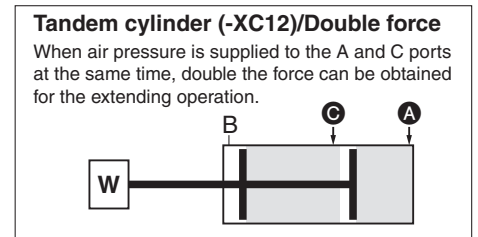
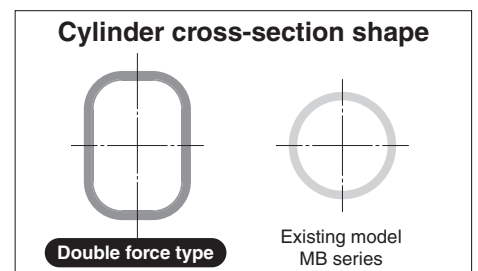
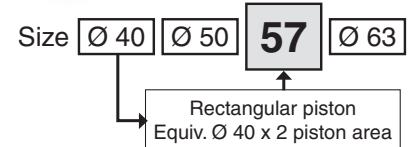
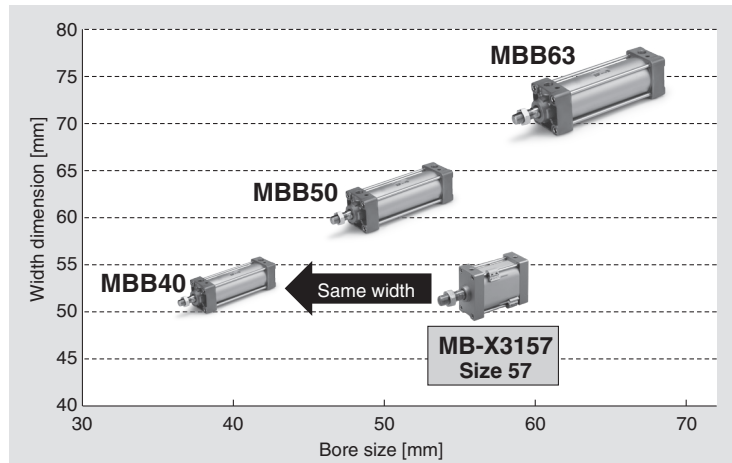
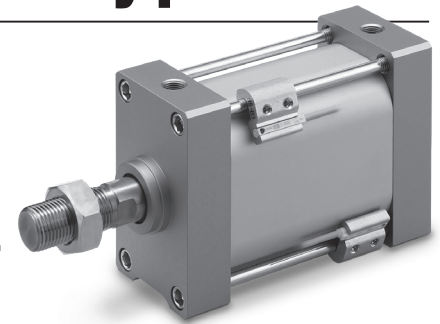


# Air Cylinder/Double Force Type RoHS

**Size: 57**

This product is capable of providing double the force of the MB series, without changing the width, due to the adoption of a rectangular piston.

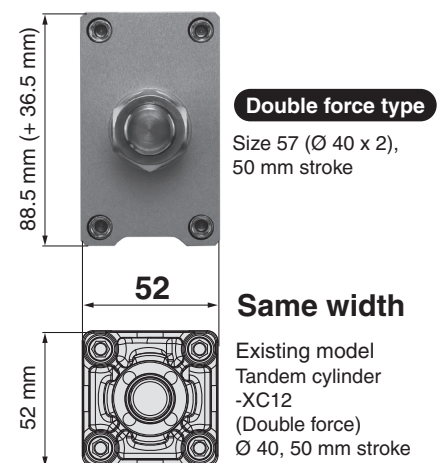
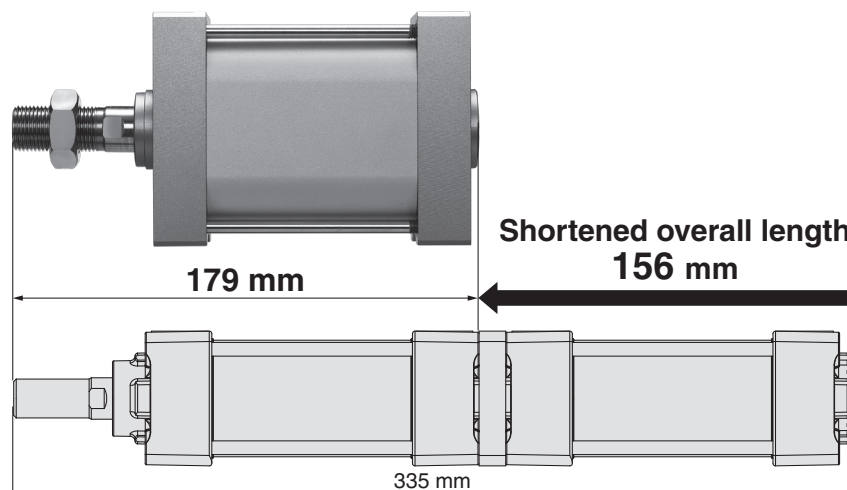
- \* Comparison with tandem cylinders satisfying the following conditions: a cylinder of the same width with double the theoretical output.
- \* The width of the MB standard model and the MB tandem cylinder are the same.



**Overall length** **47%<sup>\*1</sup> reduction**  
335 mm → 179 mm

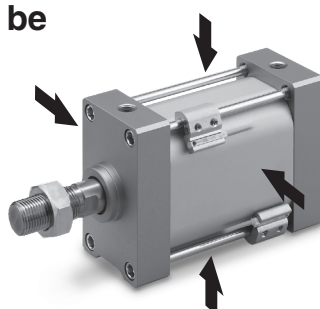
**Weight** **20%<sup>\*1</sup> reduction**  
1500 g → 1200 g

\*1 Compared with the existing tandem type cylinder -XC12 (double force), Ø 40, 50 mm stroke



■ **Small auto switches can be mounted on 4 surfaces.**  
(Tie-rod mounting)

Applicable auto switch: D-M9□



**MB-X3157**

■ **Air cushion adjustment is not required due to the non-adjustable air cushion.**

The built-in rubber bumper reduces the metal noise that occurs when the piston stops.

■ **Cover shape that prevents foreign matter accumulation**



# MB-X3157

## Specifications

Size	57 (Equiv. $\varnothing 40 \times 2$ piston area)
Action	Double acting, Single rod
Proof pressure	1.0 MPa
Max. operating pressure	0.7 MPa*1
Min. operating pressure	0.05 MPa
Ambient and fluid temperatures	5 to 60 °C
Lubrication	Not required (Non-lube)
Piston speed	50 to 500 mm/s*1
Stroke length tolerance	$^{+2.0}_0$ mm
Cushion	Non-adjustable air cushion + rubber bumper
Port size	Rc1/8
Stroke	50 to 250 mm (25 mm increments)
Mounting	None (Basic type only)
Allowable kinetic energy	2.0 J

Depending on the system configuration selected, the specified speed may not be satisfied.  
 \*1 Maximum operating pressure and piston speed are different from the existing product (MB series).

## Standard Strokes

Size	Standard stroke [mm]
57	50, 75, 100, 125, 150, 175, 200, 225, 250

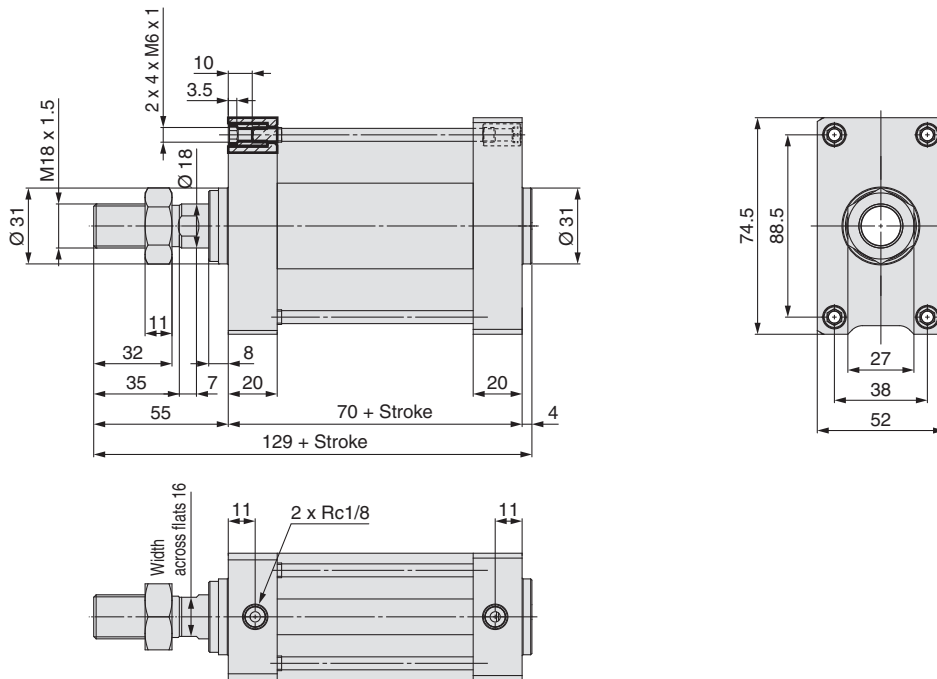
## Theoretical Output



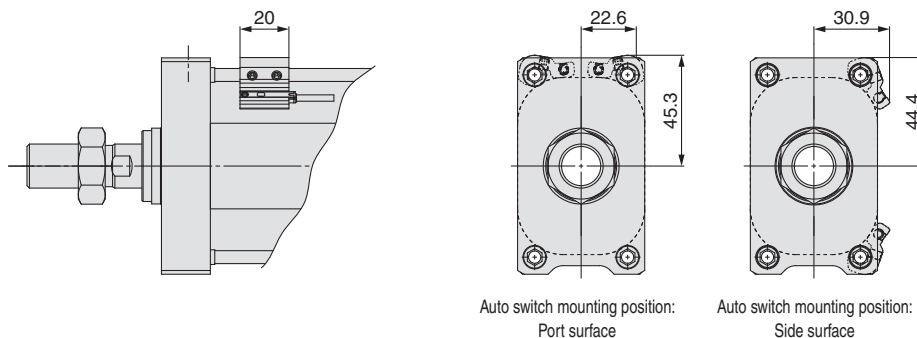
Size	Rod operating direction	Piston area [mm <sup>2</sup> ]	Operating air pressure [MPa]						
			0.2	0.3	0.4	0.5	0.6	0.7	
57	IN	2262	452	678	905	1131	1357	1583	
	OUT	2516	503	755	1006	1258	1510	1761	

\* Theoretical output [N] = Pressure [MPa] x Piston area [mm<sup>2</sup>]

## Dimensions



## Auto switch bracket dimensions



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