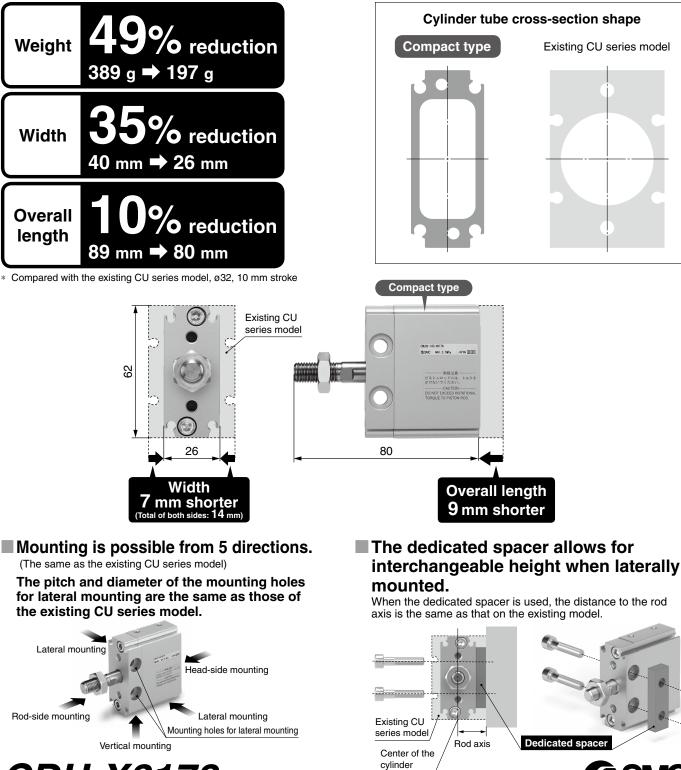
Free Mount Cylinder

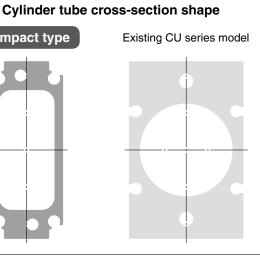
Compact Type

CDU-X3178

Size: 20, 32

Now, more compact and lightweight due to the adoption of a rectangular shape piston!







19-E717



INFORMATION

CDU-X3178

Specifications

Size	20 (Equiv. ø20 piston area)	32 (Equiv. ø32 piston area)				
Fluid	A	ir				
Proof pressure	1.05	MPa				
Max. operating pressure	0.7	MPa				
Min. operating pressure	0.05 MPa					
Ambient and fluid temperatures	-10 to 60°C (No freezing)					
Lubrication	Non-lube					
Piston speed	50 to 500 mm/s					
Cushion	Rubber bumper					
Rod end thread	Male thread					
Stroke length tolerance	^{+1.0} mm					
Rod non-rotating accuracy	±1° ±0.8°					

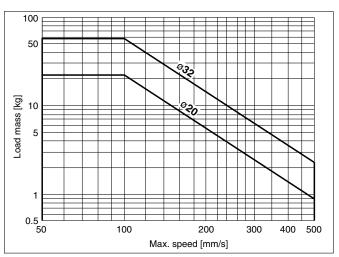
* This is a non-rotating rod type cylinder.

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Allowable Lateral Load at Rod End

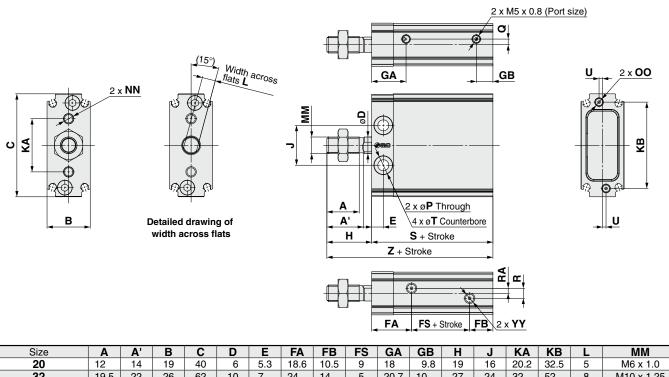
								[N]		
Size	Stroke [mm]									
Size	5	10	15	20	25	30	40	50		
20	3.0	2.7	2.5	2.3	2.1	2.0	1.8	1.6		
32	7.1	6.6	6.1	5.7	5.4	5.1	4.6	4.1		

Operating Speed



Be sure to connect a speed controller to the cylinder and adjust its speed to 500 mm/s or less. If a load is to be attached to the end of the rod, adjust the speed to the max. speed shown in the graph above or less, in accordance with the load mass.

Dimensions



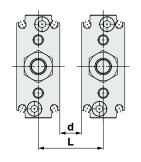
20	12	14	19	40	6	5.3	18.6	10.5	9	18	9.8	19	16	20.2	32.5	5	M6 x	1.0
32	19.5	22	26	62	10	7	24	14	5	20.7	10	27	24	32	52	8	M10 x	1.25
Size		NN			00		P	Q	R	RA		Т		U	Y	Ϋ́	S	Z
20	M4	x 0.7 D	epth 8	M4	x 0.7 D	epth 5	5.5	1	3	1.5	9.3	Depth	5.4	1.3	M4 x 0.7	Depth 5	5 38	57
32	MGX	1000	oth 12.5	ME	x 0.8 D	onth Q	6.6	3.4	6	3	11	Depth 6	3.5	2.1	M6 x 1	Depth 6	43	70

Free Mount Cylinder Compact Type CDU-X3178

Precautions

≜Caution

- 1. When securing a workpiece to the end of the piston rod, ensure that the piston rod is fully retracted, and place a wrench on the portion of the rod that protrudes. Then, tighten without applying tightening torque to the piston rod.
- 2. If multiple cylinders are operated adjacent to each other, the magnets that are enclosed in the adjacent cylinders could affect the operation of the auto switches, causing the switches to malfunction. Therefore, make sure that the mounting pitch of the cylinders is at least that indicated in the table below.



		[mm]
Size	d	L
20	10	29
30	10	36

A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and the "CU Series Specific Product Precautions" before use.

SMC Corporation

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B Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.