	M20*1	G1/8	27	20	65	15	130	G3/8	30	260g

*When installing a single spring, the pressure it can bear is 7N-18N. When installing the double spring, the pressure that can bear is 60N-150N.



PN	Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	S(mm)	Weight(g)
8.Y00410	VFH-30M20-G38F-G18M	G1/8	Ø20	G1/8	22	20	65	15	130	G3/8	30	235g

*When installing a single spring, the pressure it can bear is 7N-18N. When installing the double spring, the pressure that can bear is 60N-150N.

Solenoid Valve VUVG-LK

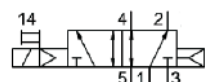
Single pipe valve VUVG-LK, 24VDC, Inner leader H2



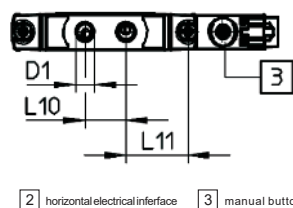
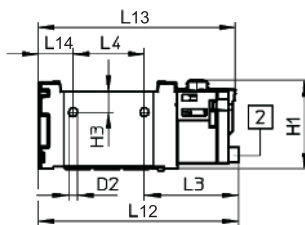
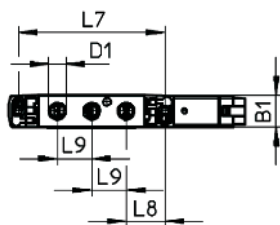
Junction box with 0.5m cable



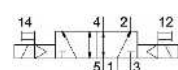
accessory seal a pack of ten



M52 Two-position five-way single electronic control air reset



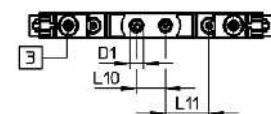
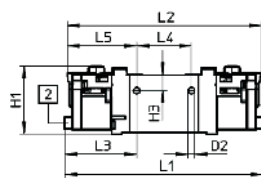
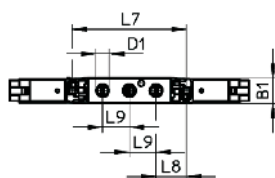
PN	Model	B1	D2	H1	H3	L3	L4	L7	L8	L9	L10	L11	L12	L13	L14	Flow parameters (l/min)
1.Y06040	VUVG-LK14-M52-AT-G18-1H2L-S	14.4	3.3	34.8	3.2	40.1	37	66.5	18.4	14.9	17	24.8	95.6	94.4	17.7	660



B52 Two-position double electronic control

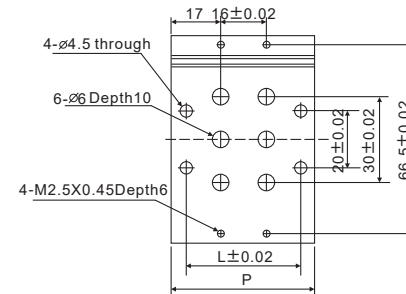
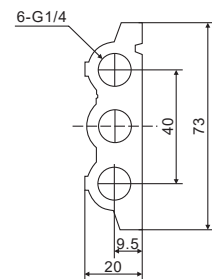


accessory seal a pack of ten



PN	Model	B1	D2	H1	H3	L1	L2	L3	L4	L5	L7	L8	L9	L10	L11	Flow parameters (l/min)
1.Y06288	VUVG-LK14-B52-T-G18-1H2L-W1-S	14.4	3.3	34.8	3.2	118.9	116.4	40.1	37	39.7	66.5	18.4	14.9	17	24.8	660

Solenoid Valve Base



PN	1.Y06289	1.Y06290	1.Y06291	1.Y06292	1.Y06293	1.Y06294	1.Y06042	1.Y07453	1.Y06295
Model	VUVG18-LK-2F	VUVG18-LK-3F	VUVG18-LK-4F	VUVG18-LK-5F	VUVG18-LK-6F	VUVG18-LK-7F	VUVG18-LK-8F	VUVG18-LK-9F	VUVG18-LK-10F
Row	2	3	4	5	6	7	8	9	10
L	40	56	72	88	104	120	136	152	168
P	50	66	82	98	114	130	146	162	178

PN	1.Y09872	1.Y09873	1.Y09874	1.Y09875	1.Y09876	1.Y09877	1.Y09878	1.Y09879	1.Y09880	1.Y09881
Model	VUVG18-LK-11F	VUVG18-LK-12F	VUVG18-LK-13F	VUVG18-LK-14F	VUVG18-LK-15F	VUVG18-LK-16F	VUVG18-LK-17F	VUVG18-LK-18F	VUVG18-LK-19F	VUVG18-LK-20F
Row	11	12	13	14	15	16	17	18	19	20
L	184	200	216	232	248	264	280	296	312	328
P	194	210	226	242	258	274	290	306	322	338



VLCLASSIC XI x 2 Vacuum Generator



High efficiency and energy saving generator technology.
The vacuum generating tube can provide high flow rate under the vacuum degree up to 95 - kPa.
Suitable for non permeable applications requiring high vacuum.
Large capacity range, 1 to 6 vacuum tubes can be provided. If necessary, vclassic can be easily upgraded from smaller capacity to larger capacity.
Lightweight, configurable and modular design.
Easy to disassemble and maintain.

PN	Model
1.Y13065	VLCLASSIC XI x 2

Summary

Materiel	CuZn, NBR (FKM), PA, SS, Al
Noise level	64-69 dBA
Temperature	-10-80 °C
Weight	550 g
Muffler weight	120 g

Performance

Feed pressure, max.	0.7 MPa
Feed pressure, optimum	0.45 MPa
Max vacuum	95 -kPa

Aerodynamic Parameters

Internal volume	140 cm³
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Vacuum Flow (NI/s)

Feed pressure	Gas consumption	Vacuum flow(NI/s) @ vacuum (- kPa)										Max vacuum
Mpa	NI/s	0	10	20	30	40	50	60	70	80	90	-kPa
0.45	3.66	11.8	6	4	2.6	1.46	1.16	0.86	0.64	0.36	0.06	95

Exhaust Time (s/l)

Feed pressure	Gas consumption	Exhaust time (s / L) Vacuum (- kPa)									Max vacuum
Mpa	NI/s	10	20	30	40	50	60	70	80	90	-kPa
0.45	3.66	0.011	0.031	0.06	0.11	0.19	0.29	0.42	0.6	1.1	95

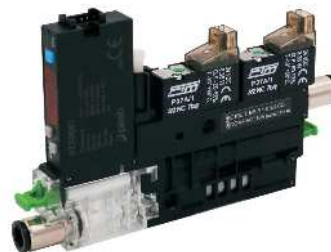
The Values Indicated In The Data Sheet Can Be Tested:

Room temperature	(20 C [68 F] ± 3 C [5.5 F])
Standard atmosphere	(101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg])
Relative humidity	0-100%
Compressed air quality	DIN ISO 8573-1 class 4

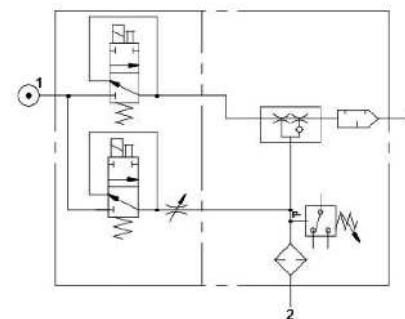
Compact 10CE Integrated Vacuum Generator

Values specified in the data sheet are tested at:

Room temperature(20 C [68 F] ± 3 C [5.5 F])
Standard atmosphere 101.3[29.9 inHg] ± 1.0 kPa [0.3inHg])
Relative humidity:35-85%,non condensation
Compressed air quality DIN ISO 8573-1 class 4 standard



Gas Circuit Diagram



*The wire's length is 2 meters

PN	Model	Type
1.Y13064	COMPACT10E PNP	PNP
1.Y13279	COMPACT10E NPN	NPN

Technical Data

Description	Unit	Value
Recommended feed pressure	Mpa	0.5
Feed pressure, max.	Mpa	0.7
Temperature range	°C	0-50
Weight*	g	74
Material	-	PA, AL, CuZn, PE, NBR, PC, SS, TPV, FKM,Steel, Glass epoxy
Noise level range of 1-8 vacuum channels	dB	46-60
Connection, compressed air	-	ø6 push-in connector
Connection, vacuum	-	ø6 push-in connector

*) Note! The weight does not include the cables that are included in the shipping.

Compact 10CE Integrated Vacuum Generator

Valve Module

Description	Unit	Value
Valve function	-	NC vacuum normally closed +NC blowing normally closed
Supply voltage	VDC	24 (21.6 – 26.4)
Power	W	3.5
Response time	ms	≤ 3
Electrical connection	-	Supplied cable, Red (+) Black (-)

Vacuum Flow

Feed pressure vacuum pump/nozzle	Air consumption per pump /nozzle	Vacuum flow (NI/s) under different vacuum degrees (-kPa)								Max vacuum
Mpa	NI/s	0	10	20	30	40	50	60	70	-kpa
0.50/0.40	0.23	0.26	0.24	0.19	0.14	0.088	0.063	0.045	0.023	84

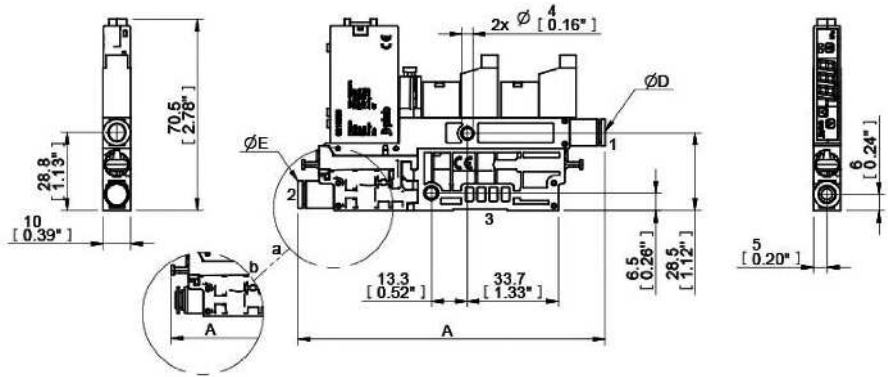
Vacuum Time

Feed pressure vacuum pump/nozzle	Air consumption per pump /nozzle	Pumping time to different vacuum (- kPa)								Max vacuum
Mpa	NI/s	10	20	30	40	50	60	70	80	-kpa
0.50/0.40	0.23	0.40	0.87	1.49	2.38	3.71	5.57	8.52	15.44	84

Vacuum Sensor

Description	Unit	Value
Supply voltage	VDC	12-24 ±10%, Fluctuation P-P 10% or less
Current consumption (with no load)	mA	≤ 40
Switch output	-	NPN
Response time	ms	≤ 2,5
Analog output	VDC	1-5 ±2.5% F.S.
Electrical connection	-	JST PAP-05V

Compact 10CE Integrated Vacuum Generator



Description	Unit	Value
A	mm	113.6
ΦD	mm	Φ6
ΦE	mm	Φ6

Configuration	Value
a	ø6 push-in connector

Ordering Information

Description	Product code
COMPACT10E, ultra high vacuum flow (micro), display screen, analog and digital output, NPN, ø6 push in connector, 1 channel, ø6 push in connector, integrated muffler, NC vacuum normally closed + NC blowing normally closed	C10E.T.BB.6.1.6.EJ.CC

Compact 20CE Vacuum Generator

Vacuum Generator

Configure Piab multistage vacuum generator

valve

Integrated electric vacuum and blow-off valve

Blowing flow control valve

Quick connector

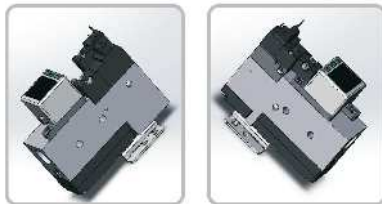
8mm or 10mm quick connector can be configured.

Vacuum sensor

Vacuum sensor with user-friendly interface or reserved vacuum detection port is optional.

Modular design

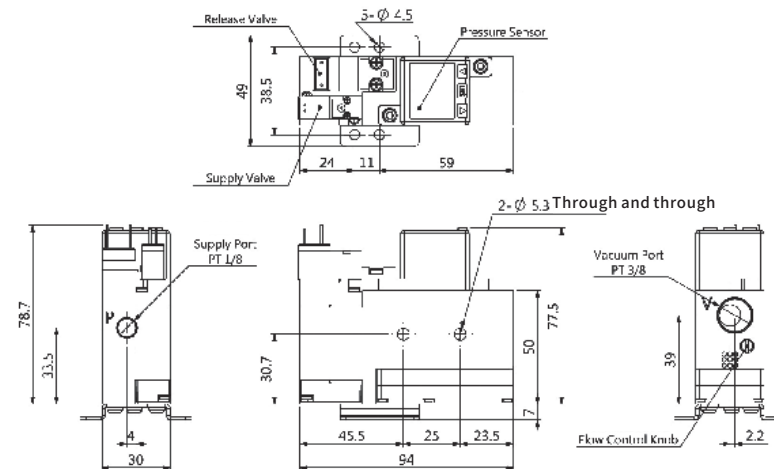
The multistage vacuum generator can be disassembled, cleaned and replaced, and the troubleshooting is simpler.



*The wire's length is 2 meters

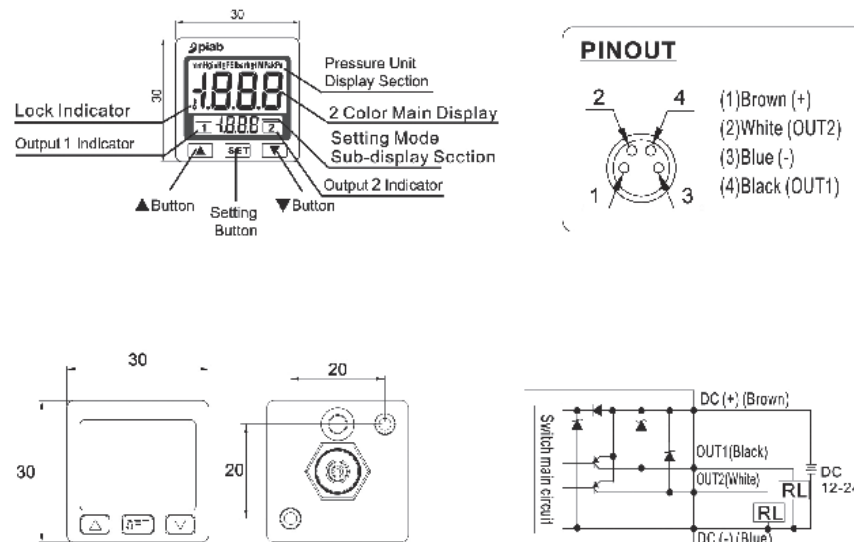
PN	Model	Type
1.Y13062	COMPACT 20CE PNP	PNP
1.Y13063	COMPACT 20CE NPN	NPN

Compact 20CE Vacuum Generator



Compact 20CE technical parameter

Vacuum technology	Multistage vacuum generator
(Mpa) Working air pressure	0.38~0.6
(NL/s) Maximum Vacuum flow	2.4
(-Kpa) Maximum Vacuum level	84
(NL/s) Air consumption	1.5~2.2
(°C) Working temperature	-5~50
(mm) Size	94x78x30
(dBA) Noise level	57-68
Vacuum port size	G3/8"
(g) Net Weight	370
Vacuum Sensor	PNP/NPN
Solenoid Valve	NC/NO
Power consumption	24V±10% VDC,2W

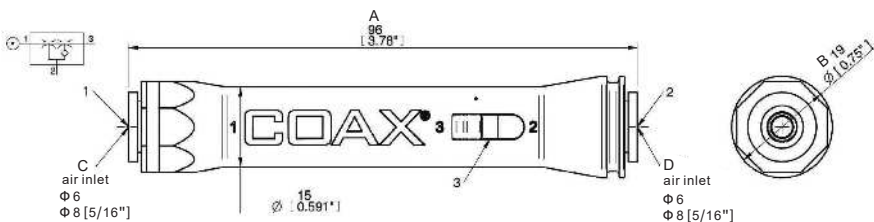


PiINLINE® Vacuum Generator MINI Si

PiINLINE® Vacuum Generator MINI Si



Patented COAX® cartridge technology.
High vacuum flow capacity in relation to energy consumption.
Low weight inline design with push-in fittings for vacuum and compressed air.
Quick and easy installation directly on the hose.
Si cartridge for extra vacuum flow.
Pi cartridge for high performance at low feed pressures.
Xi cartridge when high flow and deep vacuum is needed.



Product Specifications

Model	PiINLINE® vacuum generator MINI Si, 6-6 mm	PiINLINE® vacuum generator MINI Si, 8-8 mm
PN	1.Y13066	1.Y13067
Diameter	19 mm(B)	19 mm(B)
Air inlet diameter	6 mm(C)	8 mm(C)
Air outlet diameter	6 mm(D)	8 mm(D)
Length	96 mm(A)	96 mm(A)

Summary

Product number (optional)	E12842188
Materiel	CuZn, PA, SS, Nitrile rubber
Weight	21.8 g

Performance

Gas consumption	25.7 l/m (.9 scfm) NI/s
Feed pressure, max.	0.7 MPa

Vacuum Flow(NI/s)

Feed pressure	Gas consumption	Vacuum flow(NI/s) @ vacuum (- kPa)								Max vacuum
Mpa	NI/s	0	10	20	30	40	50	60	70	-kPa
0.6	0.44	0.69	0.55	0.42	0.28	0.23	0.16	0.12	0.08	75

Exhaust Time (s/l)

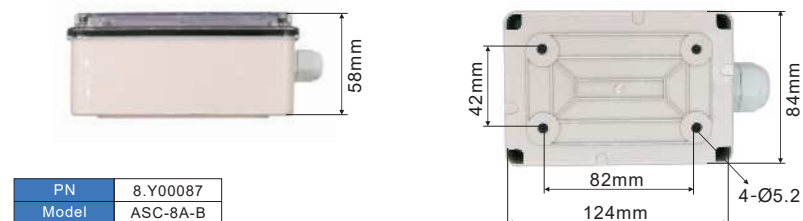
Feed pressure	Gas consumption	Exhaust time (s / L) Vacuum (- kPa)							Max vacuum
Mpa	NI/s	10	20	30	40	50	60	70	-kPa
0.6	0.44	0.16	0.37	0.66	1.1	1.4	2.1	3.1	75

The Values Indicated In The Data Sheet Can Be Tested:

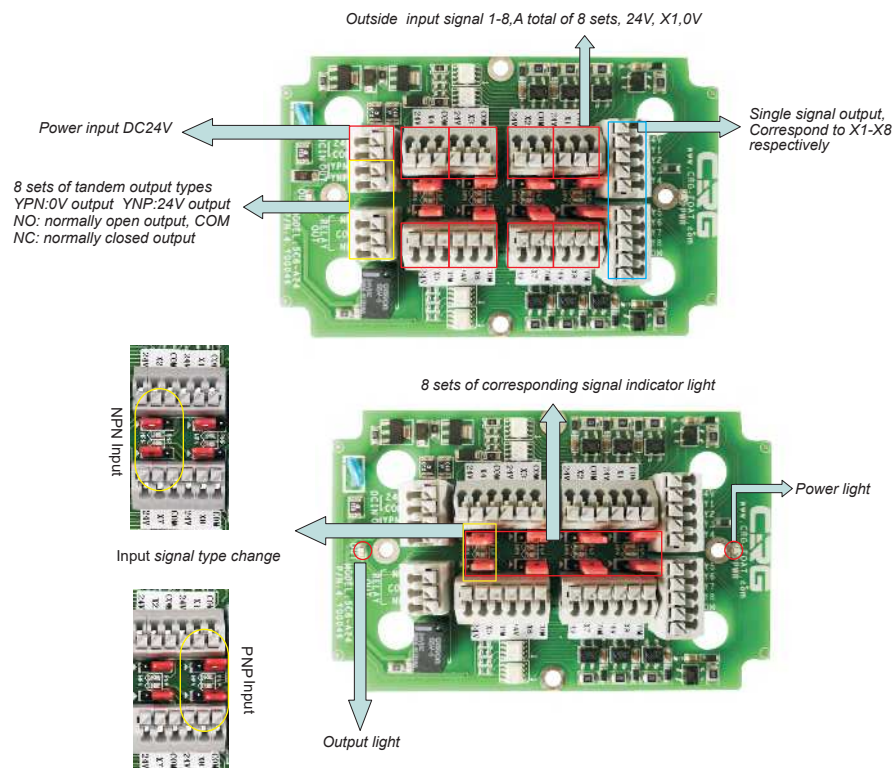
Room temperature	(20 C [68 F] ± 3 C [5.5 F])
Standard atmosphere	(101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg])
Relative humidity	0-100%
Compressed air quality	DIN ISO 8573-1 class 4

I/O Module Signal Boxes

Structure description

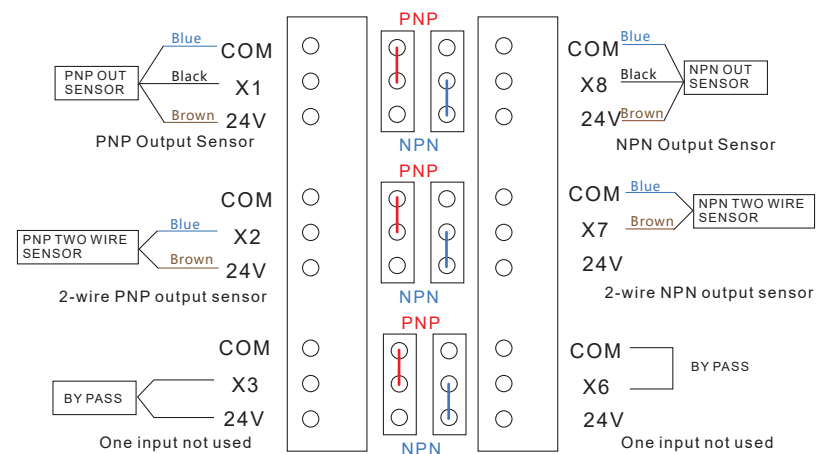


PN	8.Y00087
Model	ASC-8A-B



I/O Module Signal Boxes

Operation description



Electrical parameters

	Minimum	Recommend	Maximum	Unit
supply voltage	20	24	28	V
Value of effective current at input	5	7	10	mA
Transistor Output Maximum Load			100	mA
Relay Output Load Capability (Resistive Load)			0.5A@ 125VAC 1A@24VDC	
Maximum switching frequency		TBD		Hz

Function description

1. To solve the problem that the power supply of multiple sensors is not connected as one line, the problem of space occupation is cancelled. The maximum 8 groups can be used, and less than 8 groups need to be shorted.
2. Output types can be changed at present for NPN, PNP, NC, NO, and four output forms.
3. You can also crawl the signal individually, and grab the signal type for the actual type of sensor.
4. Observe the induction state of each inductor and the status of the output.
5. Types of sensors and output is not available, skipping type conversion, minus the replacement work of the sensor.

Accessory Components

Accessory Components

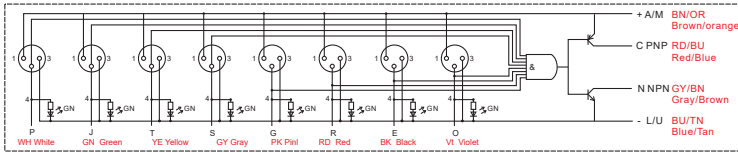
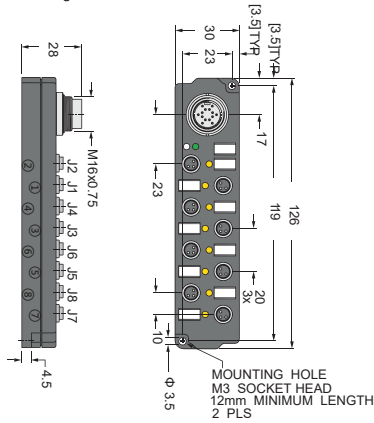
M8 8 Ports Junction Box

Housing material:Nylon/Black
Coupling nut:Brass/Nickel
Contact carrier:TPU/Black
Pin:Brass/Gold

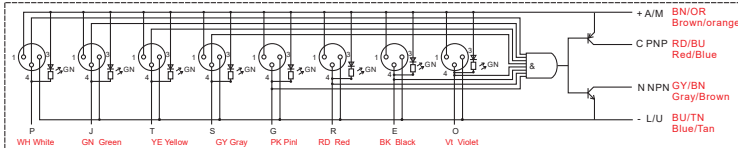
IP degree:IP67
Load:10~30VDC,2 A/port, 6 A total,LED 10mA
Temperature range:-30...+80°C



Single channel PNP or NPN
1 signal per port
LED
M16 vertical connector



AJB8M8-3P-M16



AJB8M8-3N-M16

Joint



14 pins M16 pre-moulding Cable	
PN	1.Y07463
Model	DNLK14-14-2M/P00

* The wire length is 2 meters

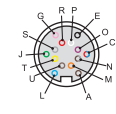


3 pins M8 Field wirable connector	
PN	1.Y06722
Model	M8-M03T



3 pins M8 Field wirable connector	
PN	1.Y13391
Model	M8-M03L

Perforation/Female



A BN	Brown	N.GY/BN	Gray/Brown
C.RD/BU	Red/Blue	O.VT	Purple
E.BK	Black	P.WH	White
G.PK	Pink	R.RD	Red
J.GN	Green	S.GY	Gray
L.BU	Blue	T.YE	Yellow
M.OR	Orange	U.TN	Tan

Product specifications

PN	Model	Type	Weight
4.Y00491	AJB8M8-3P-M16	PNP	120g
4.Y00492	AJB8M8-3N-M16	NPN	120g

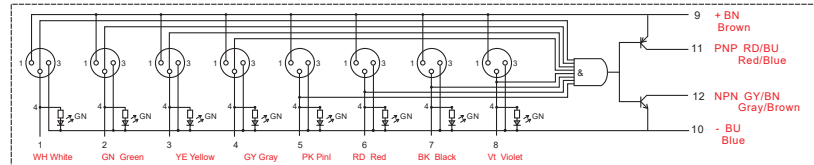
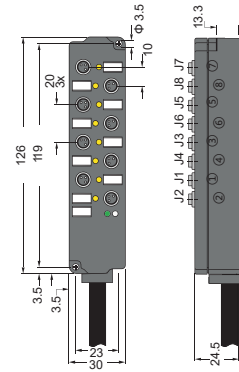
M8 8 Ports Junction Box

Housing material:Nylon/Black
Coupling nut:Brass/Nickel
Contact carrier:TPU/Black
Pin:Brass/Gold

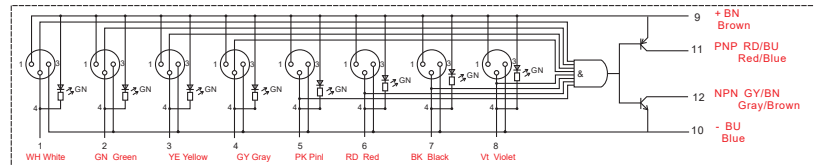
IP degree:IP67
Load:10~30VDC,2 A/port, 6 A total,LED 10mA
Temperature range:-30...+80°C



Single channel PNP or NPN
1 signal per port
LED
Black PVC wire with 10 cores in 2m



AJB8M8-3P-D2



AJB8M8-3N-D2

Joint

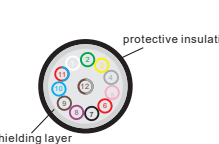


3 pins M8 Field wirable connector	
PN	1.Y06722
Model	M8-M03T



3 pins M8 Field wirable connector	
PN	1.Y13391
Model	M8-M03L

Singal Wire Cross-sectional Sketch Map



1.WH White	7.BK	Black
2.GN Green	8.VT	Purple
3.YE Yellow	9.BN	Brown
4.GY Gray	10.BU	Blue
5.PK Pink	11.RD/BU	Red/Blue
6.RD Red	12.GY/BN	Gray/Brown

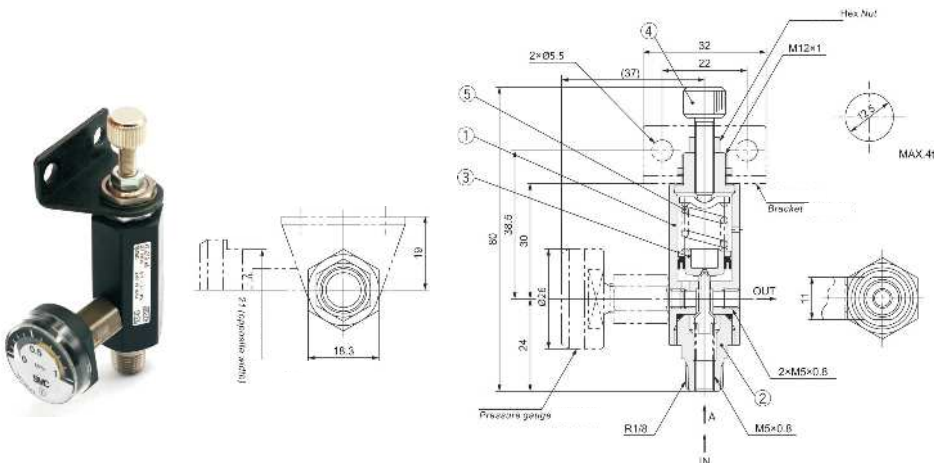
Product specifications

PN	Model	Type	Weight
4.Y00495	AJB8M8-3P-D2	PNP	300g
4.Y00496	AJB8M8-3N-D2	NPN	300g

*The standard length is 2 meters, which can be customized.

Miniature Regulator ARJ210 Series

The body is made of aluminum, lightweight (60g)
IN side pipe connections are made with 1/8 (external thread)
M5 (internal thread) 2 types



PN		1.Y05877
Model		ARJ210-M5BG
Pipe Siz	IN Side	1/8 (F-external thread) or M5×0.8(M-female thread)
	OUT Side	M5×0.8(F-2 female threads)
Fluid		Air
Proof pressure		1.2MPa
Maximum Operating pressure		0.8MPa
Set pressure range		0.2~0.7MPa
		0.2MPa: 0.05~0.2MPa
Pressure gauge connecting caliber		M5×0.8(M-female thread)
Environment and fluid temperature		-5~60°C
(kg) Weight		0.06

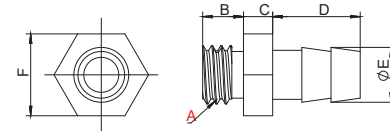
Tube Cutter



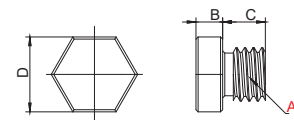
Special tool for cutting copper tube
Ease to use
Improve work efficiency
Durable, high-quality, weight (248g)

PN	1.Y02592
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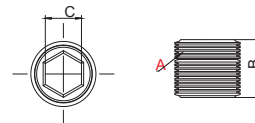
Connector



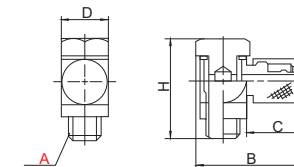
PN	Model	A	B	C	D	E	F	Weight
1.Y03145	APB-M3- Ø 4	M3	4	2	5.5	3.5	4.5	0.6g
1.Y05008	APB-M5- Ø 4	M5	5	2	6.5	3.5	7	1.4g
1.Y01986	APB-M5- Ø 6	M5	4.5	2.5	7	4.8	7	1.7g



PN	Model	A	B	C	D	Weight
1.Y06794	APF-M3	M3	2	3	4.9	0.5g
1.Y02510	APF-M5	M5	2.5	4.5	7	1.4g



PN	Model	A	B	C	Weight
1.Y00462	APF-G18	G1/8	8	5	3.0g
1.Y00463	APF-G14	1/4	9	6	6.2g

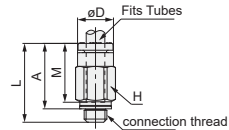


PN	Model	A	B	C	D	H	Weight
1.Y13282	APBL-M3- Ø 4	M3	9.5	4.5	5	9.5	0.8g
1.Y13283	APBL-M5- Ø 4	M5	15.5	8.5	7	15	4.5g
1.Y13284	APBL-M5- Ø 6	M5	17.5	9.5	8	16	6.6g
1.Y13285	APBL-G18- Ø 6	G1/8	20	9	10	21.5	13g

Connector

Kq2 series

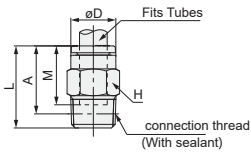
Straight connector :KQ2H(gasket seal)



Fits Tubes Outside diameter (mm)	PN	Model	Connection thread (M)	H (hexagonal)	ØD	L	A	M	Effective cross-sectional area (mm)		Minimum Hole Diameter	Weight
									Nylon	Organosilicon		
ø2	1.Y13101	KQ2H02-M3G	M3×0.5	7	5.5	15.6	13	11.9		0.9	1.2	1.5g
	1.Y13102	KQ2H02-M5A	M5×0.8	7	5.5	13.8	10.8	11.9		0.9	1.4	2g
	1.Y13103	KQ2H23-M3G	M3×0.5	7	6.7	17	14.4	13.3	0.9	0.9	1.2	2.4g
ø3.2	1.Y13104	KQ2H23-M5A	M5×0.8	7	6.7	17.3	14.3	13.3	3	2.5	2.5	2.7g
	1.Y13105	KQ2H04-M3G	M3×0.5	8	7.7	17.1	14.5	13.3	0.9	0.9	1.2	2.9g
	1.Y04451	KQ2H04-M5A	M5×0.8	8	7.7	17.7	14.7	13.3	4	4	2.5	3.3g
ø4	1.Y13106	KQ2H04-M6A	M6×1.0	8	7.7	18.7	14.7	13.3	4	4	3	3.6g
	1.Y04452	KQ2H06-M5A	M5×0.8	10	9.7	17.7	14.7	13.3	4	4	2.5	4.1g
	1.Y13107	KQ2H06-M6A	M6×1.0	10	9.7	18.8	14.8	13.3	4	4	3	4.4g

Kq2 series

Straight connector :KQ2H(sealant)



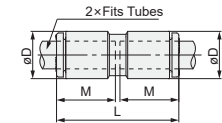
Fits Tubes Outside diameter (mm)	PN	Model	Connection thread (M)	H (hexagonal)	ØD	L	A	M	Effective cross-sectional area (mm)		Minimum Hole Diameter	Weight
									Nylon	Organosilicon		
ø3.2	1.Y13108	KQ2H23-01AS	1/8	10	6.7	14	10.9	13.3	3.4	2.9	2.5	6g
	1.Y13109	KQ2H23-02AS	1/4	14	6.7	16.7	12	13.3	3.4	2.9	2.5	15.3g
	1.Y03599	KQ2H04-01AS	1/8	10	7.7	14.3	11.2	13.3	5.6	4	3	5.6g
ø4	1.Y05147	KQ2H04-02AS	1/4	14	7.7	16.7	12	13.3	5.6	4	3	14.6g
	1.Y13110	KQ2H06-01AS	1/8	10	9.7	18.4	15.3	13.3	13.1	10.4	4.5	5.8g
	1.Y05164	KQ2H06-03AS	1/4	14	9.7	16.7	12	13.3	13.1	10.4	4.5	12.5g
ø6	1.Y05164	KQ2H06-03AS	3/8	17	9.7	18.1	13	13.3	13.1	10.4	4.5	24.5g
	1.Y07162	KQ2H08-01AS	1/8	14	12.2	22.5	19.4	14.2	26.1	18	6	11.9g
	1.Y05101	KQ2H08-02AS	1/4	14	12.2	22	17.3	14.2	26.1	18	6	13.9g
ø8	1.Y02228	KQ2H08-03AS	3/8	17	12.2	18.1	13	14.2	26.1	18	6	21g
	1.Y13111	KQ2H10-01AS	1/8	17	14.6	23.8	20.7	15.6	26.1	26.1	6	16.9g
	1.Y07142	KQ2H10-02AS	1/4	17	14.6	27.3	22.6	15.6	41.5	29.5	7.5	22.1g
ø10	1.Y07632	KQ2H10-03AS	3/8	17	14.6	23.5	18.4	15.6	41.5	29.5	7.5	22.5g
	1.Y13112	KQ2H10-04AS	1/2	22	14.6	22.3	15.9	15.6	41.5	29.5	7.5	44.7g
ø12	1.Y13113	KQ2H12-02AS	1/4	19	17	28.7	24	17	58.3	46.1	9	24.3g
	1.Y13114	KQ2H12-03AS	3/8	19	17	25.9	20.8	17	58.3	46.1	9	25.2g
	1.Y13115	KQ2H12-04AS	1/2	22	17	22.3	15.9	17	58.3	46.1	9	37.7g
ø16	1.Y13116	KQ2H16-02AS	1/4	24	21.8	32.5	27.8	20.6	58.3	46.1	9	37.4g
	1.Y13117	KQ2H16-03AS	3/8	24	21.8	33.1	28	20.6	81	67	11	42.4g
	1.Y13118	KQ2H16-04AS	1/2	24	21.8	32.1	25.7	20.6	113	67	13	44.6g

※ R reference dimension of R thread after screwing in

Connector

Kq2 series

Straight joint : KQ2H

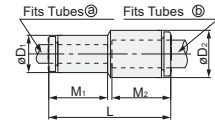


Fits Tubes Outside diameter (mm)	PN	Model	ØD*	L	M	Effective cross-sectional area (mm)		Minimum Hole Diameter	Weight
						Nylon	Organosilicon		
ø2	1.Y13119	KQ2H02-00A	5.8	24.8	11.9	-	0.9	1.4	0.8g
ø3.2	1.Y13120	KQ2H23-00A	7.1	27.6	13.3	3.4	2.9	2.5	1.4g
ø4	1.Y13121	KQ2H04-00A	8.2	27.6	13.3	5.6	4	3	1.6g
ø6	1.Y13122	KQ2H06-00A	10.4	27.6	13.3	13.1	10.4	4.5	2.1g
ø8	1.Y13123	KQ2H08-00A	13.2	29.4	14.2	26.1	18	6	3.7g
ø10	1.Y13124	KQ2H10-00A	15.9	32.2	15.6	41.5	29.5	7.5	5.5g
ø12	1.Y13125	KQ2H12-00A	18.5	35	17	58.3	46.1	9	8.2g
ø16	1.Y13126	KQ2H16-00A	23.8	42.2	20.6	113	67	13	15.2g

* ØD are maximum diameters.

Kq2 series

Special type through connection: KQ2H

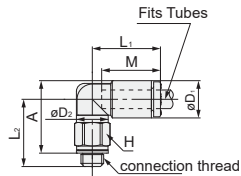


Fits Tubes Outside diameter (mm)		PN	Model	ØD ₁ *	ØD ₂ *	L	M ₁	M ₂	Effective cross-sectional area (mm)		Minimum Hole Diameter	Weight
①	②								Nylon	Organosilicon		
ø2	ø3.2	1.Y13127	KQ2H02-23A	5.8	7.1	26.2	11.9	13.3	-	0.9	1.4	1.1g
ø2	ø4	1.Y13128	KQ2H02-04A	5.8	8.2	26.2	11.9	13.3	-	0.9	1.4	1.2g
ø3.2	ø4	1.Y13129	KQ2H23-04A	7.1	8.2	27.6	13.3	13.3	3.4	2.9	2.5	1.5g
ø3.2	ø6	1.Y13130	KQ2H23-06A	7.1	10.4	27.6	13.3	13.3	3.4	2.9	2.5	1.8g
ø4	ø6	1.Y13131	KQ2H04-06A	8.2	10.4	27.6	13.3	13.3	5.6	5.6	3	2g
ø6	ø8	1.Y13132	KQ2H06-08A	10.4	13.2	28.5	13.3	14.2	13.1	10.4	4.5	2.9g
ø8	ø10	1.Y13133	KQ2H08-10A	13.2	15.9	30.8	14.2	15.6	26.1	18	6	4.9g
ø10	ø12	1.Y13134	KQ2H10-12A	15.9	18.5	33.6	15.6	17	41.5	29.5	7.5	7.2g
ø12	ø16	1.Y13135	KQ2H12-16A	18.5	23.8	38.6	17	20.6	58.3	46.1	9	12.4g

* ØD₁、ØD₂ are maximum diameters.

Connector

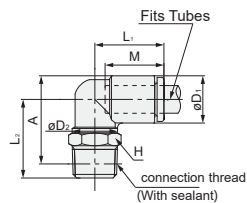
Kq2 series Elbow : KQ2L(gasket seal)



Fits Tubes Outside diameter (mm)	PN	Model	Connection thread (M)	H (hexagonal)	øD*	øD.	L1	L2	A	M	Effective cross-sectional area (mm)		Minimum Hole Diameter	Weight
											Nylon	Organosilicon		
ø2	1.Y13136	KQ2L02-M3G	M3×0.5	5.5	5.8	5.5	12.6	12.5	12.8	11.9	-	0.8	1.2	1.6g
	1.Y13137	KQ2L02-M5A	M5×0.8	7	5.8	5.5	12.6	13	12.9	11.9	-	0.8	1.4	2.7g
ø3.2	1.Y13138	KQ2L23-M3G	M3×0.5	7	7.1	7	15.3	13.8	14.8	13.3	13.3	0.8	1.2	2.7g
	1.Y13139	KQ2L23-M5A	M5×0.8	7	7.1	7	15.3	14.3	14.9	13.3	13.3	2.2	2.5	3.1g
ø4	1.Y13140	KQ2L04-M3G	M3×0.5	7	8.2	7	15.4	14.3	15.8	13.3	13.3	0.8	1.2	2.7g
	1.Y02599	KQ2L04-M5A	M5×0.8	7	8.2	7	15.4	14.8	15.9	13.3	13.3	3.5	2.5	3.1g
	1.Y13141	KQ2L04-M6A	M6×1.0	8	8.2	7	15.4	15.8	15.9	13.3	13.3	3.5	2.5	4.2g
ø6	1.Y02345	KQ2L06-M5A	M5×0.8	7	10.4	7	14.5	16.5	18.7	13.3	13.3	3.5	2.5	3.2g
	1.Y13142	KQ2L06-M6A	M6×1.0	8	10.4	7	14.5	17.5	18.7	13.3	13.3	3.5	2.5	4.3g

* øD. are maximum diameters.

Kq2 series Elbow:KQ2L(sealant)



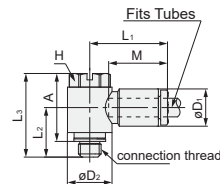
Fits Tubes Outside diameter (mm)	PN	Model	Connection thread (M)	H (hexagonal)	øD*	øD.	L1	L2	A	M	Effective cross-sectional area (mm)		Minimum Hole Diameter	Weight
											Nylon	Organosilicon		
ø3.2	1.Y13143	KQ2L23-01AS	1/8	10	7.1	10	14.5	16.7	17.2	13.3	3	2.5	2.5	4.6g
	1.Y13144	KQ2L23-02AS	1/4	14	7.1	10	14.5	21.2	20.1	13.3	3	2.5	2.5	14.1g
ø4	1.Y05151	KQ2L04-01AS	1/8	10	8.2	10	14.8	16.2	17.2	13.3	4.2	4.2	3	4.8g
	1.Y05751	KQ2L04-02AS	1/4	14	8.2	10	14.8	21.7	21.1	13.3	4.2	4.2	3	14.3g
ø6	1.Y02343	KQ2L06-01AS	1/8	10	10.4	10	15.5	17.3	19.4	13.3	11.4	9	4.5	5.2g
	1.Y11935	KQ2L06-02AS	1/4	14	10.4	10	15.5	22.8	23.3	13.3	11.4	9	4.5	14.7g
	1.Y10180	KQ2L06-03AS	3/8	17	10.4	10	15.5	24.1	24.2	13.3	11.4	9	4.5	26.5g
ø8	1.Y07560	KQ2L08-01AS	1/8	10	13.2	10	16.4	18.7	22.2	14.2	11.4	11.4	4.5	6.1g
	1.Y04922	KQ2L08-02AS	1/4	14	13.2	12	17.2	25.4	27.3	14.2	21.6	14.9	6	17.7g
	1.Y05070	KQ2L08-03AS	3/8	17	13.2	12	17.2	25.5	27.0	14.2	21.6	14.9	6	24.7g
ø10	1.Y13145	KQ2L10-01AS	1/8	12	15.9	12	18.6	23.6	28.4	15.6	21.6	14.9	6	11.1g
	1.Y06994	KQ2L10-02AS	1/4	17	15.9	17	19.3	28.7	31.9	15.6	35.2	25	7.5	21.7g
	1.Y08074	KQ2L10-03AS	3/8	17	15.9	17	19.3	29.6	32.4	15.6	35.2	25	7.5	22.2g
ø12	1.Y13146	KQ2L12-01AS	1/2	22	15.9	17	19.3	33.6	35.1	15.6	35.2	25	7.5	44.6g
	1.Y13147	KQ2L12-02AS	1/4	17	18.5	17	21.5	30.0	34.5	17	50.2	39.7	9	23.5g
	1.Y13148	KQ2L12-03AS	3/8	17	18.5	17	21.5	30.9	35.0	17	50.2	39.7	9	24.1g
ø16	1.Y13149	KQ2L16-01AS	1/2	22	18.5	17	21.5	34.9	37.7	17	50.2	39.7	9	46.5g
	1.Y13150	KQ2L16-02AS	1/4	17	23.8	17	25.1	32.6	39.8	20.6	50.2	50.2	9	27.8g
	1.Y13151	KQ2L16-03AS	3/8	22	23.8	21	27.1	35.4	42.2	20.6	71	58.9	11	40.8g
	1.Y13152	KQ2L16-04AS	1/2	22	23.8	21	27.1	34.1	39.6	20.6	100	58.9	13	44.5g

※ R reference dimension of R thread after screwing in

* øD. are maximum diameters.

Connector

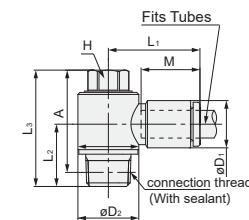
Kq2 series Universal elbow :KQ2V(gasket seal)



Fits Tubes Outside diameter (mm)	PN	Model	Connection thread (M)	H (hexagonal)	øD*	øD.	L1	L2	L3	A	M	Effective cross-sectional area (mm)		Minimum Hole Diameter	Weight
												Nylon	Organosilicon		
ø4	1.Y13153	KQ2V04-M5A	M5×0.8	8	8.2	9.8	17.5	10.9	18.4	14.9	13.3	2.9	2.9	2.5	5.4g
ø6	1.Y13154	KQ2V06-M5A	M5×0.8	8	10.4	9.8	18.3	10.9	18.4	14.9	13.3	3.8	3.8	2.5	5.7g

* øD. are maximum diameters.

Kq2 series Universal elbow:KQ2V(sealant)



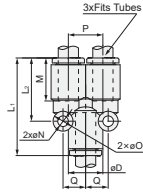
Fits Tubes Outside diameter (mm)	PN	Model	Connection thread (M)	H (hexagonal)	øD*	øD.	L1	L2	L3	A	M	Effective cross-sectional area (mm)		Minimum Hole Diameter	Weight
												Nylon	Organosilicon		
ø4	1.Y13155	KQ2V04-01AS	1/8	8	8.2	13.4	19.3	13.7	25.6	22.5	13.3	2.9	2.9	3	13.2g
ø6	1.Y13156	KQ2V06-01AS	1/8	8	10.4	13.4	20.5	13.7	25.6	22.5	13.3	7.5	5.9	4.5	13.5g
	1.Y13158	KQ2V06-02AS	1/4	10	10.4	15.3	19.9	17.9	30.5	25.8	13.3	7.5	5.9	4.5	24.9g
ø8	1.Y13159	KQ2V08-01AS	1/8	12	13.2	17.6	23.5	15.1	27.6	24.5	14.2	16	11.2	6	22.6g
	1.Y13157	KQ2V08-02AS	1/4	12	13.2	17.6	23.5	18.5	31	26.3	14.2	16	11.2	6	29.1g
	1.Y13160	KQ2V08-03AS	3/8	14	13.2	20.6	23.1	19.5	35.3	30.2	14.2	16	11.2	6	44.4g
ø10	1.Y13161	KQ2V10-02AS	1/4	14	15.9	20.6	25.9	19.9	34.9	30.2	15.6	27	20.3	7.5	38.1g
	1.Y13162	KQ2V10-03AS	3/8	14	15.9	20.6	25.9	20.3	35.3	30.2	15.6	27	20.3	7.5	45.7g
ø12	1.Y13163	KQ2V12-03AS	3/8	17	18.5	25.2	28.5	21.4	37.6	32.5	17	39	30.8	9	59.6g
	1.Y13164	KQ2V12-04AS	1/2	17	18.5	25.2	28.5	24.6	40.8	34.4	17	39	30.8	9	78.2g
ø16	1.Y13165	KQ2V16-03AS	3/8	21	23.8	32.3	34.2	25.1	45.4	40.3	20.6	55	46	11	99.5g
	1.Y13166	KQ2V16-04AS	1/2	21	23.8	32.3	34.2	28.3	48.6	42.2	20.6	78	46	13	107.9g

※ R reference dimension of R thread after screwing in

* øD. are maximum diameters.

Connector

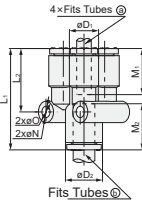
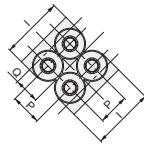
Kq2 series Y-shaped connection :KQ2U



Fits Tubes Outside diameter (mm)	PN	Model	øD*	L1	L2	P	M	Q	øO	øN	Effective cross-sectional area (mm)		Minimum Hole Diameter	Weight
											Nylon	Organosilicon		
ø2	1.Y13205	KQ2U02-00A	5.8	25.8	16.1	5.8	11.9	4.5	6	3.2	-	0.9	1.2	1.4g
ø3.2	1.Y13206	KQ2U03-00A	7.1	28.9	18	7.1	13.3	5.2	6	3.2	3.4	2.9	2.5	2.3g
ø4	1.Y02601	KQ2U04-00A	8.2	29	18.2	8.2	13.3	5.7	6	3.2	4.2	4.2	3	2.8g
ø6	1.Y02600	KQ2U06-00A	10.4	30.1	19.4	10.4	13.3	6.8	6	3.2	13.4	10.6	4.5	3.8g
ø8	1.Y03078	KQ2U08-00A	13.2	33.2	22.3	13.2	14.2	8.7	8	4.2	25.6	17.7	6	7g
ø10	1.Y13207	KQ2U10-00A	15.9	37.1	25	15.9	15.6	10.1	8	4.2	40	28.4	7.5	11g
ø12	1.Y13208	KQ2U12-00A	18.5	41.1	27.8	18.5	17	11.4	8	4.2	57.4	45.4	9	15.7g
ø16	1.Y13209	KQ2U16-00A	23.8	51.5	35	23.8	20.6	14	8	4.2	113	60	13	29.8g

* øD are maximum diameters.

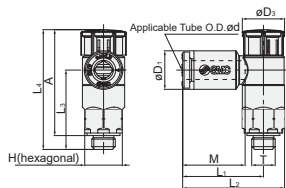
Kq2 series Reducing four pipe Y-shaped connection :KQ2UD



Fits Tubes Outside diameter (mm)		PN	Model	øD*	øD2	L ₁	L ₂	P	I	M ₁	M ₂	Q	øO	øN	Effective cross-sectional area (mm)		Minimum Hole Diameter	Weight
⌀	⌀														Nylon	Organosilicon		
ø4	ø6	1.Y06909	KQ2UD04-06A	8.2	10.4	29.2	18.2	8.2	16.6	13.3	13.3	6.8	6	3.2	4.2	4.2	3	5.4g
ø6	ø8	1.Y08529	KQ2UD06-08A	10.4	13.2	32	20.5	10.4	21	13.3	14.2	8.2	6	3.2	13.4	10.6	4.5	8.1g

* øD1, øD2 are maximum diameters.

Asseries Elbow type throttle valve



ød	Model	T	H	ØD1	ØD2	L1	L2	L3	L4 ⁽¹⁾		A ⁽²⁾		M	Intake throttle (PN)	Exhaust throttling (PN)	Weight
									release	lock	release	lock				
ø2	As12□1F-M5-02A	M5x0.8	8	5.8	9.4	15.8	20.3	16.9	26.5	25.4	23.5	22.4	11.9	1.Y13218	1.Y13222	5g
ø3.2	As12□1F-M5-23A	M5x0.8	8	7.2	9.4	17.2	21.7	16.9	26.5	25.4	23.5	22.4	13.3	1.Y13219	1.Y13223	5g
ø4	As12□1F-M5-04A	M5x0.8	8	8.2	9.4	17.2	21.7	16.9	26.5	25.4	23.5	22.4	13.3	1.Y13220	1.Y13224	5g
ø6	As12□1F-M5-06A	M5x0.8	8	10.4	9.4	18.6	23.1	16.5	26.5	25.4	23.5	22.4	13.3	1.Y13221	1.Y03830	6g

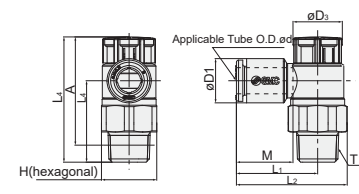
□Symbol/0 exhaust throttling, 1 intake throttling

(1)Reference Size

(2)Reference dimension of R thread after screwing in

Connector

Asseries Elbow type throttle valve(sealant)



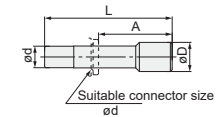
ød	Model	T	H	ØD1	ØD2	L1	L2	L3	L4 ⁽¹⁾		A ⁽²⁾		M	Intake throttle (PN)	Exhaust throttling (PN)	Weight
									release	lock	release	lock				
ø3.2	AS22□1F-01-23SA	1/8	13	7.2	12	19.1	26.2	19.1	30.6	29.2	27.5	26.1	13.3	1.Y13225	1.Y13246	9g
ø4	AS22□1F-01-04SA	1/8	13	8.2	12	19.1	26.2	19.1	30.6	29.2	27.5	26.1	13.3	1.Y13226	1.Y13247	9g
ø6	AS22□1F-01-06SA	1/8	13	10.4	12	19.1	26.2	19.1	30.6	29.2	27.5	26.1	13.3	1.Y13227	1.Y05040	10g
ø8	AS22□1F-01-08SA	1/8	13	13.2	12	22.4	29.5	19.1	30.6	29.2	27.5	26.1	14.2	1.Y13228	1.Y13248	11g
ø10	AS22□1F-01-10SA	1/8	13	15.9	12	25.3	32.4	19.1	30.6	29.2	27.5	26.1	15.6	1.Y13229	1.Y13249	12g
ø3.2	AS22□1F-02-23SA	1/4	17	7.2	13	20.9	30.2	22.6	36.6	35	31.1	29.5	13.3	1.Y13230	1.Y13250	18g
ø4	AS22□1F-02-04SA	1/4	17	8.2	13	20.9	30.2	22.6	36.6	35	31.1	29.5	13.3	1.Y13231	1.Y13251	18g
ø6	AS22□1F-02-06SA	1/4	17	10.4	13	23.4	32.7	22.6	36.6	35	31.1	29.5	13.3	1.Y13232	1.Y06906	18g
ø8	AS22□1F-02-08SA	1/4	17	13.2	13	23.9	33.2	22.6	36.6	35	31.1	29.5	14.2	1.Y13233	1.Y08260	19g
ø10	AS22□1F-02-10SA	1/4	17	15.9	13	26.9	36.2	22.6	36.6	35	31.1	29.5	15.6	1.Y13234	1.Y13252	20g
ø6	AS32□1F-02-06SA	1/4	19	10.4	16.6	21.8	32.1	36.4	50	48.4	44.5	42.9	13.3	1.Y13235	1.Y13253	40g
ø8	AS32□1F-02-08SA	1/4	19	13.2	16.6	22.7	33	36.4	50	48.4	44.5	42.9	14.2	1.Y13236	1.Y13254	41g
ø10	AS32□1F-02-10SA	1/4	19	15.9	16.6	26.7	37	35.7	50	48.4	44.5	42.9	15.6	1.Y13237	1.Y13255	42g
ø12	AS32□1F-02-12SA	1/4	19	18.5	16.6	29.7	40	34.5	50	48.4	44.5	42.9	17	1.Y13238	1.Y13256	43g
ø6	AS32□1F-03-06SA	3/8	19	10.4	16.6	21.8	32.1	28.7	42.3	40.7	37.1	35.5	13.3	1.Y13239	1.Y13257	31g
ø8	AS32□1F-03-08SA	3/8	19	13.2	16.6	22.7	33	28.7	42.3	40.7	37.1	35.5	14.2	1.Y13240	1.Y13258	31g
ø10	AS32□1F-03-10SA	3/8	19	15.9	16.6	26.7	37	28	42.3	40.7	37.1	35.5	15.6	1.Y13241	1.Y13259	32g
ø12	AS32□1F-03-12SA	3/8	19	18.5	16.6	29.7	40	26.8	42.3	40.7	37.1	35.5	17	1.Y13242	1.Y13260	34g
ø10	AS42□1F-04-10SA	1/2	24	15.9	18.8	27.4	40.3	36.2	50.8	49.2	43.7	42.1	15.6	1.Y13243	1.Y13261	54g
ø12	AS42□1F-04-12SA	1/2	24	18.5	18.8	30.8	43.7	35.1	50.8	49.2	43.7	42.1	17	1.Y13244	1.Y13262	56g
ø16	AS42□1F-04-16SA	1/2	24	23.8	18.8	34.8	47.7	32.7	50.8	49.2	43.7	42.1	20.6	1.Y13245	1.Y13263	60g

□Symbol/0 exhaust throttling, 1 intake throttling

(1)Reference Size

(2)Reference dimension of R thread after screwing in

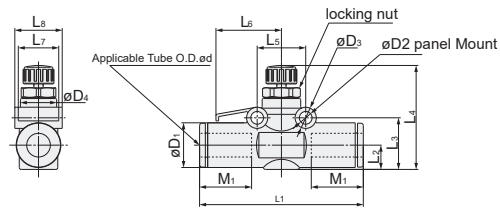
Kq2 series Plug :KQ2P



Fits Tubes Outside diameter (mm)	PN	Model	øD*	L	A	Weight
ø2	1.Y13210	KJP-02	3	17	10.4	0.1g
ø3.2	1.Y13211	KQ2P-23	5	31.5	18.2	1g
ø4	1.Y13212	KQ2P-04	6	32	18.7	1g
ø6	1.Y13213	KQ2P-06	8	35	21.7	1g
ø8	1.Y13214	KQ2P-08	10	39	24.8	2g
ø10	1.Y13215	KQ2P-10	12	43	27.4	3.5g
ø12	1.Y13216	KQ2P-12	14	45.5	28.5	5g
ø16	1.Y13217	KQ2P-16	20.9	47	26.4	8g

Connector

Asseries Straight-through throttle valve



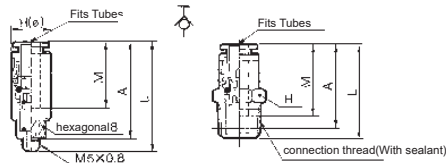
ød	PN	Model	ØD ₁	ØD ₂	ØD ₃	ØD ₄	L ₁	L ₂	L ₃	L ₄ ⁽¹⁾		L ₅	L ₆	L ₇	L ₈	M ₁	Weight
										MAX.	MIX.						
ø2	1.Y13264	AS1002F-02	6	3.2	5	6	25.4	3.4	7.9	20.9	18.4	11	9.8	5	6.7	8.8	3g
ø3.2	1.Y13265	AS1002F-23	8.4	3.3	5.5	9.1	36	4.4	11.1	23.8	21	11	15.4	8.8	9.8	12.7	5g
ø4	1.Y04457	AS1002F-04	9.3	3.3	5.5	9.1	37	5.1	11.8	24.5	21.7	11	15.4	8.8	10.1	12.7	5.5g
ø6	1.Y04777	AS1002F-06	11.6	3.3	5.5	9.1	39.5	6.1	12.8	25.5	22.7	11	15.4	8.8	12.3	13.5	6.5g
ø4	1.Y13266	AS2002F-04	9.3	3.3	5.5	10	40.7	5.2	12.3	28.9	25.4	12.6	17	10.5	11.5	12.7	8.5g
ø6	1.Y13267	AS2002F-06	11.6	3.3	5.5	10	42.5	6.3	13.4	30	26.5	12.6	17	10.5	12.3	13.5	9.5g
ø6	1.Y13268	AS2052F-06	12.8	4.3	7.8	14	53.2	6.7	16.3	34.5	29.5	17	22.8	12	15.7	17	19g
ø8	1.Y13269	AS2052F-08	15.2	4.3	7.8	14	57.2	8	17.6	35.8	30.8	17	22.8	12	16.1	18	22g
ø6	1.Y13270	AS3002F-06	13.2	4.3	8	19.3	59	7.4	19.3	38.6	33.6	22	25	12	20.5	17	36g
ø8	1.Y13271	AS3002F-08	15.2	4.3	8	19.3	65	8.2	20.1	39.4	34.4	22	25	12	20.5	18	38g
ø10	1.Y13272	AS3002F-10	18.5	4.3	8	19.3	70.8	9.8	21.7	41	36	22	25	12	20.5	21	42g
ø12	1.Y13273	AS3002F-12	20.9	4.3	8	19.3	76	10.9	22.8	42.1	37.1	22	25	12	22.1	22	44g
ø10	1.Y13274	AS4002F-10	18.5	4.3	8	25	76.9	10.3	22.7	51.6	44.1	28	33	14	26.2	21	76g
ø12	1.Y13275	AS4002F-12	21.7	4.3	8	25	81.3	11.3	23.7	52.6	45.1	28	33	14	26.2	22	82g

□Symbol/0 exhaust throttling, 1 intake throttling

(1)Reference Size

(2)Reference dimension of R thread after screwing in

KC series Straight joint :KCH



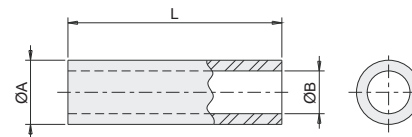
<Occasions for M5> <Occasions for R>

Fits Tubes Outside diameter (mm)	PN	Model	Connection thread (M)	H (hexagonal)	L	A	M	Effective cross-sectional area (mm)		Weight
								Nylon	Organosilicon	
ø4	1.Y03525	KCH04-M5	M5×0.8	9.8	30.8	27.3	18	2.1	2.1	8g
	1.Y13286	KCH04-01S	1/8	10	26.1	22.1	18	2.6	2.6	8g
ø6	1.Y03524	KCH06-M5	M5×0.8	11.8	32.4	28.9	19.5	2.4	2.4	10g
	1.Y13287	KCH06-01S	1/8	12	37.5	33.4	19	6.8	6.8	16g
ø8	1.Y13288	KCH08-01S	1/8	14	42.4	38.4	21.5	16.2	13.1	20g

※ R reference dimension of R thread after screwing in

Hoses

Polyurethane hose for compressed air suitable for use with push-in fittings.



Technical characteristics
T = -15~+60°C
P = 0.8MPa



* Each box is 100 meters in length.

PN	Model	Colour	A [mm]	B [mm]	L [m]	Lm [g/m]
1.Y00824	AH4B	Black	4	2.5	100	9g
1.Y03687	AH4BU	Blue	4	2.5	100	9g
1.Y00823	AH4G	Green	4	2.5	100	9g
1.Y03686	AH4T	Transparent	4	2.5	100	9g
1.Y00821	AH4Y	Yellow	4	2.5	100	9g
1.Y00822	AH4R	Red	4	2.5	100	9g
1.Y05661	AH4O	Orange	4	2.5	100	9g
1.Y00830	AH6B	Black	6	4	100	19g
1.Y00829	AH6BU	Blue	6	4	100	19g
1.Y00825	AH6G	Green	6	4	100	19g
1.Y00827	AH6T	Transparent	6	4	100	19g
1.Y00828	AH6Y	Yellow	6	4	100	19g
1.Y00826	AH6R	Red	6	4	100	19g
1.Y04640	AH6O	Orange	6	4	100	19g
1.Y04478	AH8B	Black	8	5	100	36g
1.Y00831	AH8BU	Blue	8	5	100	36g
1.Y04476	AH10B	Black	10	6.5	100	54g
1.Y05660	AH10BU	Blue	10	6.5	100	54g

A [Outer diameter]

B [Inner diameter]

L [Length]

Lm [Linear mass]

P [Operating pressure range]

T [Operating temperature range]



Index

Model	PN	Page
Profile, SUS Tube		
PST8-1500	4.Y00040	1
PST12-1500	4.Y00021	1
PST20-1500	4.Y00022	1
PAT20-1000	4.Y00468	1
PAT20-2000	4.Y10972	1
PAT30-1000	4.Y00469	1
PAT30-2000	4.Y10973	1
PAT25-1000	4.Y10950	1
PAT25-2000	4.Y10974	1
PAT40-1000	4.Y10538	1
PAT40-2000	4.Y10975	1
PCT8-1000	4.Y10960	2
PCT8-2000	4.Y10961	2
PCT12-1000	4.Y10962	2
PCT12-2000	4.Y10963	2
PCT20-1000	4.Y10964	2
PCT20-2000	4.Y10965	2
PCT25-1000	4.Y10966	2
PCT25-2000	4.Y10967	2
PCT30-1000	4.Y10968	2
PCT40-2000	4.Y10969	2
PCT40-1000	4.Y10970	2
PCT40-2000	4.Y10971	2
P08RD	1.Y03375	2
P12GY	1.Y03636	2
P12BU	1.Y03638	2
P12BK	1.Y03640	2
P20GY	1.Y03637	2
P20BU	1.Y03639	2
P20BK	1.Y03641	2
P30BK	1.Y20001	2
P25BK	1.Y10988	2
P40BK	1.Y10987	2
PEP1818-1000	4.Y00075	3
PEP2510-1000	4.Y00076	3
PEP2518-1000	4.Y00455	3
PEP2525-1000	4.Y00050	3
PEP2525-2000	4.Y00051	3
PEP5025-1000	4.Y00056	3
PEP5025-2000	4.Y00057	3
PEP4040-1000	4.Y00052	3
PEP4040-2000	4.Y00053	3
PEP3030-1000	4.Y00540	3
PEP3030-2000	4.Y00541	3
PEP-3636-1000	4.Y00054	4
PEP-3636-1500	4.Y00484	4
PEP-3636-2000	4.Y00055	4
P3636	4.Y00073	4
PTN-M4	7.Y00651	5
PTN-M5	7.Y00425	5
PTN-M6	7.Y00652	5
PTN-M4P8	7.Y00653	5
PTN-M5P10	7.Y00654	5
PTN-M5P15	7.Y00655	5
PTN-M5P17	7.Y00656	5
PTN-M5P22	7.Y00657	5
PTN-M5P25	7.Y00658	5
PTN-M5P28	7.Y00659	5
PTN-M5P30	7.Y00660	5
PTN-M5P35	7.Y00661	5
PTN-M5P40	7.Y00662	5
PTN-M5P50	7.Y00663	5
PTN-M5P60	7.Y00664	5
PTN-M5P90	7.Y00665	5
PTN-M5R	7.Y00805	6
PTC-M4L10	1.Y03908	7

Model	PN	Page
PTC-M4L12	1.Y03848	7
PTC-M4L14	1.Y02752	7
PTC-M4L16	1.Y04073	7
PTC-M4L18	1.Y05846	7
PTC-M4L20	1.Y04000	7
PTC-M4L22	1.Y06307	7
PTC-M4L25	1.Y05319	7
PTC-M5L10	1.Y04294	7
PTC-M5L12	1.Y03850	7
PTC-M5L14	1.Y04528	7
PTC-M5L16	1.Y03849	7
PTC-M5L18	1.Y05925	7
PTC-M5L20	1.Y03909	7
PTC-M5L22	1.Y06257	7
PTC-M5L25	1.Y03851	7
PTC-M5L30	1.Y04469	7
PTC-M5L35	1.Y04580	7
PTC-M5L40	1.Y04898	7
PTC-M5L50	1.Y04968	7
PTC-M5L60	1.Y05391	7
PTC-M6L10	1.Y04288	7
PTC-M6L12	1.Y03910	7
PTC-M6L14	1.Y04153	7
PTC-M6L16	1.Y02753	7
PTC-M6L18	1.Y07729	7
PTC-M6L20	1.Y04076	7
PTC-M6L25	1.Y06227	7
PTC-M6L30	1.Y04001	7
PTC-M6L35	1.Y03911	7
PTS-M4	1.Y03853	8
PTS-M5	1.Y03852	8
PTS-M6	1.Y03854	8
PTD-M4P8	4.Y00522	8
PTD-M5P10	4.Y00523	8
PTD-M5P15	4.Y00524	8
PTD-M5P17	4.Y00525	8
PTD-M5P22	4.Y00526	8
PTD-M5P25	4.Y00527	8
Tents Module		
SFP-S2550	7.Y00641	9
SFP-S25100	7.Y00642	9
SFP-S40160	7.Y00643	9
SFP-L2550	7.Y00647	10
SFP-L2575	7.Y00648	10
SFP-L40120	7.Y00649	10
SFP-T2550	7.Y00644	11
SFP-T25100	7.Y00645	11
SFP-T40120	7.Y00646	11
SFP-A60	7.Y00637	12
SFP-A90	7.Y00638	12
SFP-A70	7.Y00639	12
SFP-A50	7.Y00640	13
SFP-50	7.Y00636	14
SMBA-1818	7.Y00290	15
SMBA-1825	7.Y00291	15
SMBA-2020	7.Y00245	15
SMBA-2525	7.Y00194	15
SMBA-3030	7.Y00193	15
SMBA-5050	7.Y00011	15
SMBA-2550	7.Y00292	15
SMBA-4040	7.Y00246	15
SMBA-8080	7.Y00355	15
SMBA-4080	7.Y00293	15
SMBA-2580	7.Y00294	15
SMBA-2540	7.Y00356	15
SMBA-3025	7.Y00690	15
SMBB-1818	7.Y00295	16

Model	PN	Page
SMBB-1825	7.Y00817	16
SMBB-2525	7.Y00012	16
SMBB-5025	7.Y00339	16
SMBB-2550	7.Y00340	16
SMBB-3030	7.Y00163	16
SMBC-1025	7.Y00296	17
SMBC-1432	7.Y00297	17
SMBC-2038	7.Y00013	17
SMBC-3050	7.Y00226	17
SMBC-5070	7.Y00225	17
SMBD-2550	7.Y00227	18
SMBD-5070	7.Y00228	18
SMBD2-7625	7.Y00426	19
SMBD2-12025	7.Y00427	19
SMBD2-13025	7.Y00428	19
SMBD2-7650	7.Y00429	19
SMBD2-12050	7.Y00430	19
SMBD2-13050	7.Y00431	19
SMBD3-2525	7.Y00812	20
SMBD3-2550	7.Y00813	20
SMBD3-4040	7.Y00814	20
SMBD3-4080	7.Y00815	20
SMBE-1010	7.Y00300	21
SMBE-1014	7.Y00301	21
SMBE-1210	7.Y00775	21
SMBE-1214	7.Y00864	21
SMBE-1414	7.Y00302	21
SMBE-2014	7.Y00014	21
SMBE-2022	7.Y00304	21
SMBE1-0840	7.Y00694	22
SMBE1-1040	7.Y00201	22
SMBE1-1240	7.Y00695	22
SMBE1-1440	7.Y00200	22
SMBE1-1450	7.Y00199	22
SMBE1-2060	7.Y00015	22
SMBE1-3060	7.Y00724	22
SMBE2-1040	7.Y00725	23
SMBE2-1240	7.Y00777	23
SMBE2-1450	7.Y00307	23
SMBE2-2060	7.Y00308	23
SMBE2-3060	7.Y00309	23
SMBE8-1040	7.Y02014	24
SMBE8-1450	7.Y02015	24
SMBE8-2060	7.Y02012	24
SMBE3-1020	7.Y00341	25
SMBE3-1220	7.Y00795	25
SMBE3-1430	7.Y00342	25
SMBE3-2040	7.Y00343	25
SMBE3-3050	7.Y00344	25
SMBE4-1412	7.Y00224	26
SMBE4-2012	7.Y00223	26
SMBE4-2020	7.Y00181	26
SMBE4-3012	7.Y00222	26
SMBE4-3020	7.Y00221	26
SMBE5-G1840	7.Y00310	27
SMBE5-G1860	7.Y00311	27
SMBE5-M1040	7.Y00312	27
SMBE5-M1060	7.Y00313	27
SMBE5-M1240	7.Y00314	27
SMBE5-M1260	7.Y00315	27
SMBE5-M1440	7.Y00316	27
SMBE5-M1460	7.Y00317	27
SMBE5-M1640	7.Y00320	27
SMBE5-M1660	7.Y00321	27
SMBE5-M2040	7.Y00322	27
SMBE5-M2060	7.Y00323	27
SMBE6-1040	7.Y00357	28

Model	PN	Page
SMBE6-1240	7.Y00358	28
SMBE6-1440	7.Y00359	28
SMBE6-1640	7.Y00360	28
SMBE6-2040	7.Y00361	28
SMBE6-2240	7.Y00362	28
SMBE6-2540	7.Y00363	28
SMBE6-1028	7.Y00364	28
SMBE6-1228	7.Y00365	28
SMBE6-1428	7.Y00366	28
SMBE6-1628	7.Y00367	28
SMBE6-2028	7.Y00368	28
SMBE6-2228	7.Y00369	28
SMBE6-2528	7.Y00370	28
SMBE7-0856	7.Y00062	29
SMBE7-1256	7.Y00021	29
SMBE7-2056	7.Y00006	29
SMB-10M5-02G18	7.Y00153	30
SMB-08M5-02G18	7.Y00154	30
SMB-10M5	7.Y00155	30
SMB-08M5	7.Y00156	30
SMB-06M5	7.Y00157	30
SMB-14M5	7.Y00167	30
SMB-5G18	7.Y00229	31
SMB1-5G18	7.Y01020	31
SMB2-5G18	7.Y01022	31
SMB-9G18	7.Y00231	32
SMB1-9G18	7.Y01021	32
SMB2-9G18	7.Y01023	32
SMB-D5G18	7.Y01050	33
SMB1-D5G18	7.Y01024	33
SMB2-D5G18	7.Y01025	33
SMB-A5G18	7.Y00240	34
SMB-A5G14	7.Y00241	34
SMBY12-50	7.Y00736	35
SMBY12-100	7.Y00735	35
SMBY14-50	7.Y00733	35
SMBY14-100	7.Y00734	35
SMBY20-50	7.Y00732	35
SMBY20-100	7.Y00731	35
SMBY20-150	7.Y00462	35
SMBY25-100	7.Y01027	35
SMBY30-50	7.Y00729	35
SMBY30-100	7.Y00730	35
SMBY30-150	7.Y00463	35
SMBY-1050M5	7.Y02063	35
SMBY-1095M5	7.Y02064	35
SMBY-1452G18	7.Y02065	35
SMBY-1497G18	7.Y02066	35
SMBY-2053G14	7.Y02067	35
SMBY-2098G18	7.Y02068	35
SMBT1-M1412	7.Y00028	36
SMBP-0808	7.Y00042	36
SMBP-0812	7.Y00043	36
SMBP-1212	7.Y00044	36
SMBP-2012	7.Y00045	36
SMBP-2020	7.Y00046	36
SMBT4-G1820	7.Y00048	37
SMBT-0808	7.Y00025	37
SMBT-1208	7.Y00026	37
SMBT-1212	7.Y00020	37
SMBT-1214	7.Y00794	37
SMBT-2012	7.Y00027	37
SMBT-2020	7.Y00005	37
SMBT-1414	7.Y01002	38
SMBT-2520	7.Y00998	38
SMBT-2525	7.Y00999	38
SMBT-4020	7.Y01059	38

Model	PN	Page
SMBT-4025	7.Y01004	38
SMBT-4030	7.Y02058	38
SMBT-4040	7.Y01003	39
SMBT2-1212	7.Y00192	39
SMBT2-2020	7.Y00185	39
SMBT2-4040	7.Y02020	39
SMBT2-3030	7.Y02021	39
SMBT2-2525	7.Y02022	39
SMBT2-4025	7.Y02025	39
SMBT2-4020	7.Y02026	39
SMBF1-0808	7.Y00036	40
SMBF1-0812	7.Y00037	40
SMBF1-1208	7.Y00038	40
SMBF1-1212	7.Y00003	40
SMBF1-1220	7.Y00039	40
SMBF1-2012	7.Y00040	40
SMBF1-2020	7.Y00041	40
SMBF-0808	7.Y00029	40
SMBF-0812	7.Y00030	40
SMBF-1208	7.Y00031	40
SMBF-1212	7.Y00032	40
SMBF-1220	7.Y00033	40
SMBF-2012	7.Y00034	40
SMBF-2020	7.Y00035	40
SCD-2010	7.Y00329	41
SCD-2014	7.Y00330	41
SCD-3020	7.Y01049	41
SCD-2020	7.Y00233	41
SCD-3030	7.Y01050	41
SMBT3-2020	7.Y00047	42
SMBG1-8M5	7.Y00057	42
SMBG1-8M6	7.Y00058	42
SMBG1-12M5	7.Y00059	42
SMBG1-12M6	7.Y00060	42
SMBG1-12G18	7.Y00061	42
SMBJ1-5	7.Y00070	43
SMBJ2-6	7.Y00071	43
SMBT5-8	7.Y00072	44
SMBT5-12	7.Y00073	44
SMBT6-12	7.Y00074	44
SMBM-10	7.Y00740	45
SMBM-16	7.Y00741	45
SMBM-20	7.Y00728	45
SMBM-25	7.Y00739	45
SMBM-32	7.Y00738	45
SMBM-40	7.Y00737	45
SCF1-40M3	7.Y00115	46
SCF1-40G18	7.Y00118	46
SCF1-70M3	7.Y00129	46
SCF1-70G18	7.Y00132	46
SCF2-40M5	7.Y00173	46
SCF2-40M6	7.Y00117	46
SCF2-70M5	7.Y00130	46
SCF2-70M6	7.Y00131	46
SMBU-12	7.Y00082	47
SMBU2-20	7.Y00255	47
SMBU3-8	7.Y00085	48
SMBU4-12	7.Y00086	48
SMBU6-8	7.Y00088	49
SMBU7-12	7.Y00089	49
SMBT9-12	7.Y00081	50
SMBU5-20	7.Y00087	50
SMBU8-20	7.Y00090	51
SMBK1-8T10	7.Y00091	51
SMBK1-12T10	7.Y00092	51
SMBK1-20T10	7.Y00093	51
SMBK1-8T16	7.Y00094	51

Model	PN	Page
SMBK1-12T16	7.Y00095	51
SMBK1-20T16	7.Y00096	51
SMB5-8T10	7.Y00064	52
SMB5-12T10	7.Y00065	52
SMB5-20T10	7.Y00066	52
SMB5-8T16	7.Y00067	52
SMB5-12T16	7.Y00068	52
SMB5-20T16	7.Y00068	52
SMBU9-M10	7.Y01051	52
SCF3-40M10	7.Y00119	53
SCF3-40M12	7.Y00120	53
SCF3-40M17	7.Y00121	53
SCF3-70M10	7.Y00133	53
SCF3-70M12	7.Y00134	53
SCF3-70M17	7.Y00135	53
SCF4-0840W12	7.Y00122	53
SCF4-0840W16	7.Y00123	53
SCF4-1240W16	7.Y00044	53
SCF4-2040W25	7.Y00124	53
SCF4-0870W12	7.Y00136	53
SCF4-0870W16	7.Y00137	53
SCF4-1270W16	7.Y00138	53
SCF4-2070W25	7.Y00139	53
SCF5-0840W16	7.Y00125	54
SCF5-0840W12	7.Y00126	54
SCF5-1240W16	7.Y00127	54
SCF5-2040W25	7.Y00128	54
SCF5-0870W16	7.Y00140	54
SCF5-0870W12	7.Y00141	54
SCF5-1270W16	7.Y00142	54
SCF5-2070W25	7.Y00143	54
SMBR2-M10	7.Y00099	54
SMBR2-M12	7.Y00100	54
SMBR4-0808M4	7.Y00103	55
SMBR4-1208M4	7.Y00110	55
SMBR4-1212M4	7.Y00019	55
SMBR4-1212M4L	7.Y00268	55
SMBR4-1420M6	7.Y00461	55
SMBR4-2020M6	7.Y00007	55
SMBR4-2020M6L	7.Y00206	55
SMBR5-1208	7.Y00111	55
SMBR5-0808	7.Y00104	55
SMBR5-1212	7.Y00112	55
SMBR7-0808	7.Y00113	56
SMBR7-1212	7.Y00114	56
SMBR-46	7.Y00063	56
SMBR1-12	7.Y00098	57
SCC-20G18	7.Y00236	57
SCC-20M16	7.Y00234	57
SVA-G18	7.Y00235	58
SVA-G14	7.Y00237	58
SVB-M5	7.Y00242	59
SVB-G18	7.Y00244	59
SVB-G14	7.Y00243	59
SVC-M5	7.Y00328	60
SVC-G18	7.Y00238	60
SVC-G14	7.Y00239	60
SVD-M5	7.Y00416	61
SVD-G18	7.Y00417	61
SVD-G14	7.Y00418	61
SVE-M51030	7.Y00410	62
SVE-M51060	7.Y00411	62
SVE-M51090	7.Y00412	62
SVE-M51230	7.Y00772	62
SVE-M51260	7.Y00773	62
SVE-M51290	7.Y00774	62
SVE-G18440	7.Y00413	62



Index

Model	PN	Page
SVE-G181480	7.Y00414	62
SVE-G1814120	7.Y00415	62
SVE-G142050	7.Y00008	62
SVE-G1420100	7.Y00009	62
SVE-G1420150	7.Y00010	62
SCA1-1010L30	7.Y00398	63
SCA1-1010L60	7.Y00399	63
SCA1-1010L90	7.Y00400	63
SCA1-1212L30	7.Y00769	63
SCA1-1212L60	7.Y00770	63
SCA1-1212L90	7.Y00771	63
SCA1-1414L40	7.Y00401	63
SCA1-1414L80	7.Y00402	63
SCA1-1414L120	7.Y00403	63
SCA1-2020L50	7.Y00404	63
SCA1-2020L100	7.Y00405	63
SCA1-2020L150	7.Y00406	63
SCA1-3030L80	7.Y00407	63
SCA1-3030L140	7.Y00408	63
SCA1-3030L200	7.Y00409	63
SCA2-2020L50	7.Y00996	63
SCA2-2020L100	7.Y01000	63
SCA2-2020L150	7.Y00997	63
SCA2-2525L50	7.Y02030	63
SCA2-2525L100	7.Y02031	63
SCA2-2525L150	7.Y02032	63
SCA2-3030L80	7.Y01006	63
SCA2-3030L140	7.Y01005	63
SCA2-3030L200	7.Y01001	63
SCE-NR10	7.Y00470	64
SCE-NR20	7.Y00331	64
SCE-NR30	7.Y00261	64
SCE-NR50	7.Y00742	64
SCE1-NS20	7.Y00692	65
SCE1-NS30	7.Y00693	65
SCE2-05	7.Y00796	66
SCE2-1015	7.Y00094	66
SCE2-25	7.Y00633	67
SCE3-N10	7.Y00075	67
SCE3-N20	7.Y00076	67
SCE3-N30	7.Y00077	67
SCE4-NR(LR)	7.Y00868	68
SCE4-NR30	7.Y00146	68
SCE4-NR20	7.Y00147	68
SCE4-NR10	7.Y00148	68
SCE-NR20-D10	7.Y00946	69
SCE-NR20-D12	7.Y00947	69
SCE-NR30-D10	7.Y00948	69
SCE-NR30-D12	7.Y00949	69
SMBH1-8M5	7.Y00051	70
SMBH1-8M6	7.Y00052	70
SMBH1-12M5	7.Y00053	70
SMBH1-12M6	7.Y00052	70
SMBH1-12M8	7.Y00054	70
SMBH1-20M6	7.Y00055	70
SMBH1-20M8	7.Y00056	70
SMBE7-18M5	7.Y00869	70
SMBE7-18M6	7.Y00870	70
SMBE7-25M5	7.Y00871	70
SMBE7-25M6	7.Y00872	70
SEA-1010L60	7.Y00388	71
SEA-1212L60	7.Y00776	71
SEA-1414L40	7.Y00389	71
SEA-1414L80	7.Y00390	71
SEA-1414L120	7.Y00391	71
SEA-2020L50	7.Y00392	71
SEA-2020L100	7.Y00393	71

Model	PN	Page
SEA-2020L150	7.Y00394	71
SEA-3030L80	7.Y00395	71
SEA-3030L140	7.Y00396	71
SEA-3030L200	7.Y00397	71
SEAH-2020L50	7.Y00350	72
SEAH-2020L100	7.Y00351	72
SEAH-2020L150	7.Y00166	72
SEAH-3030L80	7.Y00352	72
SEAH-3030L140	7.Y00353	72
SEAH-3030L200	7.Y00354	72
SEAV-M510L45	7.Y00432	73
SEAV-M510L90	7.Y00433	73
SEAV-G1814L60	7.Y00258	73
SEAV-G1814L120	7.Y00434	73
SEAV-G1820L78	7.Y00435	73
SEAV-G1820L153	7.Y00247	73
SEAV-G1420L75	7.Y00436	73
SEAV-G1420L150	7.Y00437	73
SBNA-8M5	7.Y00271	74
SBNA-8M6	7.Y00272	74
SBNA-12M5	7.Y00273	74
SBNA-12M10	7.Y00274	74
SBNA-20M12	7.Y00276	74
SBNA-20M17	7.Y00277	74
SBNB-12PT18	7.Y00275	74
SBNB-20PT18	7.Y00278	74
SBND-1208	7.Y00280	74
SBND-2012	7.Y00281	74
SBND-2008	7.Y00282	74
Quick Changer		
QCA-05R	8.Y00355	81
QCA-05G	8.Y00356	81
QCA-05R-SP	8.Y00355-SP	81
QCA-05R-SN	8.Y00355-SN	81
QCA-05R1-SN	8.Y01066	83
QCA-05G1	8.Y01067	83
QCA-15R	8.Y00353	85
QCA-15G	8.Y00354	85
QCA-15R-SP	8.Y00353-SP	85
QCA-15R-SN	8.Y00353-SN	85
QCA-25R	8.Y00460	87
QCA-25G	8.Y00461	87
QCA-25R-SP	8.Y00460-SP	87
QCA-25R-SN	8.Y00460-SN	87
QCA-35R	8.Y00351	89
QCA-35G	8.Y00352	89
QCA-35R-SP	8.Y00351-SP	89
QCA-35R-SN	8.Y00351-SN	89
QCA-50R	8.Y00349	92
QCA-50G	8.Y00350	92
QCA-50R-SP	8.Y00349-SP	92
QCA-50R-SN	8.Y00349-SN	92
QCA-550R-SP	8.Y00436	95
QCA-550G	8.Y00405	95
QCA-100R-SP	8.Y00362-SP	98
QCA-100R-SN	8.Y00362-SN	98
QCA-100G	8.Y00363	98
QCA-S100R-SP	8.Y00437	101
QCA-S100G	8.Y00426	101
QCA-S150R-SP	8.Y01013	104
QCA-S150G	8.Y01014	104
QCA-200R-SP	8.Y00272-SP	107
QCA-200R-SN	8.Y00272-SN	107
QCA-200G	8.Y00357	107
QCA-200R-SP-D1	8.Y00272-SP-D1	110
QCA-200R-SN-D1	8.Y00272-SN-D1	110
QCA-200G-D1	8.Y00357-D1	110

Model	PN	Page
QCSM-15R1	7.Y00965	117
QCSM-15G1	7.Y00966	117
QCSM-15R1-1000	7.Y02097	118
QCSM-15G1-1000	7.Y02098	118
QCSM-15R2	7.Y00468	119
QCSM-15G2	7.Y00469	119
QCSM-19R	7.Y00954	120
QCSM-19G	7.Y00955	120
QCSM-19R1	7.Y02123	121
QCSM-26R	7.Y00464	122
QCSM-26G	7.Y00465	122
QCSM-21/26G	7.Y02117	123
QCSM-32R	7.Y02095	124
QCSM-32G	7.Y02096	124
QCSM-08R-1000	7.Y02084	126
QCSM-08G-1000	7.Y02085	126
QCSM-08R	7.Y00477	127
QCSM-08G	7.Y00478	127
QCHF-02R-1000	7.Y02086	128
QCHF-02G-1000	7.Y02087	128
QCHF-E14-C1R	7.Y02003	129
QCHF-E14-C1G	7.Y02004	129
QCSM-08R1	7.Y02080	130
QCSM-08G1	7.Y02081	130
QCSM-12R	7.Y02082	131
QCSM-12G	7.Y02083	131
QCSM-RJ45*5M-06R	7.Y02129	132
QCSM-RJ45*5M-06G	7.Y02130	132
QCSM-RJ45-06R	7.Y02007	133
QCSM-RJ45-06G	7.Y02008	133
QCAM-06G18R	7.Y01015	135
QCAM-06G18G	7.Y01016	135
QCAM-06G18R-E	7.Y01018	136
QCAM-06G18G-E	7.Y01019	136
QCAM-06G18R-F	7.Y02005	137
QCAM-06G18G-F	7.Y02006	137
QCAM-10M5R	7.Y01053	138
QCAM-10M5G	7.Y01054	138
QCAM-14M5R	7.Y01055	139
QCAM-14M5G	7.Y01056	139
QCAM-04G38R	7.Y02043	140
QCAM-04G38G	7.Y02044	140
QCSM-02R	7.Y02013	141
QCSM-02G	7.Y02012	141
DB15R1-1000	1.Y10163	142
DB15G1-1000	1.Y10437	142
D-Sub15R2-1000	1.Y10080	143
D-Sub15G2-1000	1.Y10081	143
3108A22-235	1.Y10710	144
3108A22-23P	1.Y10711	144
CMB08E-14-19S072SR-B	1.Y11863	145
CMB08E-14-19P072SR-B	1.Y11865	145
CMB08E-16-26S072SR-B	1.Y11864	146
CMB08E-16-26P072SR-B	1.Y11866	146
MS3116F14-19S	1.Y11420	147
MS3116F14-19S-Y	1.Y11420-Y	147
MS3116F14-19P	1.Y11419	147
MS3116F14-19P-Y	1.Y11419-Y	147
MS3116F16-26S	1.Y11867	148
MS3116F16-26S-Y	1.Y11867-Y	148
MS3116F16-26P	1.Y11369	148
MS3116F16-26P-Y	1.Y11369-Y	148
QCA-S350R-SP	8.Y01009	151
QCA-S350G	8.Y01010	151
QCA-S500R-SP	8.Y01015	153
QCA-S500G	8.Y01016	153
QCWM-04R1	7.Y02071	156

Model	PN	Page
QCWM-04G1	7.Y02072	156
QCSM-03R	7.Y02069	157
QCSM-03G	7.Y02070	157
QCAM-08G38R	7.Y02051	158
QCAM-08G38G	7.Y02052	158
QCSM-05G7/8-04M12-10R	7.Y02118	159
QCSM-05G7/8-04M12-10R	7.Y02119	159
QCSM-M9K	7.Y00922	162
QC-R50K	8.Y00402	163
QC-G50	8.Y00055	163
R9-1000	1.Y06423	163
G9-1000	1.Y06424	163
QCSM-9R1	7.Y00823	163
QCSM-9G1	7.Y00824	163
QC-R90K	8.Y00359	165
QC-G90	8.Y00033	165
QCSM-9R2	7.Y00862	165
QCSM-9G2	7.Y02083	165
QC-R150K	8.Y00376	167
QC-G150	8.Y00377	167
QCSM-9R3	7.Y00819	167
QCSM-9G3	7.Y00820	167
QC-R160K	8.Y00360	169
QC-G160	8.Y00053	169
QC-R200K	8.Y00209	171
QC-G200	8.Y00208	171
QCSM-9R4	7.Y00821	171
QCSM-9G4	7.Y00822	171
SIP-50B	7.Y00650	173
SIP-90B	7.Y00634	173
SIP-160B	7.Y00635	174
SIP-200B	7.Y00865	174
QCS-R60	8.Y00081	175
QCS-G60	8.Y00082	175
KCH04-M5	1.Y03525	175
KCH06-M5	1.Y03524	175
QCS-R100	7.Y00332	176
QCS-G100	7.Y00175	176
KCH04-M5*5	7.Y00860	176
KCH06-M5*5	7.Y00861	176
MS-10SF*5	7.Y00334	176
MS-10PF	1.Y04667	176
QCS-R160	7.Y00160	177
QCS-G160	7.Y00161	177
KCH104-M5*5	7.Y02016	177
KCH106-M5*5	7.Y02017	177
MS-10SF*5	7.Y02018	177
MS1-10PF	1.Y20004	177
QCL15R-Y	1.Y01275	178
QCL15G-Y	1.Y01276	178
QCL15R-S	8.Y00236	179
QCL15G-S	8.Y00235	179
QCL35R-S	8.Y00101	180
QCL35G-S	8.Y00102	180
BP90	4.Y00480	181
BP135	4.Y00497	181
QCA-S10R	8.Y00037	182
QCA-S10G	8.Y00038	182
Grip Module		
FPT-40A-1	1.Y13289	184
FPT-40A-1-SD	1.Y13290	184
FPT-40A-1-TEM	1.Y13291	184
FPT-50A-1	1.Y13292	184
FPT-50A-2	1.Y13293	184
FPT-50A-1-SD	1.Y13294	184
FPT-50A-2-SD	1.Y13295	184
FPT-50A-1-TEM	1.Y13296	184

Model	PN	Page
FPT-50A-2-TEM	1.Y13297	184
FPT-64A-1	1.Y13298	184
FPT-64A-2	1.Y13299	184
FPT-64A-1-SD	1.Y13300	184
FPT-64A-2-SD	1.Y13301	184
FPT-64A-1-TEM	1.Y13302	184
FPT-64A-2-TEM	1.Y13303	184
FPT-80A-1	1.Y13304	184
FPT-80A-2	1.Y13305	184
FPT-80A-1-SD	1.Y13306	184
FPT-80A-2-SD	1.Y13307	184
FPT-80A-1-TEM	1.Y13308	184
FPT-80A-2-TEM	1.Y13309	184
FPT-100A-1	1.Y13310	184
FPT-100A-2	1.Y13311	184
FPT-100A-1-SD	1.Y13312	184
FPT-100A-2-SD	1.Y13313	184
FPT-100A-1-TEM	1.Y13314	184
FPT-100A-2-TEM	1.Y13315	184
FPT-110A-1	1.Y13316	184
FPT-125A-1	1.Y13317	184
FPT-125A-2	1.Y13318	184
FPT-125A-1-SD	1.Y13319	184
FPT-125A-2-SD	1.Y13320	184
FPT-125A-1-TEM	1.Y13321	184
FPT-125A-2-TEM	1.Y13322	184
FPT-160A-1	1.Y13323	184
FPT-160A-2	1.Y13324	184
FPT-160A-1-SD	1.Y13325	184
FPT-160A-2-SD	1.Y13326	184
FPT-160A-1-TEM	1.Y13327	184
FPT-160A-2-TEM	1.Y13328	184
FPT-200A-1	1.Y13329	184
FPT-200A-1-SD	1.Y13330	184
FPT-200A-1-TEM	1.Y13331	184
FPT-240A-1	1.Y13332	184
FPT-240A-1-SD	1.Y13333	184
FPT-240A-1-TEM	1.Y13334	184
FPT-300A-1	1.Y13335	184
FPT-300A-1-SD	1.Y13336	184
FPT-300A-1-TEM	1.Y13337	184
FCT-40A-1	1.Y13338	186
FCT-40A-1-SD	1.Y13339	186
FCT-40A-1-TEM	1.Y13340	186
FCT-50A-1	1.Y13341	186
FCT-50A-1-SD	1.Y13342	186
FCT-50A-1-TEM	1.Y13343	186
FCT-64A-1	1.Y13344	186
FCT-64A-1-SD	1.Y13345	186
FCT-64A-1-TEM	1.Y13346	186
FCT-80A-1	1.Y13347	186
FCT-80A-1-SD	1.Y13348	186
FCT-80A-1-TEM	1.Y13349	186
FCT-100A-1	1.Y13350	186
FCT-100A-1-SD	1.Y13351	186
FCT-100A-1-TEM	1.Y13352	186
FCT-125A-1	1.Y13353	186
FCT-125A-1-SD	1.Y13354	186
FCT-125A-1-TEM	1.Y13355	186
FCT-160A-1	1.Y13356	186
FCT-160A-1-SD	1.Y13357	186
FCT-160A-1-TEM	1.Y13358	186
FCT-200A-1	1.Y13359	186
FCT-200A-1-SD	1.Y13360	186
FCT-200A-1-TEM	1.Y13361	186
FCT-240A-1	1.Y13362	186
FCT-240A-1-SD	1.Y13363	186



Index

Model	PN	Page
GR05A-10	8.Y00348	203
GR10A-12	8.Y00268	204
GR10A-12-CP	8.Y00267	204
GR10A-12-CN	8.Y00305	204
GR10D-12	8.Y00370	205
GR10D-12-CP	8.Y00369	205
GR10D-12-CN	8.Y01034	205
GR12A-12	8.Y00048	206
GR12A-12-CN	8.Y00050	206
GR12A-12-CP	8.Y00091	206
GR12B-12	8.Y00245	207
GR12B-12-CP	8.Y00261	207
GR12B-12-CN	8.Y00262	207
GR10L-12	8.Y00307	208
GR12L-12	8.Y00308	208
GR10L-12-CP	8.Y01053	208
GR10L-12-CN	8.Y01054	208
GR12L-12-CP	8.Y01020	208
GR12L-12-CN	8.Y01021	208
GR12M-12	8.Y00419	209
GR12M-12-CP	8.Y00421	209
GR12M-12-CN	8.Y00420	209
GR10N-12	8.Y01011	210
GR12N-12	8.Y01012	210
GR12N-12-CP	8.Y01018	210
GR12N-12-CN	8.Y01083	210
GR20A-20	8.Y00224	213
GR20A-20-CP	8.Y00226	213
GR20A-20-CN	8.Y00051	213
GR20B-20	8.Y00234	214
GR20B-20-CP	8.Y00232	214
GR20B-20-CN	8.Y00233	214
GR20C-20	8.Y00342	215
GR20D-20	8.Y00343	216
GR20D-20-CP	8.Y00442	216
GR20D-20-CN	8.Y00479	216
GR20D-20M	8.Y01099	217
GR20D-20M-CP	8.Y01100	217
GR20D-20M-CN	8.Y01101	217
GR20E-20	8.Y00344	218
GR20F-20	8.Y00345	219
GR20G-20	8.Y00433	220
GR20G-20-CP	8.Y00472	220
GR20G-20-CN	8.Y00473	220
GR20H-20	8.Y00422	221
GR20H-20-CP	8.Y00424	221
GR20H-20-CN	8.Y00423	221
GR20I-20	8.Y00450	222
GR20I-20-CP	8.Y00470	222
GR20I-20-CN	8.Y00471	222
GRA20A	8.Y00391	224
GRA20A-CP	8.Y00392	224
GRA20A-CN	8.Y00393	224
GRC20C-CP	8.Y00434	225
GRC20C-CN	8.Y00435	225
GRT20A	8.Y00257	227
GRT20A-CN	8.Y00258	227
GRT20A-CP	8.Y00259	227
GRT20B	8.Y00279	228
GRT20B-CN	8.Y00281	228
GRT20B-CP	8.Y00282	228
GRT20C	8.Y00316	229
GRT20D	8.Y00317	230
GRT20D-CP	8.Y01004	230
GRT20D-CN	8.Y00458	230
GRT20E	8.Y00318	231
GRT20E-CN	8.Y00339	231

Model	PN	Page
GRT20E-CP	8.Y00340	231
GRT20F	8.Y01008	232
GRP32A	8.Y00278	235
GRP32A-CP	8.Y00462	235
GRP32A-CN	8.Y00463	235
GRP32B	8.Y00388	236
GRP32B-CP	8.Y00466	236
GRP32B-CN	8.Y00467	236
GRP32A-30	8.Y00315	237
GRP32A-30CP	8.Y00464	237
GRP32A-30CN	8.Y00465	237
GRP32B-30	8.Y00387	238
GRP32B-30CP	8.Y00399	238
GRP32B-30CN	8.Y00411	238
GRP32A-3020	8.Y00468	239
GRP32A-3020CP	8.Y00469	239
GRP32A-3020CN	8.Y00477	239
GRP32B-3020	8.Y00478	240
GRP32B-3020CP	8.Y00416	240
GRP32B-3020CN	8.Y00417	240
GRP32C	8.Y00412	241
GRP32C-30	8.Y00415	241
GRP32C-320	8.Y00418	242
GFM-A3V5	4.Y00500	245
GFM-A4V5	4.Y00501	245
GFM-A5V5	4.Y00502	245
GFM-A6V5	4.Y10951	245
GFM-A7V5	4.Y10952	245
GFM-A8V5	4.Y10953	245
GFM-B3V5	4.Y00503	245
GFM-B4V5	4.Y00504	245
GFM-B5V5	4.Y00505	245
GFM-B6V5	4.Y10954	245
GFM-B7V5	4.Y10955	245
GFM-B8V5	4.Y10956	245
GFM-C3V5	4.Y00506	245
GFM-C4V5	4.Y00507	245
GFM-C5V5	4.Y00508	245
GFM-C6V5	4.Y10957	245
GFM-C7V5	4.Y10958	245
GFM-C8V5	4.Y10959	245
A3	1.Y08421	246
A4	1.Y08422	246
A5	1.Y08423	246
A6	1.Y12918	246
A7	1.Y12919	246
A8	1.Y12920	246
B3	1.Y08424	246
B4	1.Y08425	246
B5	1.Y08426	246
B6	1.Y12921	246
B7	1.Y12922	246
B8	1.Y12923	246
C3	1.Y08427	246
C4	1.Y08428	246
C5	1.Y08429	246
C6	1.Y12924	246
C7	1.Y12925	246
C8	1.Y12926	246
GBS-2B-S01	4.Y00509	247
GBS-3B-S01	4.Y00510	247
GBS-4B-S01	4.Y00511	247
B-2B	1.Y08430	248
B-3B	1.Y08431	248
B-4B	1.Y08432	248
GSMP-2S	7.Y01028	249
GSMP-2L	7.Y01029	249

Model	PN	Page
GSMP-3S	7.Y01030	249
GSMP-3L	7.Y01031	249
GSMP-4S	7.Y01032	249
GSMP-4L	7.Y01033	249
GSMP-5S	7.Y01034	249
GSMP-5L	7.Y01035	249
IPC2U-2-SMN	1.Y12927	250
GSRT1421-08	8.Y00242	251
GSRT2026-10	8.Y00332	251
GSRT2026-12	8.Y00244	251
GSRT2051-10	8.Y00333	251
GSRT2051-12	8.Y00334	251
GSRT1421-08	8.Y00241	251
GSRT1421-08	8.Y00373	251
GSRT2026-10	8.Y00329	251
GSRT2026-12	8.Y00243	251
GSRT2051-10	8.Y00330	251
GSRT2051-12	8.Y00331	251
GSP20-14	8.Y00238	252
GSP20-20	8.Y00239	252
GSP30-30	8.Y01032	252
GSP20-20C	8.Y01079	252
GSP30-30C	8.Y01081	252
GMP14A	8.Y00408	253
GMP20A	8.Y00088	253
GMP30A	8.Y00089	253
GMP14B	1.Y02565	253
GMP20B	7.Y00726	252
GMP30B	1.Y00311	295
GLU20A	7.Y00894	253
GLU20B	7.Y00895	254
GN2010-S51	8.Y00341	256
GN2010-S21	8.Y00440	256
GN2010-8S51	8.Y00385	256
GN2010	8.Y00025	257
GN2010-8	8.Y00347	257
GN3003-4	8.Y01005	258
GN3003-4-15	8.Y01082	259
GN2002-32	8.Y01035	260
GFA14-35	8.Y00117	261
GFA20-35	8.Y00118	261
GFA30-35	8.Y00119	261
GFR14-95	8.Y00042	262
GFR20-95E	8.Y00311	262
GFR30-95	8.Y00095	262
GFR14-95G	8.Y00084	263
GFR20-95EG	8.Y00312	263
GFR30-95G	8.Y00096	263
GFR20-95S	8.Y00335	264
GFR20-95SG	8.Y00336	265
GFR20-95L	8.Y00309	266
GFR20-95LG	8.Y00310	267
GFS14-90G	8.Y01001	268
GFS20-90G	8.Y01002	268
GFS30-90G	8.Y01003	268
GFS20-90SG	8.Y01030	269
GFS30-90SG	8.Y01031	269
SIL-14G	4.Y00486	270
SIL-20G	4.Y00485	270
SIL-30G	4.Y00514	270
SIL-14G-HNBR	4.Y00486-HNBR	270
SIL-20G-HNBR	4.Y00485-HNBR	270
SIL-30G-HNBR	4.Y00514-HNBR	270
SIL-14G-NBR	4.Y00486-NBR	270
SIL-20G-NBR	4.Y00485-NBR	270
SIL-30G-NBR	4.Y00514-NBR	270
SIL-14G-TPU	4.Y00486-TPU	270

Model	PN	Page
SIL-20G-TPU	4.Y00485-TPU	270
SIL-30G-TPU	4.Y00514-TPU	270
SIL-14G-EPDM	4.Y00486-EPDM	270
SIL-20G-EPDM	4.Y00485-EPDM	270
SIL-30G-EPDM	4.Y00514-EPDM	270
GP3-20V	7.Y02104	271
GP3-20P	7.Y02102	271
GP3-20N	7.Y02103	271
GP1-20	7.Y00778	272
GP1-30	7.Y00779	272
GP2-14	7.Y00780	272
GP2-20	7.Y00781	272
GP2-30	7.Y00782	272
GP3-14	7.Y00783	273
GP3-20	7.Y00700	273
GP3-20L	7.Y00908	273
GP3-30	7.Y00785	273
GS-14	7.Y00786	274
GS-20	7.Y00787	274
GS-30	7.Y00788	274
GOF20-20-NBR	8.Y00396	275
GOF20-20-VMQ	8.Y00395	275
GOP20-20-NBR	8.Y00398	275
GOP20-20-VMQ	8.Y00397	275
D-M9B	1.Y00310	294
D-M9BL	1.Y00307	295
D-M9BV	1.Y02565	295
D-M9BVL	1.Y03843	295
D-M9N	1.Y00311	295
D-M9NL	1.Y00295	276
D-M9NV	1.Y00298	276
D-M9NVL	1.Y03598	276
D-M9P	1.Y00309	276
D-M9PL	1.Y02301	276
D-M9PVL	1.Y00296	276
D-M9PVL	1.Y02312	276
D-MQ	1.Y00293	276
GFT60-90	8.Y01007	277
GFN20-90	8.Y00094	278
GFN30-90	8.Y00116	278

Air Ripper

GT-N50H-40	1.Y00367	279
N54-T	7.Y00441	279
N54-D	7.Y00442	279
L54-S	2.Y05202	279
GTC-001	8.Y01026	281
GTC-002	8.Y01027	281
-	1.Y20002	282
D6-L55	1.Y20003	282
GT-NR30-N3OPF_H	7.Y02260	283
NR20-P	8.Y00113	284
NR30-P	8.Y00237	284
NR20-P-D1	8.Y00113-D1	284
NR30-P-D1	8.Y00237-D1	284
NS20-P	8.Y00079	285
NS30-P	8.Y00080	285
NT-2010TM-P	8.Y00006	286
NT-2010SM-P	8.Y00003	286
GT-BH2060	8.Y00346	287
NBH2060	7.Y02019	287
GT-N2010H-10	8.Y01070	288
AHC32X50	8.Y02005	288

Vacuum Module				
Model	NBR-55	SI-55	HTI-60	Page
PFG-2-...	1.Y12953	1.Y12972	1.Y12991	290
PFG-3-5-...	1.Y12954	1.Y12973	1.Y12992	290
PFG-5-...	1.Y12955	1.Y12974	1.Y12993	290
PFG-6-...	1.Y12956	1.Y12975	1.Y12994	290
PFG-8-...	1.Y12957	1.Y12976	1.Y12995	290
PFG-10-...	1.Y12958	1.Y12977	1.Y12996	290
PFG-15-...	1.Y12959	1.Y12978	1.Y12997	290
PFG-20-...	1.Y12960	1.Y12979	1.Y12998	290
PFG-25-...	1.Y12961	1.Y12980	1.Y12999	290
PFG-30-...	1.Y12962	1.Y12981	1.Y13000	290
PFG-35-...	1.Y12963	1.Y12982	1.Y13001	290
PFG-40-...	1.Y12964	1.Y12983	1.Y13002	290
PFG-50-...	1.Y12965	1.Y12984	1.Y13003	290
PFG-60-...	1.Y12966	1.Y12985	1.Y13004	290
PFG-80-...	1.Y12967	1.Y12986	1.Y13005	290
PFG-95-...	1.Y12968	1.Y12987	1.Y13006	290
FGA-6-...	1.Y12937	1.Y12949	1.Y12951	291
FGA-11-...	1.Y12938	1.Y12288	1.Y12298	291
FGA-14-...	1.Y12939	1.Y12289	1.Y12299	291
FGA-16-...	1.Y12940	1.Y12290	1.Y12300	291
FGA-20-...	1.Y12941	1.Y12291	1.Y12301	291
FGA-22-...	1.Y12942	1.Y12292	1.Y12302	291
FGA-25-...	1.Y12943	1.Y12293	1.Y12303	291
FGA-33-...	1.Y12944	1.Y12294	1.Y12304	291
FGA-43-...	1.Y12945	1.Y12295	1.Y12305	291
FGA-53-...	1.Y12946	1.Y12296	1.Y12306	291
FGA-63-...	1.Y12947	1.Y12297	1.Y12307	291
FGA-78-...	1.Y12948	1.Y12950	1.Y12952	291
FG-3-...	1.Y12929	1.Y12931	1.Y12934	292
FG-4-...	1.Y12930	1.Y12932	1.Y12935	292
FG-5-...	1.Y12308	1.Y12319	1.Y12331	292
FG-7-...	1.Y12309	1.Y12320	1.Y12332	292
FG-9-...	1.Y12310	1.Y12321	1.Y12333	292
FG-12-...	1.Y12311	1.Y12322	1.Y12334	292
FG-14-...	1.Y12312	1.Y12323	1.Y12335	292
FG-18-...	1.Y12313	1.Y12324	1.Y12336	292
FG-20-...	1.Y12314	1.Y12325	1.Y12337	292
FG-25-...	1.Y12315	1.Y12326	1.Y12338	292
FG-32-...	1.Y12284	1.Y12327	1.Y11797	292
FG-42-...	1.Y12316	1.Y12328	1.Y12340	292
FG-52-...	1.Y12317	1.Y12329	1.Y12341	292
FG-62-...	1.Y12318	1.Y12330	1.Y12342	292
FG-88-...	1.Y12928	1.Y12933	1.Y12936	292
PFYN-2-...	7.Y02131	7.Y02147	7.Y02163	293
PFYN-3-5-...	7.Y02132	7.Y02148	7.Y02164	293
PFYN-5-...	7.Y02133	7.Y02149	7.Y02165	293
PFYN-6-...	7.Y02134	7.Y02150	7.Y02166	293
PFYN-8-...	7.Y02135	7.Y02151	7.Y02167	293
PFYN-10-...	7.Y02136	7.Y02152	7.Y02168	293
PFYN-15-...	7.Y02137	7.Y02153	7.Y02169	293
PFYN-20-...	7.Y02138	7.Y02154	7.Y02170	293
PFYN-25-...	7.Y02139	7.Y02155	7.Y02171	293
PFYN-30-...	7.Y02140	7.Y02156	7.Y02172	293
PFYN-35-...	7.Y02141	7.Y02157	7.Y02173	293
PFYN-40-...	7.Y02142	7.Y02158	7.Y02174	293
PFYN-50-...	7.Y02143	7.Y02159	7.Y02175	293
PFYN-60-...	7.Y02144	7.Y02160	7.Y02176	293
PFYN-80-...	7.Y02145	7.Y02161	7.Y02177	293
PFYN-95-...	7.Y02146	7.Y02162	7.Y02178	293
PFYN-120-...	1.Y12969	1.Y12988	-	293
PFYN-150-...	1.Y12970	1.Y12989	1.Y13008	293
PFYN-200-...	1.Y12971	1.Y12990	-	293
FGSA-6-...	7.Y02179	7.Y02191	7.Y02203	294
FGSA-11-...	7.Y02180	7.Y02192	7.Y02204	294
FGSA-14-...	7.Y02181	7.Y02193	7.Y02205	294
FGSA-16-...	7.Y02182	7.Y02194	7.Y02206	294



Index

Model	PN	Page
SAOB-60x30-G3/8IG	1.Y13055	303
SAOB-80x40-G3/8AG	1.Y13056	303
SAOB-80x40-G3/8IG	1.Y13057	303
SAOB-110x55-G3/8AG	1.Y13058	303
SAOB-110x55-G3/8IG	1.Y13059	303
SAOB-140x70-G3/8IG	1.Y13061	303
VM02-G18	7.Y00703	304
VM04-G14	7.Y00709	304
VM06-G14	7.Y00768	304
VM07-G18	7.Y00767	304
VM08-M8	1.Y05275	304
VM09-M5	1.Y05274	304
VM10-G18	7.Y00902	305
VM11-G18	1.Y12762	305
VM11-M5	1.Y05327	305
VM12-M5	7.Y00762	305
VM13-M5	7.Y00761	305
VM14-M5	7.Y00760	305
VM15-G18	7.Y00759	306
VM16-G18	7.Y00758	306
VM17-G18	7.Y00757	306
VM18-M5	1.Y05314	306
VM20-G14	4.Y00058	306
VM21-M5	1.Y01986	306
VM22-M5	1.Y05790	307
VM23-G18	7.Y00900	307
VM24-M8	7.Y00898	307
VM25-M3	7.Y00928	307
VM27-M5	1.Y01097	307
VM28-M8	7.Y00475	307
VM29-M5	7.Y01036	308
VM30-G18	7.Y01037	308
VM31-M5	7.Y01038	308
VM32-G18	7.Y01039	308
VM33-M5	7.Y01040	308
VM34-G18	7.Y01041	308
VM35-M5	7.Y01042	309
VM36-G18	7.Y01043	309
VM37-M5	7.Y01044	309
VM38-G18	7.Y01045	309
VM39-M5	7.Y01046	309
VM40-G18	7.Y01047	309
VM41-G14	7.Y01048	310
VM10-G18F	7.Y02013	310
VM-G18M-M10M	7.Y00808	311
VM-G14M-M10M	7.Y00756	311
VM-G18M-M5F	7.Y00755	311
VM-G18M-M8F	7.Y00754	311
VM-M5M-M8F	7.Y00473	311
VM-M5M-G18F	7.Y00474	311
VM-G14M-M8F	7.Y00476	312
VFN1011-M5	8.Y00064	314
VFN1021-M5	8.Y00321	314
VFN1421-G18	8.Y00065	314
VFN1436-G18	8.Y00322	314
VFN2026-G18	8.Y00066	314
VFN2051-G18	8.Y00067	314
VFNT1011-M5	8.Y00068	314
VFNT1021-M5	8.Y00323	314
VFNT1421-G18	8.Y00204	314
VFNT1621-G18	8.Y00383	314
VFNT1436-G18	8.Y00324	314
VFNT1636-G18	8.Y00384	314
VFNT2026-G18	8.Y00205	314
VFNT2051-G18	8.Y00206	314
VFR1011-M5	8.Y00060	315
VFR1021-M5	8.Y00325	315

Model	PN
VFH7-30M20-G38F-G18M	8.Y00409
VFH-30M20-G38F-G18M	8.Y00410
VWG-LK4-M52-AT-G18-1H2L-5	1.Y06040
VWG-LK4-852-G18-1H2L-W1-5	1.Y06288
VVUG1/8-LK-2F	1.Y06289
VVUG1/8-LK-3F	1.Y06290
VVUG1/8-LK-4F	1.Y06291
VVUG1/8-LK-5F	1.Y06292
VVUG1/8-LK-6F	1.Y06293
VVUG1/8-LK-7F	1.Y06294
VVUG1/8-LK-8F	1.Y06295
VVUG1/8-LK-9F	1.Y07453
VVUG1/8-LK-10F	1.Y06295
VVUG1/8-LK-11F	1.Y09872
VVUG1/8-LK-12F	1.Y09873
VVUG1/8-LK-13F	1.Y09874
VVUG1/8-LK-14F	1.Y09875
VVUG1/8-LK-15F	1.Y09876
VVUG1/8-LK-16F	1.Y09877
VVUG1/8-LK-17F	1.Y09878
VVUG1/8-LK-18F	1.Y09879
VVUG1/8-LK-19F	1.Y09880
VVUG1/8-LK-20F	1.Y09881
VLCCLASSIC XI x 2	1.Y13065
COMPACT10E PNP	1.Y13066
COMPACT10E NPN	1.Y13279
COMPACT 20CE PNP	1.Y13067
COMPACT 20CE NPN	1.Y13068
miniNUEB vacuum generator mini SI, 6-6 mm	1.Y13069
miniNUEB vacuum generator mini S, 6-8 mm	1.Y13070
SCSP5-07-S04-NC-VD	1.Y13277
SCSP5-10-S04-NC-VD	1.Y13277
SCSP5-15-S04-NC-VD	1.Y13278
Accessory Components	
ASC-8A-B	8.Y00087
AJB4M8-3-P-M12	4.Y00487
AJB4M8-3-N-M12	4.Y00488
ELK8112-0-9	1.Y07461
M8-M03T	1.Y06722
ELK8-2M/P00	1.Y07462
M8-M03L	1.Y13391
AJB8M8-3-P-M16	4.Y00491
AJB8M8-3-N-M16	4.Y00492
DLK14-14-2M/P00	1.Y07463
AJB8M8-3-P-D2	4.Y00495
AJB8M8-3-N-D2	4.Y00496
ARJ210-M5	1.Y05877
-	1.Y02592
APB-M3-Ø4	1.Y03145
APB-M5-Ø4	1.Y05008
APB-M5-Ø6	1.Y01986
APF-M3	1.Y06794
APF-M5	1.Y02510
APF-G18	1.Y00462
APF-G14	1.Y00463
APBL-M3-Ø4	1.Y13282
APBL-M5-Ø4	1.Y13283
APBL-M5-Ø6	1.Y13284
APBL-G18-Ø6	1.Y13285
KQ2H02-M3G	1.Y13101
KQ2H02-M5A	1.Y13102
KQ2H23-M3G	1.Y13103
KQ2H23-M5A	1.Y13104
KQ2H04-M3G	1.Y13105
KQ2H04-M5A	1.Y04451
KQ2H04-M6A	1.Y13106
KQ2H06-M5A	1.Y04452

Page	Model	PN
343	KQ2V04-M5A	1.Y13153
343	KQ2V06-M5A	1.Y13154
343	KQ2V04-01A5	1.Y13155
343	KQ2V06-01A5	1.Y13156
343	KQ2V06-02A5	1.Y13158
343	KQ2V08-01A5	1.Y13159
343	KQ2V08-02A5	1.Y13157
343	KQ2V08-03A5	1.Y13160
343	KQ2V10-02A5	1.Y13161
343	KQ2V10-03A5	1.Y13162
343	KQ2V12-03A5	1.Y13163
343	KQ2V12-04A5	1.Y13164
343	KQ2V16-03A5	1.Y13165
343	KQ2V16-04A5	1.Y13166
343	KQ2T02-M3G	1.Y13167
343	KQ2T02-M5A	1.Y13168
343	KQ2T23-M3G	1.Y13169
343	KQ2T23-M5A	1.Y13170
343	KQ2T04-M3G	1.Y13171
343	KQ2T04-M5A	1.Y01536
343	KQ2T04-M6A	1.Y13172
344	KQ2T06-M5A	1.Y03052
344	KQ2T06-M6A	1.Y13173
344	KQ2T23-01A5	1.Y13174
344	KQ2T23-02A5	1.Y13175
344	KQ2T04-01A5	1.Y13176
344	KQ2T04-02A5	1.Y13177
344	KQ2T06-01A5	1.Y05154
344	KQ2T06-02A5	1.Y13178
344	KQ2T06-03A5	1.Y13179
344	KQ2T08-01A5	1.Y13180
344	KQ2T08-02A5	1.Y13181
344	KQ2T08-03A5	1.Y13182
344	KQ2T10-01A5	1.Y13183
344	KQ2T10-02A5	1.Y13184
344	KQ2T10-03A5	1.Y13185
344	KQ2T10-04A5	1.Y13186
344	KQ2T12-02A5	1.Y13187
345	KQ2T12-03A5	1.Y13188
345	KQ2T12-04A5	1.Y13189
345	KQ2T16-02A5	1.Y13190
345	KQ2T16-03A5	1.Y13191
345	KQ2T16-04A5	1.Y13192
345	KQ2T02-00A	1.Y13193
345	KQ2T23-00A	1.Y13194
345	KQ2T04-00A	1.Y03077
345	KQ2T06-00A	1.Y03076
345	KQ2T08-00A	1.Y00761
345	KQ2T10-00A	1.Y13195
345	KQ2T12-00A	1.Y13196
345	KQ2T16-00A	1.Y13197
345	KQ2T23-04A	1.Y13198
345	KQ2T04-06A	1.Y04160
345	KQ2T06-08A	1.Y04159
345	KQ2T08-10A	1.Y07561
345	KQ2T10-12A	1.Y13199
345	KQ2T12-16A	1.Y13200
345	KQ2T06-04A	1.Y13201
345	KQ2T08-06A	1.Y13202
345	KQ2T10-08A	1.Y13203
345	KQ2T12-10A	1.Y13204
345	KQ2U02-00A	1.Y13205
345	KQ2U23-00A	1.Y13206
345	KQ2U04-00A	1.Y02601
345	KQ2U06-00A	1.Y02600
345	KQ2U08-00A	1.Y03078
345	KQ2U10-00A	1.Y13207

[illegible]

Index





Index



Model	PN	Page
KQ2U12-00A	1.Y13208	349
KQ2U16-00A	1.Y13209	349
KQ2UD04-06A	1.Y06909	349
KQ2UD06-08A	1.Y08529	349
Model	Intake Throttle Exhaust throttling	Page
AS12 <i>1</i> 1F-MS-02A	1.Y13218	349
AS12 <i>1</i> 1F-MS-23A	1.Y13219	349
AS12 <i>1</i> 1F-MS-04A	1.Y13220	349
AS12 <i>1</i> 1F-MS-06A	1.Y13221	349
AS22 <i>1</i> 1F-01-23SA	1.Y13225	350
AS22 <i>1</i> 1F-01-04SA	1.Y13226	350
AS22 <i>1</i> 1F-01-06SA	1.Y13227	350
AS22 <i>1</i> 1F-01-08SA	1.Y13228	350
AS22 <i>1</i> 1F-01-10SA	1.Y13229	350
AS22 <i>1</i> 1F-02-23SA	1.Y13230	350
AS22 <i>1</i> 1F-02-04SA	1.Y13231	350
AS22 <i>1</i> 1F-02-06SA	1.Y13232	350
AS22 <i>1</i> 1F-02-08SA	1.Y13233	350
AS22 <i>1</i> 1F-02-10SA	1.Y13234	350
AS32 <i>1</i> 1F-02-06SA	1.Y13235	350
AS32 <i>1</i> 1F-02-08SA	1.Y13236	350
AS32 <i>1</i> 1F-02-10SA	1.Y13237	350
AS32 <i>1</i> 1F-02-12SA	1.Y13238	350
AS32 <i>1</i> 1F-03-06SA	1.Y13239	350
AS32 <i>1</i> 1F-03-08SA	1.Y13240	350
AS32 <i>1</i> 1F-03-10SA	1.Y13241	350
AS32 <i>1</i> 1F-03-12SA	1.Y13242	350
AS42 <i>1</i> 1F-04-10SA	1.Y13243	350
AS42 <i>1</i> 1F-04-12SA	1.Y13244	350
AS42 <i>1</i> 1F-04-16SA	1.Y13245	350
Model	PN	Page
KJP-02	1.Y13210	350
KQ2P-23	1.Y13211	350
KQ2P-04	1.Y13212	350
KQ2P-06	1.Y13213	350
KQ2P-08	1.Y13214	350
KQ2P-10	1.Y13215	350
KQ2P-12	1.Y13216	350
KQ2P-16	1.Y13217	350
AS1002F-02	1.Y13264	351
AS1002F-23	1.Y13265	351
AS1002F-04	1.Y04457	351
AS1002F-06	1.Y04777	351
AS2002F-04	1.Y13266	351
AS2002F-06	1.Y13267	351
AS2052F-06	1.Y13268	351
AS2052F-08	1.Y13269	351
AS3002F-06	1.Y13270	351
AS3002F-08	1.Y13271	351
AS3002F-10	1.Y13272	351
AS3002F-12	1.Y13273	351
AS4002F-10	1.Y13274	351
AS4002F-12	1.Y13275	351
KCH04-M5	1.Y03525	351
KCH04-01S	1.Y13286	351
KCH06-M5	1.Y03524	351
KCH06-01S	1.Y13287	351
KCH08-01S	1.Y13288	351
AH4B	1.Y00824	352
AH4BU	1.Y03687	352
AH4G	1.Y00823	352
AH4T	1.Y03686	352
AH4Y	1.Y00821	352
AH4R	1.Y00822	352
AH4O	1.Y05661	352
AH6B	1.Y00830	352
AH6BU	1.Y00829	352

Model	PN	Page
AH6G	1.Y00825	352
AH6T	1.Y00827	352
AH6Y	1.Y00828	352
AH6R	1.Y00826	352
AH6O	1.Y04640	352
AH8B	1.Y04478	352
AH8BU	1.Y00831	352
AH10B	1.Y04476	352
AH10BU	1.Y05660	352





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