

SC/SU Series Standard Cylinder



SC 50 × 100



SU 50 × 100



SCJ 50 × 100-25

Ordering Code

SC

Series Code

SC: Standard double Action (Tie-rod Type)
 SCD: Double-shaft Double Action (Tie-rod Type)
 SCJ: Double Axis Double Acting Adjustable Type (Tie-rod Type)
 SU: Standard Double Acting (Micky Mouse Type)

50

Cylinder Bore
 32mm-200mm

50

Stroke

25

Adjust Stroke
 25: 25mm
 50: 50mm
 75: 75mm

S

Magnet Code

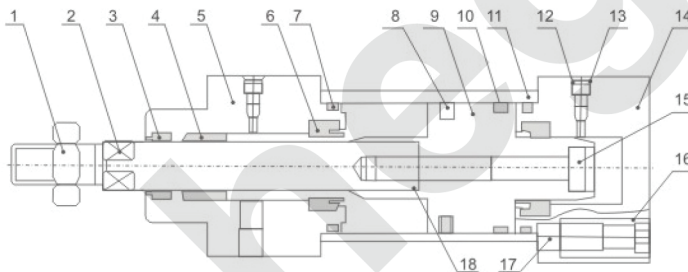
Blank: Without Magnet
 S: With Magnet

□

Fixed Type

Blank: Normal type
 LB: Front and back fixed type
 FA: Front cover Fixed type (Front flange type)
 FB: Back cover Fixed type (Back flange type)
 CA: Back cover Fixed type (Single earring)
 CB: Back cover Fixed type (Double earring)
 TC: Central trunnion Type
 TC-M: Central trunnion type attaching foot seat

Internal structure



NO	Designation	NO	Designation
1	Piston Rod Nut	10	Wear Ring
2	Piston rod	11	Barrel
3	Front cover seal ring	12	Buffering Barrel o-ring
4	Bearing	13	Damping adjustable screw
5	Front cover	14	Back cover
6	Buffering o-ring	15	Hex socket screw
7	Pipe wall o-ring	16	Tie Rod Nut
8	Piston o-ring	17	Tie rod
9	Piston	18	Piston rod o-ring

Specification

Bore (mm)	32	40	50	63	80	100	125	160	200
Motion Pattern	Double Action								
Working Medium	Air								
Fixed Type	Basic type FA type FB type CA type CB type LB type TC type TC-M type								
Operating Pressure Range	0.1~0.9kgf/cm ²								
Ensured Pressure Resistance	1.35Mpa								
Operating Temperature Range	-5~70°C								
Operating Speed Range	300~800mm/s								
Buffer Type	Adjustable Buffer								
Buffer Stroke	24				32				
Port Size	G1/8"	G1/4"	G3/8"		G1/2"		G3/4"		

■ SCD, SCJ Fixed Type: FA, FB, LB, TC & TC-M Type.

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Cylinder theory output 

Cylinder inside Diameter	External Diameter of Piston Rod	Motion Pattern	Compression Area(cm ²)	Air Pressure(kgf/cm ²)									
				1	2	3	4	5	6	7	8	9	
32	12	Double Action	Press Side	8.04	8.04	16.08	24.12	32.16	40.20	48.24	56.28	64.32	72.36
			Pull Side	6.90	6.90	13.80	20.07	27.60	34.50	41.40	48.30	55.20	62.10
40	16	Double Action	Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24	113.04
			Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40	94.95
50	20	Double Action	Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04	176.67
			Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	139.92	148.41
63	20	Double Action	Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36	280.53
			Pull Side	28.03	28.03	56.06	84.09	112.12	140.15	168.18	196.21	224.24	252.27
80	25	Double Action	Press Side	50.26	50.26	100.52	150.78	201.04	251.30	301.56	351.82	402.08	452.34
			Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	326.88	408.24
100	25	Double Action	Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	428.82	628.24	706.77
			Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	517.76	643.23
125	32	Double Action	Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76	1104.48
			Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44	1032.12
160	40	Double Action	Press Side	201.06	201.06	402.12	603.18	804.24	1005.30	1206.36	1407.42	1608.48	1809.54
			Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92	1696.41
200	40	Double Action	Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28	2827.44
			Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2100.99	2412.56	2714.13

Stroke 

Bore(mm)	Standard Stroke	Max.Stroke	Permissible Stroke
32	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500	1000	2000
40	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800	1200	2000
50	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
63	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
80	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
100	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
125	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
160	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000


SCT Series Multi-Position/Booster Cylinder



SCT 100 x 60 x 100

Specification 

Working Medium	Air
Operating Temperature Range	0.1~0.9kgf/cm ²
Ensured Pressure Resistance	1.35Mpa
Operating Temperature Range	-5~70℃

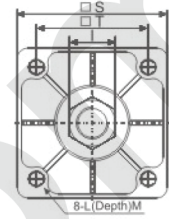
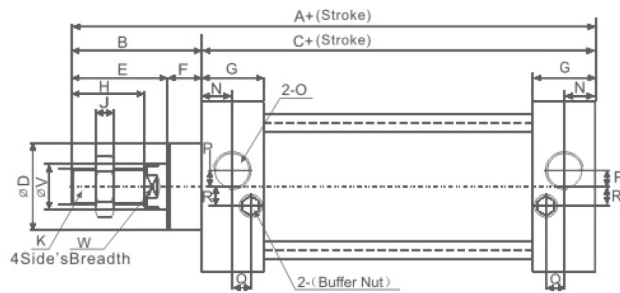
Product instruction 

Booster cylinder combine 2 or more standard cylinder with the same bore and stroke, Create twice or multiple force as standard cylinder. The connection of 2 or more cylinders are linked with the same material Compact structure and easy for installation.

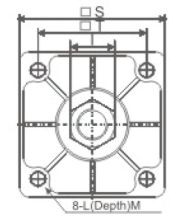
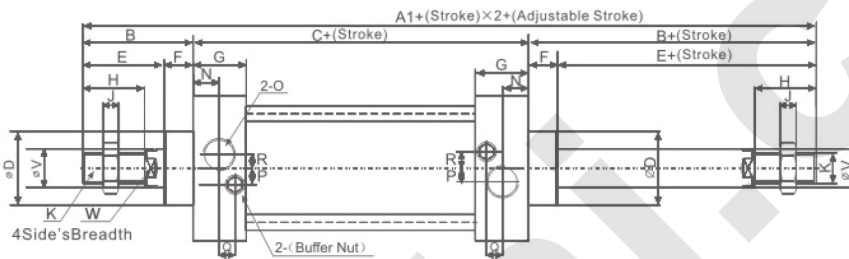
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Overall Dimensions

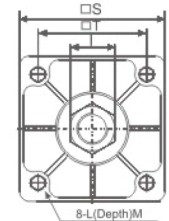
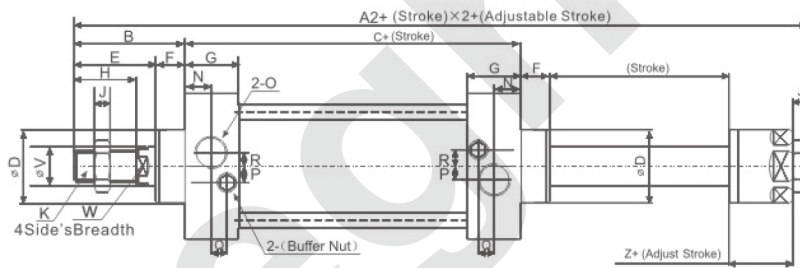
SC



SCD



SCJ



Dimension Sheet

Bore/Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	28	32	15	27.5	22	17	6	M10×1.25
40	142	191	185	49	93	32	34	15	27.5	24	17	7	M12×1.25
50	150	207	196	57	93	36	42	15	27.5	32	23	8	M16×1.5
63	153	210	199	57	96	36	42	15	27.5	32	23	8	M16×1.5
80	182	257	242	75	107	47	54	21	33	40	26	10	M20×1.5
100	188	263	248	75	108	47	54	21	33	40	26	10	M20×1.5
125	203	291	265.5	88	115	52	68	20	38	54	41	9	M27×2
160	239	352	332	113	126	62	88	25	38	72	55	16	M36×2
200	244	362	342	118	126	62	88	30	38	72	55	16	M36×2

Bore/Symbol	L	M	N	O	P	Q	R	S	T	V	W	Z
32	M6×1	9.5	13.7	G1/8"	3.5	7.5	7	45	33	12	10	21
40	M6×1	9.5	13.5	G1/4"	6	8.2	9	50	37	16	14	21
50	M6×1	9.5	13.5	G1/4"	8.5	8.2	9	62	47	20	17	23
63	M8×1.25	9.5	13.5	G3/8"	7	8.2	8.5	75	56	20	17	23
80	M10×1.5	11.5	16.5	G3/8"	10	9.5	14	94	70	25	22	29
100	M10×1.5	11.5	16.5	G1/2"	11	9.5	14	112	84	25	22	29
125	M12×1.75	16	20	G1/2"	14	6.5	14	139	110	32	27	42.5
160	M16×2	15	20	G3/4"	15	5	15	174	134	40	36	68
200	M16×2	15	20	G3/4"	15	3	15	214	163	40	36	68

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