

Official Product Identity Mapping

CXSM10-30

Official SMC web catalog identity: CXSM10-30

CXS Series dual rod cylinder, basic type, slide bearing

10 mm bore and 30 mm standard stroke

Without auto switch; built-in magnet; standard configuration

Selected official catalog pages provide weight, operating data and dimensions.

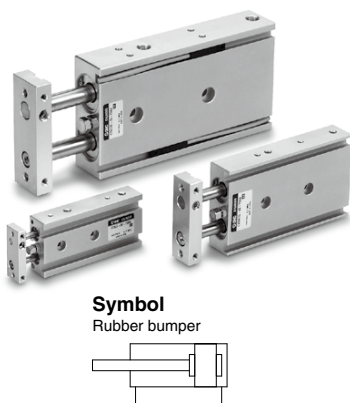
Official model page:

<https://www.smcworld.com/webcatalog/s3s/en-jp/detail/?partNumber=cxsm10-30>

Dual Rod Cylinder Basic Type **CXS Series**

Specifications

Bore size (mm)	6	10	15	20	25	32
Fluid	Air (Non-lube)					
Proof pressure	1.05 MPa					
Maximum operating pressure	0.7 MPa					
Minimum operating pressure	0.15 MPa	0.1 MPa		0.05 MPa		
Ambient and fluid temperature	-10 to 60°C (No freezing)					
Piston speed	30 to 300 mm/s	30 to 800 mm/s		30 to 700 mm/s		30 to 600 mm/s
Cushion	Rubber bumper					
Stroke adjustable range	0 to -5 mm compared to the standard stroke					
Port size	M5 x 0.8				Rc 1/8	
Bearing type	Slide bearing, Ball bushing bearing (Same dimensions for both)					
Allowable kinetic energy	0.0023 J	0.064 J	0.095 J	0.17 J	0.27 J	0.32 J



Made to Order: Individual Specifications
(For details, refer to page 844.)

Symbol	Specifications
-X593	Without plate

Made to Order Specifications
[Click here for details](#)

Symbol	Specifications
-XB6	Heat resistant cylinder (-10 to 150°C)
-XB9	Low speed cylinder (10 to 50 mm/s)
-XB11	Long stroke type
-XB13	Low speed cylinder (5 to 50 mm/s)
-XB19	High speed specification
-XC22	Fluororubber seals
-XC85	Grease for food processing equipment

Moisture Control Tube IDK Series

When operating an actuator with a small diameter and a short stroke at a high frequency, the dew condensation (water droplet) may occur inside the piping depending on the conditions. Simply connecting the moisture control tube to the actuator will prevent dew condensation from occurring. For details, refer to the [Web Catalog](#).



Standard Stroke

Model	Standard stroke (mm)	Long stroke (mm)
CXS□6	10, 20, 30, 40, 50	60, 70, 75, 80, 90, 100
CXS□10	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75	80, 90, 100, 110, 120, 125, 150
CXS□15	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100	110, 120, 125, 150
CXS□20		110, 120, 125, 150, 175, 200
CXS□25		
CXS□32		

* Refer to "Made to Order Specifications" for stroke which exceeds the standard stroke length.
Non-standard strokes for a size ø6 cylinder are available as a special order.

Theoretical Output

Model	Rod size (mm)	Operating direction	Piston area (mm ²)	Operating pressure (MPa)								
				0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	(N)
CXS□6	4	OUT	56	—	8.4	11.2	16.8	22.4	28.0	33.6	39.2	
		IN	31	—	4.6	6.2	9.3	12.4	15.5	18.6	21.7	
CXS□10	6	OUT	157	15.7	—	31.4	47.1	62.8	78.5	94.2	110	
		IN	100	10.0	—	20.0	30.0	40.0	50.0	60.0	70.0	
CXS□15	8	OUT	353	35.3	—	70.6	106	141	177	212	247	
		IN	252	25.2	—	50.4	75.6	101	126	151	176	
CXS□20	10	OUT	628	62.8	—	126	188	251	314	377	440	
		IN	471	47.1	—	94.2	141	188	236	283	330	
CXS□25	12	OUT	982	98.2	—	196	295	393	491	589	687	
		IN	756	75.6	—	151	227	302	378	454	529	
CXS□32	16	OUT	1608	161	—	322	482	643	804	965	1126	
		IN	1206	121	—	241	362	482	603	724	844	

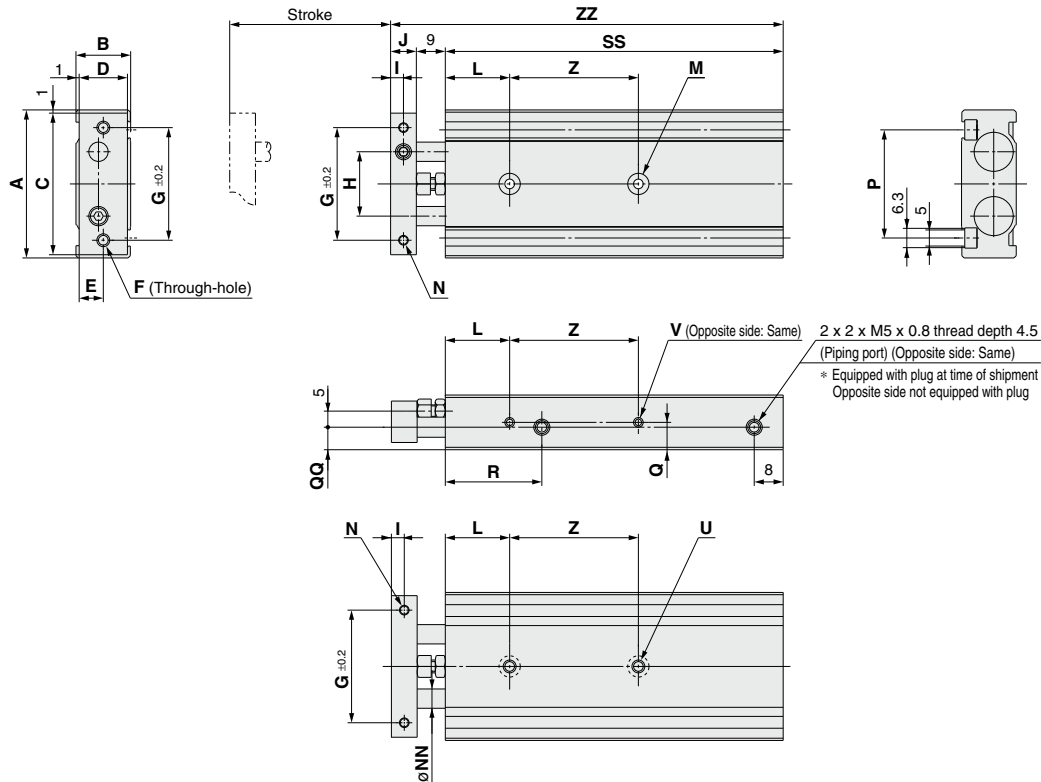
Note) Theoretical output (N) = Pressure (MPa) x Piston area (mm²)

Weight

Model	Standard stroke (mm)															(kg)
	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100	
CXSM 6	0.081	—	0.095	—	0.108	—	0.122	—	0.135	—	—	—	—	—	—	
CXSL 6	0.081	—	0.095	—	0.108	—	0.122	—	0.135	—	—	—	—	—	—	
CXSM10	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.25	0.27	0.28	—	—	—	
CXSL 10	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.25	0.27	0.28	—	—	—	
CXSM15	0.25	0.265	0.28	0.29	0.30	0.315	0.33	0.345	0.36	0.39	0.42	0.435	0.45	0.48	0.51	
CXSL 15	0.27	0.285	0.30	0.31	0.32	0.335	0.35	0.365	0.38	0.41	0.44	0.455	0.47	0.50	0.53	
CXSM20	0.40	0.42	0.44	0.46	0.48	0.495	0.51	0.53	0.55	0.585	0.62	0.64	0.66	0.70	0.74	
CXSL 20	0.43	0.445	0.46	0.48	0.50	0.515	0.53	0.55	0.57	0.605	0.64	0.66	0.68	0.715	0.75	
CXSM25	0.61	0.635	0.66	0.69	0.72	0.745	0.77	0.80	0.83	0.89	0.95	0.97	0.995	1.06	1.10	
CXSL 25	0.62	0.645	0.67	0.70	0.73	0.755	0.78	0.81	0.84	0.895	0.955	0.98	1.005	1.065	1.11	
CXSM32	1.15	1.19	1.23	1.275	1.32	1.36	1.40	1.45	1.49	1.58	1.665	1.71	1.755	1.84	1.93	
CXSL 32	1.16	1.205	1.25	1.295	1.34	1.38	1.42	1.465	1.51	1.595	1.68	1.72	1.765	1.855	1.94	

Dual Rod Cylinder Basic Type **CXS Series**

Dimensions: $\varnothing 10$, $\varnothing 15$



(mm)

Model	A	B	C	D	E	F	G	H	I	J	L	M	N	NN	P	Q	QQ	R	U	V
CXS$\square$10	46	17	44	15	7.5	2 x M4 x 0.7	35	20	4	8	20	2 x $\varnothing 3.4$ through 2 x $\varnothing 6.5$ counter- bore depth 3.3	2 x M3 x 0.5 thread depth 5	$\varnothing 6$	33.6	8.5	7	30	2 x M4 x 0.7 thread depth 7	4 x M3 x 0.5 thread depth 4.5
CXS$\square$15	58	20	56	18	9	2 x M5 x 0.8	45	25	5	10	30	2 x $\varnothing 4.3$ through 2 x $\varnothing 8$ counter- bore depth 4.4	2 x M4 x 0.7 thread depth 6	$\varnothing 8$	48	10	10	38.5	2 x M5 x 0.8 thread depth 8	4 x M4 x 0.7 thread depth 5

Dimensions by Stroke

Symbol		SS														Z						ZZ														
Stroke	Model	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100	10, 15 20, 25	30, 35, 40, 45, 50	60, 70, 75	80	90, 100	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100
	CXS□10	65	70	75	80	85	90	95	100	105	115	125	130	–	–	–	30	40	50	–	–	82	87	92	97	102	107	112	117	122	132	142	147	–	–	–
	CXS□15	70	75	80	85	90	95	100	105	110	120	130	135	140	150	160	25	35	45	45	55	89	94	99	104	109	114	119	124	129	139	149	154	159	169	179



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PRODUCT: CXSM10-30 / CXS Series Dual Rod Cylinder, Slide Bearing, 10 mm Bore, 30 mm Stroke

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