

EDA300

High-precision, high-load servo electric cylinder with customizable stroke EDA300

PRODUCT

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

TECHNICAL SPECIFICATIONS

Limit switch	Proximity switch
Maximum allowed speed	≤ 250 mm/s
Maximum thrust allowed	≤ 600 kN
Rotation angle of piston rod	± 0.3 deg
Scalable length	≤ 2000 mm
internal diameter	$\phi 230$ 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.

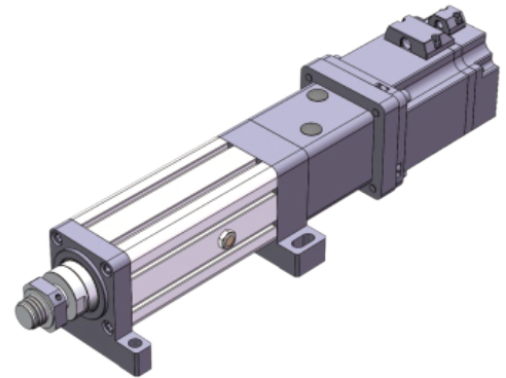
BASIC PARAMETERS

(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 Rotation angle of piston rod	Rotation angle of piston rod	Limit switch
$\phi 280$ mm	$\phi 230$ mm	≤ 600 kN	≤ 2000 mm	≤ 250 mm/s	± 0.3 deg	Proximity 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	Reducers that can be matched	Reducers that can be matched
20mm	1:1	/	/	NO	220A	180A, 200A, 220A
25mm	1:1	/	/	NO	220A	180A, 200A, 220A



Product illustration

EDA300

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 Positioning accuracy level	Accuracy Positioning accuracy level
JF10020-8	Ball screw	100 mm	20mm	444.9 KN	1526.9 KN	/	12.7mm	75K20	1:50	C5/+/-0.01	C7/+/-0.02
JF10025-8	Ball screw	100 mm	25mm	603.3 KN	1891.2 KN	/	15.875mm	75K20	1:50	C5/+/-0.01	C7/+/-0.02

BEARING PARAMETERS

Bearing model	Cr (KN)	Cor (KN)
Deep groove ball 6217-ZZx2	83.3 KN	63.8 KN

BEARING PARAMETERS (CONTINUED)

Bearing model	Cr (KN)	Cor (KN)
Thrust self-aligning roller bearing 29417	600 KN	1730 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	14M50T86	14M50T86	45	45	280mm	1190	50mm