

Light as a feather

A balancing cylinder
that prevents stress

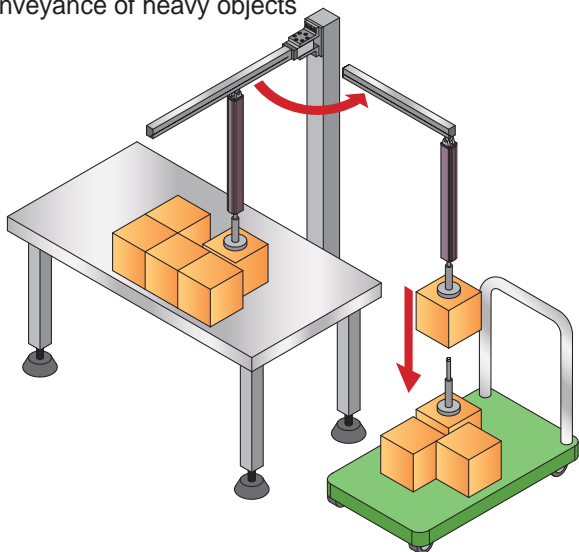


- Has position locking mechanism for safety concerns (BBS-OU model)
- Special packing and treatment for low friction sliding
- Compatible with lateral load as well (BBS-OS/OU-B model)

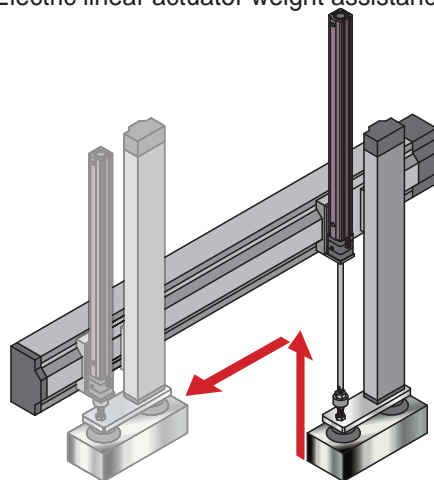
Ultra low friction balancing cylinder BBS Series

Applications

● Conveyance of heavy objects



● Electric linear actuator weight assistance



Main specifications

Item	XCAS-BBS-OS/OU				
	32	40	50	63	
Working fluid	Clean compressed air				
Max. working pressure MPa	1.0 (BBS-OS), 0.6 (BBS-OU)				
Min. working pressure MPa	Cylinder	0.05			
	Lock part	0.25 (BBS-OU only)			
Proof pressure MPa	1.5 (BBS-OS), 0.9 (BBS-OU)				
Ambient temperature °C	5°C to 60°C (no freezing)				
Bore size mm	ø32	ø40	ø50	ø63	
Port size	Rc1/8	Rc1/4	Rc1/4	Rc3/8	
Max. stroke mm	500				
Working piston speed mm/s	1 to 1000 (Operate within the allowable absorbed energy.)				
Cushion *1	Rubber cushion				
Lubrication	Load				
Max. load *2 kg	BBS-OS	49	76	120	190
	BBS-OU	29	46	72	114
Holding force (BBS-OU only) N	588	588	980	1470	
No load sliding resistance *3 N	10 or less				

*1 Allowable absorbed energy varies depending on the type.

*2 Differs with pressurizing direction and working pressure.

*3 Indicates the load where the piston rod operates with no load and with atmosphere release.

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