Complex gripper, flexible assembly

End-Of-Arm-Tooling
机器人末端工装夹具 -EOAT

5.1

ROBOTICS PARTS CATALOG

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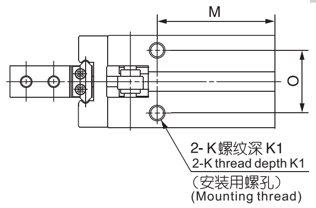
平行夹 Parallel Gripper

货号(PN)	S	1.Y00258	1.Y00257	1.Y03080	1.Y09884	1.Y09885	1.Y09887
	D	1.Y00252	1.Y00256	1.Y02703	1.Y09338	1.Y09886	1.Y09888
型号(Model)	S	GMHZ2-10S	GMHZ2-16S	GMHZ2-20S	GMHZ2-25S	GMHZ2-32S	GMHZ2-40S
	D	GMHZ2-10D	GMHZ2-16D	GMHZ2-20D	GMHZ2-25D	GMHZ2-32D	GMHZ2-40D
缸径 Bore		10	16	20	25	32	40
使用流体 Fluid		空气 Air					
使用压力 范围(MPa) Operating pressure range	单作用 Single action	0.35~0.7	0.25~0.7				
	双作用 Double action	0.2~0.7	0.1~0.7				
环境及流体温度 Environment and fluid temperature		-10~60℃					
重复精度(mm) Repeatability accuracy		±0.01				±0.02	
最高使用频率(c.p.m) Maximum frequency of use		180				60	
动作方式 Action mode		单作用·双作用 Single action · Double action					
磁性开关(可选项) Magnetic switch (optional)		无触点磁性开关 Contactless magnetic switch					
接管口径 Pipe Size		M3×0.5	M5×0.8				
重量(Weight)	S	53g	123g	227g	309g	415g	543g
	D	52.5g	120g	225g	314g	410g	537g



[标准型] GMHZ2— 20 D

Standard type

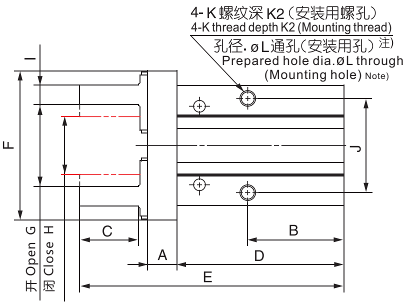
平行开闭型 Parallel opening and closing type

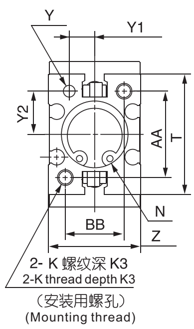
缸径 Bore

10	10mm
16	16mm
20	20mm
25	25mm
32	32mm
40	40mm

动作方式 Action mode

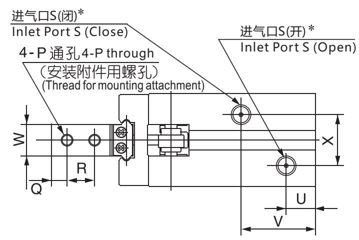
D	双作用式 Double action
S	单作用式(常开) Single action(Open)



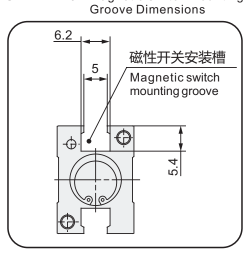


夹持力 / Gripping force

型 号 Model	夹持力 N/ Gripping force N 每个手指夹持力的有效值 Gripping force per finger Effective value 双动(D) Double action 外径/External	内径/Internal	单动(S) Single action 外径/External	开闭行程(两侧) mm Opening/Closing stroke (Both sides) (mm)
GMHZ2-10□	11	17	7.1	4
GMHZ2-16□	34	45	27	6
GMHZ2-20□	42	66	33	10
GMHZ2-25□	65	104	45	14
GMHZ2-32□	158	193	131	22
GMHZ2-40□	254	318	217	30

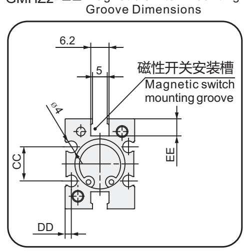


GMHZ2-10□的磁性开关安装槽尺寸
GMHZ2-10□ Magnetic Switch Mounting Groove Dimensions



注）使用磁性开关时，气爪不可以通孔安装
Note) When using Magnetic switches, throughhole mounting is not possible.

GMHZ2- □□ 的磁性开关安装槽尺寸
GMHZ2- □□ Magnetic Switch Mounting Groove Dimensions



注）使用磁性开关 D-Y59 、 D-Y69 及 D-Y7 时，气爪不可以通孔安装
Note) When using Magnetic switchesD-Y59、D-Y69、D-Y7, throughhole mounting is not possible.

* 单作用的场合，一侧通口变成呼吸孔。
* For single action, the port on one side is a breathing hole.

尺寸表(mm) Dimensions table

缸径(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	$15.2^{+2.2}_{0}$	$11.2^{0}_{-0.7}$	$4^{0}_{-0.1}$	16	M3x0.5	6	5.5	6	2.6	27	Ø11H9↧2
16	7.5	24.5	15	42.5	67.3	38	$20.9^{+2.2}_{-0.2}$	$14.9^{0}_{-0.7}$	$5^{0}_{-0.1}$	24	M4x0.7	4.5	8	8	3.4	30	Ø17H9↧2
20	9.5	29	20	52.8	84.8	50	$26.3^{+2.2}_{-0.2}$	$16.3^{0}_{-0.7}$	$8^{0}_{-0.1}$	30	M5x0.8	8	10	10	4.3	35	Ø21H9↧3
25	11	30	25	63.6	102.7	63	$33.3^{+2.5}_{-0.2}$	$19.3^{0}_{-0.8}$	$10^{0}_{-0.1}$	36	M6x1	10	12	12	5.1	36.5	Ø26H9↧3.5
32	12	40(49)	29	67(76)	113(122)	97	$48^{+2.5}_{0}$	$26^{0}_{-0.5}$	$12^{0}_{-0.1}$	46	M6x1	10	13	13	5.1	48(57)	Ø34H9↧4
40	15	49(62)	36	83(96)	139(152)	119	$60^{+2.7}_{0}$	$30^{0}_{-0.5}$	$14^{0}_{-0.1}$	56	M8x1.25	13	16	17	6.6	58(71)	Ø42H9↧4

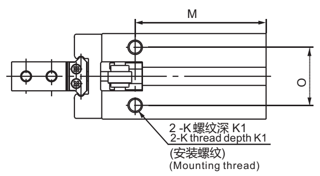
缸径(Bore)	O	P	Q	R	S	T	U	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	11.4	M2.5x0.45	3	5.7	M3x0.5	23	9	19	$5^{0}_{-0.05}$	11	ø2H9↧3	16.4±0.05	5.2±0.02	7.6±0.02	18	12	-	-	-
16	16	M3x0.5	4	7	M5x0.8	30.6	7.5	19	$8^{0}_{-0.05}$	13	ø3H9↧3	23.6±0.05	6.5±0.02	11±0.02	22	15	11.6	2.1	5.8
20	18.6	M4x0.7	5	9	M5x0.8	42	10	23	$10^{0}_{-0.05}$	15	ø4H9↧4	27.6±0.05	7.5±0.02	16.8±0.02	32	18	14	2.1	9
25	22	M5x0.8	6	12	M5x0.8	52	10.7	23.5	$12^{0}_{-0.05}$	20	ø4H9↧4	33.6±0.05	10±0.02	21.8±0.02	40	22	19	3.5	11.5
32	26	M6x1	7	14	M5x0.8	60	11	31(37)	$15^{0}_{-0.05}$	24	ø5H9↧5	40±0.1	12±0.02	23±0.02	46	26	24	3.3	11.5
40	32	M8x1.25	9	17	M5x0.8	72	12	38(45)	$18^{0}_{-0.05}$	28	ø5H9↧5	48±0.1	14±0.02	29±0.02	56	32	29.4	3.7	13

开关选择请参考 P190 页
For switch selection, please refer to page P191.

注)( )内的尺寸为单动的尺寸
The size of the single action is within ().

加长平行夹 Lengthen Parallel Gripper

货号(PN)	S	1.Y09405	1.Y08175	1.Y09882	1.Y09883
	D	1.Y07974	1.Y08146	1.Y07975	1.Y08802
型号(Model)	S	GMHZL2-10S	GMHZL2-16S	GMHZL2-20S	GMHZL2-25S
	D	GMHZL2-10D	GMHZL2-16D	GMHZL2-20D	GMHZL2-25D
缸径 Bore		10	16	20	25
使用流体 Fluid		空气 Air			
使用压力 范围(MPa) Operating pressure range	单作用 Single action	0.35~0.7	0.25~0.7		
	双作用 Double action	0.2~0.7	0.1~0.7		
环境及流体温度 Environment and fluid temperature		-10~60℃			
重复精度(mm) Repeatability accuracy		±0.01			
最高使用频率(c.p.m) Maximum frequency of use		120			
动作方式 Action mode		单作用·双作用 Single action · Double action			
磁性开关(可选项) Magnetic switch (optional)		无触点磁性开关 Contactless magnetic switch			
接管口径 Pipe Size		M3×0.5	M5×0.8		
重量(Weight)	S	63g	139g	218g	302g
	D	59g	130g	211g	293g



[标准型] GMHZL2- 20 D
Standard type

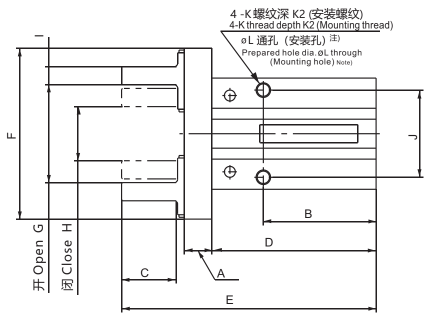
长行程型
Long Stroke type

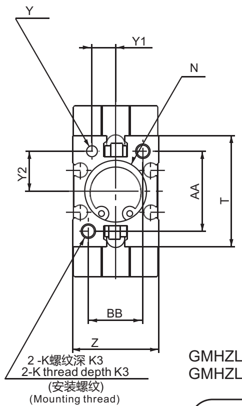
缸径
Bore

10	10mm
16	16mm
20	20mm
25	25mm

动作方式
Action mode

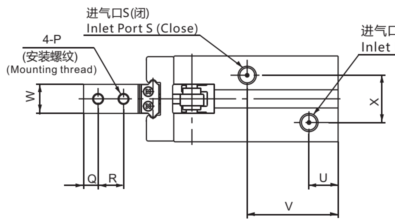
D	双作用式 Double action
S	单作用式(常开) Single action(Open)





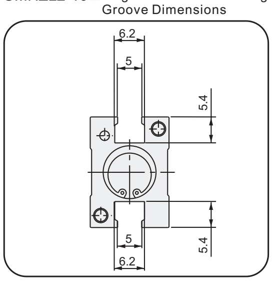
夹持力 / Gripping force

型号 Model	夹持力 N/ Gripping force N 每个手指夹持力的有效值 Gripping force per finger Effective value 双动(D) Double action 外径/External	内径/Internal	单动(S) Single action 外径/External	开闭行程(两侧) mm Opening/Closing stroke (Both sides) (mm)
GMHZL2-10□	11	17	7.1	8
GMHZL2-16□	34	45	27	12
GMHZL2-20□	42	66	33	18
GMHZL2-25□	65	104	50	22



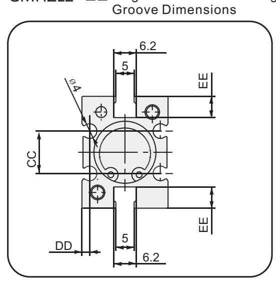
* 单作用的场合，一侧 接口变成呼吸孔
* For single action, the port on one side is a breathing hole.

GMHZL2-10□磁性开关安装槽尺寸
GMHZL2-10□Magnetic Switch Mounting Groove Dimensions



注）使用磁性开关时，气爪不可以通孔安装
Note) When using Magnetic switches, throughhole mounting is not possible.

GMHZL2- □□ 磁性开关安装槽尺寸
GMHZL2- □□ Magnetic Switch Mounting Groove Dimensions



注）使用磁性开关 D-Y59 、 D-Y69 及 D-Y7 时，气爪不可以通孔安装
Note) When using Magnetic switchesD-Y59、D-Y69、D-Y7, throughhole mounting is not possible.

尺寸表(mm) Dimensions table

缸径(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	$19.2^{+2.2}_{0}$	$11.2^{0}_{-0.4}$	$4^{0}_{-0.1}$	16	M3x0.5	6	5.5	6	2.6	29(39)	Ø11H9↧2
16	7.5	31(36)	15	45.2(50.2)	70(75)	47	$26.9^{+2.2}_{0}$	$14.9^{0}_{-0.4}$	$5^{0}_{-0.1}$	24	M4x0.7	4.5	8	8	3.4	36(41)	Ø17H9↧2
20	9.5	36(42)	20	58(64)	90(96)	62	$34.3^{+2.4}_{0}$	$16.3^{0}_{-0.4}$	$8^{0}_{-0.1}$	30	M5x0.5	8	10	10	4.3	43(49)	Ø21H9↧3
25	11	40(50)	25	66.9(76.9)	106(116)	75	$41.3^{+2.6}_{0}$	$19.3^{0}_{-0.4}$	$10^{0}_{-0.1}$	36	M6x1	10	12	12	5.1	48(58)	Ø26H9↧3.5

缸径(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)	$5^{0}_{-0.05}$	11	Ø2H9↧3	16.4±0.05	5.2±0.02	7.6±0.02	18	12	-	-	-
16	16	M3x0.5	4	7	M5x0.8	30.6	8	25(30)	$8^{0}_{-0.05}$	13	Ø2H9↧3	23.6±0.05	6.5±0.02	11±0.02	22	15	11.6	2.1	5.8
20	18.6	M4x0.7	5	9	M5x0.8	42	10	30(36)	$10^{0}_{-0.05}$	15	Ø4H9↧4	27.6±0.05	7.5±0.02	16.8±0.02	32	18	14	2.1	9
25	22	M5x0.8	6	12	M5x0.8	52	10	33(43)	$12^{0}_{-0.05}$	20	Ø4H9↧4	33.6±0.05	10±0.02	21.8±0.02	40	22	19	3.5	11.5

开关选择请参考 P190 页
For switch selection, please refer to page P191.

注)( ) 内的尺寸为单动的尺寸
The size of the single action is within ().

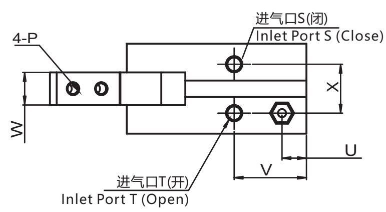
Y 型夹 Y Type Gripper

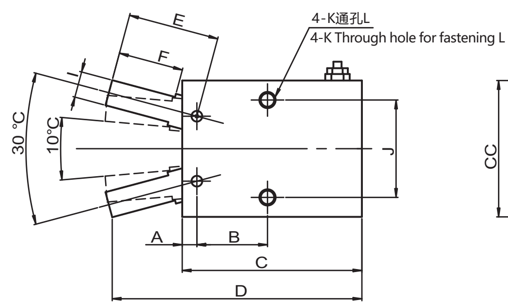
货号(PN)			
货号(PN)	S	1.Y02014	1.Y02730
	D	1.Y05738	1.Y04328
型号(Model)	S	GMHC2-16S	GMHC2-20S
	D	GMHC2-16D	GMHC2-20D
缸径 Bore		16	20
使用流体 Fluid		空气 Air	
使用压力 范围(MPa) Operating pressure range	单作用 Single action	0.1~0.6	
	双作用 Double action	0.25~0.6	
环境及流体温度 Environment and fluid temperature		-10~60℃	
最高使用频率(c.p.m) Maximum frequency of use		180c.p.m	
重复精度(mm) Repeatability accuracy		±0.01	
重量(Weight)	S	99g	167g
	D	108g	177g

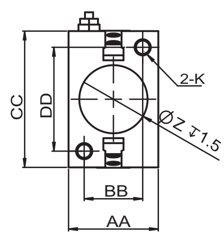
[标准型] GMHC2— 20 D
Standard type
支点开闭型 Bearing point opening and closing type
缸径 Bore
动作方式 Action mode

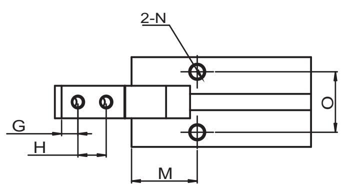
缸径 Bore	
16	16mm
20	20mm

动作方式 Action mode	
D	双作用式 Double action
S	单作用式(常开) Single action(Open)







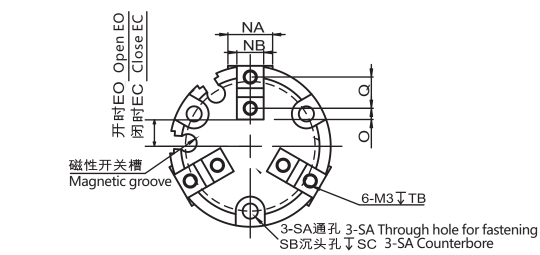


缸径 (Bore) (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	接管口径 Pipe Size S T	U	V	W	X	Z	AA	BB	CC	DD
16	3.9	16.2	44.6	62.5	22.6	16	4	7	7	24	M4X0.7↧8	3.4	10.7	M4X0.7↧8	16	M3X0.5	M5X0.8	7	18.3	8	13	17	23.6	15	30.6	22
20	4.5	21.7	55.2	78.7	28	20	5.2	9	8	30	M5X0.8↧10	4.3	15.7	M5X0.8↧8	8.6	M4X0.7	M5X0.8	7.5	22.2	10	15	21	27.6	18	42	32

开关选择请参考 P190 页
For switch selection, please refer to page P191.

货号(PN)		1.Y04529	1.Y04764	1.Y05750
型号(Model)		GMHS3-16D	GMHS3-20D	GMHS3-25D
缸径 Bore		16	20	25
使用流体 Fluid		空气 Air		
使用压力范围 Operating pressure range		0.2~0.6MPa		
环境及流体温度 Environment and fluid temperature		-10~60℃		
重复精度(mm) Repeatability accuracy		±0.01		
最高使用频率(c.p.m) Maximum frequency of use		120c.p.m		
动作方式 action mode		双作用 Double action		
注)夹持力N 压力0.5MPa Note) gripping force N Pressure 0.5MPa	外径夹持 External diameter clamping	14	25	42
	内径夹持 internal diameter clamping	16	28	47
	带防尘罩外径夹持 External diameter clamping with dust cover	9	21	36
带罩·标准型手指行程 Standard finger stroke with hood		4	4	6
长行程手指行程 Long stroke finger stroke		10	10	12
接管口径Rc Pipe Size		M3×0.5	M5×0.8	
磁性开关 Magnetic switch		内置磁环型 Built in magnetic ring type		
重量 Weight		59g	96.7g	138g

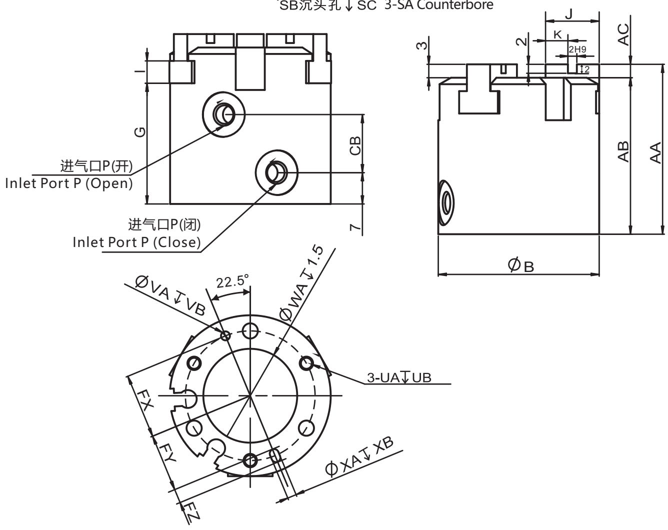
注)夹持外径时的夹持力，Ø16-Ø25的夹持点距离L=20mm时的数值
Note)Clamping force when holding the outside diameter,
The value of the holding point of Ø16-Ø25 is L=20mm



[标准型] GMHS3— 25 D
Standard type

缸径 Bore	
16	16mm
20	20mm
25	25mm

动作方式 Action mode	
D	双作用式 Double action
S	单作用式(常开) Single action(Open)



缸径(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

缸径(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

开关选择请参考 P190 页
For switch selection, please refer to page P191.

型材、钢管 Profile、SUS Tube
支架模组 Stents Module
快换 Quick Changer
夹具组件 Grip Module
气动剪刀 Air Nipper
真空组件 Vacuum Module
附件 Accessory Components

FPT两指平动式抓手 FPT Two-finger Translational Gripper

基本版
Basic version

防尘版
Dustproof version

高温版
High temperature version

产品特点 Features

- T齿导轨,结构紧凑,可靠
- 磁性开关接口
- 接近开关接口
- 无管连接接口
- 一千万次免维护操作
- T-tooth guide rail. Compact structure and reliable
- Magnetic switch interface
- Proximity switch interface
- Pipeless connection interface
- Ten million maintenance-free operations

技术参数 Technical Parameter

货号 (PN)	型号 (Model)	单指行程 Single finger stroke (mm)	夹持力 Gripping force (N)	自重 Self Weight (kg)	工件重量 Workpiece weight (kg)	最长手指长度 Longest finger length (mm)	最大单个手指重量 Maximum single finger weight (kg)	重复定位精度 Repeat positioning accuracy (mm)	IP等级 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	028	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

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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

型号解释
Model explanation

-SD 防尘版

-SD Dustproof version

-TEM 高温版

-TEM High temperature version

可选附件(详情见后)
Optional accessories(see below for details)

接近开关 M8
Proximity switch M8

磁性开关 M8
Magnetic switch M8

90°弯角
可旋转气管接头
90° bend angle
Rotatable Hose Fitting

FCT三指平动式抓手 FCT Three-finger Translational Gripper

基本版
Basic version

防尘版
Dustproof version

高温版
High temperature version

产品特点 Features

- T齿导轨,结构紧凑,可靠
- 磁性开关接口
- 接近开关接口
- 无管连接接口
- 一千万次免维护操作
- T-tooth guide rail. Compact structure and reliable
- Magnetic switch interface
- Proximity switch interface
- Pipeless connection interface
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技术参数 Technical Parameter

货号 (PN)	型号 (Model)	单指行程 Single finger stroke (mm)	夹持力 Gripping force (N)	自重 Self Weight (kg)	工件重量 Workpiece weight (kg)	最长手指长度 Longest finger length (mm)	最大单个手指重量 Maximum single finger weight (kg)	重复定位精度 Repeat positioning accuracy (mm)	IP等级 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

型号解释
Model explanation

-SD 防尘版
-SD Dustproof version

-TEM 高温版
-TEM High temperature version

可选附件(详情见后)
Optional accessories(see below for details)

接近开关 M8
Proximity switch M8

磁性开关 M8
Magnetic switch M8

90°弯角
可旋转气管接头
90° bend angle
Rotatable Hose Fitting

弹性卸料机构
Elastic unloading mechanism

附件 Accessory Components

产品图 Product image	货号 (PN)	产品型号 Product Model	描述 Description
 接近开关 M8 Proximity switch M8	1.Y01631	E2E-XIR5E12M	线长2m，末端裸露线 Wire length is 2m, the end is bare
	1.Y06553	E2E-XIR5F12M	线长2m，末端裸露线 Wire length is 2m, the end is bare

产品图 Product image	货号 (PN)	产品型号 Product Model	描述 Description
 磁性开关 M8 Magnetic switch M8	1.Y00307	D-M9BL	线长3m，末端裸露线 Wire length is 3m, the end is bare

产品图 Product image	货号 (PN)	产品型号 Product Model	描述 Description
 M8可接线连接器 M8 wireable connector	1.Y06722	M8-M03T	3针M8现场可接线连接器 3 pins M8 Field wirable connector

产品图 Product image	货号 (PN)	产品型号 Product Model	描述 Description
 90°弯角 可旋转气管接头 90° bend angle Rotatable Hose Fitting	1.Y13156	KQ2V06-01AS	90度弯头，G1/8螺纹接头，6mm气管接头输出 90 degree elbow, G1/8 threaded connector, 6mm Hose Fitting output
	1.Y13158	KQ2V08-01AS	90度弯头，G1/8螺纹接头，8mm气管接头输出 90 degree elbow, G1/8 threaded connector, 8mm Hose Fitting output
	1.Y13157	KQ2V06-02AS	90度弯头，G1/4螺纹接头，6mm气管接头输出 90 degree elbow, G1/4 threaded connector, 6mm Hose Fitting output

产品图 Product image	货号 (PN)	产品型号 Product Model
 弹性卸料机构 Elastic unloading mechanism	1.Y13381	SL-040
	1.Y13382	SL-050
	1.Y13383	SL-064
	1.Y13384	SL-080
	1.Y13385	SL-100
	1.Y13386	SL-120
	1.Y13387	SL-160
	1.Y13388	SL-200
	1.Y13389	SL-240
	1.Y13390	SL-300

气动滑台 GMXS系列 Air Slide Table GMXS Series

型号Model	GMXS6	GMXS8	GMXS12	GMXS16	GMXS20	GMXS25
缸径(mm) Bore size (mm)	Ø 6x2 (相当于Ø 8)	Ø 8x2 (相当于Ø 11)	Ø 12x2 (相当于Ø 17)	Ø 16x2 (相当于Ø 22)	Ø 20x2 (相当于Ø 28)	Ø 25x2 (相当于Ø 35)
配管连接口径 Piping port size	M3 x 0.5	M5 x 0.8			Rc1/8	
使用流体 Fluid	空气 Air					
动作方式 Action	双作用 Double acting					
最高使用压力 Maximum operating pressure	0.7MPa					
最低使用压力 Minimum operating pressure	0.15MPa					
环境和流体温度 Ambient and fluid temperatures	-10~+60°C(但未冻结) (No freezing)					
活塞速度 Piston speed	50~500mm/s					
缓冲 Action	橡胶缓冲（标准）Rubber buffer (standard)					
润滑 Lubrication	不需要 Non-lube					

*可选择带可调行程装置（0~5mm)。
*双气缸设计，2倍输出力，体积薄。
*气缸及工作台相结合，使整体尺寸减小。
*采用十字滚柱导轨设计，摩擦力小，气缸与工作台之间没有空隙存在，适合精密组装。
*可从三面安装。
*内置磁环型，可安装磁性开关。

*Optional with adjustable stroke device (0-5mm)
*Double cylinder with 2 times output force, thin volume
*The combination of cylinder and worktable reduces the overall size
*Roller slider design, small friction, no gap between cylinder and worktable, suitable for precise assembly
*Can install from 3 sides
*Built-in ring , can install magnetic switch

*如需润滑，请用透平1号油ISOVG32。
*Please use turbine No.1 oil ISOVG32 if need.

选择表/Selection table

	缸径 Bore size (mm)	行程stroke（mm） 10	20	30	40	50	75	100	125	150	功能可选项Functional options: 行程调整装置 Adjustable stroke device (0~5mm)	弹簧缓冲 With buffer	带端锁 With end lock	轴向接管 Axial piping	磁性开关型号 Magnetic switch: 直接安装 Install directly 2线 2-wire	3线 3-wire
GMXS系列	ø 6x2	●	●	●	●	●	●	●	●	●	●	●		●	D-M9B D-M9BL D-M9BV D-M9BVL	D-M9N D-M9NL D-M9NV D-M9NVL D-M9P D-M9PL D-M9PV D-M9PVL
	ø 8x2	●	●	●	●	●	●	●	●	●	●	●	●	●		
	ø 12x2	●	●	●	●	●	●	●	●	●	●	●	●	●		
	ø 16x2	●	●	●	●	●	●	●	●	●	●	●	●	●		
	ø 20x2	●	●	●	●	●	●	●	●	●	●	●	●	●		
	ø 25x2	●	●	●	●	●	●	●	●	●	●	●	●	●		

型号表示方法
Model representation methods

GMXS 12 - 50 □ □ - M9N □

缸径 Bore　行程 Stroke

调整装置 Adjusting device

无记号 Nil	无 Without adjuster
AS	前端调程 Adjuster on extension end
AT	后端调程 Adjuster on retraction end
A	两端调程 Adjuster on both ends
*BS	*前端液压缓冲器 Absorber on extension end
*BT	*后端液压缓冲器 Absorber on retraction end
*B	两端液压缓冲器 Absorber on both ends

*GMXS6无液压缓冲器
*GMXS6 without hydraulic buffer

功能可选项 Functional options

无记号 Nil	无 Without adjuster
F	带弹簧缓冲 With buffer
*R	带端锁 With end lock
P	轴向接管 Axial piping type
*FR	带弹簧缓冲及端锁 With buffer and end lock
FP	带弹簧缓冲及轴向接管 With buffer, Axial piping type

*GMXS6无端锁式
*GMXS6 without locking

磁性开关个数 Number of Magnetic switches

无记号 Nil	2个
s	1个
n	n个

磁性开关型号 Magnetic switch

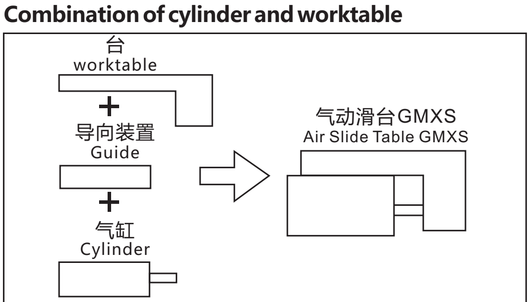
无记号 Nil	无磁性开关 Without Magnetic switch

*磁性开关型号参见上表
* For the applicable Magnetic switch models, refer to the table above.

注)磁性开关的规格及特性参见磁性开关系列。在磁性开关型号后面，附导线长度表示记号：无记号-0.5m, L-3m, Z-5m.
例：A96，A96L

Note)The specification and characteristics of magnetic switch can refer to the series of magnetic switch . At the end of the model of magnetic switch,the length mark of conductor is attached: Nomark-0.5m,L-3m,Z-5m
Example:A96,A96L

气缸及工作台组合
Combination of cylinder and worktable



高精度、坚固的应用
High precision、sturdy application

高精度拾放装置 Picking and placement with high precision

负载大 Heavy load

驱动自动螺丝刀 Drive automatic screwdriver

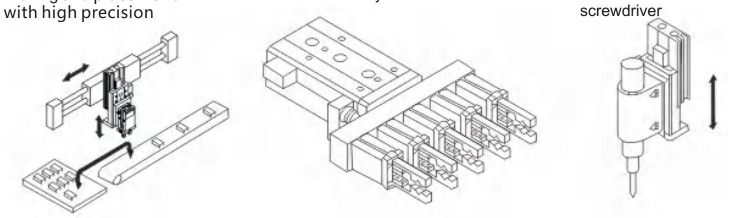


图1 集中负载质量: W(kg)
Fig. (1) Load Mass: W (kg)

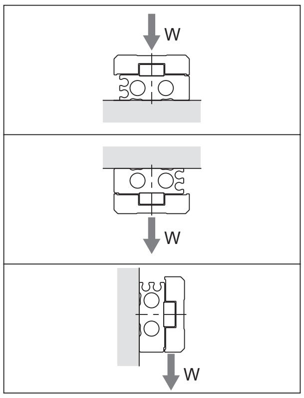
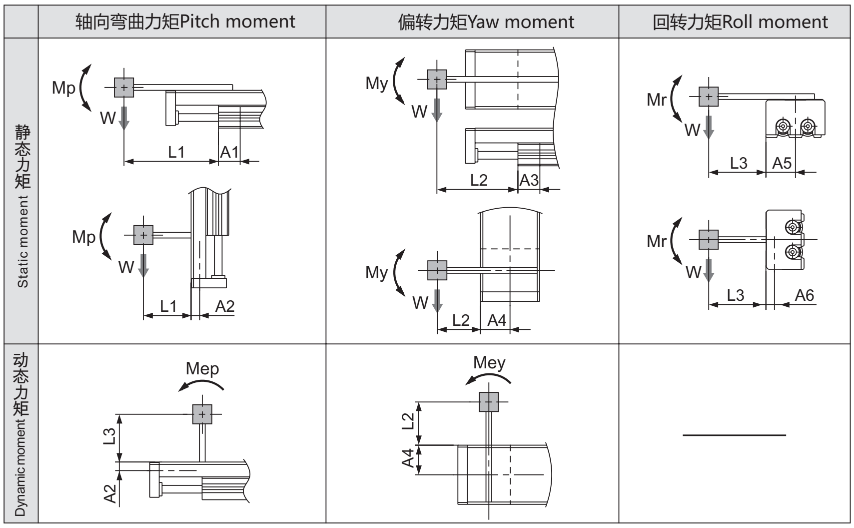


图2 外伸量: Ln(mm)、力矩中心位置距离修正值: An(mm)
Fig. (2) Overhang: Ln (mm), Correction Value of Moment Center Position Distance: An (mm)



注) 静力矩: 由重力产生的力矩
动力矩: 冲击限位器时，由冲击产生的力矩

Note) Static moment: Moment generated by gravity
Dynamic moment: Moment generated by impact when colliding with stopper

图3 工件安装系数: K
Fig. (3) Workpiece Mounting Coefficient: K

装在滑台上
Table mounting

装在端板上
End plate mounting

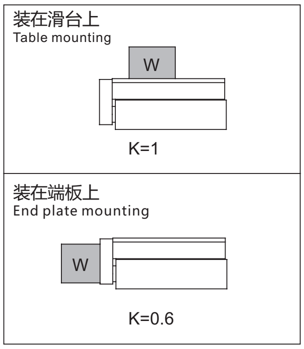


表1 最大允许动能: Emax(J)
Table (1) Maximum Allowable Kinetic Energy: Emax (J)

型号Model	允许动能Allowable kinetic energy	
	垫缓冲Rubber bumper	液压缓冲器Shock absorber
GMXS6	0.018	-
GMXS8	0.027	0.045
GMXS12	0.055	0.11
GMXS16	0.11	0.22
GMXS20	0.16	0.32
GMXS25	0.24	0.48

图4 允许集中负载质量系数: β
Table (4) Allowable Load Mass Coefficient: β

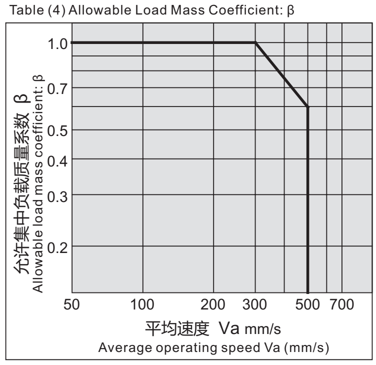


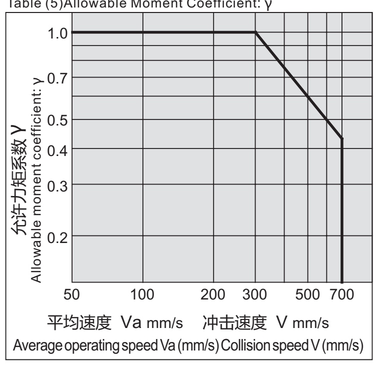
表2 最大允许集中负载质量: Wmax(kg)
Table (2) Maximum Allowable Load Mass: Wmax (kg)

型号 Model	最大允许集中负载质量 Maximum allowable load mass
GMXS6	0.6
GMXS8	1
GMXS12	2
GMXS16	4
GMXS20	6
GMXS25	9

表3 力矩中心位置距离修正值: An(mm)
Table (3) Correction Value of Moment Center Position Distance : An (mm)

型号 Model	力矩中心位置距离修正值(参见图2) Correction value of moment center position distance (Refer to Figure 2.)					
	A1	A2	A3	A4	A5	A6
GMXS6	11	6	13	16	16	6
GMXS8	11	7.5	13	20	20	7.5
GMXS12	24	8.5	26	25	25	8.5
GMXS16	27	10	30	31	31	10
GMXS20	34	14.5	36	38	38	14.5
GMXS25	42	19	44	46	46	19

图5 允许力矩系数: γ
Table (5)Allowable Moment Coefficient: γ



注) 使用平均速度计算静力矩,使用冲击速度计算动力矩
Note) Use the average operating speed when calculating static moment.
Use the collision speed when calculating dynamic moment.

表4 最大允许力矩: Mmax(N•m)
Table (4) Maximum Allowable Moment: Mmax (N·m)

型号 Mode	行程 (mm) Stroke (mm)								
	10	20	30	40	50	75	100	125	150
GMXS6	0.7	1.0	1.2	1.2	1.2	-	-	-	-
GMXS8	2.0	2.0	2.8	3.6	4.2	4.2	-	-	-
GMXS12	4.2	4.2	4.2	5.8	7.0	10.0	10.0	-	-
GMXS16	11.3	11.3	11.3	11.3	15.9	25.0	34.1	34.1	-
GMXS20	19.4	19.4	19.4	19.4	27.2	35.0	50.5	50.5	50.5
GMXS25	30.6	30.6	30.6	30.6	42.8	55.1	67.3	67.3	67.3

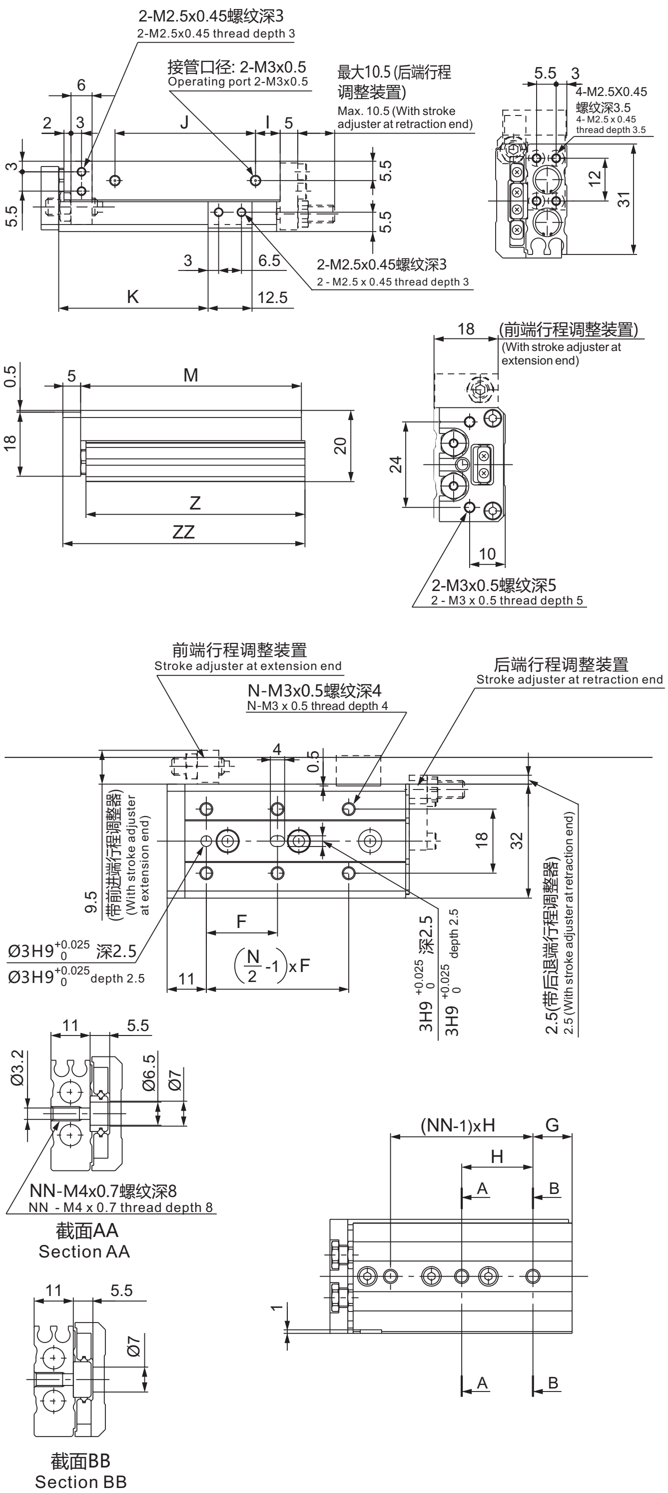
记号表 Symbol

记号Symbol	定义Definition	单位Unit
An(n=1～6)	力矩中心位置距离修正值 Correction value of moment center position distance	mm
E	动能 Kinetic energy	J
Ea	允许动能 Allowable kinetic energy	J
Emax	最大允许动能 Max. allowable kinetic energy	J
Ln(n=1～3)	外伸量 Overhang	mm
M(Mp,My,Mr)	静力矩(弯曲、偏转、回转) Static moment (Pitch, Yaw, Roll)	N•m
Ma(Map,May,Mar)	允许静力矩(弯曲、偏转、回转) Allowable static moment (Pitch, Yaw, Roll)	N•m
Me(Mep,Mey)	动力矩(弯曲、偏转) Dynamic moment (Pitch, Yaw)	N•m
Mea(Meap,Meay)	允许动力矩(弯曲、偏转) Allowable dynamic moment (Pitch, Yaw)	N•m
Mmax(Mpmax,Mymax,Mrmax)	最大允许力矩(弯曲、偏转、回转) Max. allowable moment (Pitch, Yaw, Roll)	N•m
V	冲击速度 Collision speed	mm/s

记号Symbol	定义Definition	单位Unit
Va	平均速度 Average operating speed	mm/s
W	集中负载质量 Load mass	kg
Wa	允许集中负载质量 Allowable load mass	kg
We	冲击当量质量 Mass equivalent to impact	kg
Wmax	最大允许集中负载质量 Max. allowable load mass	kg
α	负载率 Load factor	-
β	允许集中负载质量系数 Allowable load mass coefficient	-
γ	允许力矩系数 Allowable moment coefficient	-
δ	垫缓冲系数 Damper coefficient	-
K	工件安装系数 Workpiece mounting coefficient	-

气动滑台 GMXS系列 Air Slide Table GMXS Series

GMXS 6 基础型 GMXS 6 Basic type

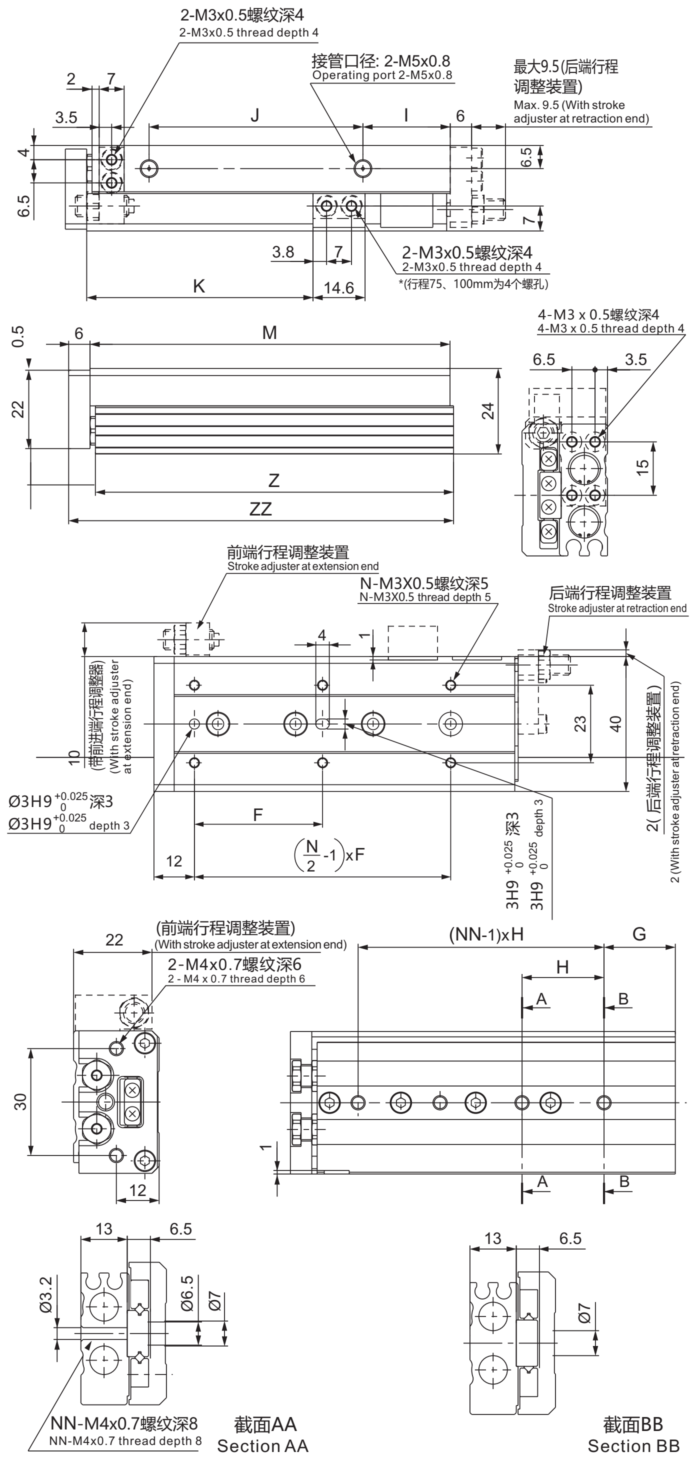


尺寸表 Dimensions (mm)

型号 (Model)	F	N	G	H	NN
GMXS6-10	20	4	6	25	2
GMXS6-20	30	4	6	35	2
GMXS6-30	20	6	11	20	3
GMXS6-40	28	6	13	30	3
GMXS6-50	38	6	17	24	4

型号 (Model)	I	J	K	M	Z	ZZ
GMXS6-10	10	17	22.5	42	41.5	48
GMXS6-20	10	27	32.5	52	51.5	58
GMXS6-30	7	40	42.5	62	61.5	68
GMXS6-40	19	50	52.5	84	83.5	90
GMXS6-50	25	60	62.5	100	99.5	106

GMXS 8 基础型 GMXS 8 Basic type



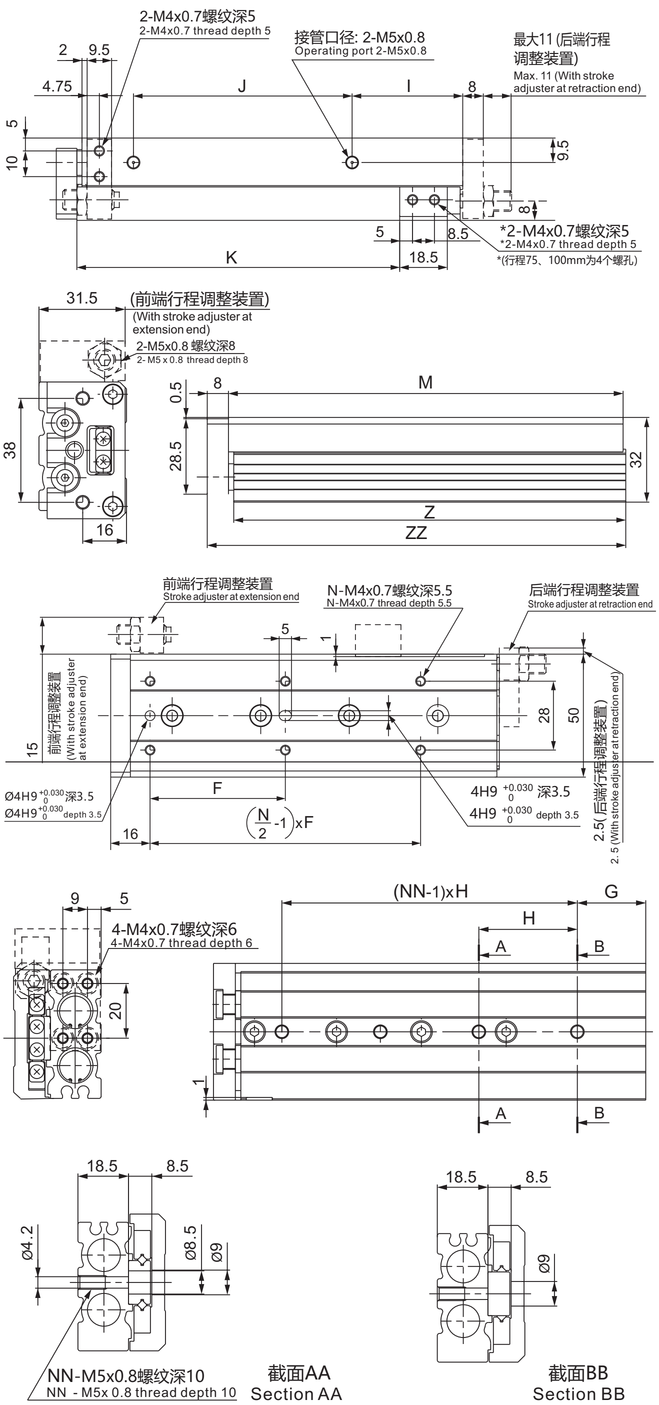
尺寸表 Dimensions (mm)

型号 (Model)	F	N	G	H	NN
GMXS8-10	25	4	9	28	2
GMXS8-20	25	4	12	30	2
GMXS8-30	40	4	13	20	3
GMXS8-40	50	4	15	28	3
GMXS8-50	38	6	20	23	4
GMXS8-75	50	6	27	28	5

型号 (Model)	I	J	K	M	Z	ZZ
GMXS8-10	13	19.5	23.5	49	48.5	56
GMXS8-20	8.5	29	33.5	54	53.5	61
GMXS8-30	9.5	39	43.5	65	64.5	72
GMXS8-40	10.5	56	53.5	83	82.5	90
GMXS8-50	24.5	60	63.5	101	100.5	108
GMXS8-75	38.5	96	88.5	151	150.5	158

气动滑台 GMXS系列 Air Slide Table GMXS Series

GMXS12 基础型 GMXS12 Basic type

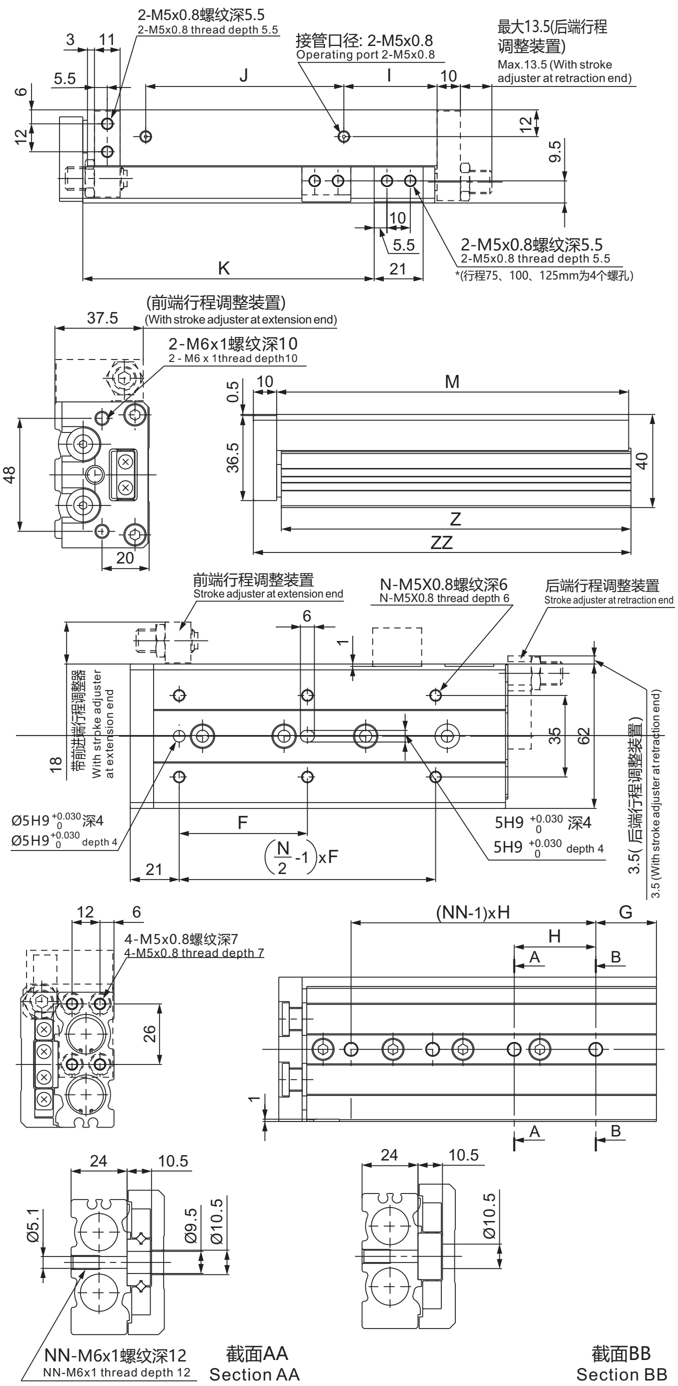


尺寸表 Dimensions (mm)

型号 (Model)	F	N	G	H	NN
GMXS12-10	35	4	15	40	2
GMXS12-20	35	4	15	40	2
GMXS12-30	35	4	15	40	2
GMXS12-40	50	4	17	25	3
GMXS12-50	35	6	15	36	3
GMXS12-75	55	6	25	36	4
GMXS12-100	65	6	35	38	5

型号 (Model)	I	J	K	M	Z	ZZ
GMXS12-10	10	40	26.5	71	70	80
GMXS12-20	10	40	36.5	71	70	80
GMXS12-30	10	40	46.5	71	70	80
GMXS12-40	10	52	56.5	83	82	92
GMXS12-50	22	60	66.5	103	102	112
GMXS12-75	43	85	91.5	149	148	158
GMXS12-100	52	130	116.5	203	202	212

GMXS16 基础型 GMXS16 Basic type

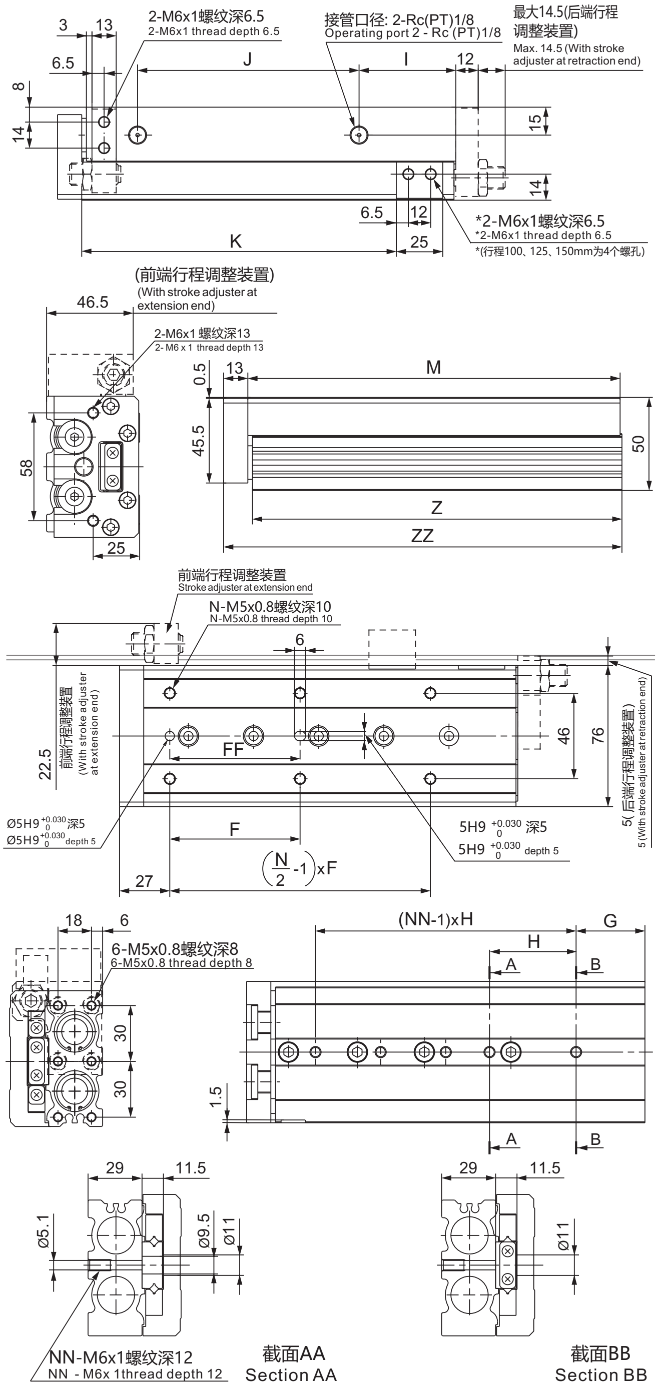


尺寸表 Dimensions (mm)

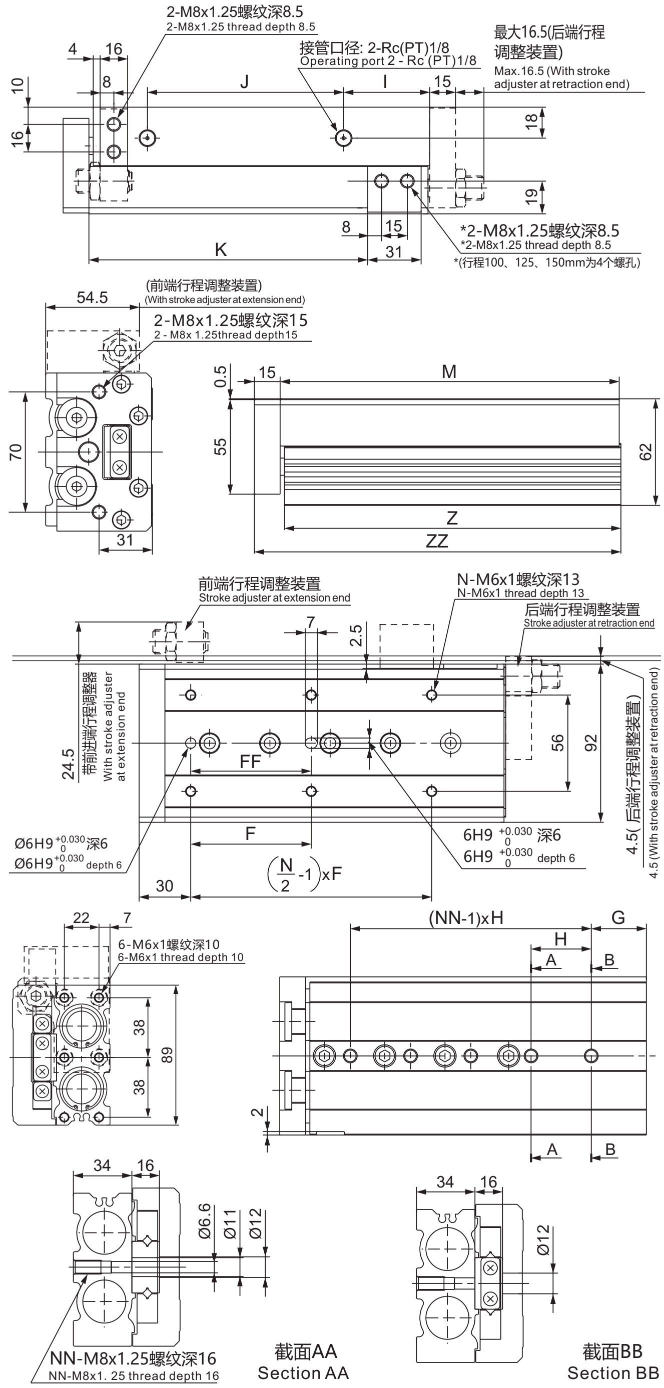
型号 (Model)	F	N	G	H	NN
GMXS16-10	35	4	16	40	2
GMXS16-20	35	4	16	40	2
GMXS16-30	35	4	16	40	2
GMXS16-40	40	4	16	50	2
GMXS16-50	30	6	21	30	3
GMXS16-75	55	6	26	35	4
GMXS16-100	65	6	39	35	5
GMXS16-125	70	8	19	35	7

型号 (Model)	I	J	K	M	Z	ZZ
GMXS16-10	10	40	29	76	75	87
GMXS16-20	10	40	39	76	75	87
GMXS16-30	10	40	49	76	75	87
GMXS16-40	10	50	59	86	85	97
GMXS16-50	15	60	69	101	100	112
GMXS16-75	40	85	94	151	150	162
GMXS16-100	55	118	119	199	198	210
GMXS16-125	68	155	144	249	248	260

GMXS20 基础型 GMXS20 Basic type



GMXS25 基础型 GMXS25 Basic type



尺寸表 Dimensions (mm)

型号 (Model)	F	FF	N	G	H	NN
GMXS20-10	50	40	4	15	45	2
GMXS20-20	50	40	4	15	45	2
GMXS20-30	50	40	4	15	45	2
GMXS20-40	60	50	4	15	55	2
GMXS20-50	35	35	6	15	35	3
GMXS20-75	60	60	6	19	35	4
GMXS20-100	70	70	6	37	35	5
GMXS20-125	70	70	8	41	38	6
GMXS20-150	80	80	8	19	44	7

型号 (Model)	I	J	K	M	Z	ZZ
GMXS20-10	10	44	31	83	81.5	97
GMXS20-20	10	44	41	83	81.5	97
GMXS20-30	10	44	51	83	81.5	97
GMXS20-40	10	54	61	93	91.5	107
GMXS20-50	10	69	71	108	106.5	122
GMXS20-75	10	108	96	147	145.5	161
GMXS20-100	58	113	121	200	198.5	214
GMXS20-125	70	155	146	254	252.5	268
GMXS20-150	87	190	171	306	304.5	320

尺寸表 Dimensions (mm)

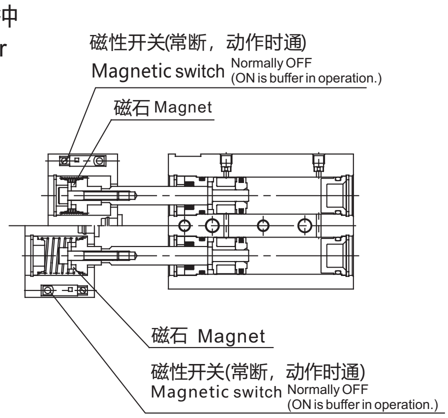
型号 (Model)	F	FF	N	G	H	NN
GMXS25-10	50	40	4	22	45	2
GMXS25-20	50	40	4	22	45	2
GMXS25-30	50	40	4	22	45	2
GMXS25-40	60	50	4	22	55	2
GMXS25-50	35	35	6	20	35	3
GMXS25-75	60	60	6	26	35	4
GMXS25-100	70	70	6	32	35	5
GMXS25-125	75	75	8	40	38	6
GMXS25-150	80	80	8	30	40	7

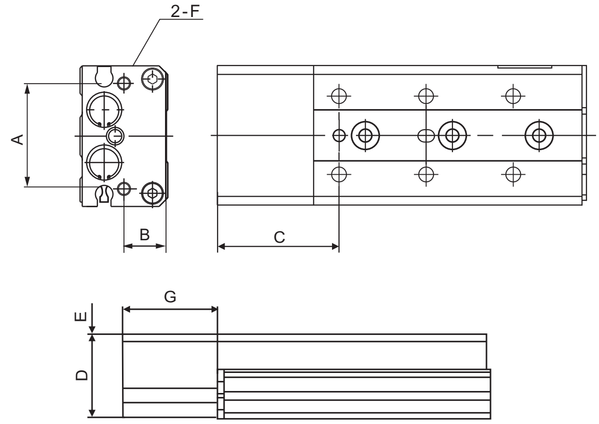
型号 (Model)	I	J	K	M	Z	ZZ
GMXS25-10	12	47	35	92	90.5	108
GMXS25-20	12	47	45	92	90.5	108
GMXS25-30	12	47	55	92	90.5	108
GMXS25-40	12	57	65	102	100.5	118
GMXS25-50	12	70	75	115	113.5	131
GMXS25-75	33	90	100	156	154.5	172
GMXS25-100	50	114	125	197	195.5	213
GMXS25-125	67	155	150	255	253.5	271
GMXS25-150	82	180	175	295	293.5	311

气动滑台 GMXS系列 Air Slide Table GMXS Series

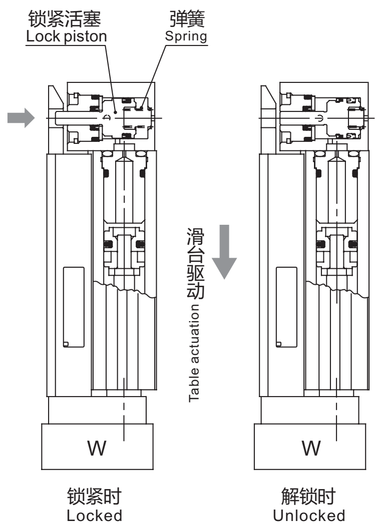
功能可选项 / Functional option

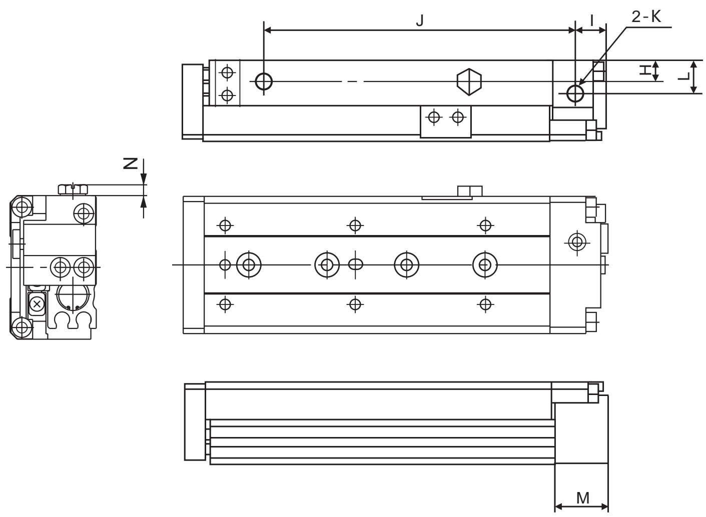
F- 带弹簧缓冲
F-With buffer



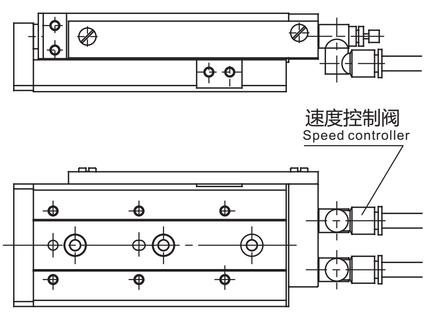


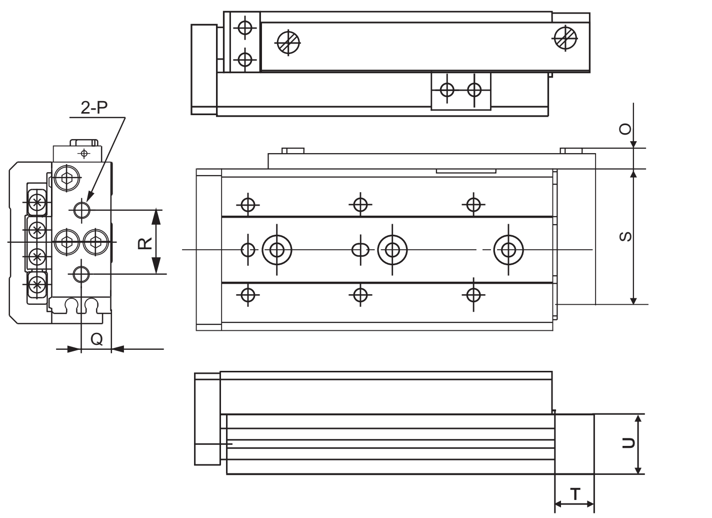
R- 带端锁
R-With end lock





P- 轴向接管
P-Axial piping type





尺寸表 Dimensions (mm)

型号 (Model)	A	B	C	D	E	F	G	H	I	J 10	J 20	J 30	J 40	J 50	J 75	J 100	J 125	J 150	K	L	M	N	O	P	Q	R	S	T	U
GMXS6	24	10	28	19	0.5	M3x0.5	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	M3x0.5	5.5	12	32	8	11.5
GMXS8	30	12	28.5	22.5	0.5	M4x0.7	22.5	6.5	9	39	44	55	73	91	141	-	-	-	M3x0.5	10	15.5	3	6.5	M5x0.8	6.5	15	40	12	13.5
GMXS12	38	16	37	30	0.5	M5x0.8	29	9.5	10.5	59.5	59.5	59.5	71.5	91.5	137.5	191.5	-	-	M5x0.8	14.5	20	3	6.5	M5x0.8	9.5	20	50	12	18.7
GMXS16	48	20	41	37.5	0.5	M6x1	30	12	13	62	62	62	72	87	137	185	235	-	M5x0.8	18	25	3	6.5	M5x0.8	12	26	62	12	23.5
GMXS20	58	25	44.5	45.5	0.5	M6x1	30.5	15	15.5	68.5	68.5	68.5	78.5	93.5	132.5	185.5	239.5	239.5	Rc1/8	20	30		11.5	Rc1/8	15	32	76	20	29.5
GMXS25	70	31	50	55	0.5	M8x1.25	35	18	18	76	76	76	86	99	140	181	239	239	Rc1/8	25.5	35		11.5	Rc1/8	18	40	92	20	35.5

型材、钢管 Profile、SUS Tube
支架模组 Stents Module
快换 Quick Changer
夹具组件 Grip Module
气动剪刀 Air Nipper
真空组件 Vacuum Module
附件 Accessory Components

缸径Bore size (mm)	6	10	16	20
导向轴承宽度Guide bearing width	5	7	9	12
使用流体 Fluid	空气 Air			
动作方式 Action	双作用 Double acting			
最低使用压力 Minimum operating pressure	0.15MPa	0.06MPa		0.05MPa
最高使用压力 Maximum operating pressure	0.7MPa			
环境和流体温度 Ambient and fluid temperatures	不带磁性开关：-10~+70°C 带磁性开关：-10~+60°C （但未冻结） Without magnetic switch: −10 to 70°C With magnetic switch: −10 to 60°C (No freezing)			
活塞速度 Piston speed	50~500mm/s			
允许动能 J Allowable kinetic energy (J)	0.0125	0.025	0.05	0.1
*润滑 Lubrication	不需要 Non-lube			
缓冲 Cushion	两端带橡胶缓冲 Rubber bumper on both ends			
行程长度公差(mm) Stroke length tolerance	+1.0 0			
磁性开关选择 Magnetic switch(Option)	舌簧型 D-A9□ ,固态电子型 D-M9□ Reed Magnetic switch D-A9□ Solid state Magnetic switch D-M9□			
配管连接口径 Piping port size	M5 x 0.8			

*如需润滑, 请用透平1号油ISOVG32。
*Please use turbine No.1 oil ISOVG32 if need.

*装上线性导向轴承，提高活塞杆不回转精度。
*标准型内置磁环，可安装行程感应磁性开关。
*可从三面连接气源。
*可两面安装磁性开关。
*标准型两端橡胶缓冲。
*允许力矩为GMXU系列的六倍。
*Install linear guide bearing to improve the accuracy of non-rotative of piston rod
*Standard built-in magnetic ring,can install magnetic switch of stroke testing
*Can connect to air from three sides
*Can install magnetic switch from two sides
*Standard rubber buffer at both ends
*Allowable torque is 6 times of GMXU series

型号表示方法
Model representation methods

内置磁环型 GMXH [10] - [30] - [A93] [ ]
Built in magnetic ring type GMXH

- 缸径 Bore → 10
- 行程 Stroke → 30
- 磁性开关型号 Magnetic switch → A93
  - 无记号 Nil：无磁性开关 Without magnetic switch
  - *参见右表 * See the right table
- 磁性开关个数 Number of magnetic switches

无记号 Nil	2个
S	1个

行程/磁性开关选择
Stroke/magnetic switch selection

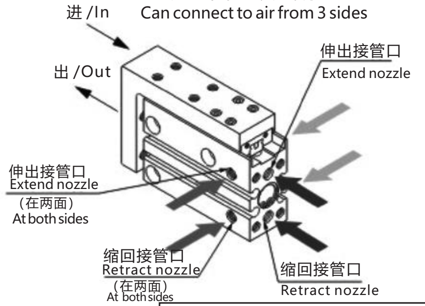
缸径 (mm)	标准行程 (mm) Standard stroke (mm)	直接安装型磁性开关 Direct mount type of magnetic switch		
		2线 2-wire	3线 3-wire	
6	5,10,15,20,25, 30,40,50,60	D-M9B D-M9BL D-M9BV D-M9BVL	D-M9N D-M9NL D-M9NV D-M9NVL	D-M9P D-M9PL D-M9PV D-M9PVL
10				
16				
20				

注）磁性开关规格及特征可参阅磁性开关的系列，在磁性开关型号的末尾，附导线长度记号：无记号-0.5m, L-3m,Z-5m, 例 :A93L 。

Note) The specification and characteristics of magnetic switch can refer to the series of magnetic switch . At the end of the model of magnetic switch,the length mark of conductor is attached:Nomark-0.5m,L-3m,Z-5m Example: A93L

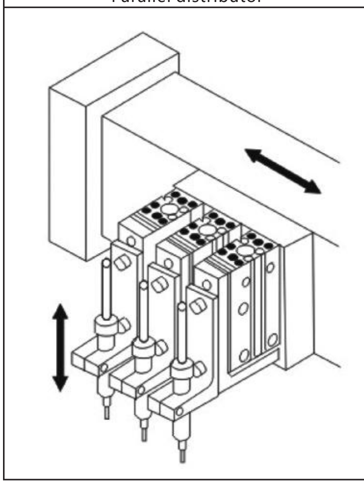
小型线性导向轴承改善气缸线性运动的精度
Miniature linear guide bearing improve the accuracy of linear motion of cylinder

可从三面连接气源
Can connect to air from 3 sides

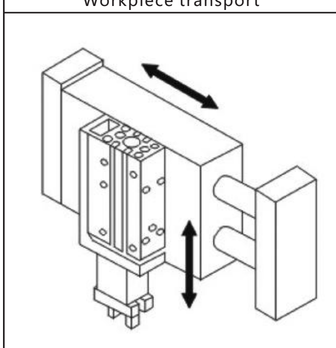


应用/Application

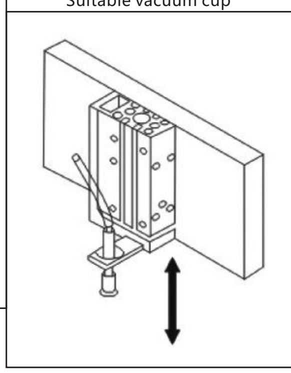
平行分配器
Parallel distributor



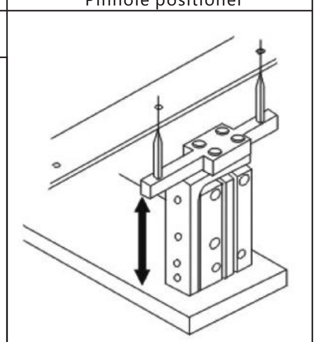
工件传送
Workpiece transport



配合真空吸盘
Suitable vacuum cup

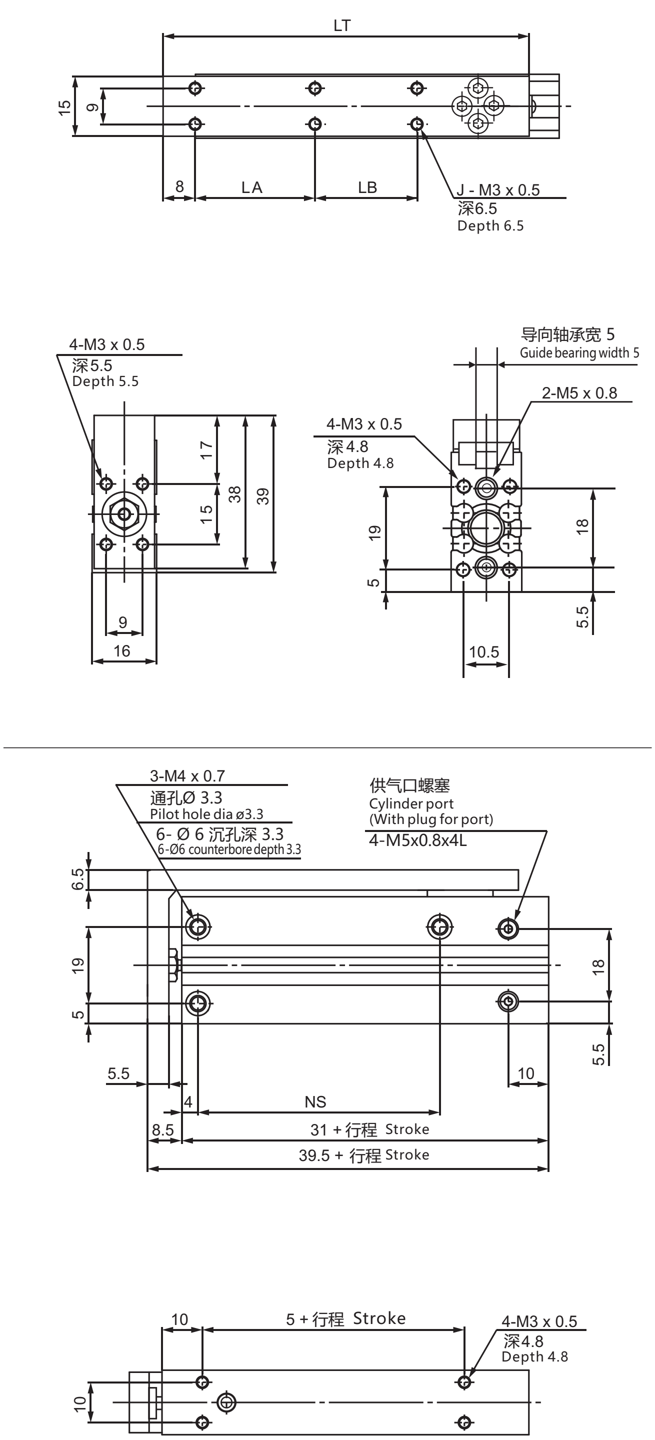


针孔定位器
Pinhole positioner



小型气动滑台（直线导轨）GMXH系列 Miniature Air Slide Table Linear Guide GMXH Series

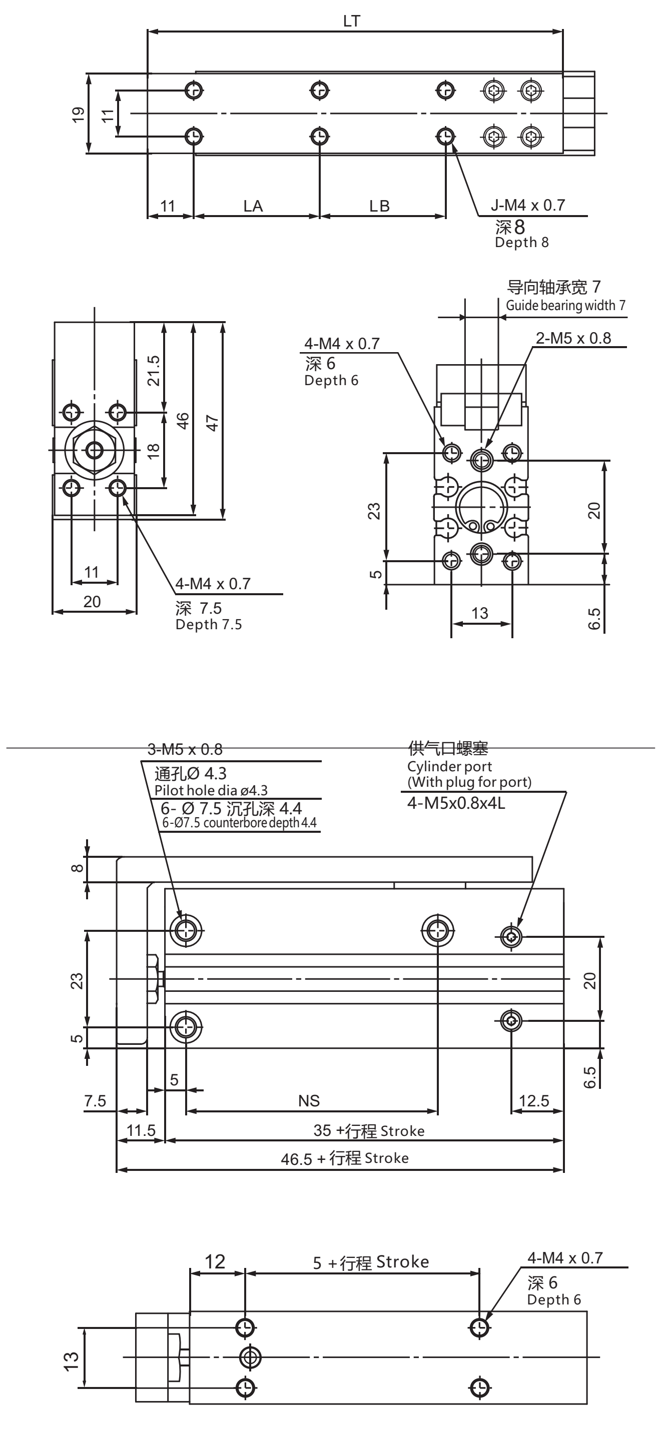
GMXH6



尺寸表 Dimensions (mm)

型号 (Model)	行程Stroke	J	LA	LB	LT	NS
GMXH6-5Z	5	4	10	-	42	14
GMXH6-10Z	10	4	10	-	42	14
GMXH6-15Z	15	4	20	-	52	24
GMXH6-20Z	20	4	20	-	52	24
GMXH6-25Z	25	4	30	-	62	30
GMXH6-30Z	30	4	30	-	62	30
GMXH6-40Z	40	6	20	20	72	45
GMXH6-50Z	50	6	25	25	82	55
GMXH6-60Z	60	6	30	30	92	60

GMXH10

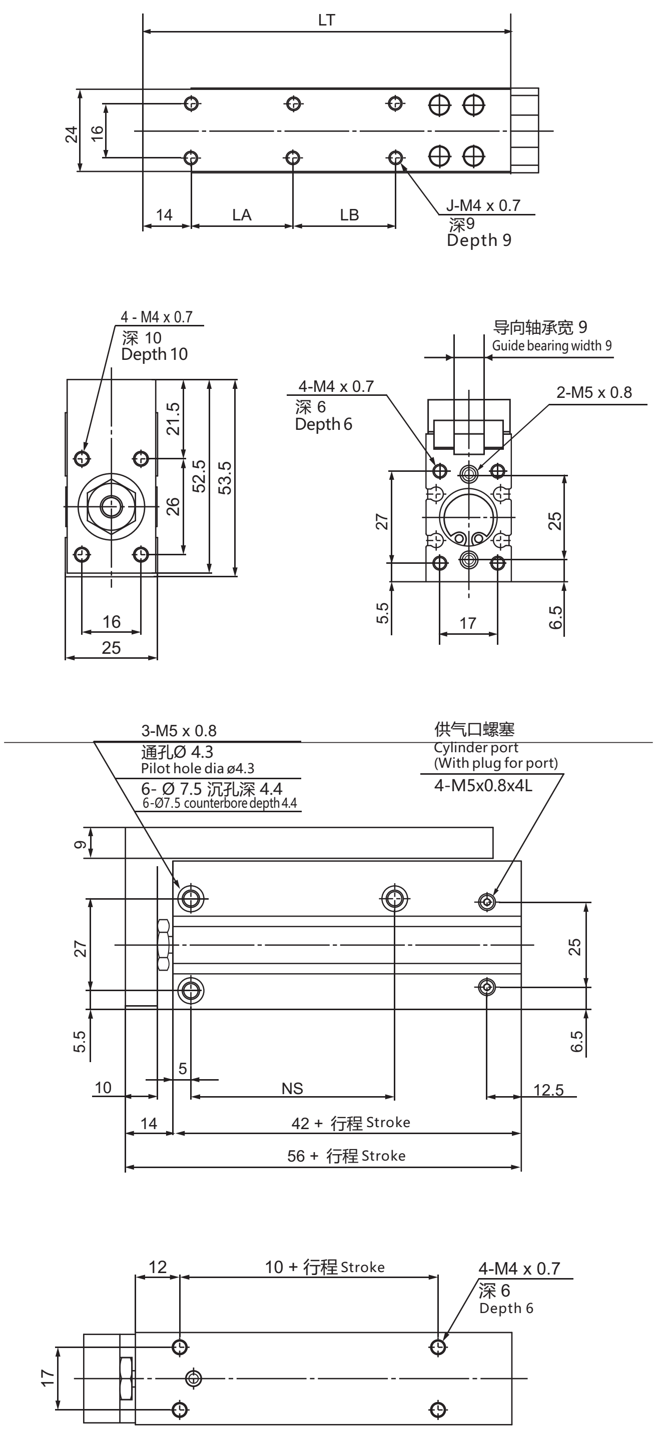


尺寸表 Dimensions (mm)

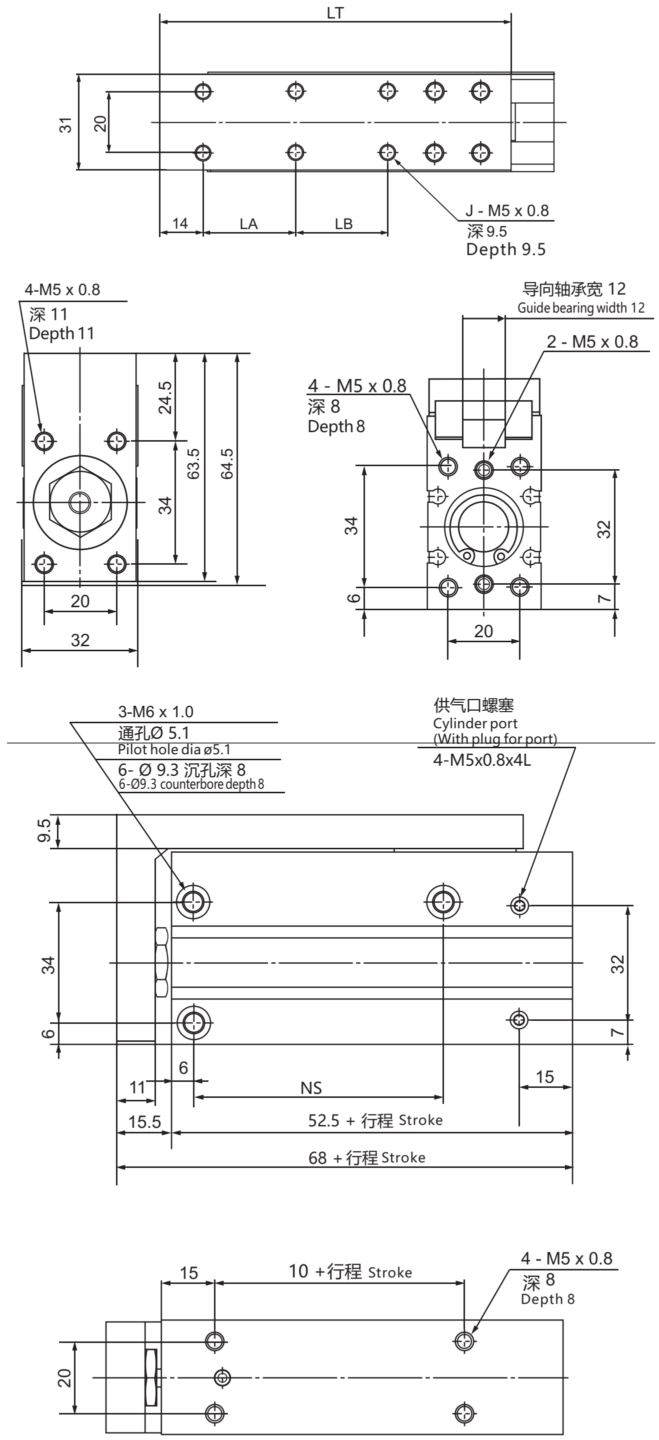
型号 (Model)	行程Stroke	J	LA	LB	LT	NS
GMXH10-5Z	5	4	10	-	49	14
GMXH10-10Z	10	4	10	-	49	14
GMXH10-15Z	15	4	20	-	59	24
GMXH10-20Z	20	4	20	-	59	24
GMXH10-25Z	25	4	30	-	69	30
GMXH10-30Z	30	4	30	-	69	30
GMXH10-40Z	40	6	20	20	79	45
GMXH10-50Z	50	6	25	25	89	55
GMXH10-60Z	60	6	30	30	99	60

小型气动滑台（直线导轨）GMXH系列 Miniature Air Slide Table Linear Guide GMXH Series

GMXH16



GMXH20



尺寸表 Dimensions (mm)

型号 (Model)	行程Stroke	J	LA	LB	LT	NS
GMXH16-5Z	5	4	10	-	58	20
GMXH16-10Z	10	4	10	-	58	20
GMXH16-15Z	15	4	20	-	68	30
GMXH16-20Z	20	4	20	-	68	30
GMXH16-25Z	25	4	30	-	78	40
GMXH16-30Z	30	4	30	-	78	40
GMXH16-40Z	40	6	20	20	88	50
GMXH16-50Z	50	6	25	25	98	60
GMXH16-60Z	60	6	30	30	108	60

尺寸表 Dimensions (mm)

型号 (Model)	行程Stroke	J	LA	LB	LT	NS
GMXH20-5Z	5	4	10	-	64	20
GMXH20-10Z	10	4	10	-	64	20
GMXH20-15Z	15	4	20	-	74	25
GMXH20-20Z	20	4	20	-	74	25
GMXH20-25Z	25	4	30	-	84	40
GMXH20-30Z	30	4	30	-	84	40
GMXH20-40Z	40	6	20	20	94	50
GMXH20-50Z	50	6	25	25	104	70
GMXH20-60Z	60	6	30	30	114	70

水口夹具 Sprue Gripper

本体使用超硬铝材料，重量轻刚性强，寿命长。
组装时可选择螺纹安装和CRG部品安装.

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.

水口夹具GR(S/M/L/X)系列（无传感器）
Series GR-Sprue Gripper (Without Sensor)

GRS08

GRM12A

GRL12A

GRX20

水口夹具GR(S/M/L/X)系列（带传感器）
Series GR -Sprue Gripper (With Sensor)

GRS08-CN(CP)

GRM12A-CN(CP)

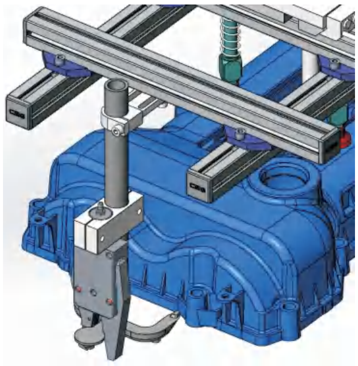
GRL12A-CN(CP)

GRX20-CN(CP)

货号(PN)	型号(Model)	信号开关(Switch type)	抓取力(F)	重量(Weight)
8.Y00214	GRS08	-	5N	18g
8.Y00099	GRS08-C	-	5N	24g
8.Y00011	GRS08-CN	NPN	5N	40g
8.Y00012	GRS08-CP	PNP	5N	40g
8.Y00103	GRM12A	-	28N	46g
8.Y00092	GRM12A-C	-	28N	45g
8.Y00009	GRM12A-CN	NPN	28N	60g
8.Y00010	GRM12A-CP	PNP	28N	60g
8.Y00107	GRM12B	-	28N	46g
8.Y00106	GRM12B-C	-	28N	45g
8.Y00104	GRM12B-CN	NPN	28N	60g
8.Y00105	GRM12B-CP	PNP	28N	60g
8.Y00108	GRL12A	-	45N	94g
8.Y00100	GRL12A-C	-	45N	84g
8.Y00001	GRL12A-CN	NPN	45N	100g
8.Y00002	GRL12A-CP	PNP	45N	100g
8.Y00213	GRX20	-	80N	180g
8.Y00215	GRX20-C	-	80N	177g
8.Y00013	GRX20-CN	NPN	80N	192g
8.Y00014	GRX20-CP	PNP	80N	192g

水口夹具 Sprue Gripper

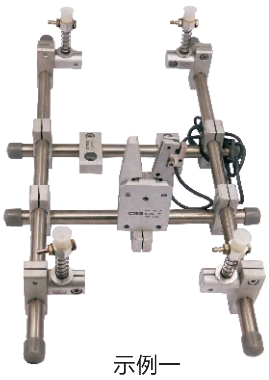
运用实例 / Application example



GR M 12 B - C N

- 尺寸 **Size** (M)
- 安装直径 **Dimension** (12)
- 夹头类型 **Jaw Types** (B)
- C-可装开关 Being able to mount a switch; 无-不可装开关 No - Not being able to mount a switch (C)
- 开关类型 **Switch type**: NPN开关, PNP开关 (N)

安装方式 / Installation method



示例一
Application 1

示例二
Application 2

选配件 / Accessorier selection

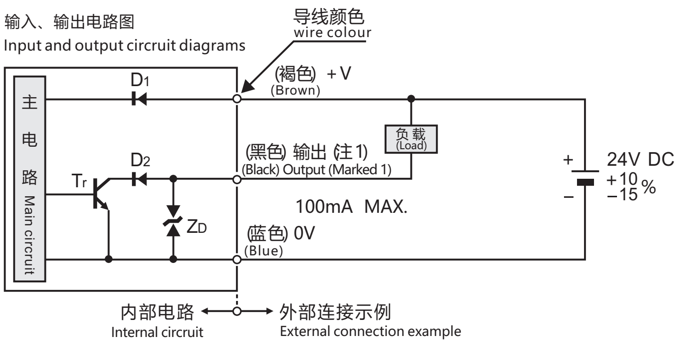
开关
Sensor
1.PNP
2.NPN

开关货号(PN)	型号(Model)
7.Y00800	PNP
7.Y00801	NPN

注：线长为1米
Note: The length is 1 meter

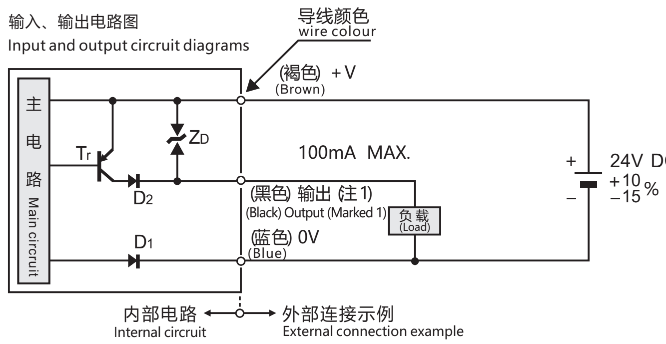
开关接线说明/Switch wiring instructions

NPN输出型 / NPN output type



(注1): 输出未装备短路保护电路。请勿直接连接电源或容性负载。
(Marked 1)Output is not equipped with short-circuit protection circuit.
Do not connect directly to power or capacitive loads

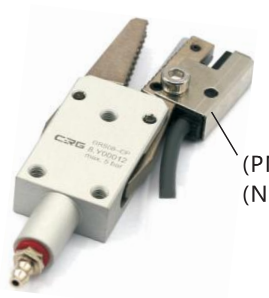
PNP输出型/ PNP output type



(注1): 输出未装备短路保护电路。请勿直接连接电源或容性负载。
(Marked 1)Output is not equipped with short-circuit protection circuit.
Do not connect directly to power or capacitive loads

水口夹具GRS08系列　Sprue Gripper GRS08 Series

钻石齿
Diamond tooth



GRS08
无传感器(Without Sensor)

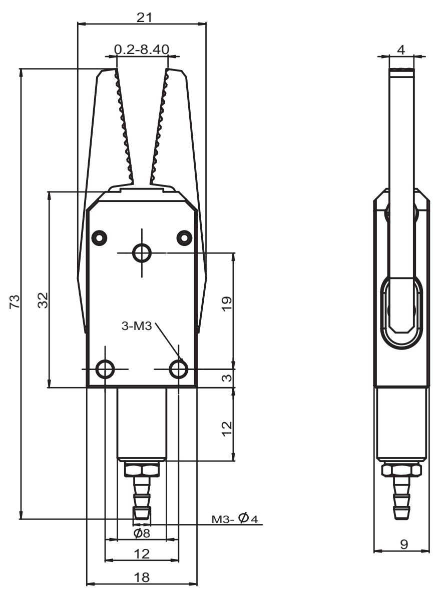
GRS08-CN(CP)
带传感器(With Sensor)

产品描述 Product Description

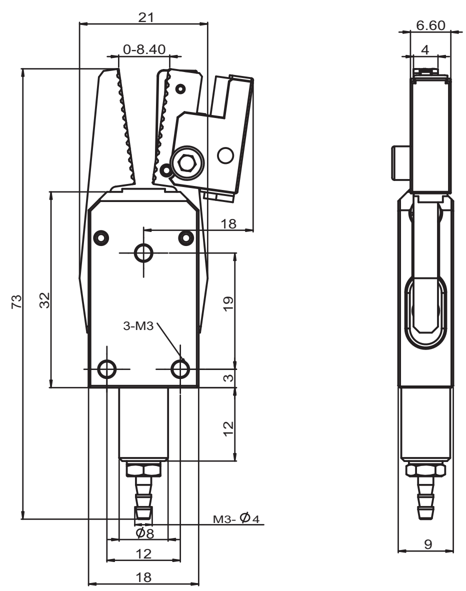
GRS08系列
本体使用超硬铝材料，重量轻刚性强，寿命长。
组装时可选择螺纹安装和CRG部品安装.

Series GRS08
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.

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00214	GRS08	-	5N	18g
8.Y00099	GRS08-C	-	5N	24g
8.Y00011	GRS08-CN	NPN	5N	40g
8.Y00012	GRS08-CP	PNP	5N	40g



无传感器(Without Sensor)



带传感器(With Sensor)

水口夹具GRM12系列 Sprue Gripper GRM12 Series

A钻石齿
ADiamond tooth

B斜齿
BHelical tooth

GRM12A
无传感器(Without Sensor)

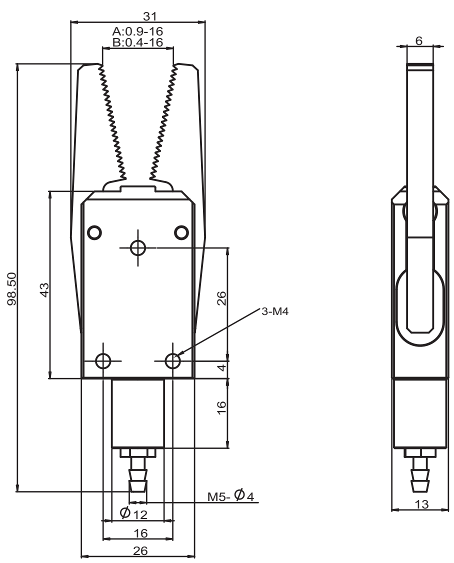
GRM12A-CN(CP)
带传感器(With Sensor)

产品描述 Product Description

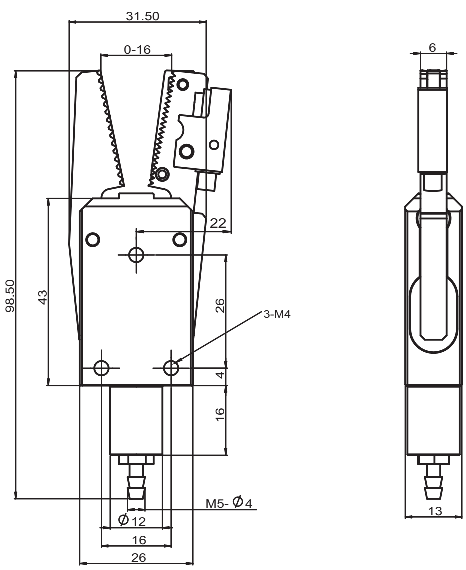
GRM12系列
本体使用超硬铝材料，重量轻刚性强，寿命长。
组装时可选择螺纹安装和CRG部品安装.

Series GRM12
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.

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00103	GRM12A	-	28N	46g
8.Y00107	GRM12B	-	28N	46g
8.Y00092	GRM12A-C	-	28N	45g
8.Y00009	GRM12A-CN	NPN	28N	60g
8.Y00010	GRM12A-CP	PNP	28N	60g
8.Y00106	GRM12B-C	-	28N	45g
8.Y00104	GRM12B-CN	NPN	28N	60g
8.Y00105	GRM12B-CP	PNP	28N	60g



无传感器(Without Sensor)



带传感器(With Sensor)

水口夹具GRL12系列　Sprue Gripper GRL12 Series

钻石齿
Diamond tooth

GRL12A
无传感器(Without Sensor)

GRL12A-CN(CP)
带传感器(With Sensor)

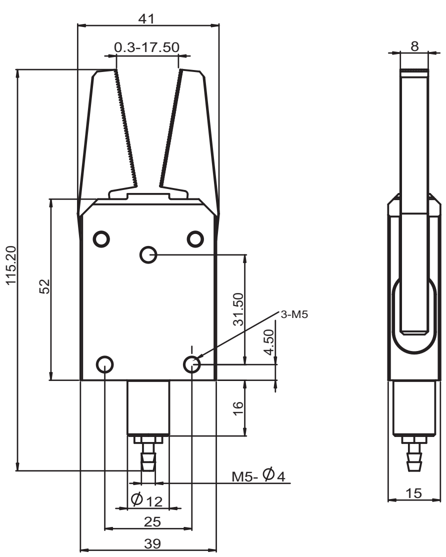
产品描述 Product Description

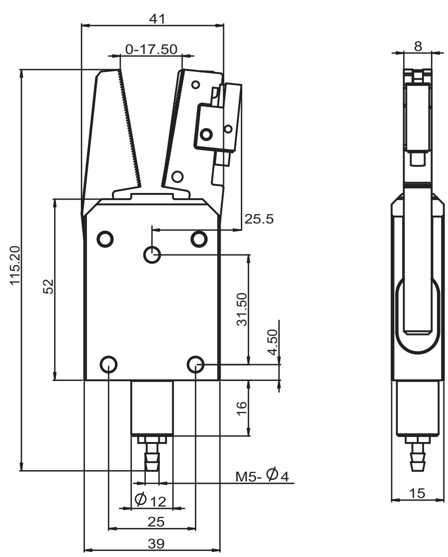
GRL12系列
本体使用超硬铝材料，重量轻刚性强，寿命长。
组装时可选择螺纹安装和CRG部品安装.

Series GRL12

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.

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00108	GRL12A	-	45N	94g
8.Y00100	GRL12A-C	-	45N	84g
8.Y00001	GRL12A-CN	NPN	45N	100g
8.Y00002	GRL12A-CP	PNP	45N	100g





无传感器(Without Sensor)　　　　带传感器(With Sensor)

水口夹具GRX20系列 Sprue Gripper GRX20 Series

钻石齿
Diamond tooth

GRX20
无传感器(Without Sensor)

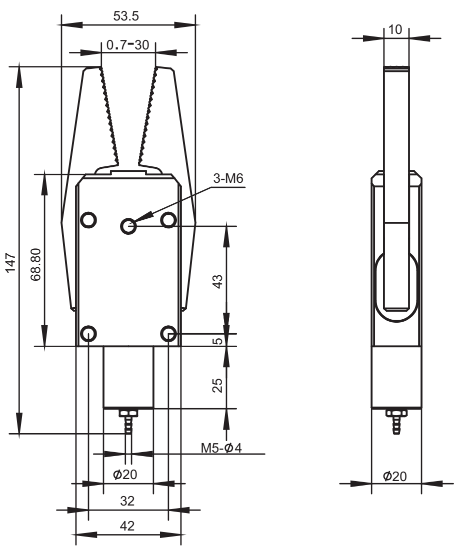
GRX20-CN(CP)
带传感器(With Sensor)

产品描述 Product Description

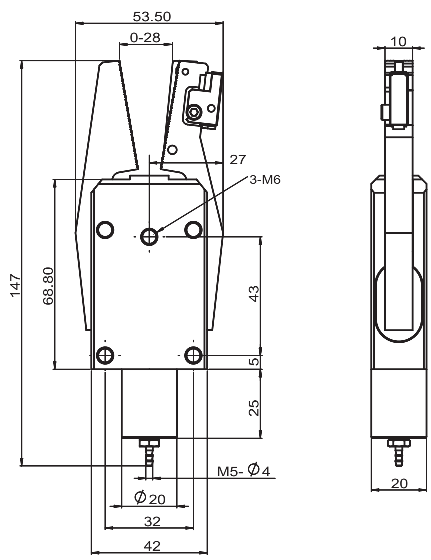
GRX20系列
本体使用超硬铝材料，重量轻刚性强，寿命长。
组装时可选择螺纹安装和CRG部品安装.

Series GRX20
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.

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00213	GRX20	-	80N	180g
8.Y00215	GRX20-C	-	80N	177g
8.Y00013	GRX20-CN	NPN	80N	192g
8.Y00014	GRX20-CP	PNP	80N	192g



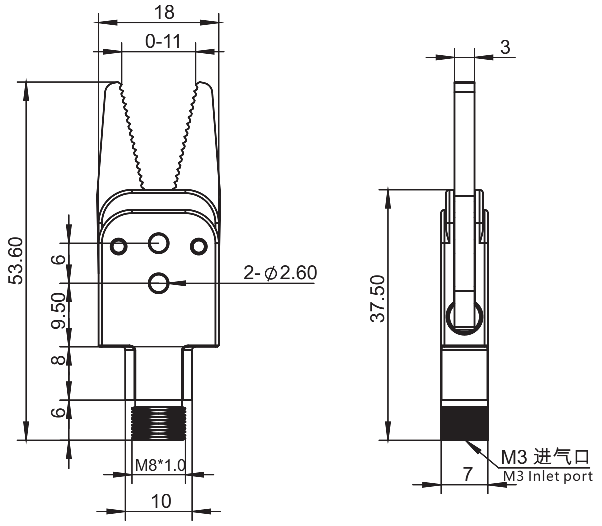
无传感器(Without Sensor)



带传感器(With Sensor)

水口夹具GR05系列　Sprue Gripper GR05 Series

锯齿
Jagged



GR05A-10
无传感器(Without Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00348	GR05A-10	-	12N	9.6g

水口夹具GR12系列 Sprue Gripper GR12 Series

型号表示方法
Model representation methods

GR 12 A - 12 - C N

- 12 — 安装直径 **Dimension**
- A — 夹头类型 **Jaw Types**
- 12 — 缸径 **Bore**
- C — C-可装开关 Being able to mount a switch; 无-不可装开关 No - Not being able to mount a switch
- N — 开关类型 **Switch type**: NPN开关, PNP开关

本体使用超硬铝材料，重量轻刚性强，寿命长。
组装时可选择螺纹安装和CRG部品安装.
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.

GR10A-12
GR12A-12
GR12M-12(钢制钳口steel jaws)
无传感器(Without Sensor)

GR12B-12
无传感器
(Without Sensor)

GR12L-12
无传感器
(Without Sensor)

GR10A-12-CP
GR12A-12-CN(CP)
GR12M-12-CN(CP)(钢制钳口steel jaws)
带传感器(With Sensor)

GR12B-12-CN(CP)
带传感器
(With Sensor)

选配件 / Accessorier selection

开关
1.PNP
2.NPN

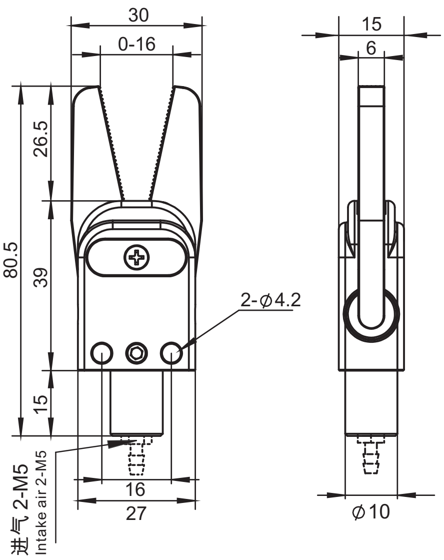
开关货号(PN)	型号(Model)
1.Y07261	MAP-8S2P1/F(PNP)
1.Y07405	MAP-8S2N1/F(NPN)

注：线长为1米
Note: The length is 1 meter

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(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.Y00098	GR12A-12-C	-	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.Y00260	GR12B-12-C	-	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(钢制钳口steel jaws)	GR12L-12	-	28N	50g
8.Y00419(钢制钳口steel jaws)	GR12M-12	-	28N	66.2g
8.Y00421(钢制钳口steel jaws)	GR12M-12-CP	PNP	28N	82.5g
8.Y00420	GR12M-12-CN	NPN	28N	82.5g

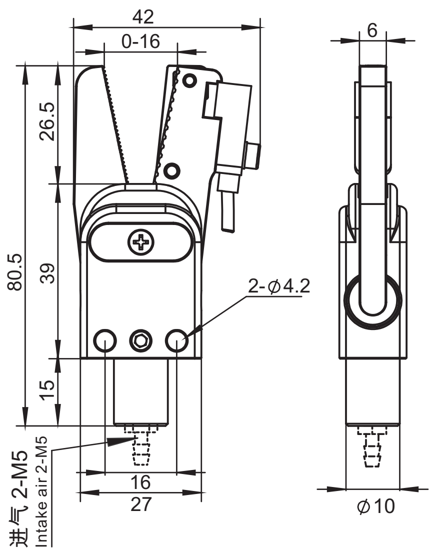
水口夹具GR10系列 Sprue Gripper GR10 Series

钻石齿
Diamond tooth



GR10A-12
无传感器(Without Sensor)

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

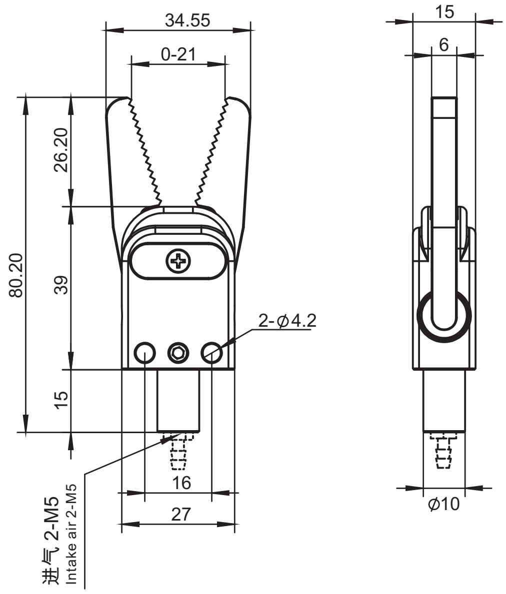


GR10A-12-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00268	GR10A-12	-	28N	44g
8.Y00267	GR10A-12-CP	PNP	28N	70g
8.Y00305	GR10A-12-CN	NPN	28N	70g

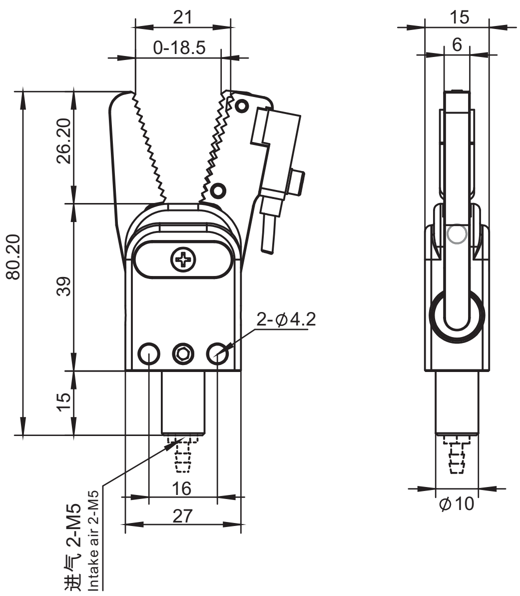
水口夹具GR10系列 Sprue Gripper GR10 Series

斜齿
Helical tooth



GR10D-12
无传感器(Without Sensor)

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

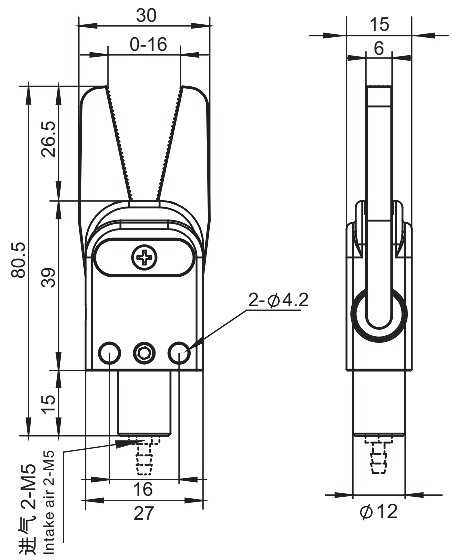


GR10D-12-CP
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00370	GR10D-12	-	28N	42g
8.Y00369	GR10D-12-CP	PNP	28N	61g
8.Y01034	GR10D-12-CN	NPN	28N	61G

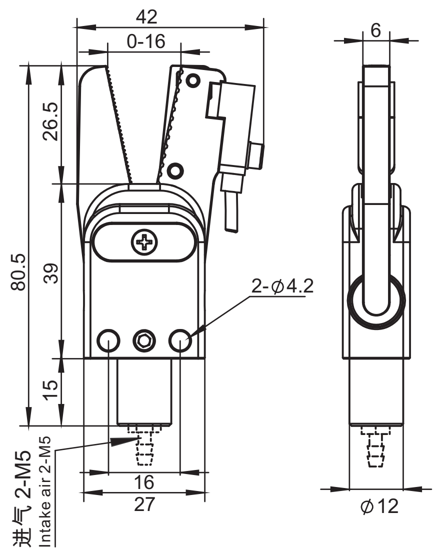
水口夹具GR12系列 Sprue Gripper GR12 Series

钢石齿
Diamond tooth



GR12A-12
无传感器(Without Sensor)

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

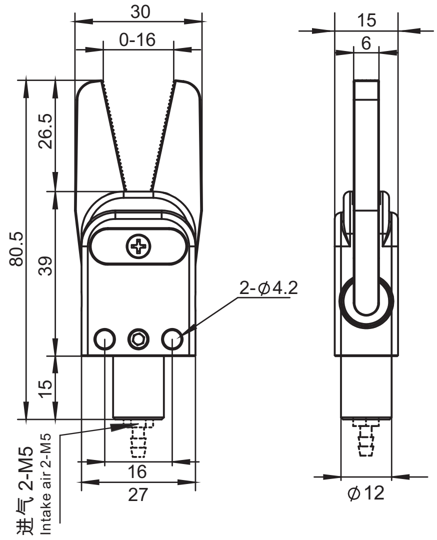


GR12A-12-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00048	GR12A-12	-	28N	44g
8.Y00098	GR12A-12-C	-	28N	44g
8.Y00050	GR12A-12-CP	PNP	28N	70g
8.Y00091	GR12A-12-CN	NPN	28N	70g

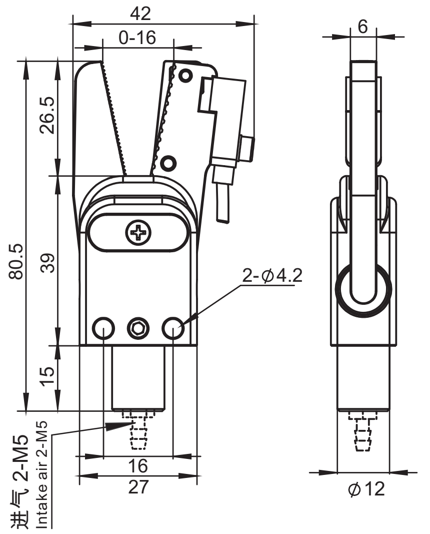
水口夹具GR12系列 Sprue Gripper GR12 Series

斜齿
Helical tooth



GR12B-12
无传感器(Without Sensor)

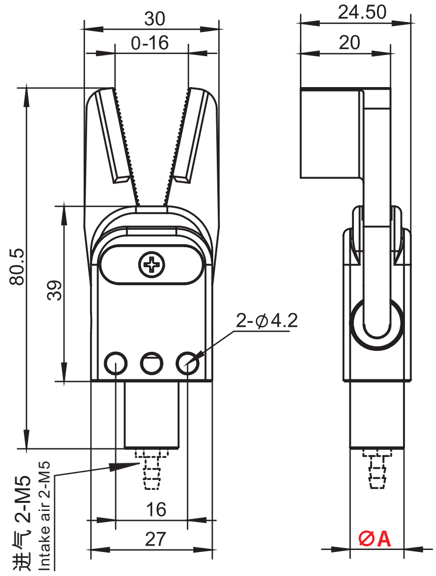
MAP-8S2P1/F (PNP)
MAP-8S2N1/F (NPN)



GR12B-12-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00245	GR12B-12	-	28N	44g
8.Y00260	GR12B-12-C	-	28N	44g
8.Y00261	GR12B-12-CP	PNP	28N	70g
8.Y00262	GR12B-12-CN	NPN	28N	70g

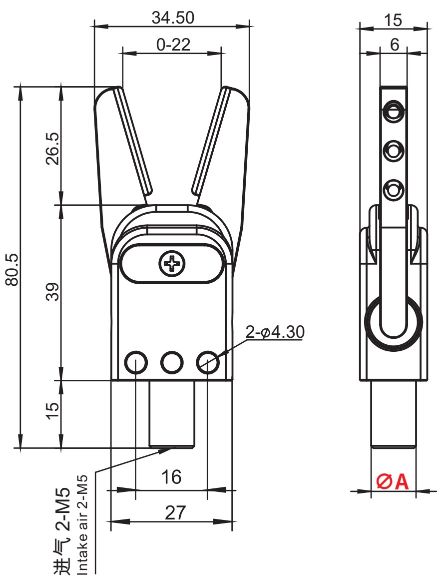
水口夹具GR12系列 Sprue Gripper GR12 Series



GR12L-12
无传感器(Without Sensor)

货号(PN)	型号(Model)	A	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00307	GR10L-12	Ø10	-	28N	50g
8.Y00308	GR12L-12	Ø12	-	28N	50g

NEW

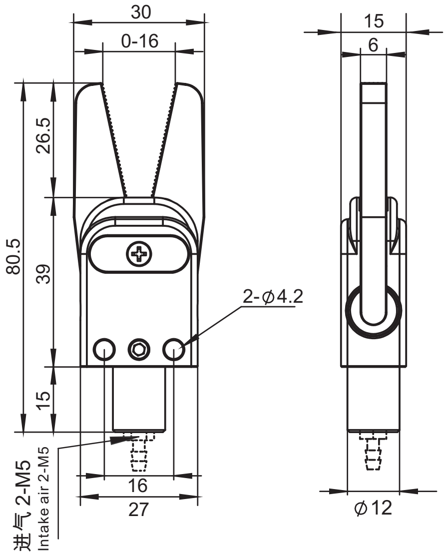


GR12N-12
无传感器(Without Sensor)

货号(PN)	型号(Model)	A	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y01011	GR10N-12	Ø10	-	28N	42g
8.Y01012	GR12N-12	Ø12	-	28N	42g

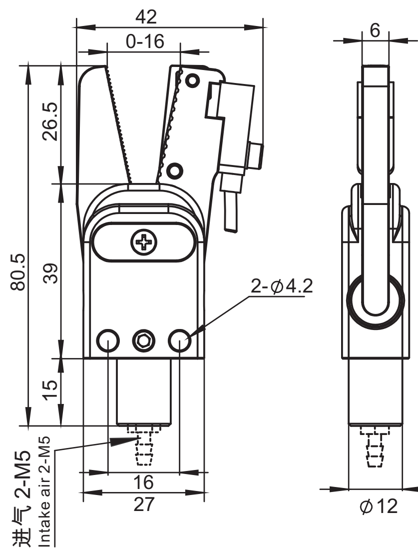
水口夹具GR12系列 Sprue Gripper GR12 Series

钢制钳口
Steel jaw



GR12M-12
无传感器(Without Sensor)

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



GR12M-12-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00419(钢制钳口steel jaws)	GR12M-12	-	28N	66.2g
8.Y00421(钢制钳口steel jaws)	GR12M-12-CP	PNP	28N	82.5g
8.Y00420(钢制钳口steel jaws)	GR12M-12-CN	NPN	28N	82.5g

水口夹具GR20系列 Sprue Gripper GR20 Series

1. 本体使用超硬铝材料，重量轻刚性强，寿命长。
2. 组装时可选择螺纹安装和CRG部品安装。
3. GR系列水口夹可选择不同的夹头形状，满足多种水口的夹取。

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
无传感器
(Without Sensor)

GR20B-20
无传感器
(Without Sensor)

GR20D-20
无传感器
(Without Sensor)

GR20C-20
无传感器
(Without Sensor)

GR20A-20-CN(CP)
带传感器
(With Sensor)

GR20B-20-CN(CP)
带传感器
(With Sensor)

GR20D-20-CN(CP)
带传感器
(With Sensor)

GR20E-20
无传感器
(Without Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00224	GR20A-20	-	80N	112g
8.Y00049	GR20A-20-C	-	80N	118g
8.Y00226	GR20A-20-CP	PNP	80N	137g
8.Y00051	GR20A-20-CN	NPN	80N	137g
8.Y00234	GR20B-20	-	80N	112g
8.Y00231	GR20B-20-C	-	80N	118g
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
NEW 8.Y00442	GR20D-20-CP	PNP	80N	173.1g
NEW 8.Y00479	GR20D-20-CN	NPN	80N	173.1g
8.Y00344	GR20E-20	-	80N	129g

水口夹具GR20系列　Sprue Gripper GR20 Series

1. 本体使用超硬铝材料，重量轻刚性强，寿命长。
2. 组装时可选择螺纹安装和CRG部品安装。
3. GR系列水口夹可选择不同的夹头形状，满足多种水口的夹取。
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
无传感器
(Without Sensor)

GR20H-20
无传感器
(Without Sensor)

GR20I-20
无传感器
(Without Sensor)

GR20F-20
无传感器
(Without Sensor)

GR20G-20-CN(CP)
带传感器
(With Sensor)

GR20H-20-CN(CP)
带传感器
(With Sensor)

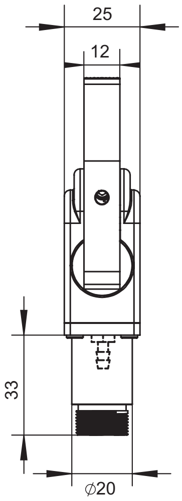
GR20I-20-CN(CP)
带传感器
(With Sensor)

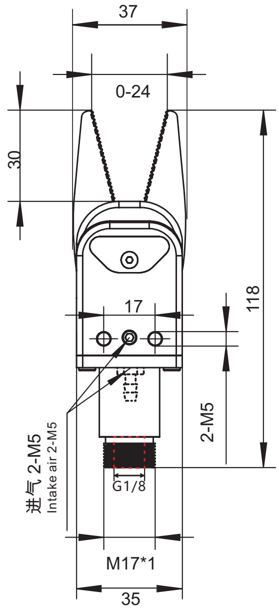
货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00345	GR20F-20	-	80N	128g
8.Y00433	GR20G-20	-	80N	131.1g
8.Y00472	GR20G-20-CP	PNP	80N	153.7g
8.Y00473	GR20G-20-CN	NPN	80N	153.7g
8.Y00422(钢制钳口steel jaws)	GR20H-20	-	80N	193.1g
8.Y00424(钢制钳口steel jaws)	GR20H-20-CP	PNP	80N	220.5g
8.Y00423(钢制钳口steel jaws)	GR20H-20-CN	NPN	80N	220.5g
8.Y00450(钢制钳口steel jaws)	GR20I-20	-	80N	191.6g
8.Y00470(钢制钳口steel jaws)	GR20I-20-CP	PNP	80N	219g
8.Y00471(钢制钳口steel jaws)	GR20I-20-CN	NPN	80N	219g

水口夹具GR20系列　Sprue Gripper GR20 Series

钻石齿
Diamond tooth

底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory

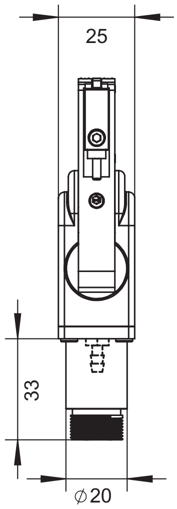


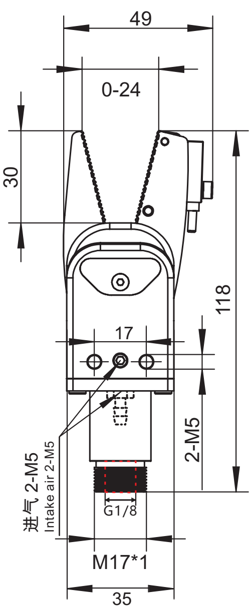


GR20A-20
无传感器(Without Sensor)

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

底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory





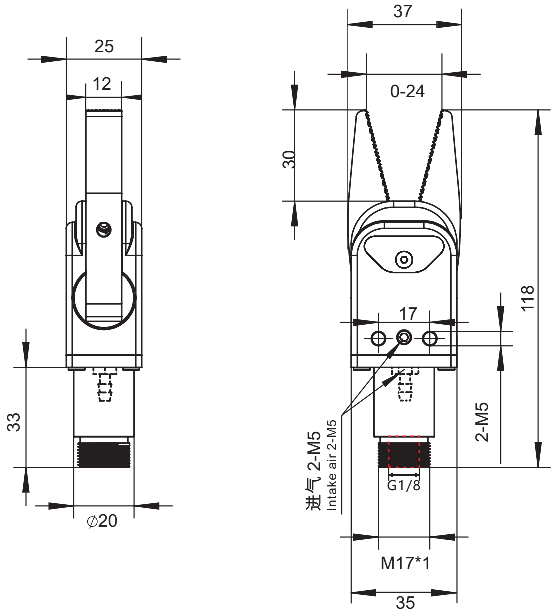
GR20A-20-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00224	GR20A-20	-	80N	112g
8.Y00049	GR20A-20-C	-	80N	118g
8.Y00226	GR20A-20-CP	PNP	80N	137g
8.Y00051	GR20A-20-CN	NPN	80N	137g

水口夹具GR20系列 Sprue Gripper GR20 Series

斜齿
Helical tooth

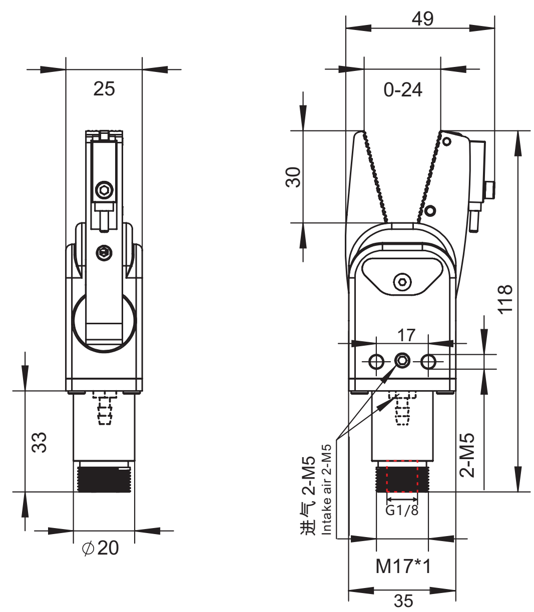
底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory



GR20B-20
无传感器(Without Sensor)

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

底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory

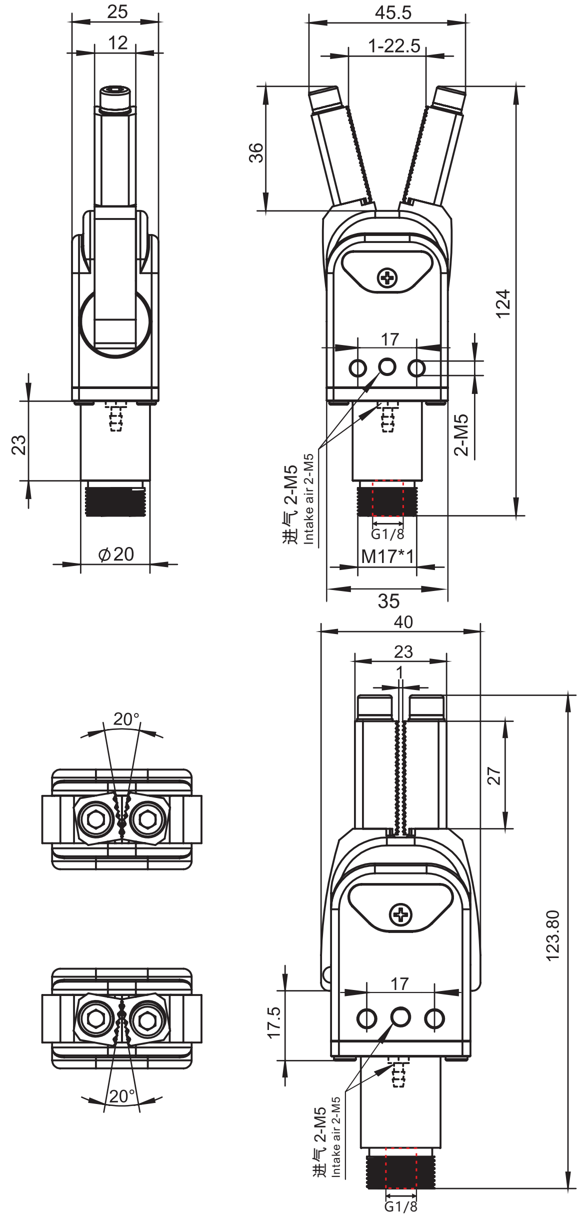


GR20B-20-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00234	GR20B-20	-	80N	112g
8.Y00231	GR20B-20-C	-	80N	118g
8.Y00232	GR20B-20-CP	PNP	80N	137g
8.Y00233	GR20B-20-CN	NPN	80N	137g

水口夹具GR20系列　Sprue Gripper GR20 Series

GR20C-20
无传感器(Without Sensor)

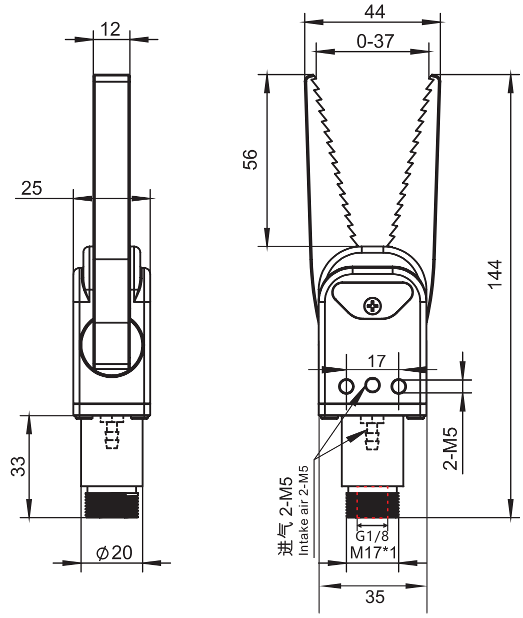


货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00342	GR20C-20	-	80N	140g

水口夹具GR20系列 Sprue Gripper GR20 Series

底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory

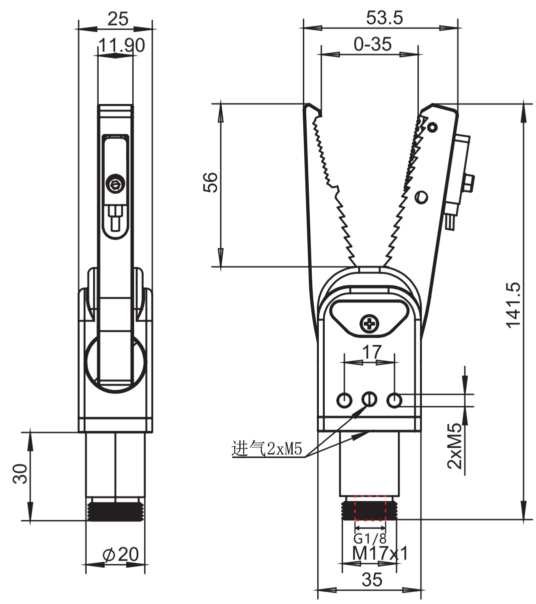
GR20D-20
无传感器(Without Sensor)



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

底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory

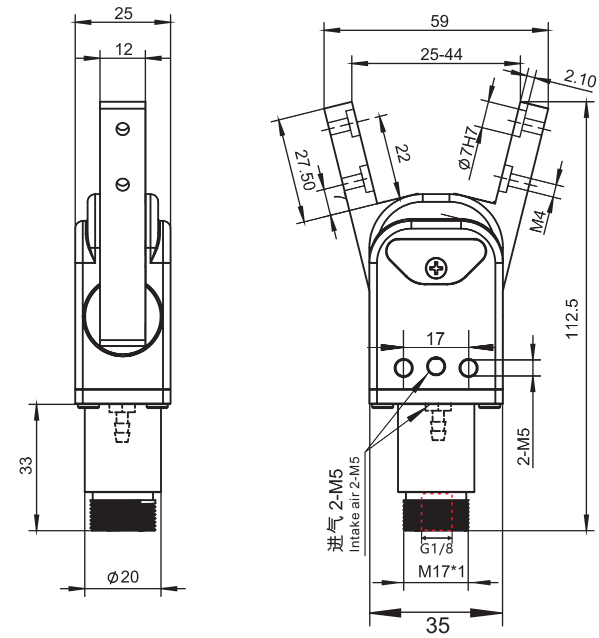
GR20D-20-CN(CP)
带传感器(With Sensor)



货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(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

水口夹具GR20系列　Sprue Gripper GR20 Series

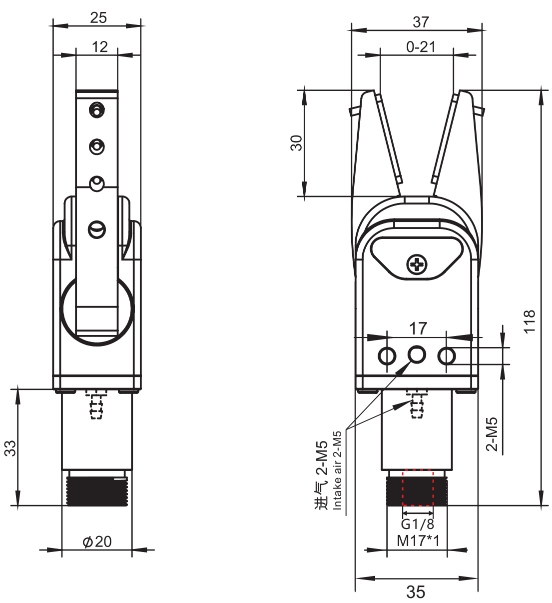
底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory



GR20E-20
无传感器(Without Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00344	GR20E-20	-	80N	129g

底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory

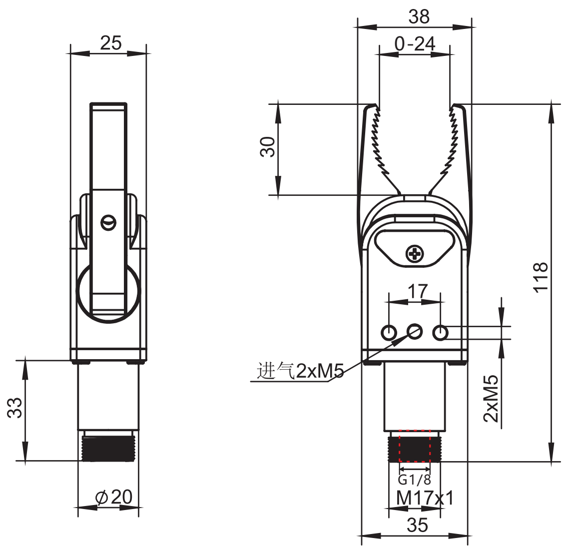


GR20F-20
无传感器(Without Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00345	GR20F-20	-	80N	128g

水口夹具GR20系列 Sprue Gripper GR20 Series

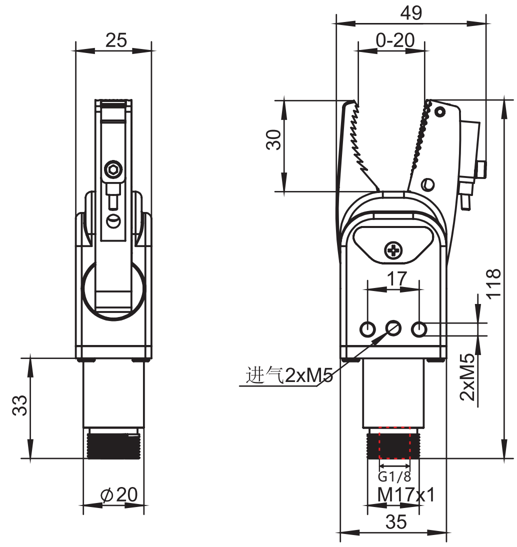
底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory



GR20G-20
无传感器(Without Sensor)

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

底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory



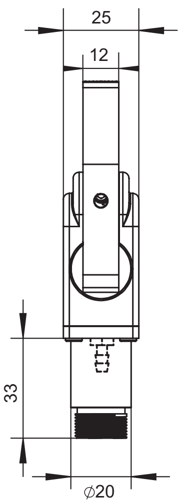
GR20G-20-CN(CP)
带传感器(With Sensor)

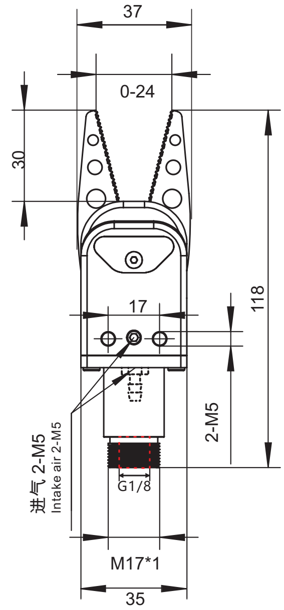
货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00433	GR20G-20	-	80N	131.1g
8.Y00472	GR20G-20-CP	PNP	80N	153.7g
8.Y00473	GR20G-20-CN	NPN	80N	153.7g

水口夹具GR20系列　Sprue Gripper GR20 Series

钢制钳口
Steel jaw

底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory





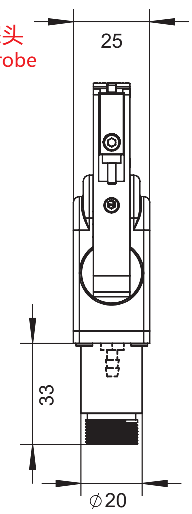
GR20H-20
无传感器(Without Sensor)

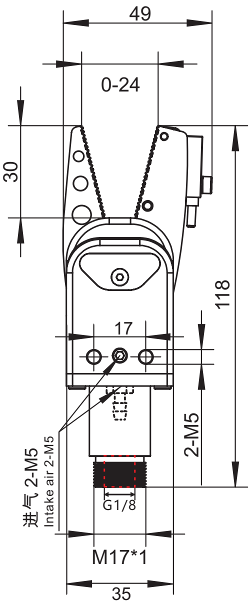
钢制钳口
Steel jaw

钢制探头
Steel probe

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

底部四个螺丝为了方便接气，
出厂时为松动状态。
The four screws on the bottom
are loose for ventilate conveniently
when they leaving the factory

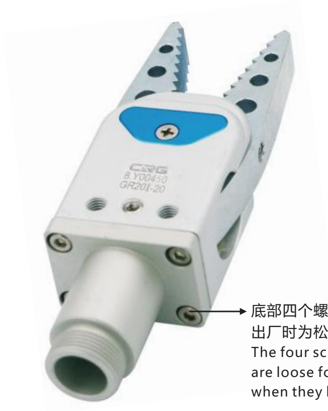




GR20H-20-CN(CP)
带传感器(With Sensor)

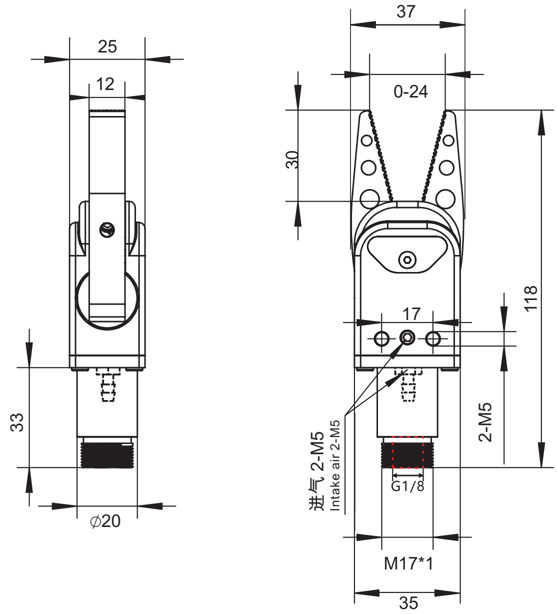
货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00422 (钢制钳口)	GR20H-20	-	80N	193.1g
8.Y00424 (钢制钳口)	GR20H-20-CP	PNP	80N	220.5g
8.Y00423 (钢制钳口)	GR20H-20-CN	NPN	80N	220.5g

水口夹具GR20系列 Sprue Gripper GR20 Series



钢制钳口
Steel jaw

底部四个螺丝为了方便接气，出厂时为松动状态。
The four screws on the bottom are loose for ventilate conveniently when they leaving the factory



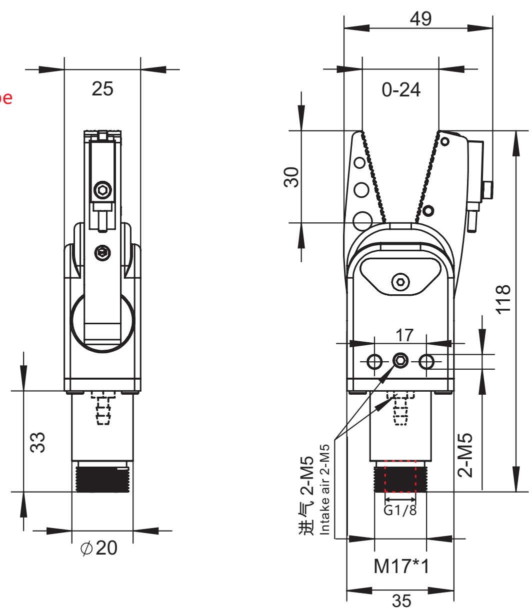
GR20I-20
无传感器(Without Sensor)

钢制钳口
Steel jaw

钢制探头
Steel probe

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

底部四个螺丝为了方便接气，出厂时为松动状态。
The four screws on the bottom are loose for ventilate conveniently when they leaving the factory



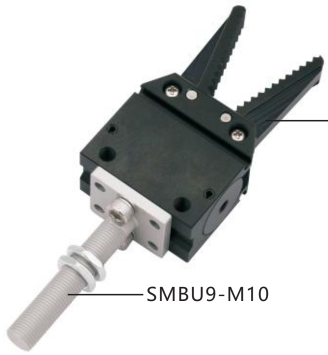
GR20I-20-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00450 (钢制钳口)	GR20I-20	-	80N	191.6g
8.Y00470 (钢制钳口)	GR20I-20-CP	PNP	80N	219.1g
8.Y00471 (钢制钳口)	GR20I-20-CN	NPN	80N	219.1g

水口夹具GRA20系列　Sprue Gripper GRA20 Series

1. 双动作或弹簧开启 (-NO)。
2. 不同重量和尺寸均具有很高的夹紧力。
3. 不同的紧固选项。
4. 可选的磁传感器

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.



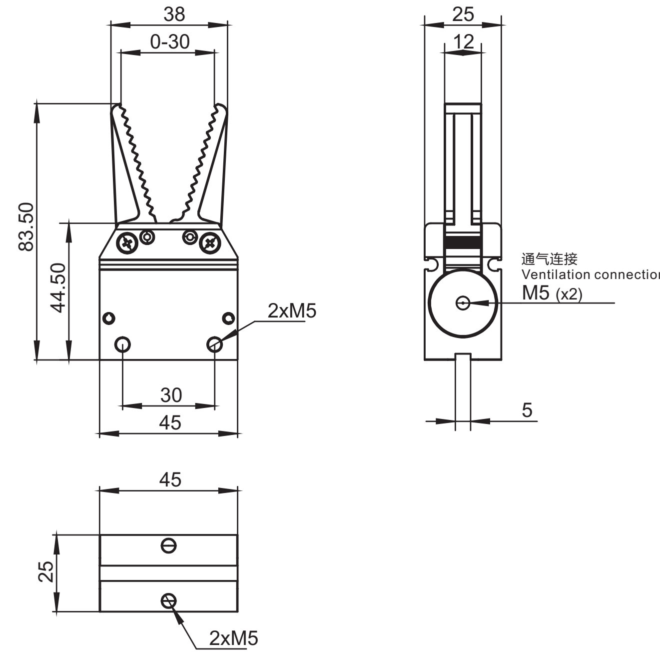
GRA20A
无传感器
(Without Sensor)

GRA20A-CN(CP)
带传感器
(With Sensor)

GRA20C-CN(CP)
带传感器
(With Sensor)

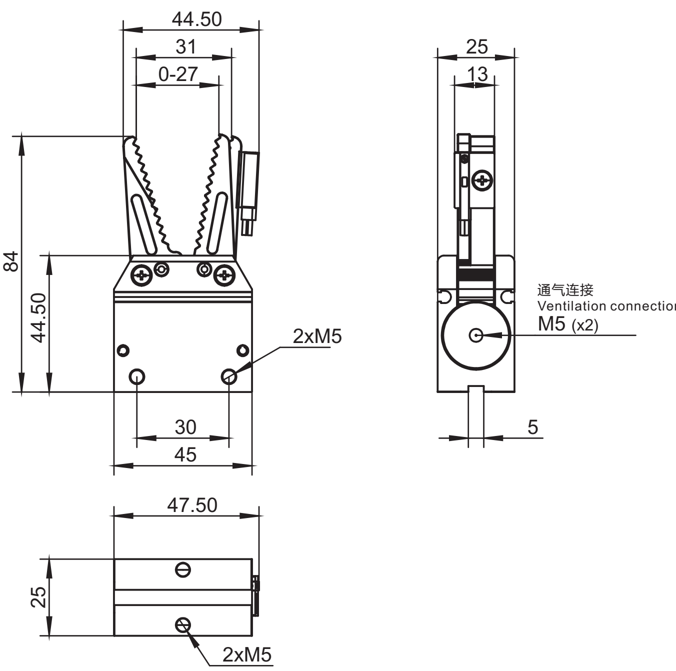
货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00391	GRA20A	-	80N	110g
8.Y00392	GRA20A-CP	PNP	80N	115g
8.Y00393	GRA20A-CN	NPN	80N	115g
8.Y00434	GRA20C-CP	PNP	80N	135g
8.Y00435	GRA20C-CN	NPN	80N	135g

水口夹具GRA20系列　Sprue Gripper GRA20 Series



GRA20A
无传感器(Without Sensor)

D-M9P (PNP)
D-M9N (NPN)

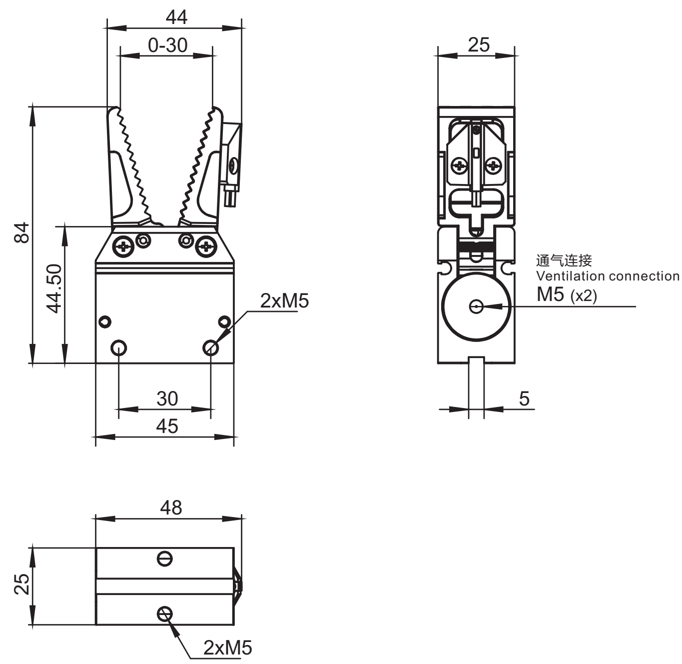


GRA20A-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00391	GRA20A	-	80N	110g
8.Y00392	GRA20A-CP	PNP	80N	115g
8.Y00393	GRA20A-CN	NPN	80N	115g

水口夹具GRA20系列 Sprue Gripper GRA20 Series

GRA20C-CN(CP)
带传感器(With Sensor)



货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00434	GRA20C-CP	PNP	80N	135g
8.Y00435	GRA20C-CN	NPN	80N	135g

水口夹具GRT20系列 Sprue Gripper GRT20 Series

1. 本体使用超硬铝材料，重量轻刚性强，寿命长。
2. 组装时可选择螺纹安装和CRG部品安装。
3. GR系列水口夹可选择不同的夹头形状，满足多种水口的夹取。
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
无传感器
(Without Sensor)

GRT20B
无传感器
(Without Sensor)

GRT20C
无传感器
(Without Sensor)

GRT20E
无传感器
(Without Sensor)

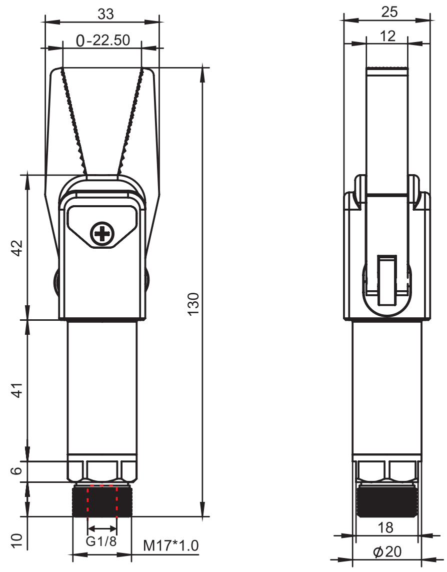
GRT20A-CN(CP)
带传感器
(With Sensor)

GRT20B-CN(CP)
带传感器
(With Sensor)

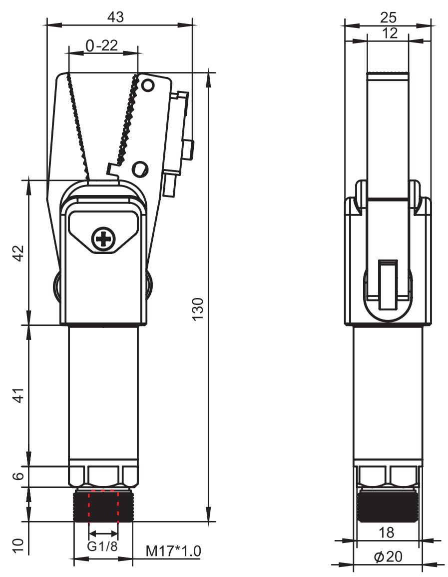
GRT20D
无传感器
(Without Sensor)

GRT20E-CN(CP)
带传感器
(With Sensor)

货号(PN)	型号(Model)	信号开关(Switch type)	抓取力(F)	重量(Weight)
8.Y00257	GRT20A	-	100N	111g
8.Y00252	GRT20A-C	-	100N	113g
8.Y00258	GRT20A-CN	NPN	100N	130g
8.Y00259	GRT20A-CP	PNP	100N	130g
8.Y00279	GRT20B	-	100N	162.8g
8.Y00280	GRT20B-C	-	100N	141.4g
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



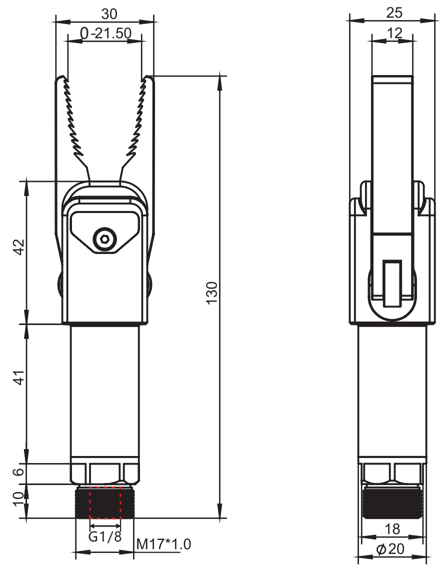
GRT20A
无传感器(Without Sensor)



GRT20A-CN(CP)
带传感器(With Sensor)

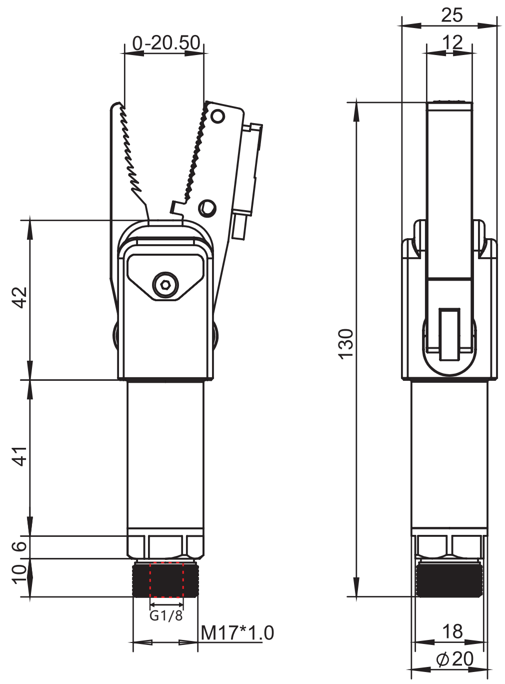
货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00257	GRT20A	-	100N	111g
8.Y00252	GRT20A-C	-	100N	113g
8.Y00258	GRT20A-CN	NPN	100N	130g
8.Y00259	GRT20A-CP	PNP	100N	130g

水口夹具GRT20系列 Sprue Gripper GRT20 Series



GRT20B
无传感器(Without Sensor)

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

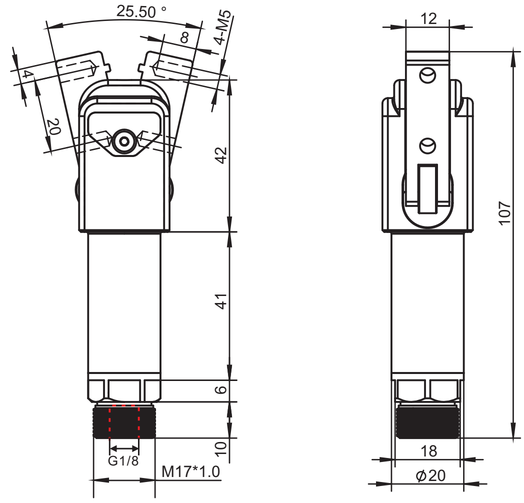


GRT20B-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00279	GRT20B	-	100N	162.8g
8.Y00280	GRT20B-C	-	100N	141.4g
8.Y00281	GRT20B-CN	NPN	100N	158.4g
8.Y00282	GRT20B-CP	PNP	100N	158.4g

水口夹具GRT20系列 Sprue Gripper GRT20 Series

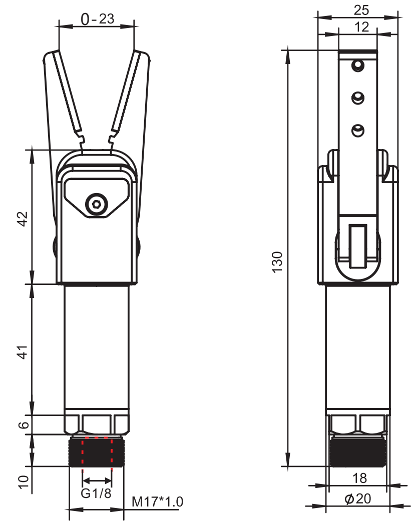
GRT20C
无传感器(Without Sensor)

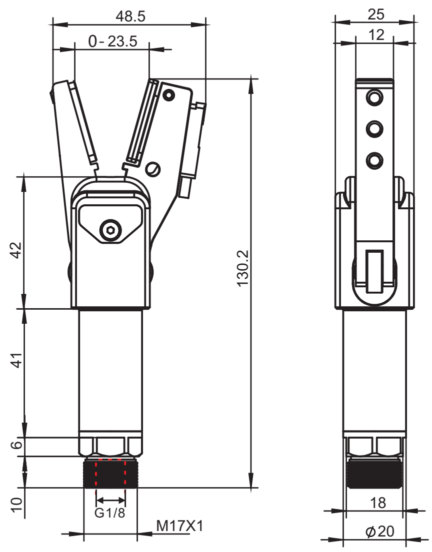


货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00316	GRT20C	-	100N	144g

水口夹具GRT20系列 Sprue Gripper GRT20 Series

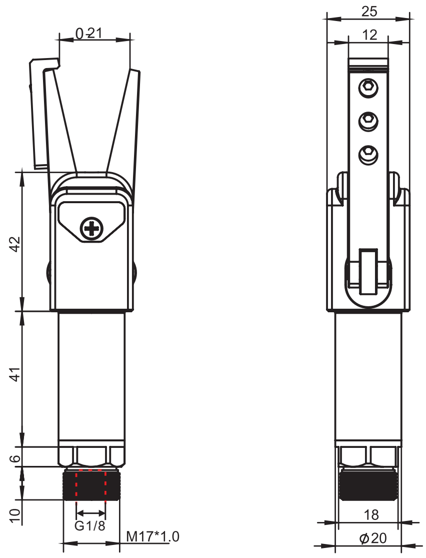
GRT20D
无传感器(Without Sensor)





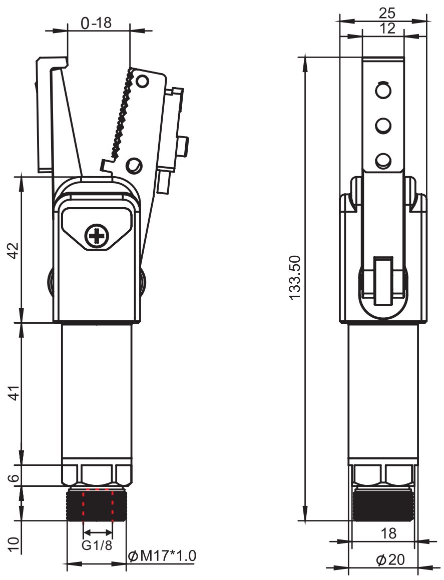
货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00317	GRT20D	-	100N	160g
8.Y01004	GRT20D-CP	PNP	100N	145g
8.Y00458	GRT20D-CN	NPN	100N	145g

水口夹具GRT20系列 Sprue Gripper GRT20 Series



GRT20E
无传感器(Without Sensor)

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



GRT20E-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00318	GRT20E	-	100N	161g
8.Y00339	GRT20E-CN	NPN	100N	165g
8.Y00340	GRT20E-CP	PNP	100N	165g

水口夹具GRP32系列 Sprue Gripper GRP32 Series

带齿标准爪, 双作用功能。
完全兼容CRG的模块化EOAT/夹取系统。
轴直径20毫米。
要求:
工作气压 6 bar。
需要过滤干燥空气

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
20mm shaft diameter.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.

GRP32A
无传感器
(Without Sensor)

GRP32B
无传感器
(Without Sensor)

GRP32A-30
无传感器
(Without Sensor)

GRP32B-30
无传感器
(Without Sensor)

GRP32A-CN(CP)
带传感器
(With Sensor)

GRP32B-CN(CP)
带传感器
(With Sensor)

GRP32A-30CN(CP)
带传感器
(With Sensor)

GRP32B-30CN(CP)
带传感器
(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	闭合力(F)	重量(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

水口夹具GRP32系列　Sprue Gripper GRP32 Series

带齿标准爪, 双作用功能。
完全兼容CRG的模块化EOAT/夹取系统。
轴直径20毫米。
要求:
工作气压 6 bar。
需要过滤干燥空气

Standard jaws with teeth, Double action function.
Fully compatible with CRG's modular EOAT/gripper system.
20mm shaft diameter.
Requirements:
Working air pressure 6 bar.
Requires filtered dry air.

GRP32C
无传感器
(Without Sensor)

GRP32A-3020
无传感器
(Without Sensor)

GRP32B-3020
无传感器
(Without Sensor)

GRP32C-3020
无传感器
(Without Sensor)

GRP32C-30
无传感器
(Without Sensor)

GRP32A-3020CN(CP)
带传感器
(With Sensor)

GRP32B-3020CN(CP)
带传感器
(With Sensor)

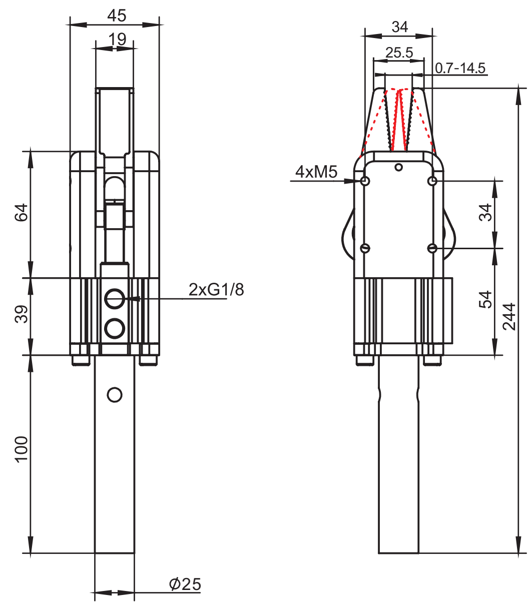
货号(PN)	型号(Model)	传感器(Sensor)	闭合力(F)	重量(Weight)
8.Y00468	GRP32A-3020	-	200N	1600g
8.Y00469	GRP32A-3020CP	PNP	200N	1654g
8.Y00477	GRP32A-3020CN	NPN	200N	1654g
8.Y00478	GRP32B-3020	-	200N	1604g
8.Y00416	GRP32B-3020CP	PNP	200N	1658g
8.Y00417	GRP32B-3020CN	NPN	200N	1658g
8.Y00412	GRP32C	-	200N	614g
8.Y00415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

水口夹具GRP32系列 Sprue Gripper GRP32 Series

斜齿
Helical tooth

可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

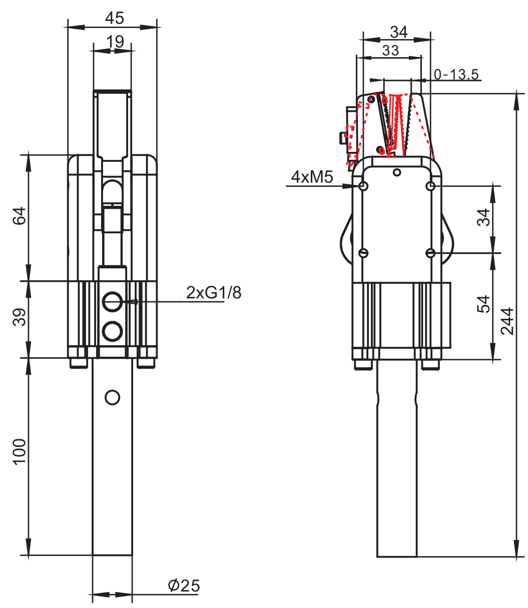
GRP32A
无传感器(Without Sensor)



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

可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

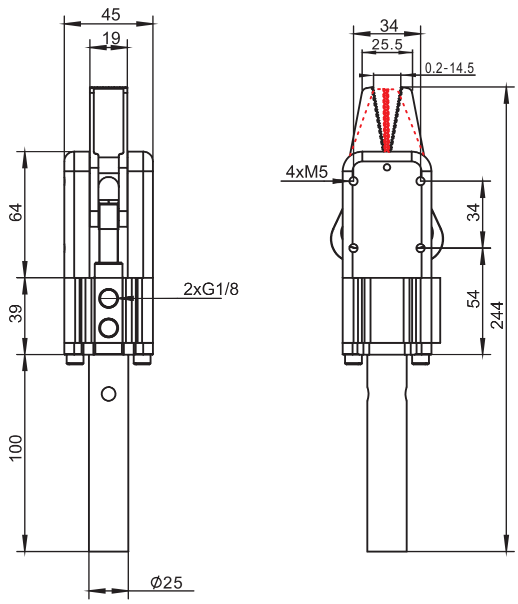
GRP32A-CN(CP)
带传感器(With Sensor)



货号(PN)	型号(Model)	传感器(Sensor)	闭合力(F)	重量(Weight)
8.Y00278	GRP32A	-	200N	604g
8.Y00462	GRP32A-CP	PNP	200N	658g
8.Y00463	GRP32A-CN	NPN	200N	658g

水口夹具GRP32系列 Sprue Gripper GRP32 Series

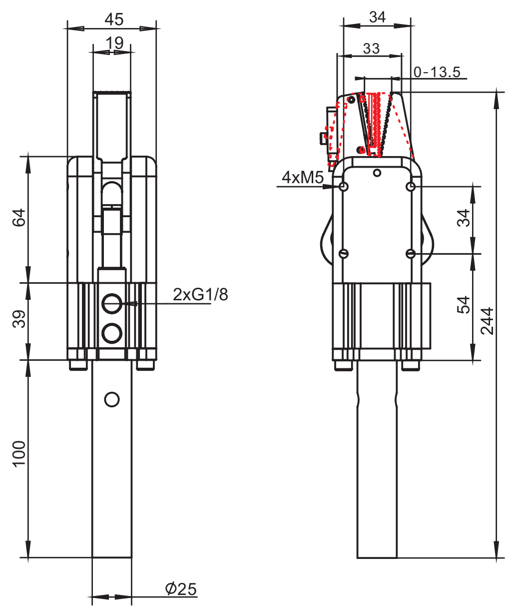
钻石齿
Diamond tooth



可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

GRP32B
无传感器(Without Sensor)

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



可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

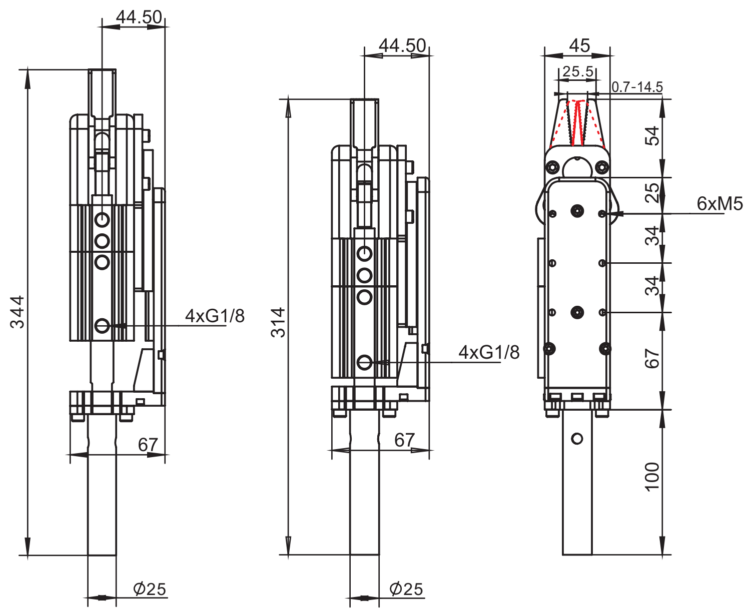
GRP32B-CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	闭合力(F)	重量(Weight)
8.Y00388	GRP32B	-	200N	608g
8.Y00466	GRP32B-CP	PNP	200N	662.4g
8.Y00467	GRP32B-CN	NPN	200N	622.4g

型材、钢管 Profile、SUS Tube
支架模组 Stents Module
快换 Quick Changer
夹具组件 Grip Module
气动剪刀 Air Nipper
真空组件 Vacuum Module
附件 Accessory Components

斜齿
Helical tooth

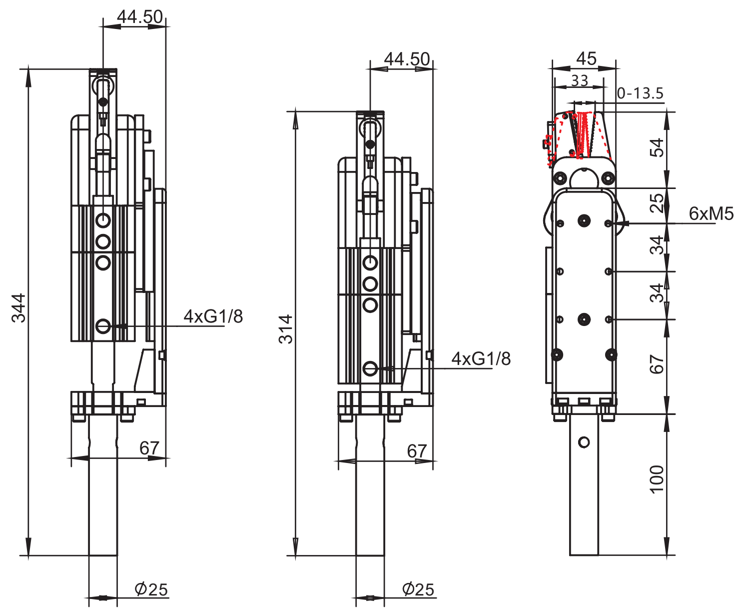
可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150



GRP32A-30
无传感器(Without Sensor)

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

可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150



GRP32A-30CN(CP)
带传感器(With Sensor)

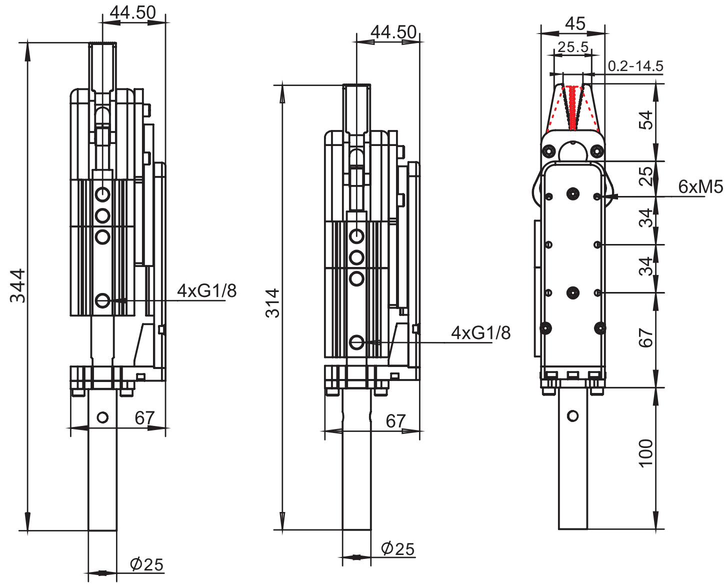
货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00315	GRP32A-30	-	200N	1276g
8.Y00464	GRP32A-30CP	PNP	200N	1330g
8.Y00465	GRP32A-30CN	NPN	200N	1330g

水口夹具GRP32系列　Sprue Gripper GRP32 Series

钻石齿
Diamond tooth

可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

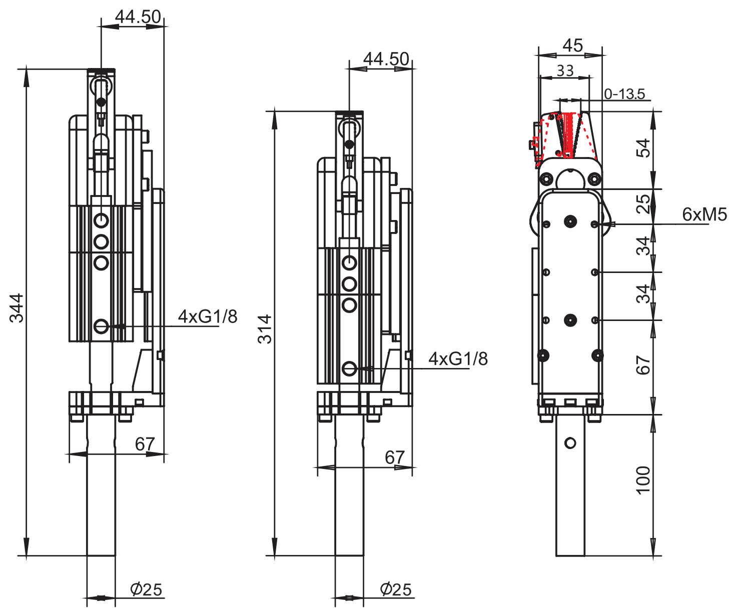
GRP32B-30
无传感器(Without Sensor)



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

可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

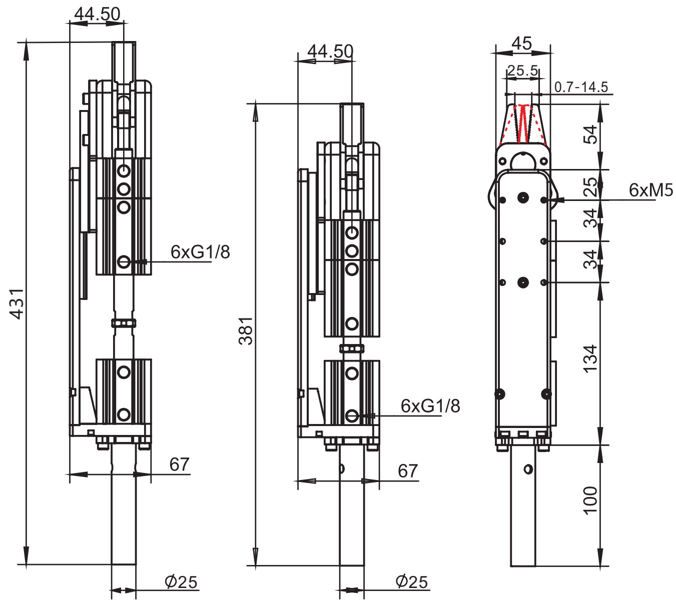
GRP32B-30CN(CP)
带传感器(With Sensor)



货号(PN)	型号(Model)	传感器(Sensor)	抓取力(F)	重量(Weight)
8.Y00387	GRP32B-30	-	200N	1282g
8.Y00399	GRP32B-30CP	PNP	200N	1336g
8.Y00411	GRP32B-30CN	NPN	200N	1336g

水口夹具GRP32系列 Sprue Gripper GRP32 Series

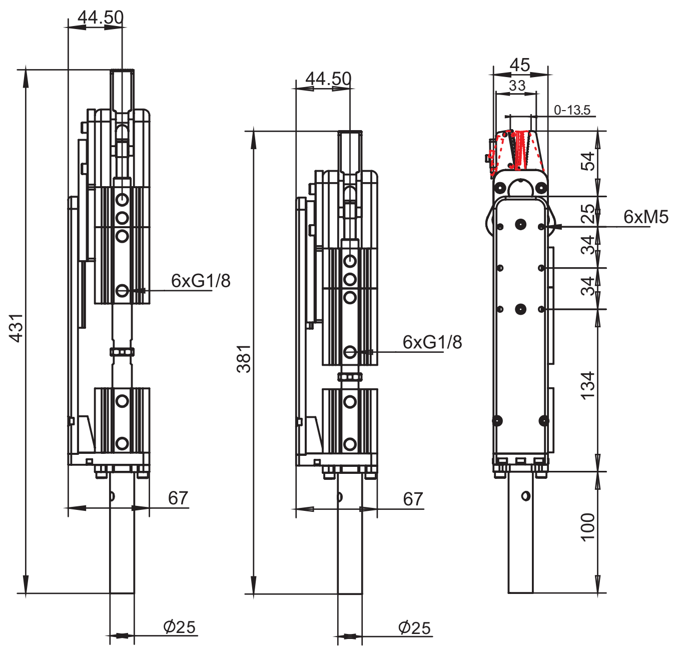
斜齿
Helical tooth



可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

GRP32A-3020
无传感器(Without Sensor)

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



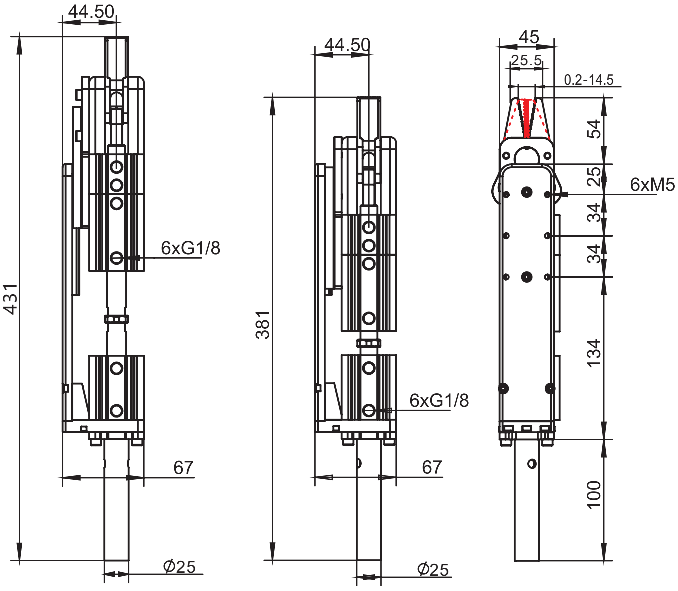
可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

GRP32A-3020CN(CP)
带传感器(With Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	闭合力(F)	重量(Weight)
8.Y00468	GRP32A-3020	-	200N	1600g
8.Y00469	GRP32A-3020CP	PNP	200N	1654g
8.Y00477	GRP32A-3020CN	NPN	200N	1654g

水口夹具GRP32系列 Sprue Gripper GRP32 Series

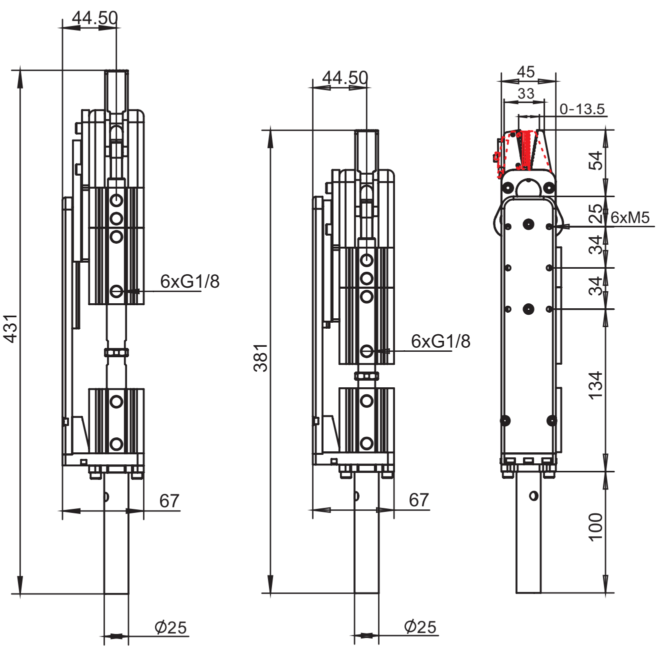
钻石齿
Diamond tooth



可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

GRP32B-3020
无传感器(Without Sensor)

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



可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

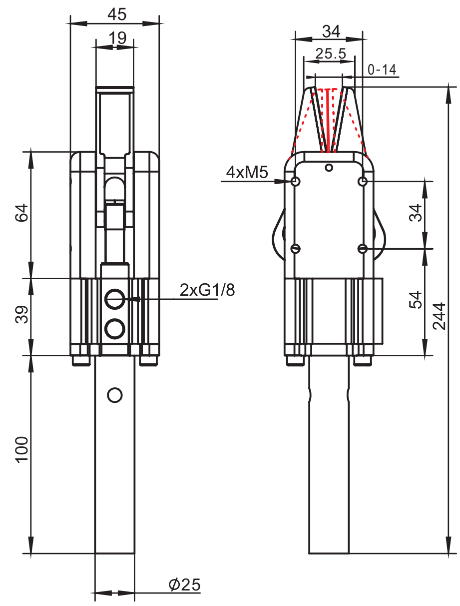
GRP32B-3020CN(CP)
带传感器(Without Sensor)

货号(PN)	型号(Model)	传感器(Sensor)	闭合力(F)	重量(Weight)
8.Y00478	GRP32B-3020	-	200N	1604g
8.Y00416	GRP32B-3020CP	PNP	200N	1658g
8.Y00417	GRP32B-3020CN	NPN	200N	1658g

水口夹具GRP32系列 Sprue Gripper GRP32 Series

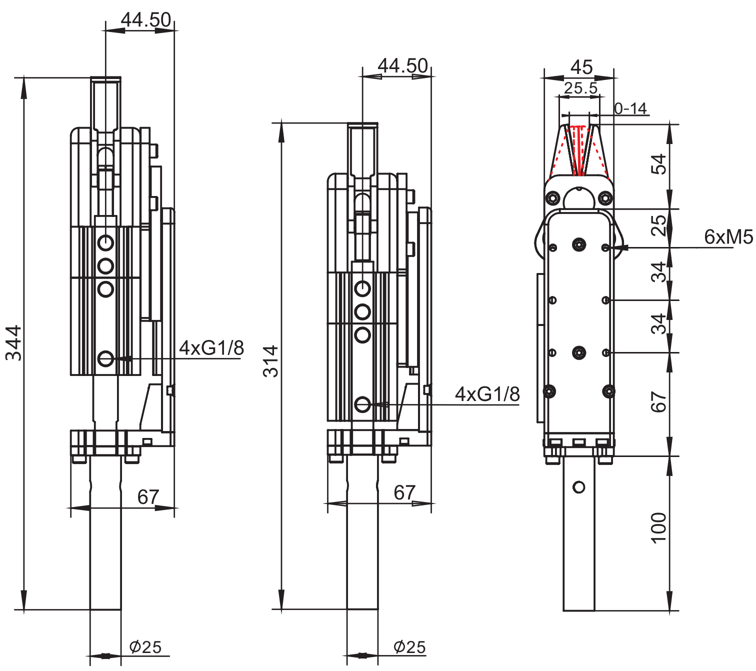
可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

GRP32C
无传感器(Without Sensor)



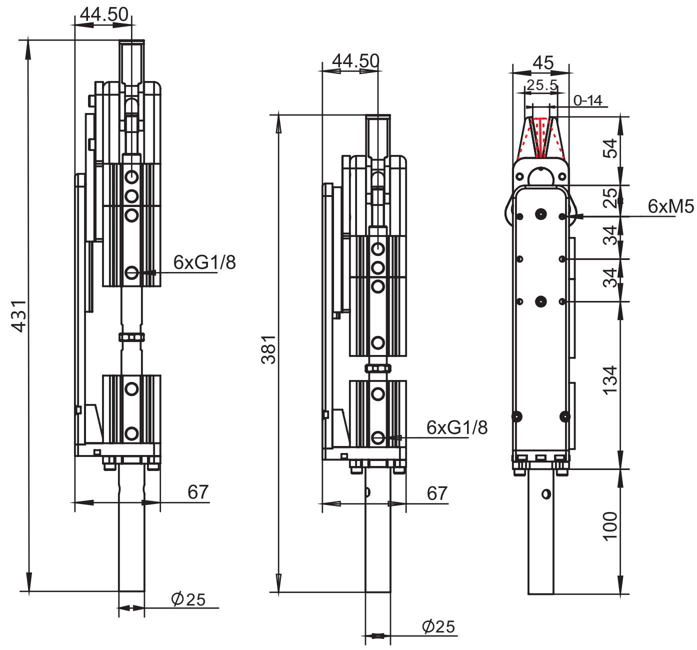
可更换直径Ø25、Ø30
可更换长度50、100、150
Dia can changes to Ø25、Ø30
Length can changes to 50、100、150

GRP32C-30
无传感器(With Sensor)



货号(PN)	型号(Model)	传感器(Sensor)	闭合力(F)	重量(Weight)
8.Y00412	GRP32C	-	200N	614g
8.Y00415	GRP32C-30	-	200N	1286g

GRP32C-3020
无传感器(Without Sensor)



货号(PN)	型号(Model)	传感器(Sensor)	闭合力(F)	重量(Weight)
8.Y00418	GRP32C-3020	-	200N	1610g

柔触手爪简介 Rochu Gripper Introduction

柔触手爪运用了仿生学原理，模仿章鱼触手包裹被抓对象的动作，对物体进行包覆式抓取。

传统夹具常常会因为物体形状、材质、抓取要求等多种局限，无法提供成功的抓取方案。而柔触手爪，由柔性材料制成，不会损伤被抓物件的同时，由于其厘米级的自适应能力，而具备极高的通用性，一爪万能，适合不同形状的物体，用户无需频繁更换夹具。

柔触手爪填补了机器人末端夹爪的此类空缺，极大地拓宽了工业机器人的应用场景。

Flexible soft grippers uses 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.

动作原理/ Working principle

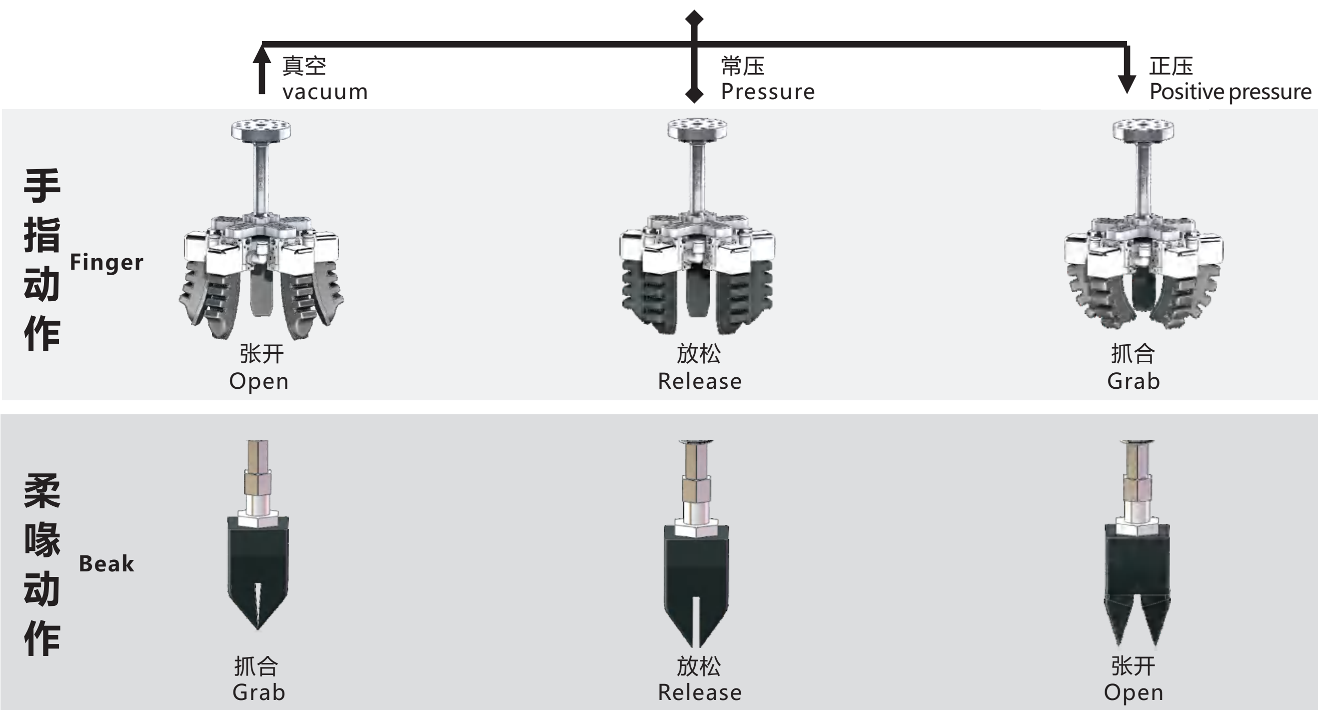
柔触手爪采用气动驱动技术，通过正负压切换，实现柔性手指/柔喙的张开和闭合动作，从而实现柔性抓取或外撑的动作。

同时通过调节空气压强来控制手爪的夹紧力度或开合角度，实现对不同物件的柔性抓取，同时避免夹伤物件。

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.

空气驱动器

Rochu Control Unit



产品使用气压必须严格控制在安全工作压力范围内，过载使用可能会对产品造成不可逆转的损害；使用时建议使用原厂驱动器，以保证产品使用寿命与稳定性，产品使用气压请参照产品页或包装标识。

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.

适用领域 /Application

柔性手指的抓取动作灵感来自于章鱼的触须，能柔软的包裹被抓取物体，在实现柔性抓取的同时不会损坏物体或在物体表面留下划痕。并广泛应用于汽车零部件、3C电子、食品、医疗、服装、日化等多种行业。柔性手爪可用于装配、分拣、搬运等多种工业场合，也可以用于自动售卖机等新零售行业。安全性高、通用性好、安装简单方便，弥补了机械夹爪和真空吸盘在某些场合所无法适用的空缺。

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.

食品生鲜
Food

食品级材料安全无毒，通过了FDA食品级检测标准，可直接接触食物本身，尤其适用于果蔬、不规则真空包装食品、奶制品、面团糕点等分拣包装。

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

3C电子
3C-electronics

适用于精密电子仪器的高精度插拔，以及对手机等相关配件、电路板、硅片、薄玻璃等工件的组装、分拣、测试、包装等工序。

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.

服装面料
Clothing fabric

适用于针织和梭织面料的分层抓取或多层同时抓取，分层抓取时只抓取堆叠材料的最上一层，也可用于堆叠裁片的整叠搬运。

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.

汽车零部件
Automobile

用于汽车车灯、金属异形件、外观件的分拣、搬运、上下料，尤其适用于小批量、多批次的柔性生产需求。

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.

智能抓取
Smart picking

基于人工智能技术的智能抓取。可以用于无序堆叠，复杂场景下的来料分选与物流包装。

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

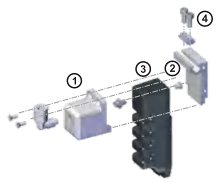
医疗用品
Medical Supplies

用于输液管、试管，安瓿瓶等医疗耗材的抓取，也可抓取瓶装、袋装试剂，包括用于医疗器械的生产、消毒等工序。

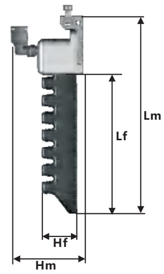
It is used for grasping medical consumables such as infusion tube, test tube and ampoule bottle, as well as bottled and bagged reagents, including the production and disinfection of medical devices.

手指模块 Finger Module

V5系列 手指模块 / Series-GFM-V5



①罩盖S-AV5
②堵头PN-166
③柔触手指F-A5T/LS1
④滑槽螺母TN-03



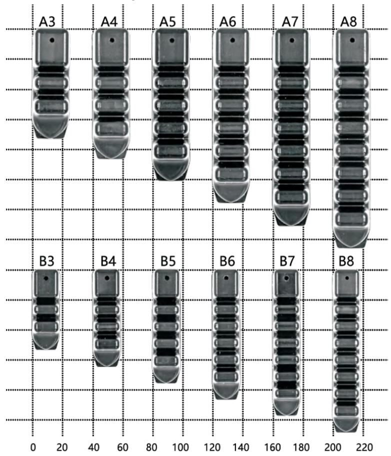
系列 Series	货号 PN	型号 Model	指尖行程 HR [mm]	负压行程* Hmax [mm]		正压行程** Hmin [mm]	模块高度 Hm [mm]	手指高度 Hf [mm]	模块长度 Lm [mm]	手指长度 Lf [mm]	模块宽度 Wm [mm]	手指宽度 Wf [mm]	自重 [g]	安全工作气压 [Kpa]	
				常规型手指	增强型手指									常规型手指	增强型手指
A款	4.Y00500	GFM-A3V5	16.5	8	7	8.5	58	28	88	41	31	24	76	120	300
	4.Y00501	GFM-A4V5	27	10	12	17			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		
B款	4.Y00503	GFM-B3V5	19	10	6	9	51	21	71	31	25	18	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		
C款	4.Y00506	GFM-C3V5	10.5	5	1	5.5	44	14	53	21	18	12	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		

柔性手指 Flexible Finger

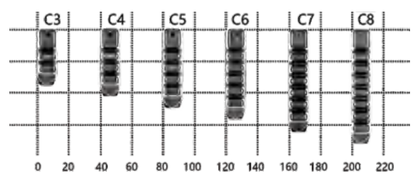
型号对比 / Model comparison

A 款
Series-A

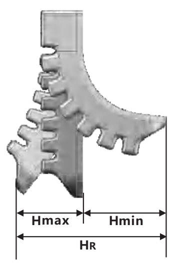
B 款
Series-B

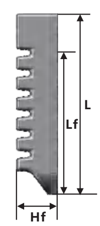


C 款
Series-C



尺寸参数 / Size Parameter

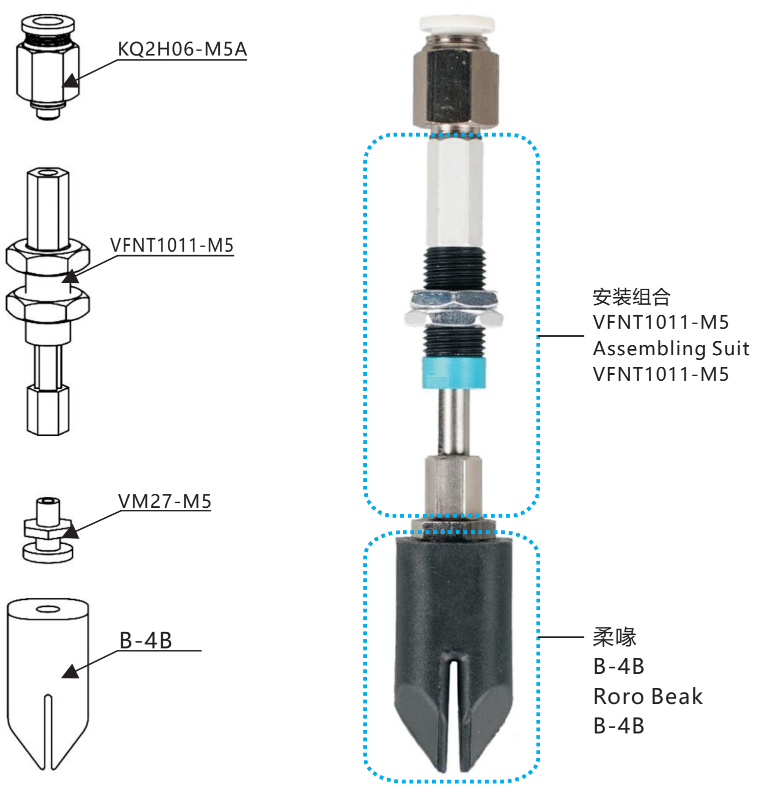




系列 Series	货号 PN	型号 Model	指尖行程 HR [mm]	负压行程* Hmax [mm]		正压行程** Hmin [mm]	高度 Hf [mm]	长度 Lf [mm]	总长度 L [mm]	指宽 Wf [mm]	自重 [g]	安全工作气压 [Kpa]	
				常规型手指	增强型手指							常规型手指	增强型手指
A款	1.Y08421	A3	16.5	8	7	8.5	28	41	69	24	33	120	300
	1.Y08422	A4	27	10	12	17		55	83		40		
	1.Y08423	A5	43.5	19	16	24.5		69	97		47		
	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		
B款	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		
C款	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		

柔喙套件 Roro Beak Suit

GBS-4B-S01 4尖套件 GBS-4B-S01 4 pieces Beak Suit



三尖外撑抓取珠宝
3 Pieces Application: Gripping jewelry by external bracing

三尖外撑抓取密封圈
3 Pieces Application: Gripping ring by external bracing

四尖包裹式抓取电子产品
4 Pieces Application: Gripping products in Electronic industry

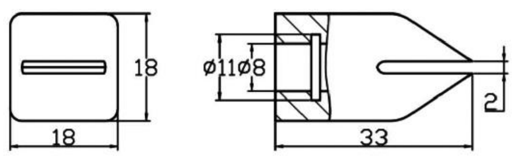
货号 (PN)	型号 (Model)	最大负载 (Maximum Load)	最高工作频率 (Maximum Working Frequency)	精度范围 (Precision Range)
4.Y00509	GBS-2B-S01	5 g	200 times/min	0.1 mm
4.Y00510	GBS-3B-S01	5 g	200 times/min	0.1 mm
4.Y00511	GBS-4B-S01	5 g	200 times/min	0.1 mm

柔喙 Roro Beak

两尖柔喙，夹取范围 1-5mm，适用于纤维状、条状小物件
2 pieces Roro Beak Gripping Range: 1-5mm, Application: fibrous, striped small objects

柔 喙 B-2B
Roro Beak B-2B

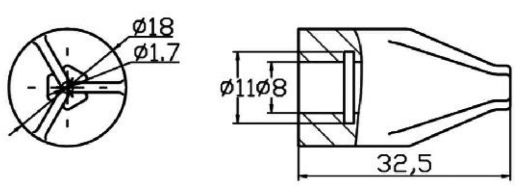
货号(PN)	1.Y08430
型号(Model)	B-2B



三尖柔喙，夹取范围 7-12mm，适用于外撑型抓取圆环状小物件
3 pieces Roro Beak Gripping Range: 7-12mm, Application: gripping small rings by external bracing

柔 喙 B-3B
Roro Beak B-3B

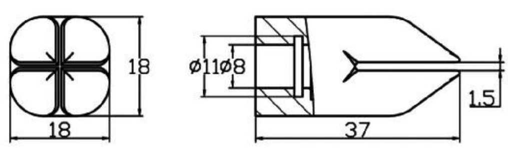
货号(PN)	1.Y08431
型号(Model)	B-3B



四尖柔喙，夹取范围 1-5mm，适用于球形、不规则小物件，通用性最佳
4 pieces Roro Beak Gripping Range: 1-5mm, Application: spherical, irregular small objects, the best universality

柔 喙 B-4B
Roro Beak B-4B

货号(PN)	1.Y08432
型号(Model)	B-4B



滑移安装板 Slide Mounting Platte

GSMP-多向系列/GSMP- Multidirection

产品特点

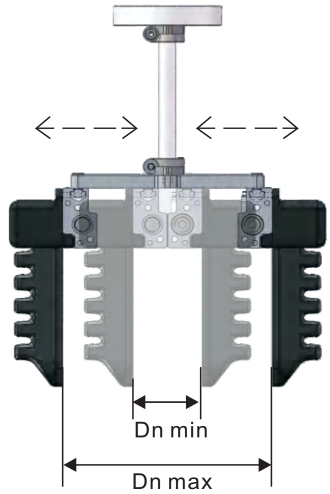
按形状和槽长度分为不同款式

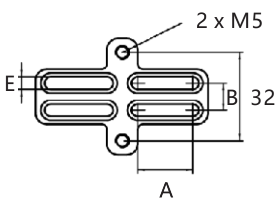
可用于手指模块[FM]与 法兰连接模块[FCM]间的装配

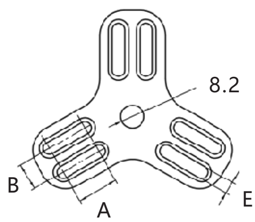
手指模块[FM]的安装角度和位置可自由调节

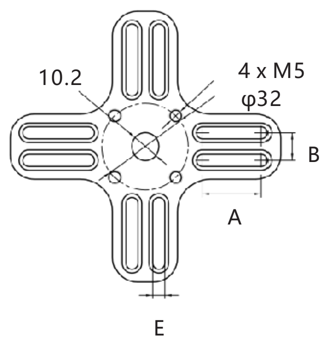
Features

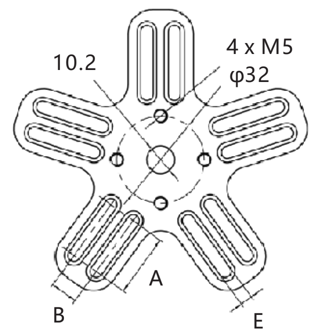
- Different styles according to shape and slot length
- Can be used for assembly between finger module [FM] and flange connection module [FCM]
- The installation angle and position of finger module [FM] can be adjusted freely











GSMP-2S

GSMP-3S

GSMP-4S

GSMP-5S

GSMP-2L

GSMP-3L

GSMP-4L

GSMP-5L

系列 Series	货号 PN	型号 Model	槽长 A [mm]	槽间距 B [mm]	槽宽 E [mm]	厚度 [mm]	常压指尖距 Dn[mm] Dnmin~Dnmax		自重 [g]
							V2,V4手指模块	V3,V5手指模块	
双向	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
三向	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
四向	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
五向	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 空气驱动器/ Integrated Passive Control Unit

- 紧凑型柔触夹爪专用控制器。体积小，重量轻，安装方便。
- 拥有3档可调节输出气压范围，全面支持从柔喙到增强型手指的驱动。
- 手动旋钮式调压。
- 一体化面板集成数显与操作按钮。
- 拥有手动（按钮）和自动(I/O电平信号）两种控制模式，适配各种机械臂，PLC终端。
- 配备安装块及工业导轨卡槽，多种安装方式。
- IP54电气防护等级，防水防尘，适用各种恶劣工况，拥有智能的报警功能，安全，稳定，无需担心误操作，产品通过欧盟CE安全认证。

- 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.

CE

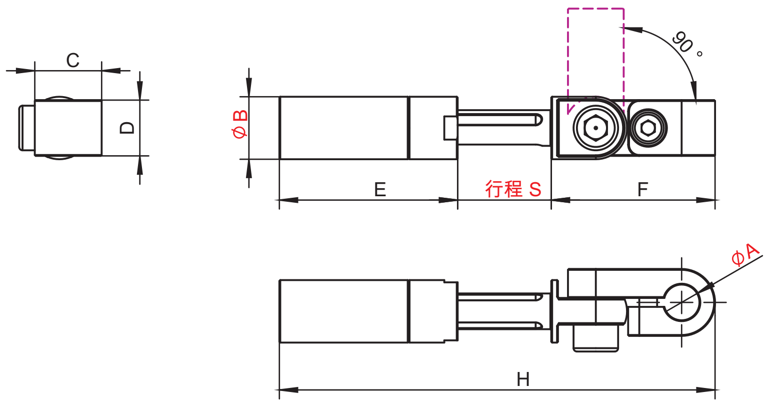
工作参数/Work Parameter

名称 Parameter	范围 Range	名称 Parameter	范围 Range
额定电压/Rated Voltage	24 VDC ± 10%	外壳材质/Fuselage Shell	ABS
额定功率/Rated power	12 W	尺寸/Size	207x132x141 mm
输入气源/Input Air Source	0.45~1.00 Mpa，流量>200 L/min	净重/Net Weight	2.0 kg
输出气压 Output Air Pressure	-90~60kPa (低档)	寿命/life span	5000 万次
	-90~120kPa (中档)	控制方式/Control mode	a. 手动按钮
	-90~300kPa (高档)		b. I/O,电平信号
防护等级/Protection Grade	Ip54	工作模式/Work Mode	持续信号驱动

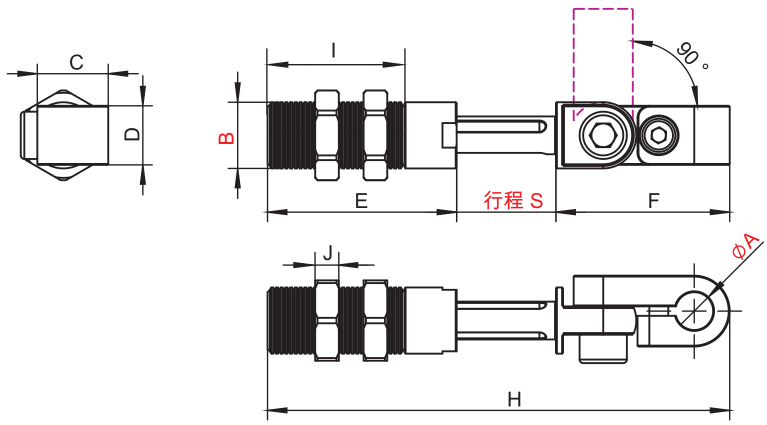
型号 Model		货号 PN	手动调压 Manual voltage regulation	电子调压 Electronic voltage regulator	无线遥控 Wireless remote control	姿态反馈 Wireless Attitude feedback	速度调节 Speed adjustment	安全气压 Safety air pressure	正压流量 [L/min]	负压流量 [L/min]
标准型号	iPCU 2-SMN	1.Y12927	●					可调	200	40

缓冲支架 Buffer Support

尺寸 (mm) / Dimensions (mm)

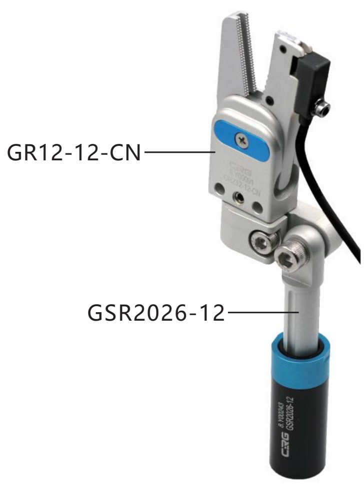


货号(PN)	型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	H(mm)	S(mm)	重量(Weight)
8.Y00241	GSR1421-08	8	14	15	12.5	40	36.75	97.75	21	36g
8.Y00373	GSR1436-10	10	14	20	15	60	45.5	139	36.5	54g
8.Y00329	GSR2026-10	10	20	20	15	50	45.5	121.5	26	74g
8.Y00243	GSR2026-12	12	20	20	15	50	45.5	121.5	26	73g
8.Y00330	GSR2051-10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



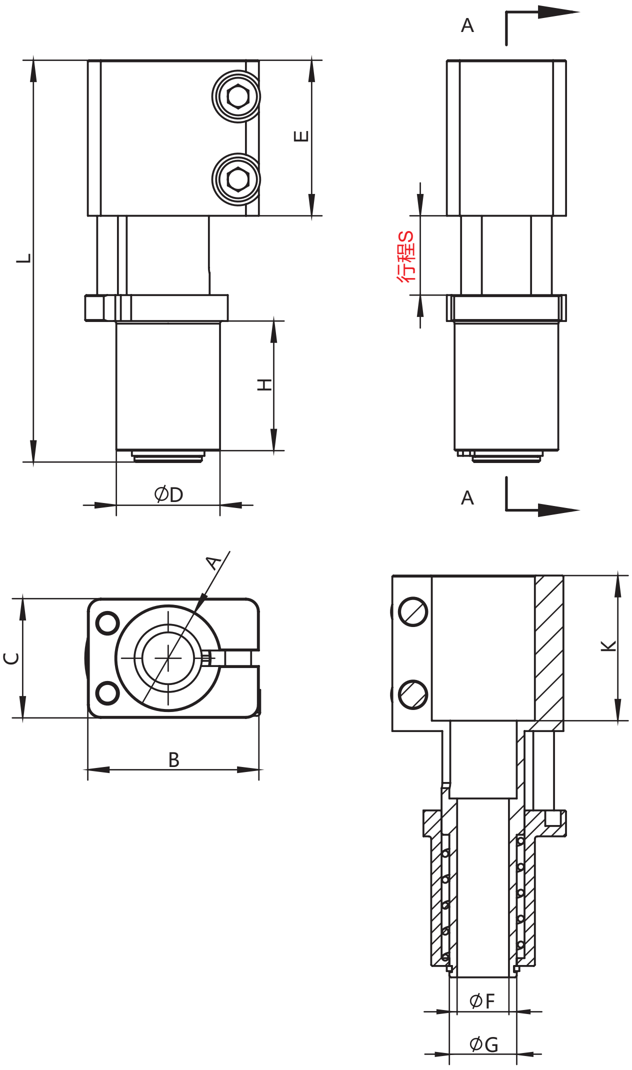
货号(PN)	型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	H(mm)	I(mm)	J(mm)	S(mm)	重量(Weight)
8.Y00242	GSRT1421-08	8	M14	15	12.5	40	36.75	97.75	29	2.7	21	43g
8.Y00332	GSRT2026-10	10	M20	20	15	50	45.5	121.5	39	3.9	26	92g
8.Y00244	GSRT2026-12	12	M20	20	15	50	45.5	121.5	39	3.9	26	91g
8.Y00333	GSRT2051-10	10	M20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

运用实例 / Application



缓冲支架 Buffer Support

尺寸 (mm) / Dimensions (mm)

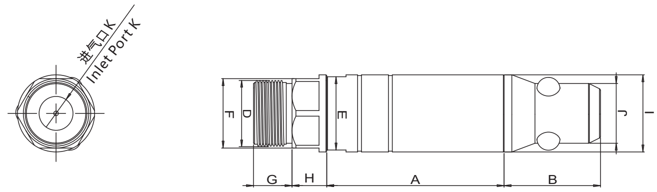


运用实例 / Application

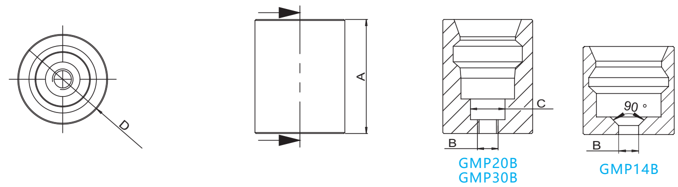
货号(PN)	型号(Model)	A	B	C	D	E	F	G	H	L	K	行程S	重量(Weight)
8.Y00238	GSP20-14	14	31	20	20	30	10	13	25	77.5	28	15	57g
8.Y00239	GSP20-20	20	33	23	20	30	10	13	25	77.5	28	15	65g
8.Y01032	GSP30-30	30	43	33	30	30	18	22	25	77.5	28	15	108g

模具定位器 Mould Positioner

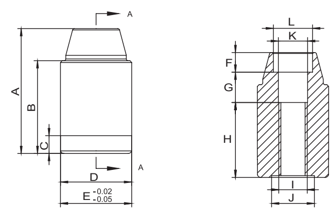
尺寸 (mm) / Dimensions (mm)



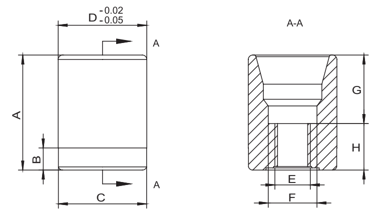
货号(PN)	型号(Model)	A	B	D	E	F	G	H	I	J	K	最大锁持力	重量(Weight)
8.Y00408	GMP14A	38	14	M12*1	-	12	5	4	Ø14	Ø11	M5	90N	62g
8.Y00088	GMP20A	46	25	M17*1	19	18	10	9	Ø20	Ø15.5	G1/8	190N	78g
8.Y00089	GMP30A	75	38	M27*1	28	27	11	10	Ø30	Ø25.5	G1/8	280N	303g



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

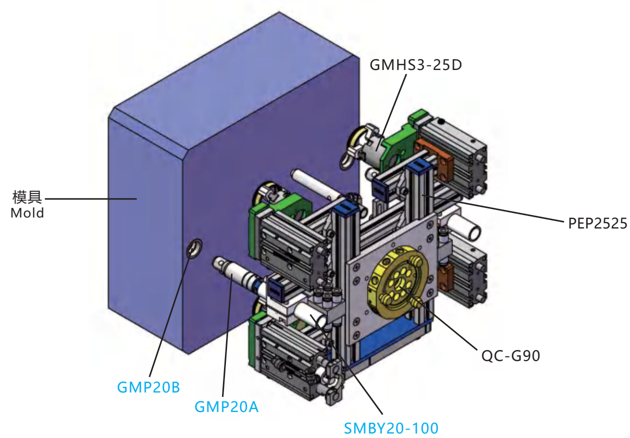


货号(PN)	型号(Model)	A	B	C	D	E	F	G	H	I	J	K	L	重量(Weight)
7.Y00894	GLU20A	35	26	5	Ø19.92	Ø20	5.50	8.50	21	M8	Ø12	Ø8.20	Ø11	61g

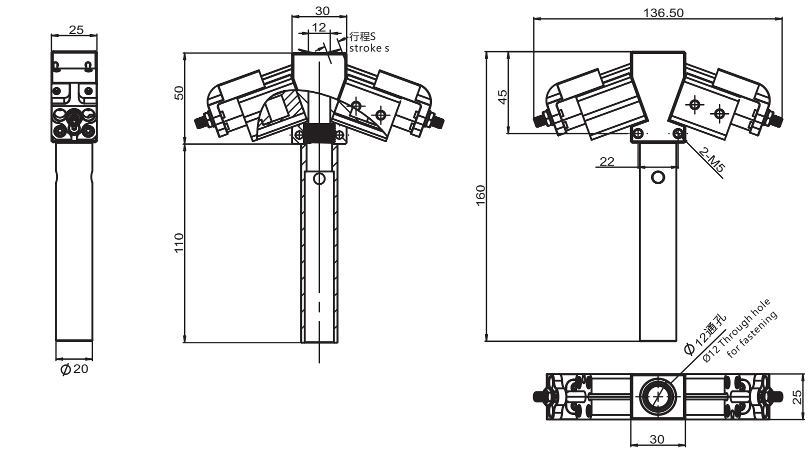


货号(PN)	型号(Model)	A	B	C	D	E	F	G	H	重量(Weight)
7.Y00895	GLU20B	26	5	Ø19.92	Ø20	M8	Ø11	15.50	10.50	42g

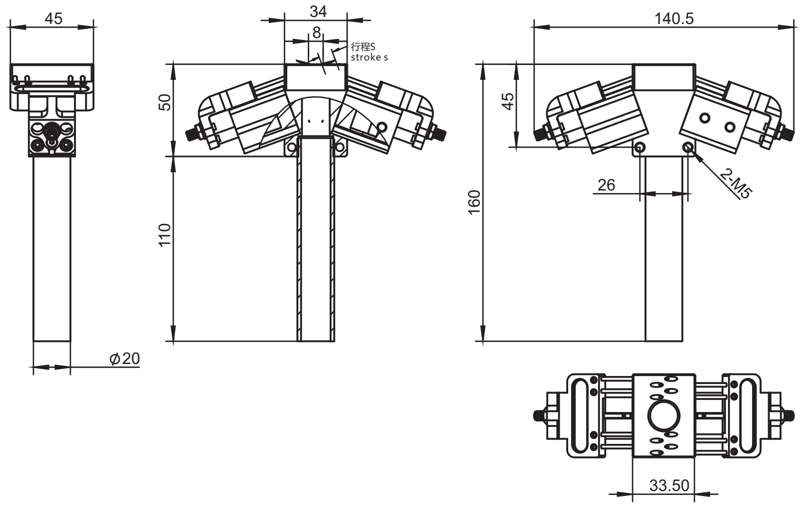
运用实例 / Application



GN2010
4针 Pins



GN2010-8
8针 Pins



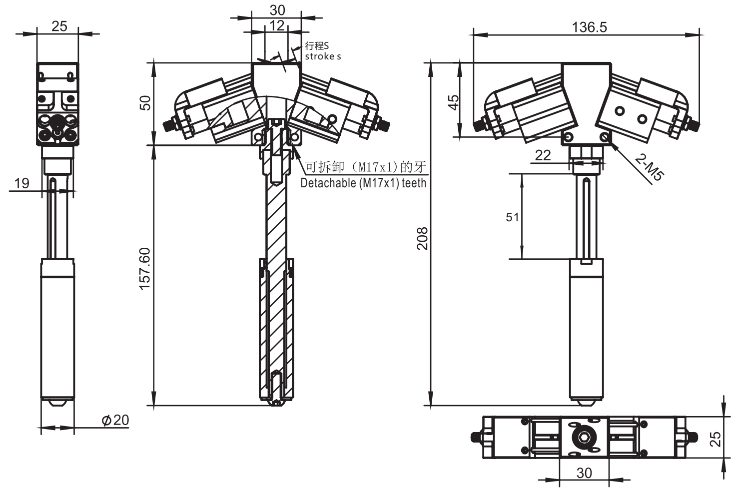
多用于汽车行业的无纺布埋入，也可用于网布、海棉等物体的取出或埋入。
钢针的伸出长度可调节，且可以根据客户要求定制非标的钢针长度。

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.

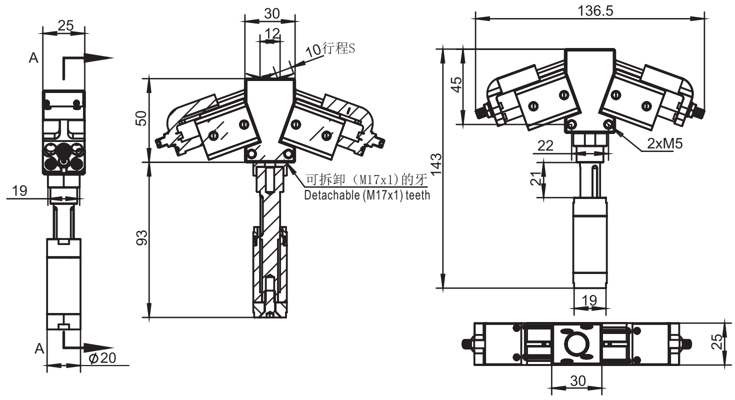
货号(PN)	8.Y00025	8.Y00347
型号(Model)	GN2010	GN2010-8
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered, lubricated / non lubricated compressed air	
压力范围 Pressure range	3 ~ 8 bar	
温度范围 Temperature range	-10° ~ 70 °C.	
6 bar压力下打开总夹取力 Opening total gripping force at 6 bar	90 N	
针状行程S Needle stroke s	0 ~ 10 mm	
循环空气消耗量 Cycle air consumption	3.5 cm^3	
重量 Weight	274g	317g

型材、钢管 Profile、SUS Tube
支架模组 Stents Module
快换 Quick Changer
夹具组件 Grip Module
气动剪刀 Air Nipper
真空组件 Vacuum Module
附件 Accessory Components

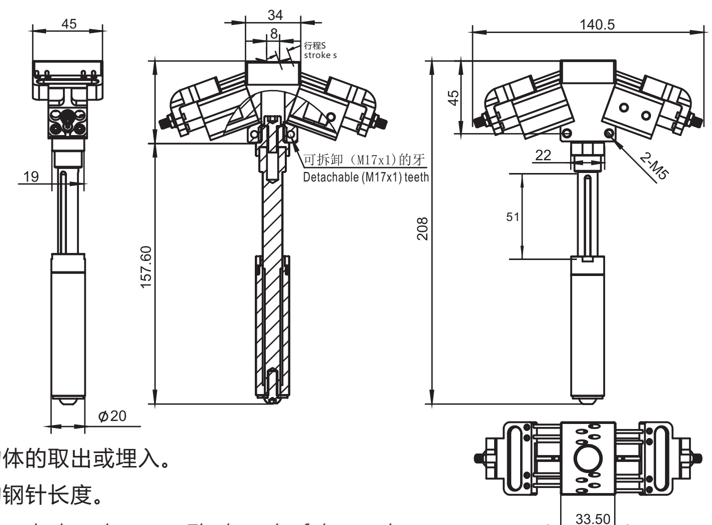
GN2010-S51
4针 Pins



GN2010-S21
4针 Pins



GN2010-8S51
8针 Pins



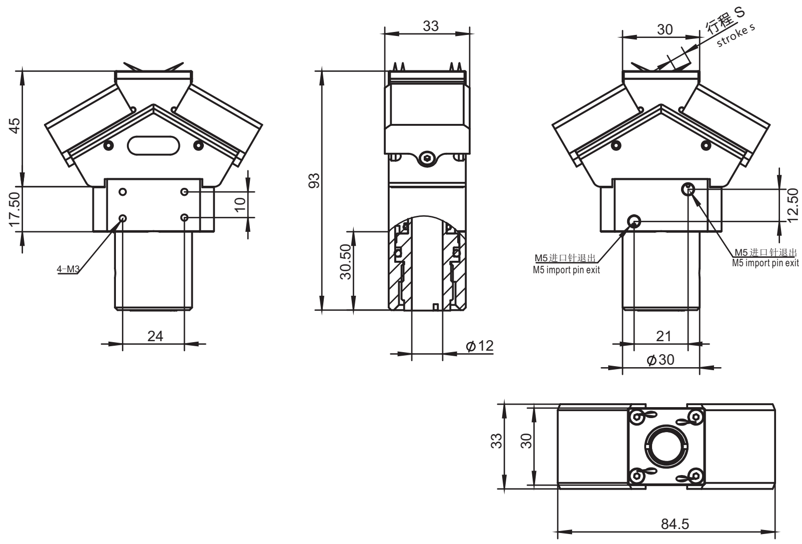
多用于汽车行业的无纺布埋入，也可用于网布、海棉等物体的取出或埋入。
钢针的伸出长度可调节，且可以根据客户要求定制非标的钢针长度。

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.

货号(PN)	8.Y00341	8.Y00440	8.Y00385
型号(Model)	GN2010-S51	GN2010-S21	GN2010-8S51
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered, lubricated / non lubricated compressed air		
压力范围 Pressure range	3 ~ 8 bar		
温度范围 Temperature range	-10° ~ 70 °C.		
6 bar压力下打开总夹取力 Opening total gripping force at 6 bar	90 N		
针状行程S Needle stroke s	0 ~ 10 mm		
循环空气消耗量 Cycle air consumption	3.5 cm^3		
重量 Weight	240g	220g	480g

NEW

GN3003-4
4针 Pins



多用于汽车行业的无纺布埋入，也可用于网布、海棉等物体的取出或埋入。
钢针的伸出长度可调节，且可以根据客户要求定制非标的钢针长度。

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.

货号(PN)	8.Y01005
型号(Model)	GN3003-4
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered, lubricated / non lubricated compressed air
压力范围 Pressure range	3 ~ 8 bar
温度范围 Temperature range	-10° ~ 70 °C.
6 bar压力下打开总夹取力 Opening total gripping force at 6 bar	90 N
针状行程S Needle stroke s	0 ~ 10 mm
循环空气消耗量 Cycle air consumption	3.5 cm^3
重量 Weight	188g

鼓胀器 Bulging Device

型号表示方法
Model representation methods

GBD [18] [H] [D]

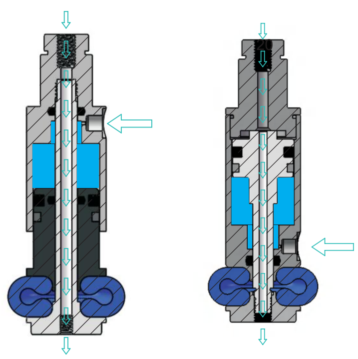
基本尺寸
basic size
缸体直径
Body Diameter

中间通孔
Middle through hole

动作方向
Actuation direction
D - 向下
D - Downward
U - 向上
U -Upward

向下或向上。
橡皮圈部分可由硅橡胶制成。
夹取尺寸可从18 到 31 mm不等。
多种安装附件。

Downward movement, or Upward movement.
The elastic part can be in Silicone or Rubber.
Grip diameters from 18 to 31 mm.
Several mounting accessories.



GBD...HD GBD...HU

过孔

H型号拥有一个中央过孔。可吹送压缩空气，或通过冷却部件或检查泄露的方式提供真空。

Through hole for fastening

The ...H models have a central through hole. It can be used to blow compressed air, or to provide vacuum, with the purpose to cool a part, or to check the leakage.

硅橡胶 Silicone rubber

橡胶圈部分采用蓝色硅橡胶或透明硅橡胶。
硅橡胶可提供较高的温度范围，确保较长的使用寿命。
硅橡胶(蓝色或透明)橡胶圈可作为备件，磨损后可替换。
硅橡胶制成的橡胶圈预计可使用100万次。

The elastic part can be in blue Silicone, or transparent silicone.
Silicone can be used over a wider temperature range and assures a longer life time.
The elastic part in Silicone is available as a spare part and can be replaced,when worn out.
The expected medium life time of the elastic part in Silicone is about 1 million cycles.

备用的橡胶圈部件
Spare elastic part

S1
蓝色硅橡胶
Blue Silicone

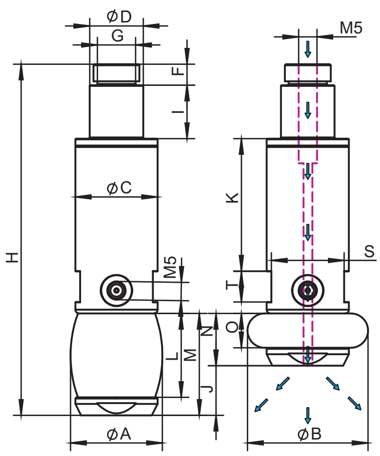
S2
透明硅橡胶
Transparent silicone

橡胶圈出货时可有客户选定
Silicone can be shipped by customers

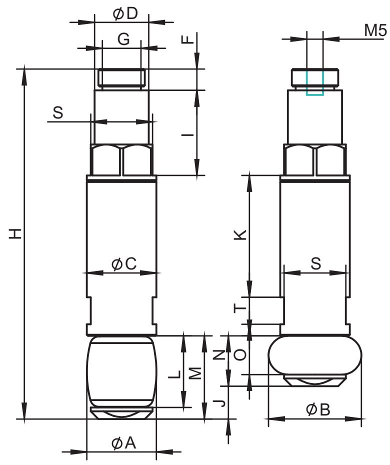
规格(Spec.)	Ø18	Ø22
型号(Model)	18-S1	22-S1
货号(PN)	4.Y00470	4.Y00471
型号(Model)	18-S2	22-S2
货号(PN)	4.Y00472	4.Y00473
鼓胀器(Bulging device)	GBD18U GBD18HD	GBD22HU

T-橡胶圈部件的操作温度(夹具主体5~60°C)
T - Operating temperature of the elastic part (5~60°C for the gripper body)

鼓胀器 Bulging Device

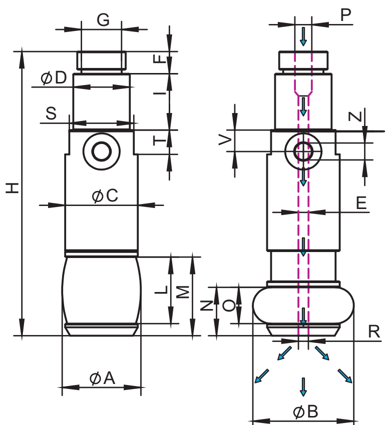


GBD...HU



GBD...U

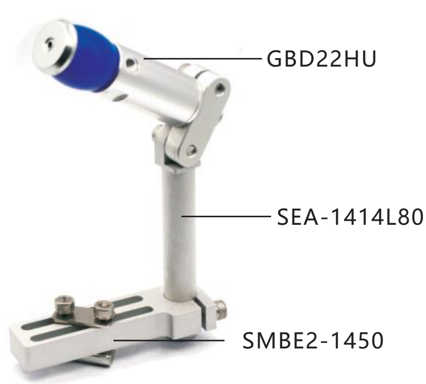
货号(PN)	型号(Model)	ØA	ØB	ØC	ØD	F	G	H	I	J	K	L	M	N	O	S	T	重量
8.Y00212	GBD18U	18	24	18	14	5.5	M12×1	90.5	22	8.5	31.5	18.5	21.5	13	10	16	7	39.7g
8.Y00058	GBD22HU	24	31.5	21.3	14	5.5	M12×1	92	14	13	34.8	22	26.7	13.7	9	19	8	53.8g



GBD...HD

货号(PN)	型号(Model)	ØA	ØB	ØC	ØD	ØE	F	G	H	I	L	M	N	O	P	R	S	T	V	Z	重量
8.Y00057	GBD18HD	19.5	25	18	14	2.5	5.5	M12×1	70.5	14	16.5	19.5	12	9	M5	M3	16	6	5.3	M5	27.4g

运用实例 / Application

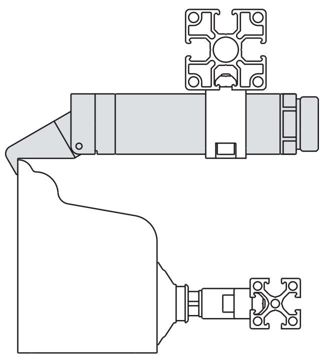


型材、钢管 Profile、SUS Tube
支架模组 Stents Module
快换 Quick Changer
夹具组件 Grip Module
气动剪刀 Air Nipper
真空组件 Vacuum Module
附件 Accessory Components

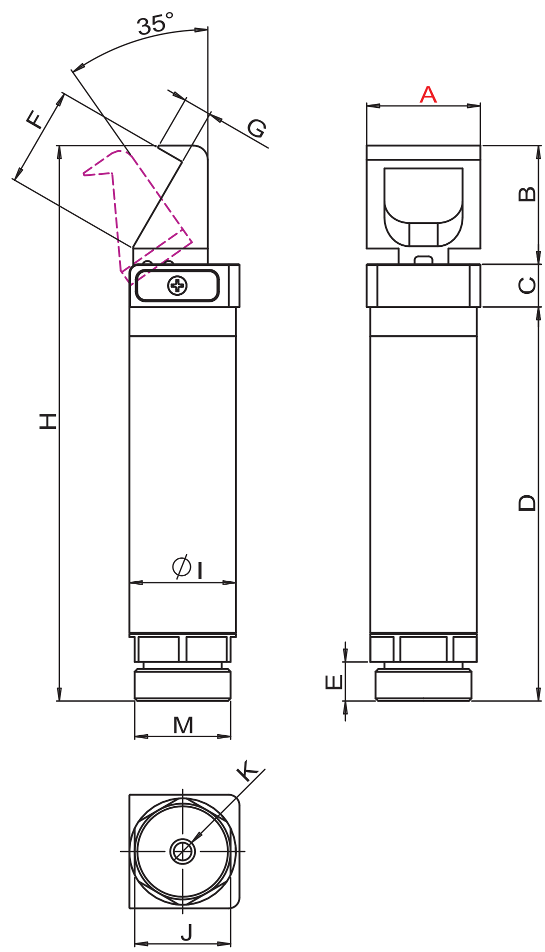
- 单一动作。
- 内置磁环。

- Single acting.
- Built-in magnetic ring.

GFA...-35



货号(PN)	8.Y00117	8.Y00118	8.Y00119
型号(Model)	GFA14-35	GFA20-35	GFA30-35
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air		
夹具体 Gripper body	铝制的 Aluminium		
压力范围 Pressure range	2.5 ~ 8 bar		
温度范围 Temperature range	-10 ~ 70 °C.		
行程 Stroke	35°		
活塞孔 Piston bore	Ø10 mm	Ø16 mm	Ø25 mm
6 bar压力下的关闭扭矩 Closing torque at 6 bar	26 Ncm	100 Ncm	430 Ncm
循环空气消耗量 Cycle air consumption	0.4 cm^3	1.24 cm^3	4.56 cm^3
重量 Weight	25g	65g	206g
内置磁环 Built-in magnetic ring	有 Y	有 Y	有 Y



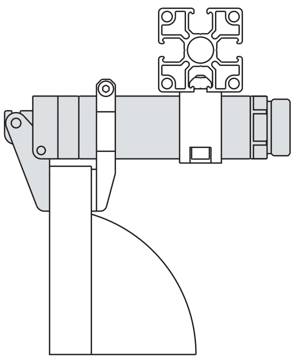
货号(PN)	8.Y00117	8.Y00118	8.Y00119
型号(Model)	GFA14-35	GFA20-35	GFA30-35
A	14	20	30
B	14	20.5	30
C	10.5	9	12
D	49.5	76.5	111
E	5.5	8	11
F	13.5	20.2	30.5
G	4.5	6	8
H	74	106	153
I	Ø14	Ø20	Ø30
J	12	17	27
K	M5	M5	G1/8
M	M12×1	M17×1	M27×1

单动拨指 (GF系列)　One Finger Angular Pneumatic Grippers (Series GF)

- 单一动作。
- 内置磁环。

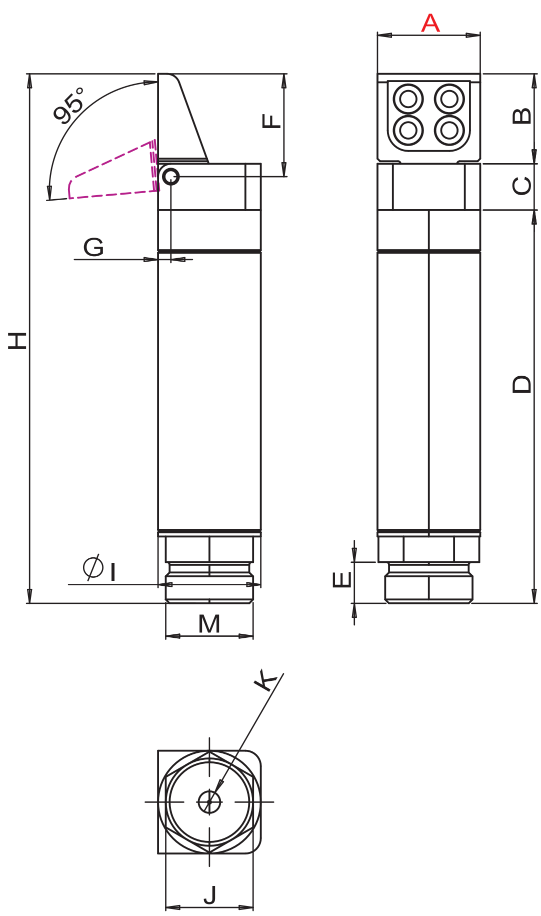
- Single acting.
- Built-in magnetic ring.

GFR...-95



货号(PN)	8.Y00042	8.Y00311	8.Y00095
型号(Model)	GFR14-95	GFR20-95E	GFR30-95
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air		
夹具体 Gripper body	铝制的 Aluminium		
压力范围 Pressure range	2.5 ~ 8 bar		
温度范围 Temperature range	-10 ~ 70 °C.		
行程 Stroke	95°		
活塞孔 Piston bore	Ø10 mm	Ø16 mm	Ø25 mm
6 bar压力下的关闭扭矩 Closing torque at 6 bar	19 Ncm	70 Ncm	300 Ncm
循环空气消耗量 Cycle air consumption	1 cm^3	3.52 cm^3	12.9 cm^3
重量 Weight	25g	60g	193g
内置磁环 Built-in magnetic ring	有 Y	有 Y	有 Y
备注 Remark		替代 Replace8.Y00041	

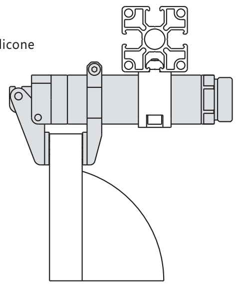
货号(PN)	8.Y00042	8.Y00311	8.Y00095
型号(Model)	GFR14-95	GFR20-95E	GFR30-95
A	14	20	30
B	12	17.5	25
C	10.5	9	12
D	49.5	76.5	111
E	5.5	8	11
F	14	20	29
G	2	2.5	4
H	72	103	148
I	Ø14	Ø20	Ø30
J	12	17	27
K	M5	M5	G1/8
M	M12×1	M17×1	M27×1



单动拨指 (GF系列) One Finger Angular Pneumatic Grippers (Series GF)

- 单一动作。
- 内置磁环。

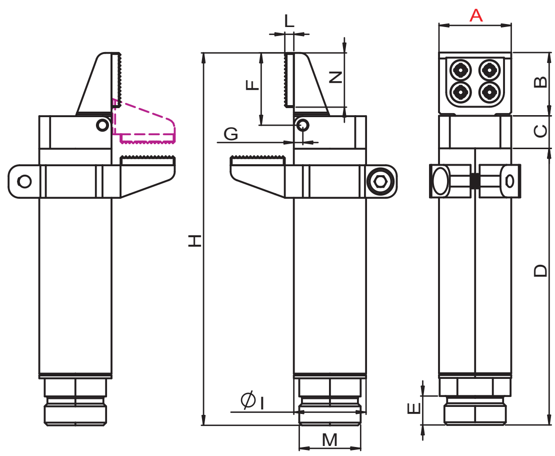
- Single acting.
- Built-in magnetic ring.

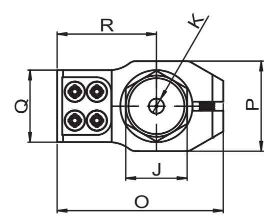


货号(PN)	8.Y00084	8.Y00312	8.Y00096
型号(Model)	GFR14-95G	GFR20-95EG	GFR30-95G
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air		
夹具体 Gripper body	铝制的 Aluminium		
压力范围 Pressure range	2.5 ~ 8 bar		
温度范围 Temperature range	-10 ~ 70 °C.		
行程 Stroke	95°		
活塞孔 Piston bore	Ø10 mm	Ø16 mm	Ø25 mm
6 bar压力下的关闭扭矩 Closing torque at 6 bar	19 Ncm	70 Ncm	300 Ncm
循环空气消耗量 Cycle air consumption	1cm³	3.52cm³	12.9 cm³
重量 Weight	36g	87g	300g
内置磁环 Built-in magnetic ring	有 Y	有 Y	有 Y
备注 Remark		替代 Replace8.Y00083	

货号(PN)	4.Y00486	4.Y00485	4.Y00514
型号(Model)	SIL-14G	SIL-20G	SIL-30G
适用产品 Applicable Products	GFR14-95G	GFR20-95EG GFR20-95LG GFR20-95SG	GFR30-95G

货号(PN)	8.Y00084	8.Y00312	8.Y00096
型号(Model)	GFR14-95G	GFR20-95EG	GFR30-95G
A	14	20	30
B	12	17.5	25
C	10.5	9	12
D	49.5	76.5	111
E	5.5	8	11
F	14	20	29
G	2	2.5	4
H	72	103	148
I	Ø14	Ø20	Ø30
J	12	17	27
K	M5	M5	G1/8
L	2.5	2.5	3
M	M12×1	M17×1	M27×1
N	11	15	20
O	32	46	63
P	19	25	37
Q	14	20	30
R	19	27.5	40

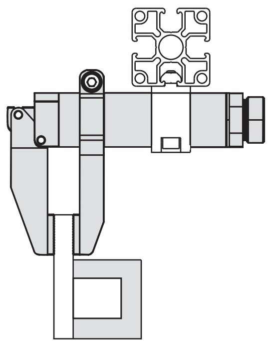




单动拨指 (GF系列)　One Finger Angular Pneumatic Grippers (Series GF)

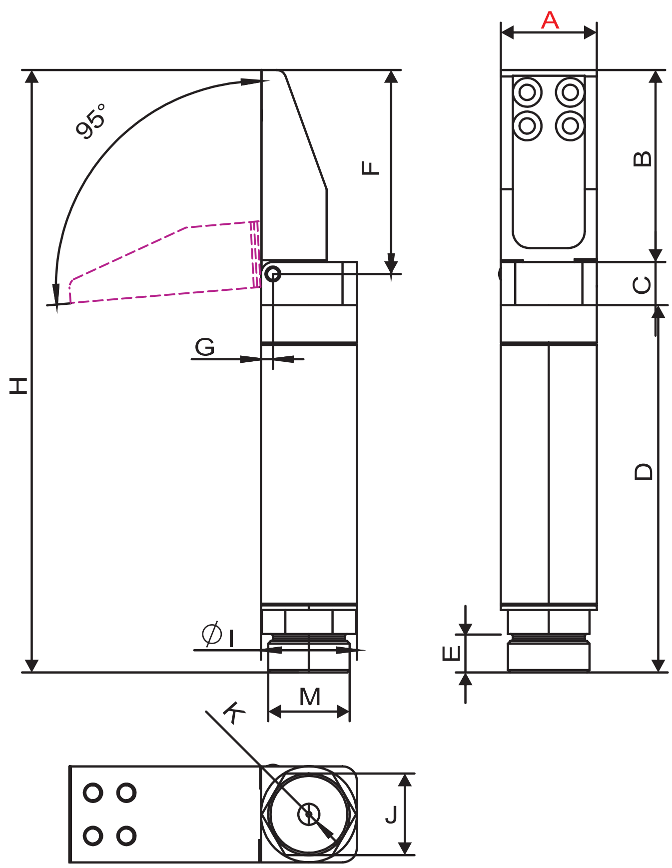
- 单一动作。 • Single acting.
- 内置磁环。 • Built-in magnetic ring.

GFR...-95L



货号(PN)	8.Y00309
型号(Model)	GFR20-95L
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air
夹具体 Gripper body	铝制的 Aluminium
压力范围 Pressure range	2.5 ~ 8 bar
温度范围 Temperature range	-10 ~ 70 °C.
行程 Stroke	95°
活塞孔 Piston bore	Ø16 mm
6 bar压力下的关闭扭矩 Closing torque at 6 bar	70 Ncm
循环空气消耗量 Cycle air consumption	3.52 cm^3
重量 Weight	81.4g
内置磁环 Built-in magnetic ring	有 Y

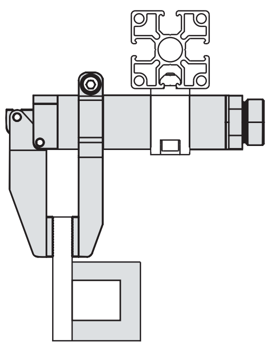
货号(PN)	8.Y00309
型号(Model)	GFR20-95L
A	20
B	40
C	9
D	76.5
E	8
F	42.5
G	2.5
H	125.5
I	Ø20
J	17
K	M5
M	M17×1



单动拨指 (GF系列) One Finger Angular Pneumatic Grippers (Series GF)

- 单一动作。
- 内置磁环。

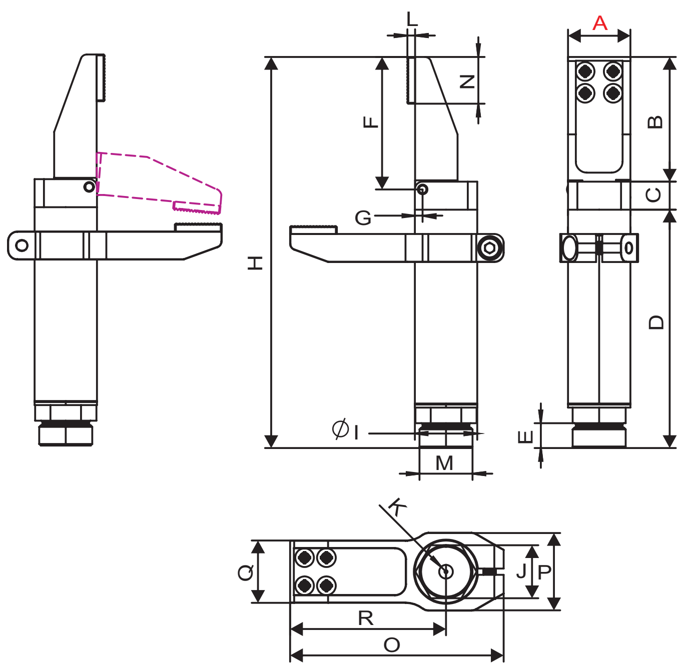
- Single acting.
- Built-in magnetic ring.



货号(PN)	8.Y00310
型号(Model)	GFR20-95LG
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air
夹具体 Gripper body	铝制的 Aluminium
压力范围 Pressure range	2.5 ~ 8 bar
温度范围 Temperature range	-10 ~ 70 °C.
行程 Stroke	95°
活塞孔 Piston bore	Ø16 mm
6 bar压力下的关闭扭矩 Closing torque at 6 bar	70 Ncm
循环空气消耗量 Cycle air consumption	3.52cm^3
重量 Weight	104.8g
内置磁环 Built-in magnetic ring	有 Y

货号(PN)	4.Y00485
型号(Model)	SIL-20G
适用产品 Applicable Products	GFR20-95EG GFR20-95LG GFR20-95SG

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

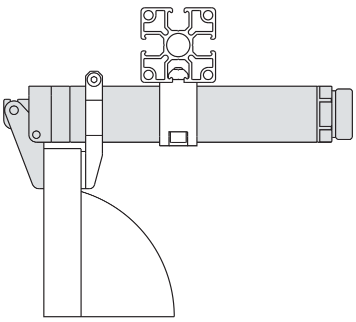


单动拨指 (GF系列)　One Finger Angular Pneumatic Grippers (Series GF)

- 单一动作。
- 内置磁环。

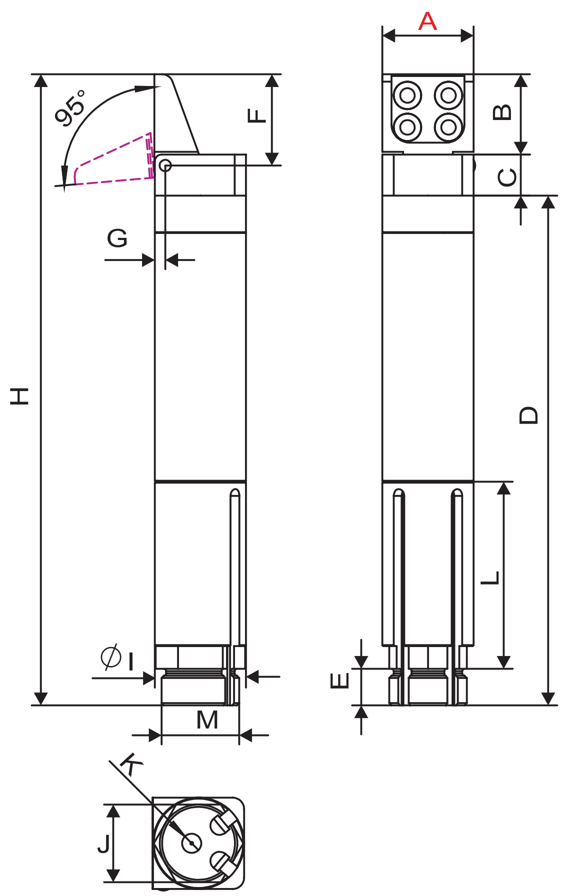
- Single acting.
- Built-in magnetic ring.

GFR...-95S



货号(PN)	8.Y00335
型号(Model)	GFR20-95S
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air
夹具体 Gripper body	铝制的 Aluminium
压力范围 Pressure range	2.5 ~ 8 bar
温度范围 Temperature range	-10 ~ 70 °C.
行程 Stroke	95°
活塞孔 Piston bore	Ø16 mm
6 bar压力下的关闭扭矩 Closing torque at 6 bar	70 Ncm
循环空气消耗量 Cycle air consumption	3.52 cm^3
重量 Weight	89g
内置磁环 Built-in magnetic ring	有 Y

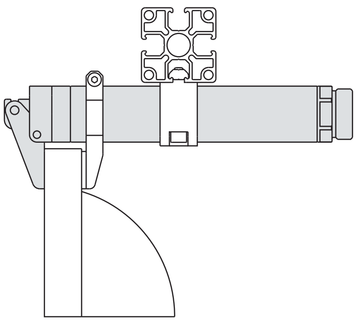
货号(PN)	8.Y00335
型号(Model)	GFR20-95S
A	20
B	17.5
C	9
D	111.5
E	8
F	20
G	2.3
H	138
I	Ø20
J	17
K	M5
L	41
M	M17×1



单动拨指 (GF系列)　One Finger Angular Pneumatic Grippers (Series GF)

• 单一动作。
• 内置磁环。

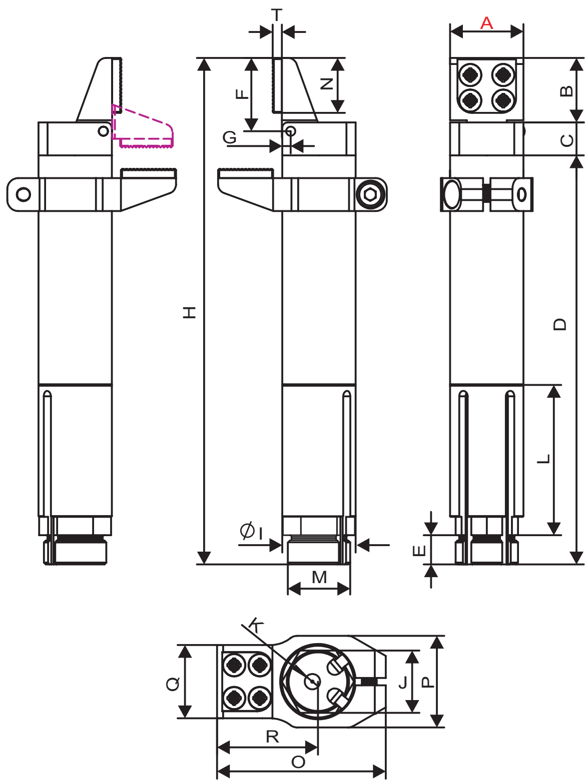
• Single acting.
• Built-in magnetic ring.



货号(PN)	8.Y00336
型号(Model)	GFR20-95SG
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air
夹具体 Gripper body	铝制的 Aluminium
压力范围 Pressure range	2.5 ~ 8 bar
温度范围 Temperature range	-10 ~ 70 °C.
行程 Stroke	95°
活塞孔 Piston bore	Ø16 mm
6 bar压力下的关闭扭矩 Closing torque at 6 bar	70 Ncm
循环空气消耗量 Cycle air consumption	3.52 cm^3
重量 Weight	103g
内置磁环 Built-in magnetic ring	有 Y

货号(PN)	4.Y00485
型号(Model)	SIL-20G
适用产品 Applicable Products	GFR20-95EG GFR20-95LG GFR20-95SG

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

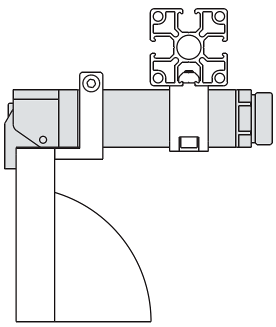


单动拨指 (GF系列)　One Finger Angular Pneumatic Grippers (Series GF)

- 单一动作。
- 内置磁环。

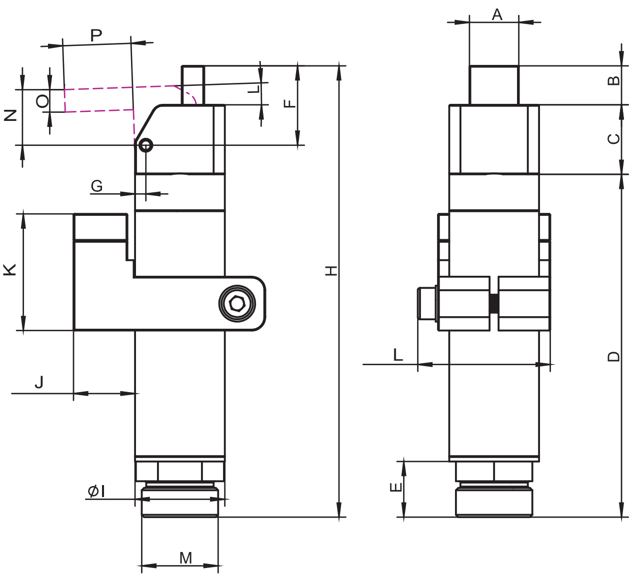
- Single acting.
- Built-in magnetic ring.

NEW



货号(PN)	8.Y01001	8.Y01002	8.Y01003
型号(Model)	GFS14-90G	GFS20-90G	GFS30-90G
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air		
夹具体 Gripper body	铝制的 Aluminium		
压力范围 Pressure range	2.5 ~ 8 bar		
温度范围 Temperature range	-10 ~ 70 °C.		
行程 Stroke	95°		
活塞孔 Piston bore	Ø10mm	Ø16 mm	Ø25mm
6 bar压力下的关闭扭矩 Closing torque at 6 bar	19 Ncm	70 Ncm	300 Ncm
循环空气消耗量 Cycle air consumption	1 cm^3	3.52 cm^3	12.9 cm^3
重量 Weight	34g	83g	296g
内置磁环 Built-in magnetic ring	有 Y	有 Y	有 Y

货号(PN)	8.Y01001	8.Y01002	8.Y01003
型号(Model)	GFS14-90G	GFS20-90G	GFS30-90G
A	8	11	14
B	6.7	8.7	13.7
C	10.5	15.5	23.5
D	49.5	76.4	111
E	5.5	8	11
F	6	17.7	29.2
G	2	2.4	4
H	66.8	100.6	139.2
I	Ø14	Ø20	Ø30
J	9	13.7	23.7
K	12	26	26
L	22.5	29.5	66
M	M12×1	M17×1	M27×1
N	8.5	12.4	20
O	4	5	6
P	10.8	15.2	25.2



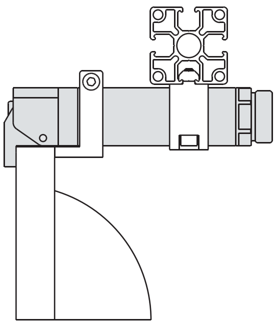
单动拨指 (GF系列) One Finger Angular Pneumatic Grippers (Series GF)

- 单一动作。
- 内置磁环。

- Single acting.
- Built-in magnetic ring.

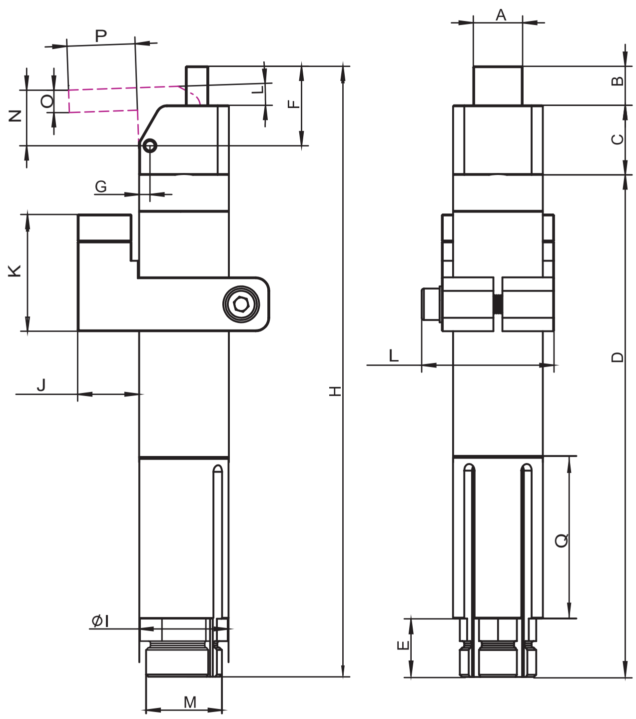
NEW

GFS...-90SG



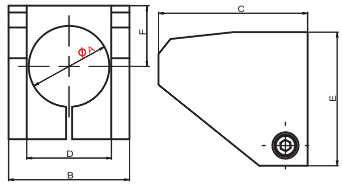
货号(PN)	8.Y01030	8.Y01031
型号(Model)	GFS20-90SG	GFS30-90SG
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air	
夹具体 Gripper body	铝制的 Aluminium	
压力范围 Pressure range	2.5 ~ 8 bar	
温度范围 Temperature range	-10 ~ 70 °C.	
行程 Stroke	95°	
活塞孔 Piston bore	Ø16 mm	Ø25 mm
6 bar压力下的关闭扭矩 Closing torque at 6 bar	70 Ncm	300 Ncm
循环空气消耗量 Cycle air consumption	3.52 cm^3	12.9 cm^3
重量 Weight	99g	312g
内置磁环 Built-in magnetic ring	有 Y	有 Y

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

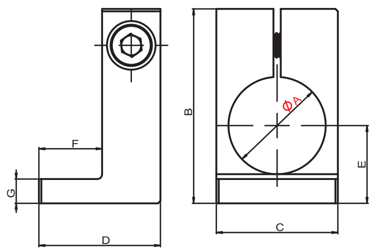


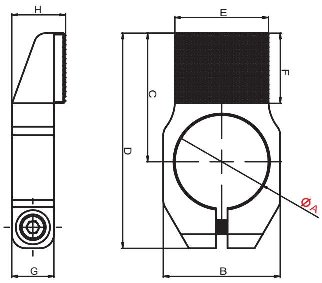
拨指选件 Finger Gripper Options

货号(PN)	7.Y00778	7.Y00779
型号(Model)	GP1-20	GP1-30
A(mm)	Ø20	Ø30
B(mm)	30	45
C(mm)	37	65
D(mm)	21	32
E(mm)	33	44
F(mm)	15	20
重量(Weight)	20g	60g



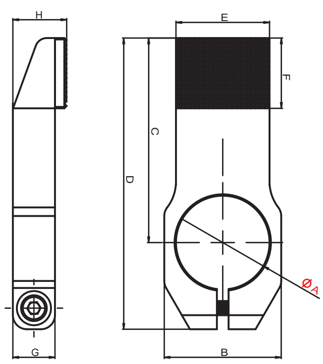
货号(PN)	7.Y00780	7.Y00781	7.Y00782
型号(Model)	GP2-14	GP2-20	GP2-30
A(mm)	Ø14	Ø20	Ø30
B(mm)	24	35	45
C(mm)	19	25	35
D(mm)	12	25	25
E(mm)	11	16	21
F(mm)	6	13	13
G(mm)	3.5	5	5.5
重量(Weight)	5g	14g	23g



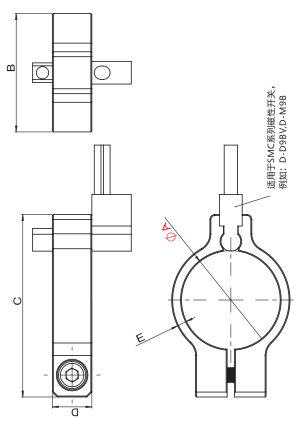


货号(PN)	7.Y00783	7.Y00700	7.Y00908	7.Y00785
型号(Model)	GP3-14	GP3-20	GP3-20L	GP3-30
A(mm)	Ø14	Ø20	Ø20	Ø30
B(mm)	19	25	25	37
C(mm)	19	27.5	50	40
D(mm)	32	46	68.5	63
E(mm)	14	20	20	30
F(mm)	11	15	15	20
H(mm)	8.5	11.5	11.5	14.1
G(mm)	6	9	9	10
重量(Weight)	6g	12g	19.8g	30g
	Silicone	Silicone	Silicone	POM

GP3-20L



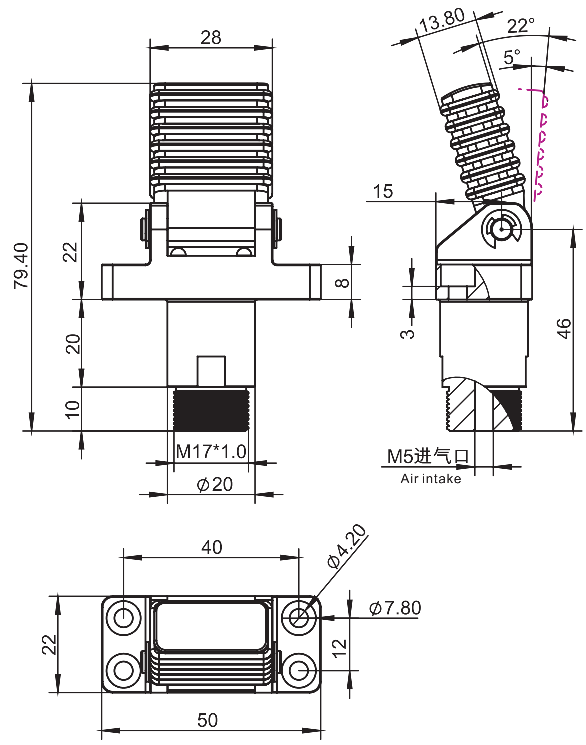
货号(PN)	7.Y00786	7.Y00787	7.Y00788
型号(Model)	GS-14	GS-20	GS-30
A(mm)	Ø14	Ø20	Ø30
B(mm)	18	24	34
C(mm)	30	37	47
D(mm)	8	8	8
E(mm)	2	2	2
重量(Weight)	14g	17g	25g



单动拨指 (GO系列) One Finger Angular Pneumatic Grippers (Series GO)

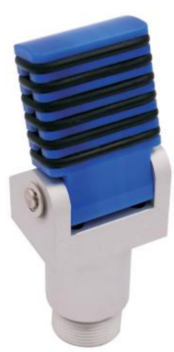
GOF20-20-VMQ

GOF20-20-NBR

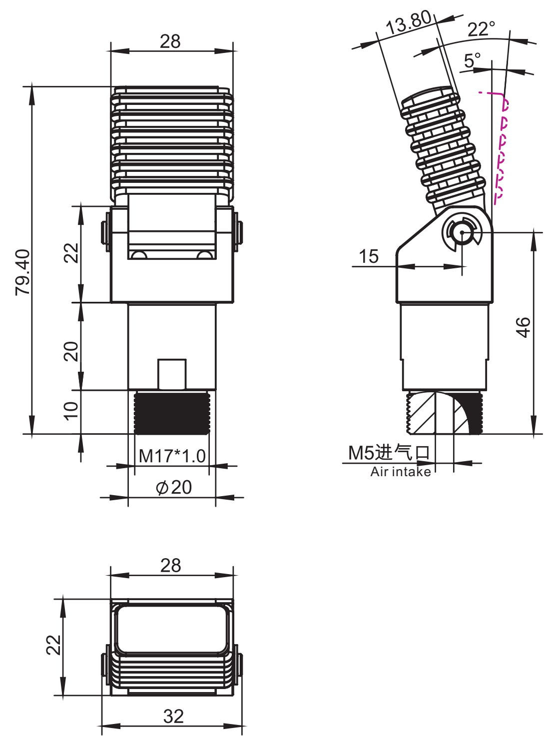


货号(PN)	型号(Model)	重量(Weight)	耐高温Heat resistance (in ℃)
8.Y00396	GOF20-20-NBR	57.4g	-20 to 80
8.Y00395	GOF20-20-VMQ	57.4g	-40 to 160

GOP20-20-VMQ



GOP20-20-NBR

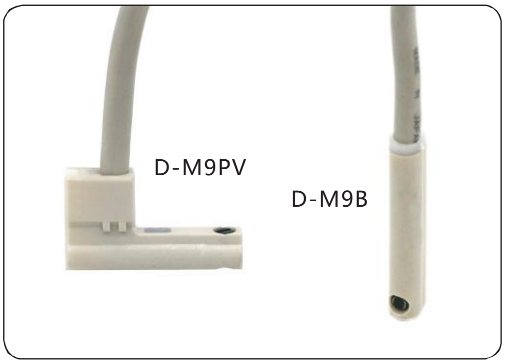


货号(PN)	型号(Model)	重量(Weight)	耐高温Heat resistance (in ℃)
8.Y00398	GOP20-20-NBR	50g	-20 to 80
8.Y00397	GOP20-20-VMQ	50g	-40 to 160

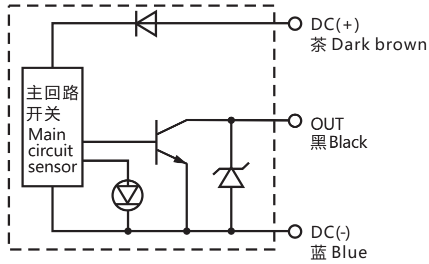
可选的磁传感器 Optional Magnetic Sensors

磁性传感器（可选）通过活塞上的一个磁铁检测出操作位置。 因此，使用磁传感器是为了避免大量的磁性材料和强烈的磁场可能会造成传感问题。
可用的传感器:

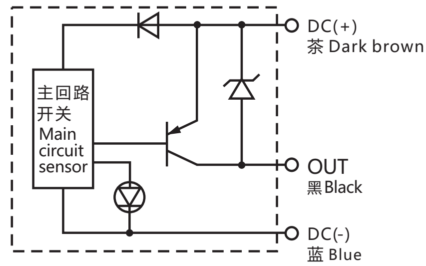
The operating position is detected by magnetic proximity sensors (optional) through a magnet placed on the piston.
The use of magnetic proximity sensors is to be avoided in the vicinity of large masses of ferromagnetic material or intense magnetic fields as this may cause detection problems.
The sensors that can be used are:

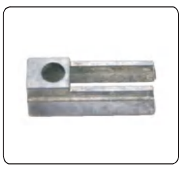


D-M9N·M9NV



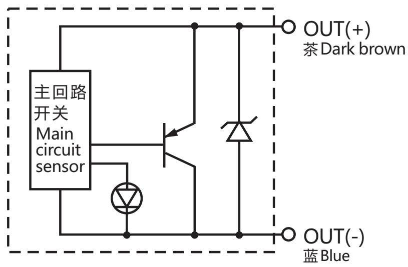
D-M9P·M9PV





货号(PN)	1.Y00293
型号(Model)	D-MQ

D-M9B·M9BV



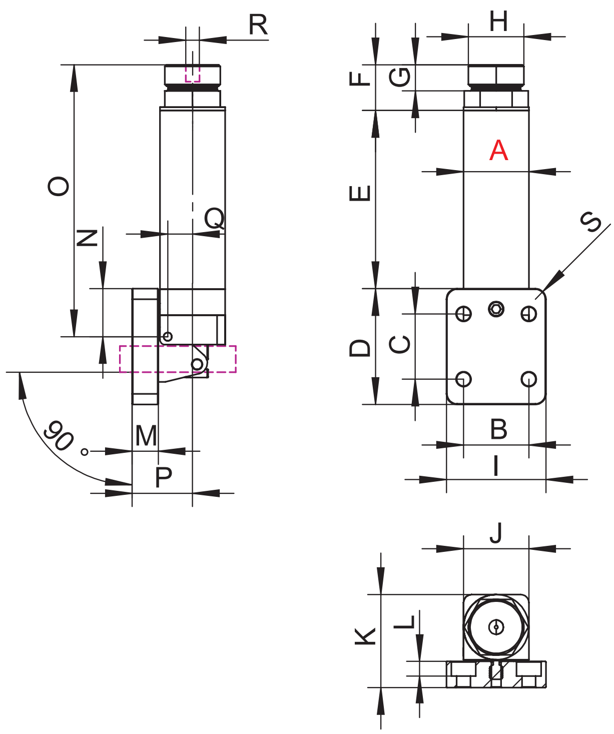
货号(PN)	型号(Model)	开关类型	L(mm)
1.Y00310	D-M9B	NPN	电缆 cable 0.5m
1.Y00307	D-M9BL		电缆 cable 3.0m
1.Y02565	D-M9BV	NPN	电缆 cable 0.5m
1.Y03843	D-M9BVL		电缆 cable 3.0m
1.Y00311	D-M9N	NPN	电缆 cable 0.5m
1.Y00295	D-M9NL		电缆 cable 3.0m
1.Y00298	D-M9NV	NPN	电缆 cable 0.5m
1.Y03598	D-M9NVL		电缆 cable 3.0m
1.Y00309	D-M9P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

Min 姿势夹具　Min Posture Gripper

- 90° 旋转。
- 单一动作。
- 通过压缩空气和弹簧复位起重。
- 多个安装附件。
- 可选的磁传感器。

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

货号(PN)	8.Y00094	8.Y00116
型号(Model)	GFN20-90	GFN30-90
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air	
压力范围 Pressure range	2 ~ 8 bar	2 ~8 bar
温度范围 Temperature range	-10 ~ 70 °C.	-10 ~ 70 °C.
倾斜角度 Tilt angle	90°	90°
6 bar压力下的起重扭矩 Lift torque at 6 bar	120 Ncm	300 Ncm
重量 Weight	65g	210g

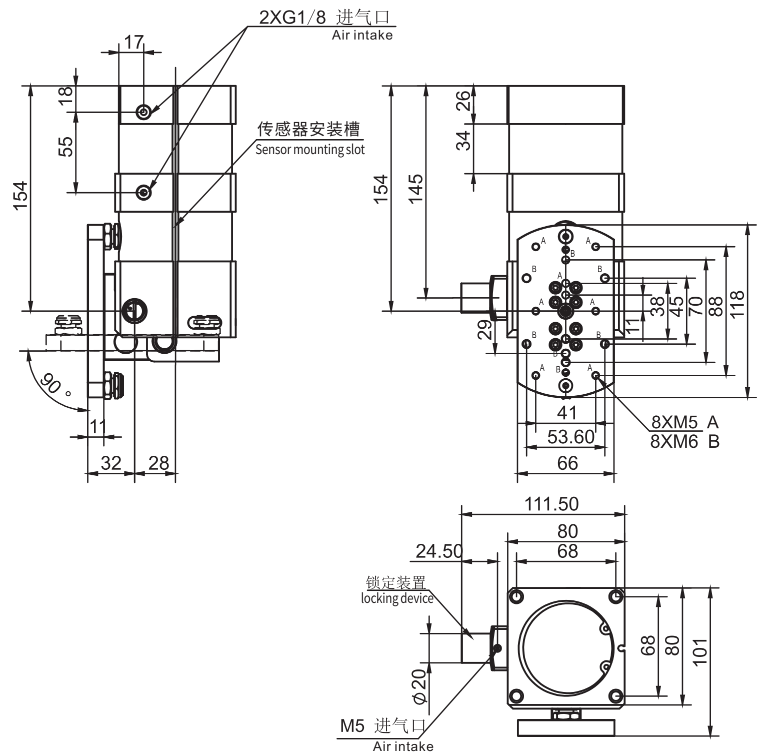


货号(PN)	8.Y00094	8.Y00116
型号(Model)	GFN20-90	GNF30-90
A	Ø20	Ø30
B	20	25
C	20	25
D	35.5	46
E	54.6	81.5
F	14	19
G	8	11
H	17	M27*1
I	30.5	37
J	20	30
K	28.5	40
L	4.5	5.5
M	8	10
N	14.74	18.5
O	83.34	119
P	18.5	25
Q	7.6	11
R	M5	M5
S	3.25	3

姿势组配件 Posture Set Accessories

- 90° 旋转。
- 单一动作。
- 通过压缩空气和弹簧复位起重。
- 多个安装附件。
- 可选的磁传感器。

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



货号(PN)	8.Y01007
型号(Model)	GFT60-90
介质 Medium	已过滤，润滑型 / 未润滑型压缩空气 Filtered,lubricated / non lubricated compressed air
压力范围 Pressure range	2 ~ 8 bar
解锁范围 Unlock pressure	> 3.5 bar
温度范围 Temperature range	5 ~ 60 °C.
倾斜角度 Tilt angle	90°
末端行程调节 End stroke adjustment	± 2°
循环空气消耗量 Cycle air consumption	462 cm^3
6 bar 压力下的起重扭矩(90° → 0°) Lift torque at 6 bar (90° → 0°) (Mu)	> 78 Nm
6 bar 压力下的降落扭矩(0° → 90°) Drop torque at 6 bar (0° → 90°) (Md)	> 42 Nm
允许的负载 Allowed load (F)	300 N
允许的力矩 Allowed moment (Mf)	30 Nm
重量 Weight	2520g