

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.



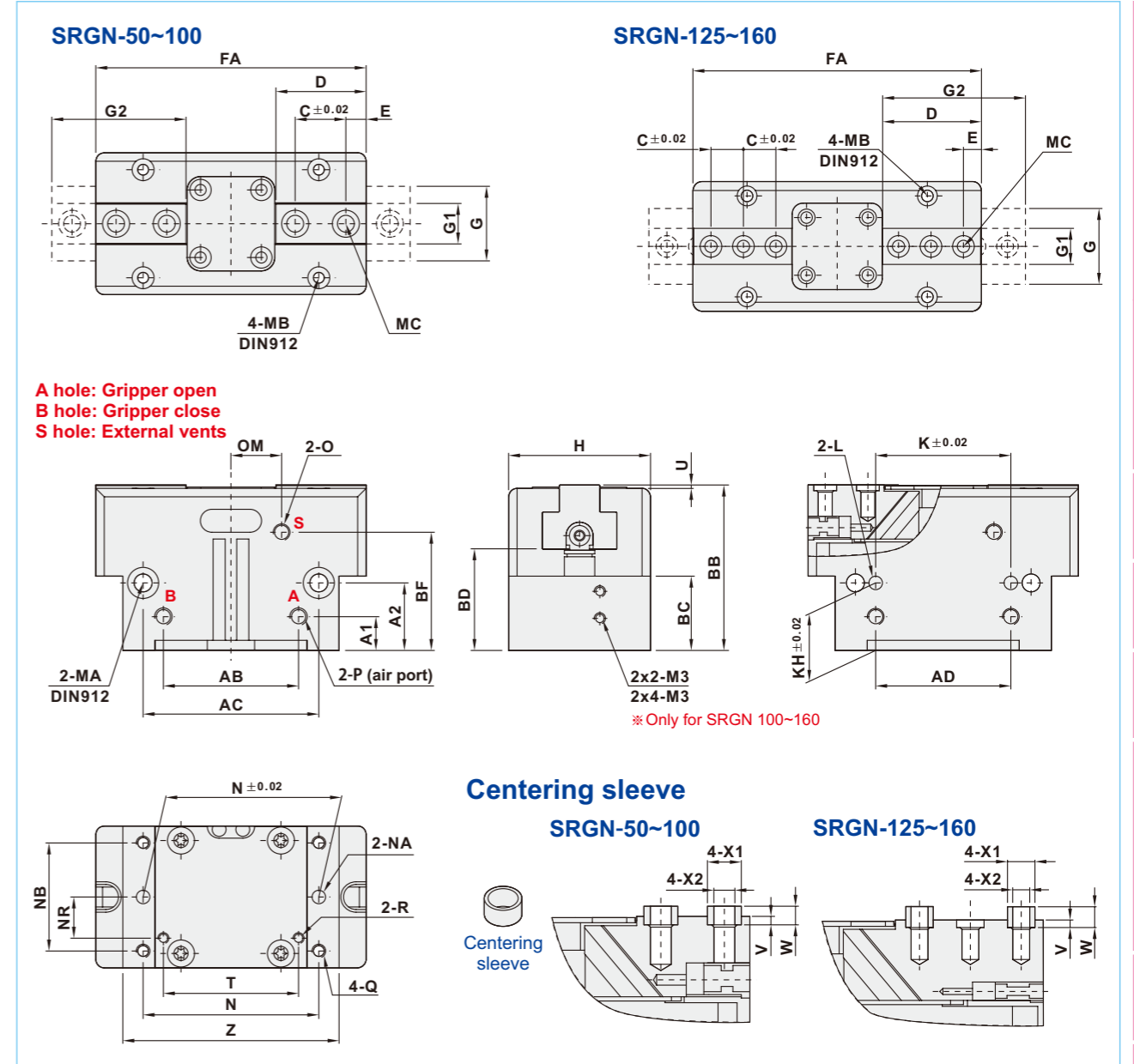
How to order

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



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	φ3H7x4.5dp
SRGN-66	5	18	28	42	28	39	18.5	23	27.5	12	22	5	64	17	10	28	36	20	18	φ4H7x4dp
SRGN-80	10	20	40	52	40	49	22	30	35	15	26.7	6	80	22	12	34.7	42	40	20	φ4H7x6dp
SRGN-100	12	25	48	66	54	55	28	33	38	18	34.3	10	100	26	14	44.3	50	50	25	φ5H7x7dp
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	φ6H7x8dp
SRGN-160	15.5	28	78	100	82	78	39	46	53	18	54.8	16	160	39	20	70.8	72	76	28	φ6H7x10dp

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	φ3H7	20	8	M3	10	M5	M4	M2	25	1	2	3.9	φ5	φ3.5	42
SRGN-66	M4	M4	4-M4	42	φ4H7	27	11	M5	12	M5	M5	M3	28	1	2	3.9	φ6	φ4.5	52
SRGN-80	M4	M4	4-M6	52	φ4H7	32	12.2	M5	15	M5	M5	M3	40	1	2	3.9	φ8	φ6.5	64
SRGN-100	M5	M5	4-M6	66	φ5H7	38	16	M5	16	G1/8	M6	M5	48	1	2	3.9	φ10	φ6.5	80
SRGN-125	M6	M6	6-M6	82	φ6H7	45	18	M5	20	G1/8	M8	M5	60	1	2	3.9	φ10	φ6.5	100
SRGN-160	M6	M6	6-M8	100	φ6H7	56	22	M5	27	G1/8	M8	M5	76	1	2	3.9	φ12	φ8.5	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

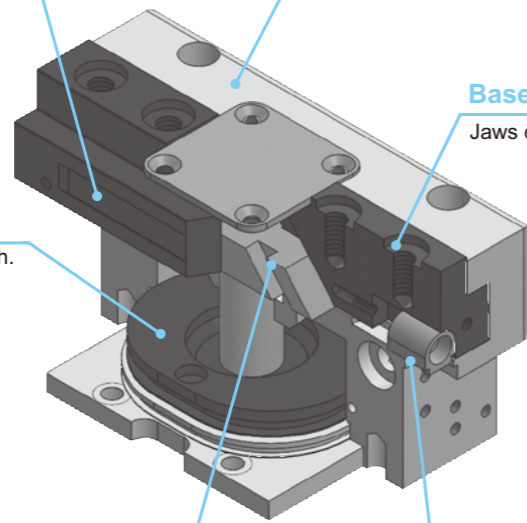
Generate larger structural strength.

Wedge hook

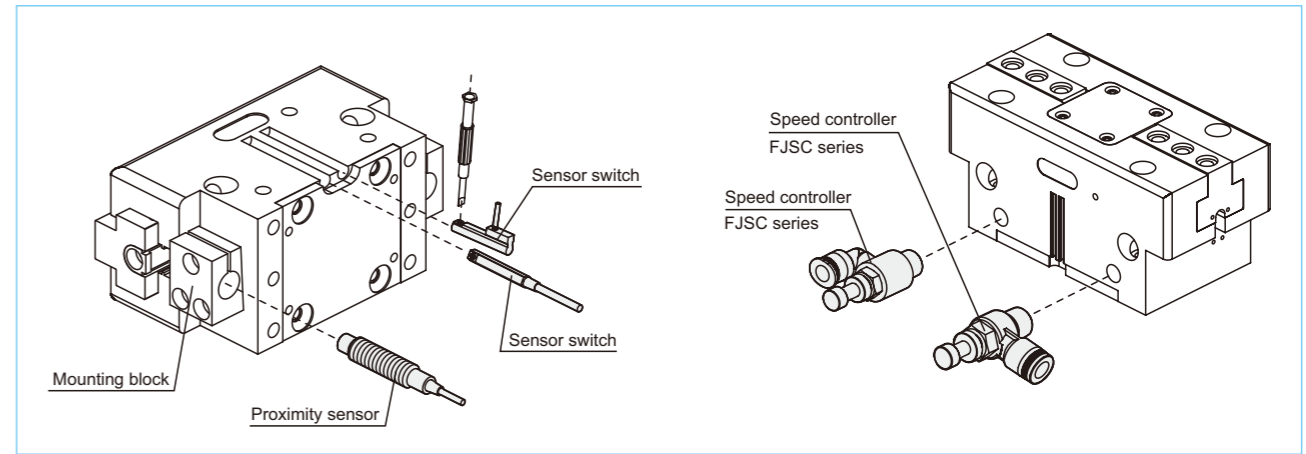
High power transmission center jaws.

Sensor system

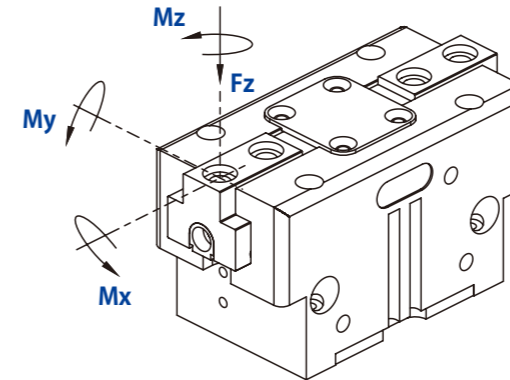
Sensor switch or proximity sensor are available.



Installation of sensor switch & speed controller



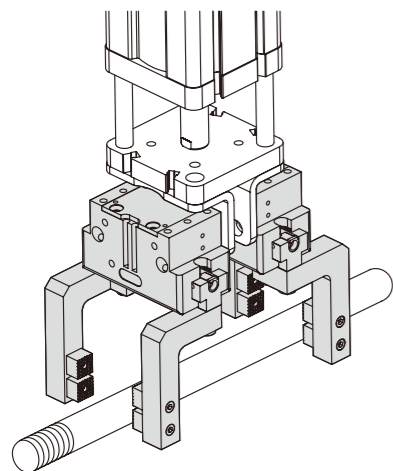
Holding force



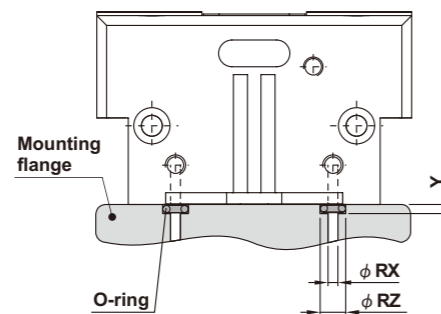
Model	Mx max. (Nm)	My max. (Nm)	Mz max. (Nm)	Fz max. (Nm)
SRGN-50	15	15	8	700
SRGN-66	50	45	35	1200
SRGN-80	80	60	50	1800
SRGN-100	100	90	75	2500
SRGN-125	120	120	100	3200
SRGN-160	160	180	140	5000

Application examples

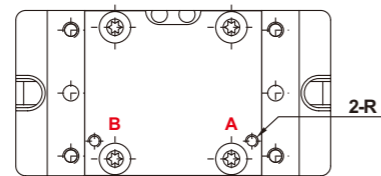
By tilting the working surface, the wedge hook will transfer movement to side movement, and initiate the action of the two base jaws simultaneously.



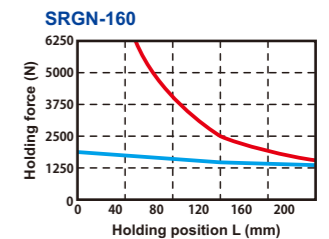
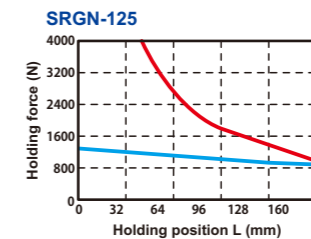
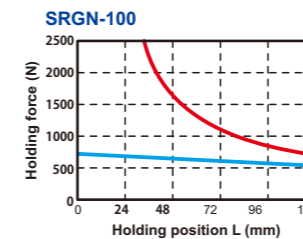
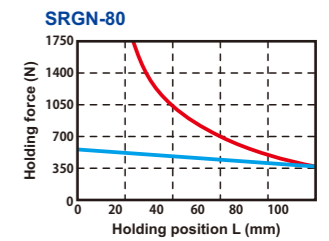
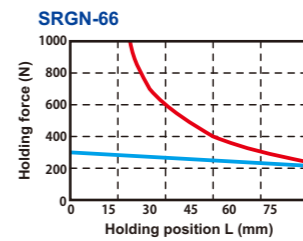
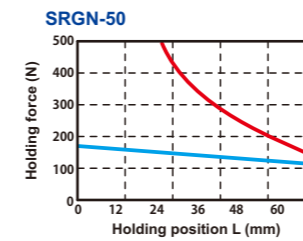
Hose-free direct connection



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

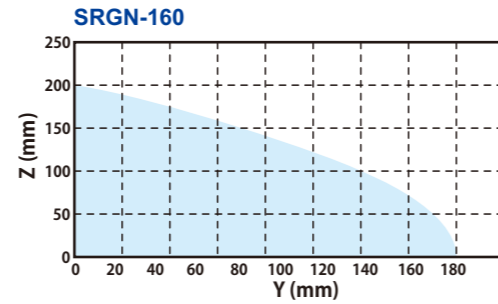
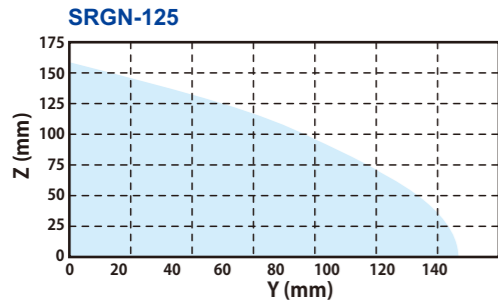
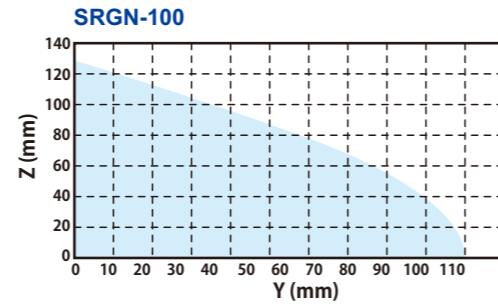
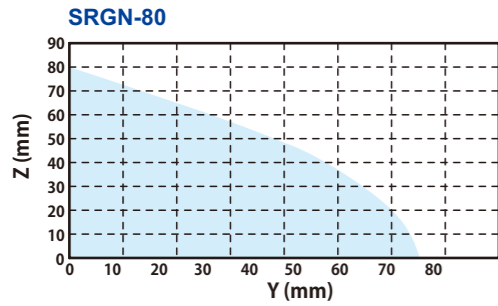
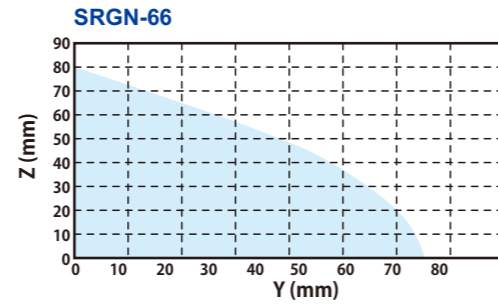
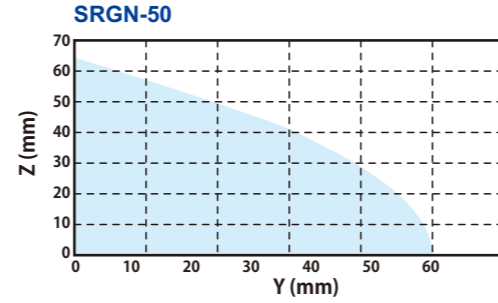
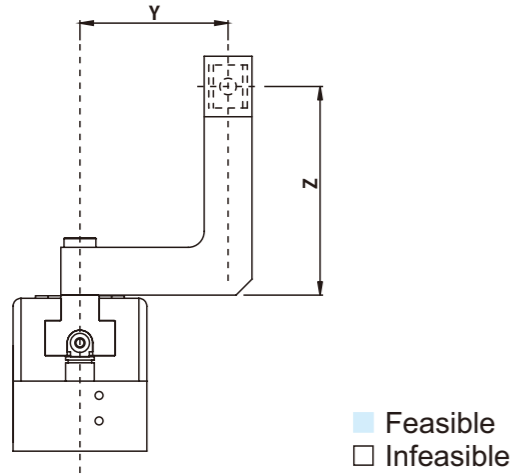


A hole: Gripper open
B hole: Gripper close



* Blue area: Less durable performance can be expected.

Max. feasible centrifugal degree



Memo...

Handwriting practice area with horizontal dashed lines.

