

EDA40

High-precision, high-load servo electric cylinder with customizable stroke EDA40

PRODUCT

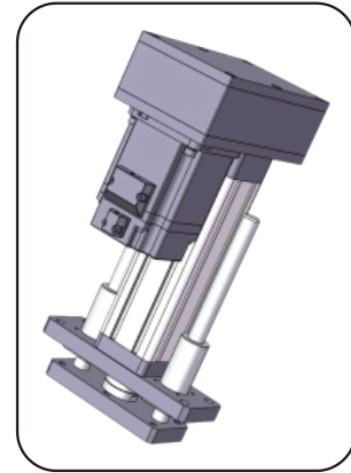
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

internal diameter	phi30 mm
Limit switch	Magnetic switch
Maximum allowed speed	≤ 250 mm/s
Maximum thrust allowed	≤ 0.5 kN
Rotation angle of piston rod	± 0.3 deg
Scalable length	≤ 360 mm

SELECTION

Choose thrust, stroke, and speed as one duty. A catalog maximum does not mean the other maximums apply at the same time. Confirm screw lead, motor mounting, gear reduction, and the load connection before ordering.



Product illustration

BASIC PARAMETERS

(Note: Thrust, stroke, and speed should be combined with actual usage, and the upper limit values of the three cannot be used together.)

Outer diameter	internal diameter	Maximum thrust allowed	Scalable length	Maximum allowed speed	Maximum allowed speed Rotation angle of piston rod Limit switch	Limit switch
40x40 mm	phi30 mm	≤ 0.5 kN	≤ 360 mm	≤ 250 mm/s	± 0.3 deg	Magnetic switch

DRIVE AND MOTOR OPTIONS

Lead of ball screw	Synchronous wheel speed ratio (input: output)	Synchronous wheel speed ratio (input: output)	Synchronous wheel speed ratio (input: output)	Motor specifications that can be directly installed	Motor specifications that can be directly installed	Reducers that can be matched
04mm	1:1	1.5:1	2:1	40A	42B	NO
05mm	1:1	1.5:1	2:1	40A	42B	NO

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Electric Cylinders

BALL-SCREW PARAMETERS

(Note: The parameters of the ball screw are applicable to strokes ≤ 300 mm. For strokes greater than 300mm, please consult our technical personnel.)

Ball screw model	Type	Diameter	Lead of ball screw	Ca (KN)	Coa (KN)	Ball screw rigidity	Ball diameter	Screw shaft	Slenderness ratio	Accuracy grade	Positioning accuracy
BSH1204-3.5	Ball screw	12 mm	04mm	7.8 KN	16.1 KN	23Kgf/um	2.5mm	8K3	1:30	C5/+/-0.01	C7/+/-0.02
BSH1205-3.5	Ball screw	12 mm	05mm	7.8 KN	16.1 KN	23Kgf/um	2.5mm	8K3	1:30	C5/+/-0.01	C7/+/-0.02

BEARING PARAMETERS

Bearing model	Cr (KN)	Cor (KN)
Deep groove ball 6900-2RSx2	2.7 KN	1.27 KN

TIMING PULLEYS AND BELT

Synchronous wheel speed ratio	Driving gear specifications	Driven gear specifications	Number of active gear teeth	Number of driven wheel teeth	Center distance of synchronous wheel	Synchronous belt circumference	Synchronous belt width
1:1	3M10T21	3M10T15	30	30	47.5mm	186	10mm
1.5:1	3M10T21	3M10T15	20	30	47.5mm	171	10mm
2:1	3M10T21	3M10T15	20	40	47.5mm	186	10mm

DIMENSION CORRESPONDENCE TABLE (MM)

Load connection type	phiA	phiB	phiC	C	D	E	F	H	G	M
External thread	phi34	phi20	-	20	43	3	8	-	17	M12x1.0
Internal thread	phi34	phi20	-	16	15	3	-	-	17	M10
Type I connector	phi34	phi20	phi10	-	65	3	10	15	17	-
Fisheye bearing	phi34	phi20	phi10	-	45	3	14	-	17	-
Y-joint	phi34	phi20	phi10	-	65	3	10	40	19	-