



# YMS55

YMS  
SERIES

## Basic specifications

Model	YMS55	
Motor output (W)	30	
Repeatability (mm)	+/-0.02	
Deceleration mechanism	Ball screw (Class C10) / $\phi$ 12mm	
Ball screw lead (mm)	12	6
Maximum speed (mm/sec) (Note 1)	600	300
Maximum payload (kg)	Horizontal	5
	Vertical	1.5
Rated thrust (N) (Note 2)	32	64
	Stroke (mm)	50 to 300 (50 pitch)
Cable length (m)	3.5m (standard), 5m, 10m	
Controller	ERCD / ERCX (4.5A) (Note 3)	

Note 1 : The maximum speed is 450mm/sec, 225mm/sec(75%)when the stroke is 300mm.  
 Note 2 : Note that the thrust force control accuracy is not guaranteed.  
 Note 3 : This is the required power capacity.  
 Insufficient power capacity may cause deterioration in performance.  
 Note : Be sure to use the unit with no radial load applied to the rod.



## Robot ordering method

### ERCD/ERCX specification

**YMS55 - 12 - BK - 200 - 3L**

Model	Lead designation	Brake	Stroke	Cable length
	12 : 12mm 6 : 6mm	No entry : No brakes BK : Brakes provided	50 to 300 (50mm pitch)	3L : 3.5m (standard) 5L : 5m 10L : 10m

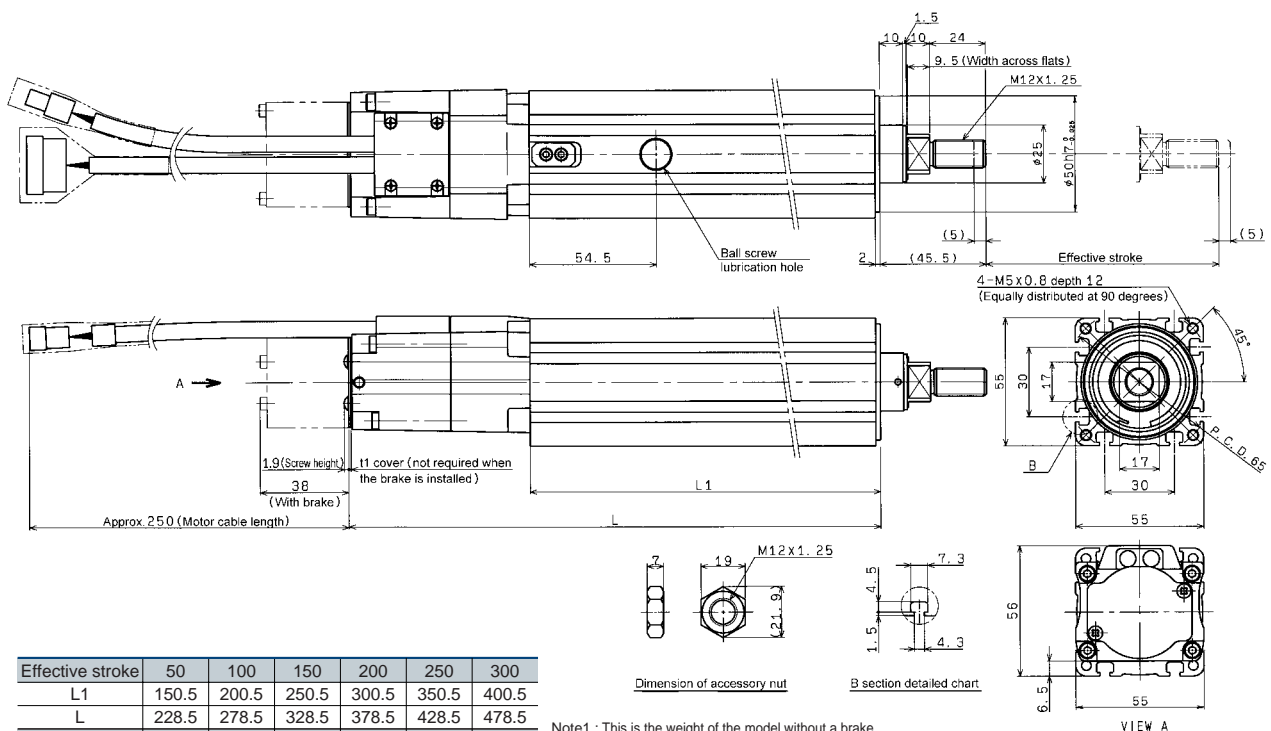
**ERCD - CN1**

Applicable controller	I/O connector specification
	CN1 : I/O flat cable 1m (Standard) CN2 : Twisted-pair cable 2m (pulse train function)

**ERCX - E - CC - B1**

Applicable controller	Usable for CE	Network option	Battery
No entry : Standard E : CE specification	No entry : None CC : CC-Link DN : DeviceNet PB : Profibus EN : Ethernet	No entry : None B1 : 700mAh (Standard) B2 : 2000mAh	

## YMS55 (BK specification)



Effective stroke	50	100	150	200	250	300
L1	150.5	200.5	250.5	300.5	350.5	400.5
L	228.5	278.5	328.5	378.5	428.5	478.5
Weight (kg) Note 1	1.7	2	2.4	2.7	3.1	3.4

Note 1 : This is the weight of the model without a brake.  
 The weight of the model equipped with a brake is 0.2kg heavier than this value.