

■ Features

1. Compact design to ensure minimum interference while operating; robust T rail design, ensure accurate gripping.
2. Can reach maximum torque suitable for long jaws design.
3. Oval piston-driven design ensure maximum gripping force.
4. Hose-free direct connection: Air supply channel can connect directly without piping or through tread to assure the flexibility of supplying compressed air on any kind of automation system.



■ How to order

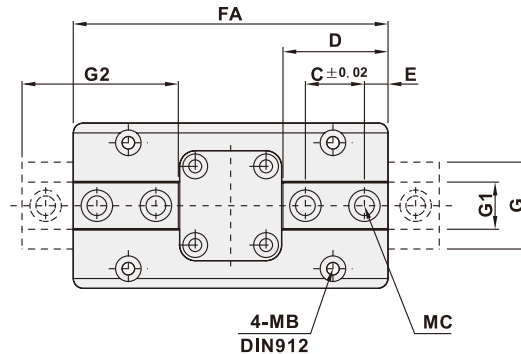
SRGN	50
Parallel Gripper (2-Finger)	Body Specification
50	125
66	160
80	
100	

■ Specifications

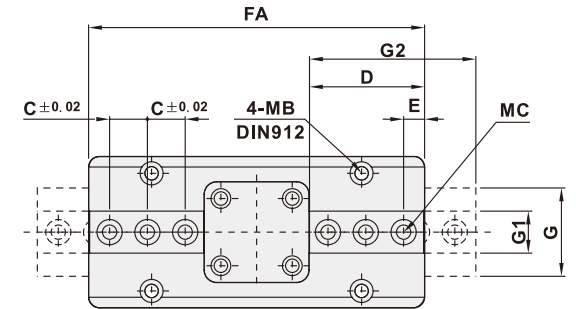
Model	SRGN					
Acting type	Double acting					
Body specification (mm)	50	66	80	100	125	160
Stroke per-jaw (mm)	4	6	8	10	12	16
Closing force (N)	170	300	550	740	1290	1860
Opening force (N)	185	325	590	795	1370	1960
Close/Open time (1/s)	0.02	0.03	0.04	0.07	0.1	0.1
Fluid	Air					
Operating pressure range	3 ~ 8 kgf/cm ²					
Compressed air consumption (cm ³)	4.1	10.1	23.6	39.3	85	85
Ambient temperature	+5° ~ +80°					
Lubrication	Not required					
Accessories	Mounting block, Centering sleeve					
Weight (kg)	0.14	0.27	0.495	0.85	1.6	3.0
Recom. workpiece weight (kg)	0.85	1.4	2.6	3.6	6.3	9.2

■ Dimensions

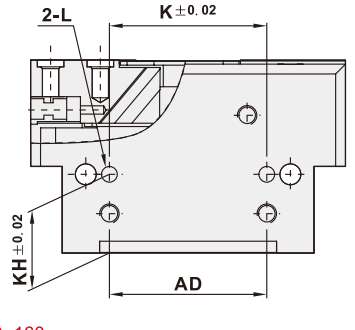
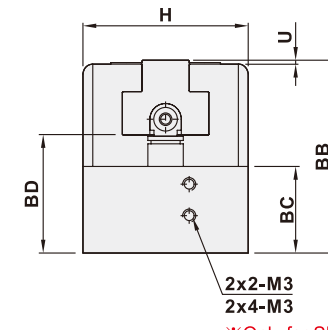
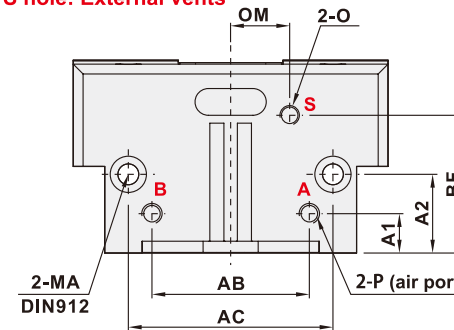
SRGN-50~100



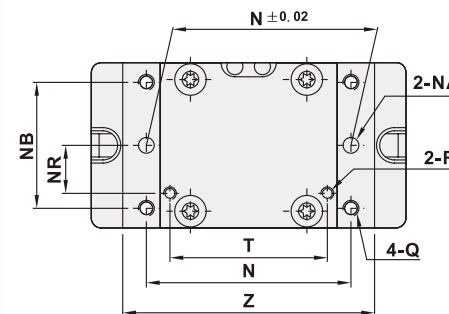
SRGN-125~160



A hole: Gripper open
B hole: Gripper close
S hole: External vents



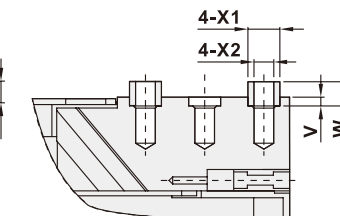
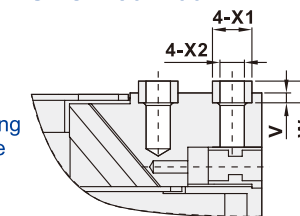
※Only for SRGN 100~160



Centering sleeve

SRGN-50~100

SRGN-125~160



Model	A1	A2	AB	AC	AD	BB	BC	BD	BF	C	D	E	FA	G	G1	G2	H	K	KH	L
SRGN-50	5	15	25	35	25	31	15	19	22	8	16	4	50	12	6.5	20	27.8	25	15	φ 3H7x4.5dp
SRGN-66	5	18	28	42	28	39	18.5	23	27.5	12	22	5	64	17	10	28	36	20	18	φ 4H7x4dp
SRGN-80	10	20	40	52	40	49	22	30	35	15	26.7	6	80	22	12	34.7	42	40	20	φ 4H7x6dp
SRGN-100	12	25	48	66	54	55	28	33	38	18	34.3	10	100	26	14	44.3	50	50	25	φ 5H7x7dp
SRGN-125	13	30	62	82	65	64	32	38.5	45	12.5	42.3	12	125	31	15.5	54.3	60	60	30	φ 6H7x8dp
SRGN-160	15.5	28	78	100	82	78	39	46	53	18	54.8	16	160	39	20	70.8	72	76	28	φ 6H7x10dp

Model	MA	MB	MC	N	NA	NB	NR	O	OM	P	Q	R	T	U	V	W	X1	X2	Z
SRGN-50	M3	M3	4-M3	35	φ 3H7	20	8	M3	10	M5	M4	M2	25	1	2	3.9	φ 5	φ 3.5	42
SRGN-66	M4	M4	4-M4	42	φ 4H7	27	11	M5	12	M5	M5	M3	28	1	2	3.9	φ 6	φ 4.5	52
SRGN-80	M4	M4	4-M6	52	φ 4H7	32	12.2	M5	15	M5	M5	M3	40	1	2	3.9	φ 8	φ 6.5	64
SRGN-100	M5	M5	4-M6	66	φ 5H7	38	16	M5	16	G1/8	M6	M5	48	1	2	3.9	φ 10	φ 6.5	80
SRGN-125	M6	M6	6-M6	82	φ 6H7	45	18	M5	20	G1/8	M8	M5	60	1	2	3.9	φ 10	φ 6.5	100
SRGN-160	M6	M6	6-M8	100	φ 6H7	56	22	M5	27	G1/8	M8	M5	76	1	2	3.9	φ 12	φ 8.5	125

Internal structure & Movement description

Compressed air will push or press the oval piston.

Rail

Bearing rails load the base jaw, which ensure the minimal vibration of long jaw.

Material

Anodized high rigid aluminum alloy to reduce weight.

Base jaw

Jaws connected to work piece.

Large oval piston

Generate larger structural strength.

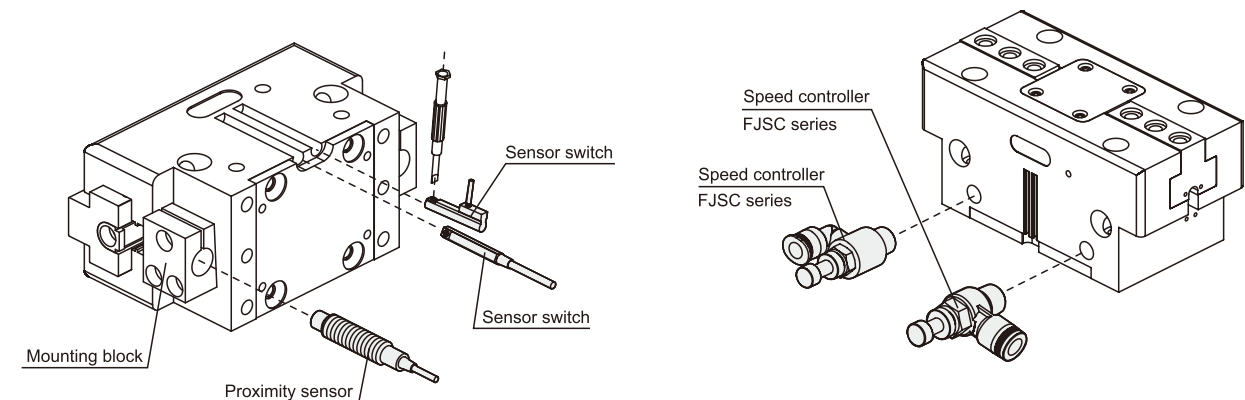
Wedge hook

High power transmission center jaws.

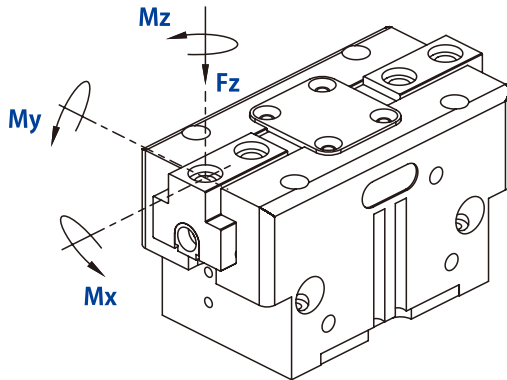
Sensor system

Sensor switch or proximity sensor are available.

Installation of sensor switch & speed controller



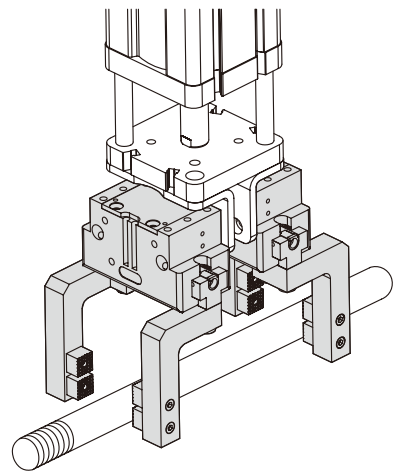
Holding force



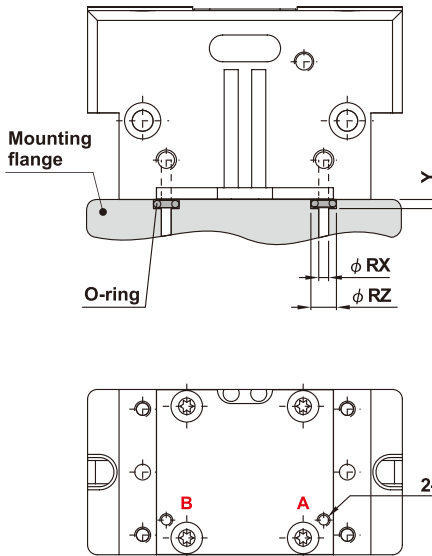
Model	Mx max. (Nm)	My max. (Nm)	Mz max. (Nm)	Fz max. (Nm)
SRGN-50	15	15	8	700
SRGN-66	50	45	35	1200
SRGN-80	80	60	50	1800
SRGN-100	100	90	75	2500
SRGN-125	120	120	100	3200
SRGN-160	160	180	140	5000

Application examples

By tilting the working surface, the wedge hook will transfer movement to side movement, and initiate the action of the two base jaws simultaneously.



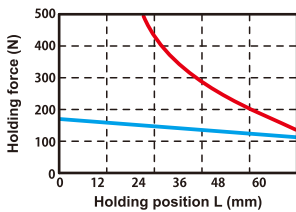
Hose-free direct connection



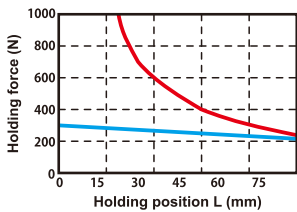
Model	R	RX	RZ	Y
50	M2	2	4	0.7
66	M3	3	5	0.7
80	M3	3	5	1.1
100	M5	5	8	1.1
125	M5	5	8	1.1
160	M5	5	8	1.1

A hole: Gripper open
B hole: Gripper close

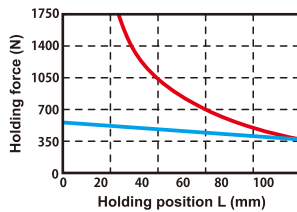
SRGN-50



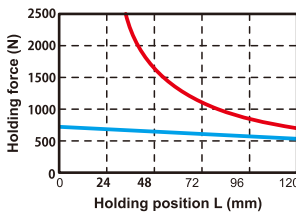
SRGN-66



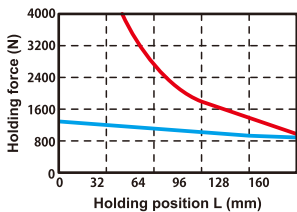
SRGN-80



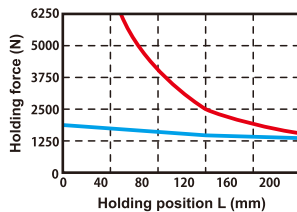
SRGN-100



SRGN-125

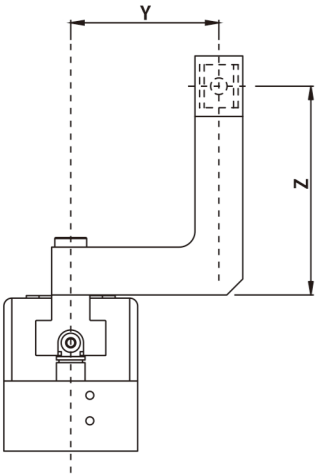


SRGN-160



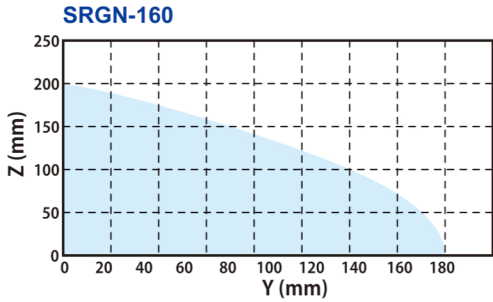
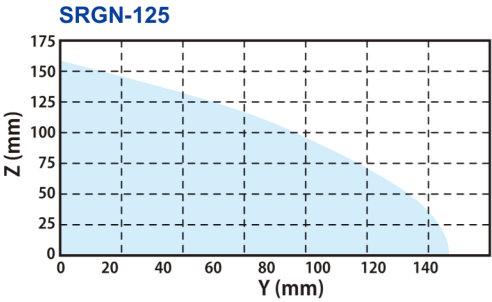
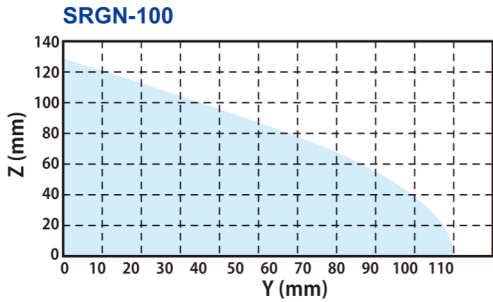
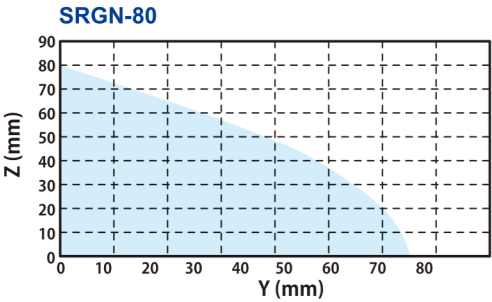
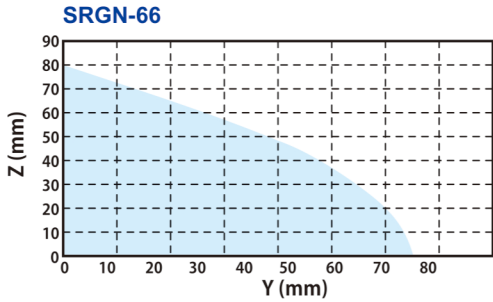
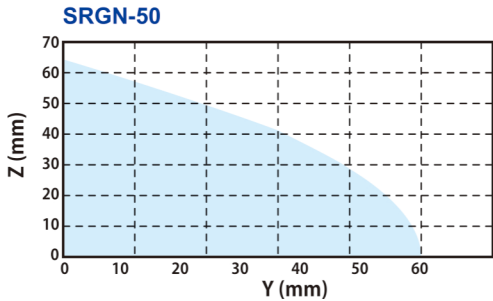
* Blue area: Less durable performance can be expected.

■ Max. feasible centrifugal degree



■ Feasible

□ Infeasible



Memo...

