Slide Unit Series CX2/CXWM/CXWL

Slide Bearing/CX2:ø10, ø15, ø25 CXWM:ø10, ø16, ø20, ø25, ø32 Ball Bushing Bearing/CXWL:ø10, ø16, ø20, ø25, ø32

Provided with shock absorbers to absorb impact and noise.

The slide unit can absorb energy in a wide range, in high speed, low-load applications to low speed, high-load applications, without requiring adjustments.

Ensures high positional accuracy.

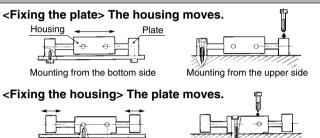
A high level of positional accuracy can be attained because the two parallel piston rods prevent the rods from rotating, and the workpiece mounting surface and the parallelism of the piston rods are made highly precise.

Auto switches can be installed. Smooth operation and high thrust.

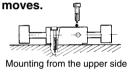
Series Variations

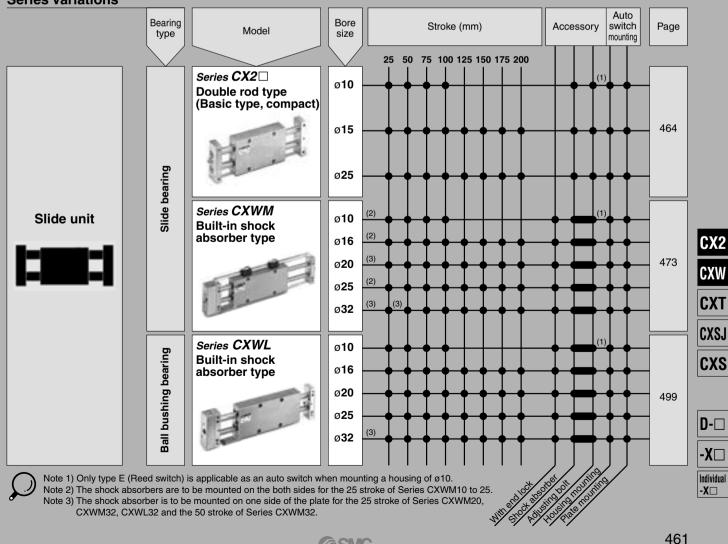
Mountable on the housing or on the plate.

The slide unit can be mounted on the housing or on the plate, depending on the application. It can also be bolted from the bottom or from the top. The piping can be fitted to the port in any of the three positions, according to how the unit is mounted.



Mounting from the bottom side

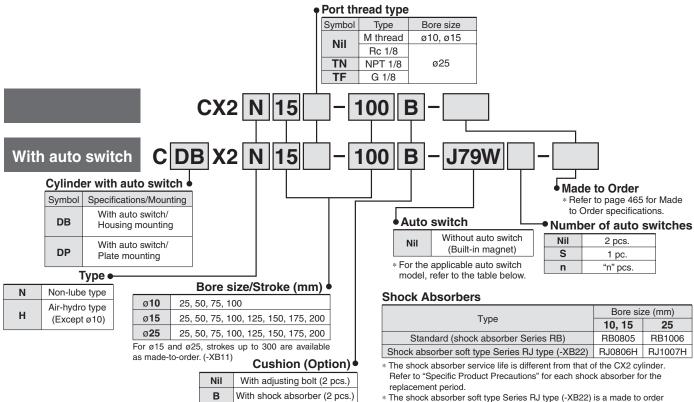




///SMD

Slide Unit/Double Rod Type Series C Slide Bearing: ø10, ø15, ø25

How to Order



BS With shock absorber (1 pc.)

Applicable Auto Switch/Refer to pages 1719 to 1827 for further information on auto switches.

			ight	14/2	Load voltage		ge	Auto switch part no. Applicab		Applicable	pplicable cylinder size		Lead wire length (m)						
Type	Special function	Electrical	Indicator light	Wiring (Output)	DC AC		40	Electrical entry		Housing	Plate	0.5 (Nil)	3		INOULE				
		entry	lindi				Perpendicular	In-line	mounting	mounting	(L)		(Z)	(N)	connector				
		Grommet	-	3-wire (NPN)	-	5V, 12V	F7NV	F79					\bigcirc	-	0	IC			
с.				3-wire (PNP)			-	F7PV	F7P					\bigcirc	_	0	circuit		
switch				2-wire		101		F7BV	J79					0	_	0			
		Connector		2-1116		12V		J79C	—		ø10					-	_		
state	Discussed in institution] "	3-wire (NPN)	24V	EV 10V		F7NWV	F79W	Ø15 Ø25			0	-	0	IC]		
d s	Diagnostic indication (2-color indication)		Yes	3-wire (PNP)		5V, 12V	F7I	_	F7PW		ø15			0	—	0	circuit	Relay,	
Solid								F7BWV	J79W		ø 25		0	-	0		PLC		
S	Water resistant (2-color indication)	Grommet	Grommet	net		2-wire		12V	F7BAV**	F7BA**		025	_	•	0	-	0] —	
	With diagnostic output (2-color indication)						4-wire (NPN)		5V, 12V	_	F79F			•	•	0	-	0	IC circuit
	Connec	Grommet	es se		3-wire	_	5V	_		A76H					—	—	—	IC circuit	—
						_	200V	A72	A72H	ø15	ø 10			—	-	—			
ي ا			1			12V	100V	A73	A73H		ø15				-	-			
switch			No	2-wire	0414	5V, 12V	100 V or less	A80	A80H	ø 25	015			—	-	—	IC circuit		
		Connector 2	Yes		24V	12V		A73C		025	ø 25					-	—	Relay,	
Reed			ninector 2	Ň			5V, 12V	24 V or less	A80C	_							—	IC	PLC
			ŝ	3-wire	_	5V	_		E76A					—	—	—	circuit		
		Grommet $\stackrel{0}{\succ}$ 3 -wire $ 5V$ $ E76A$	_			_	-	-	—	1									
			٩	2-wire	24V	5V, 12V	100 V or less		E80A	1				-	-	-	IC circuit		

** Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Consult with SMC regarding water resistant types with the above model numbers.

* Lead wire length symbols: 0.5 m Nil

3 m L

(Example) F79WL (Example) F79WZ 5 m Z None N

(Example) J79CN

(Example) F79W

* Refer to pages 1784 and 1785 for details of auto switches with a pre-wired connector.

* Auto switches are shipped together (not assembled).

b 464

SMC

* Solid state auto switches marked with "O" are produced upon receipt of order.

specification. For details, refer to page 1871-1.



Specifications

Тур	e	Non-lube	Air-hydro type					
Fluid		Air	Hydraulic fluid					
Proof pressure		1.5 MPa						
Max. operating pressu	ire	1.0 MPa						
	CX2N10	0.15 MPa	_					
Min. operating pressure	CX2□15	0.15	MPa					
	CX2□25	0.10	MPa					
Ambient and fluid tem	perature	–10°C te	o +60°C					
Piston speed (Non-lube)	With adjusting bolt	30 to 200 mm/s	Defer to Table (1)					
riston speed (Non-lube)	With shock absorber	30 to 500 mm/s	Refer to Table (1).					
Cushion		With shock absorber (Option)						
Stroke adjustable rang	ge	Standard stroke: ±2 mm						
	CX2N10	9.8 N						
Max. load mass ⁽¹⁾	CX2□15	29.4 N						
	CX2□25	58.8 N						
Non-rotating accuracy	CX2N10	±0.1°						
(Except piston rod)	CX2□15	±0.04°						
\ deflection /	CX2□25	±0.02°						
Accessory (Option)		Straight knock pin (2 pcs.), Adjusting bolt (-X138) ⁽²⁾ Shock absorber						

Note 1) Place the center of gravity of the load as close to the center of the slide unit as possible during operation. If they are placed far apart, consult with SMC. Note 2) "-X138" has a stroke adjustable range of 12.5 mm on one side.

Table (1) Air-hydro/Piston Speed

Model	Plate mounting	Housing mounting				
CX2H15	Refer to the below. Note 1)	5 to 50 mm/s				
CX2H25	5 to 40 mm/s	5 to 100 mm/s				
		•				

Note 1) Consult with SMC when the air-hydro type is mounted on a plate. Note 2) Consult with SMC when units are used at a low speed (10 mm/s or faster) (when

intermediate stops are not required) since -XB13 (Low speed specification) is available.

Note 3) When using the air-hydro type, use the double side hydro unit.

Shock Absorber Specifications

Shock absorber		RB0805	RB1006			
Applicable slide	unit	CX2N10, CX2□15	CX2□25			
Maximum energ	y absorption (J)	0.98	3.92			
Stroke absorpt	ion (mm)	5	6			
Max. collision s	peed (m/sec)	0.05 to 5				
Max. operating free	equency (cycle/min)	80	70			
Max. allowable	thrust (N)	147	353			
Ambient temper	ature range (°C)	-10 to 80				
Spring force (N)	Extended	1.96	4.22			
Spring loice (N)	Retracted	3.83	6.18			
Mass (g)		15	25			

*The above shows the maximum absorption energy per cycle. Accordingly, the operating frequency can be increased in accordance with the absorption energy.

*The shock absorber service life is different from that of the cylinder body depending on the operating conditions. Refer to the RB Series Specific Product Precautions for the replacement

period.

Theoretical Output

										(N)	
Model	Rod size	Piston area	Operating pressure (MPa)								D -□
Model	(mm)	(mm²)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
CX2N10	6	101	20	30	40	51	61	71	81	91	- X
CX2□15	8	207	41	62	83	104	124	145	166	186	
CX2□25	14	597	119	179	239	299	358	418	478	537	Individual

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



CXS



Made to Order Specifications (For details, refer to pages 1851 to 2021.)

Symbol	Specifications						
—XB11	Long stroke type						
—XB13	13 Low speed cylinder (5 to 50 mm/s)						
—XB22	Shock absorber soft type Series RJ type						
—X146	Hollow piston rod						
—X138	Adjustable stroke						
—X168	CX helical insert thread						
—X169	2 built-in magnets						
—XC22	Fluororubber seals						

