

EDF90

High-precision, high-load servo electric cylinder with customizable stroke EDF94

PRODUCT

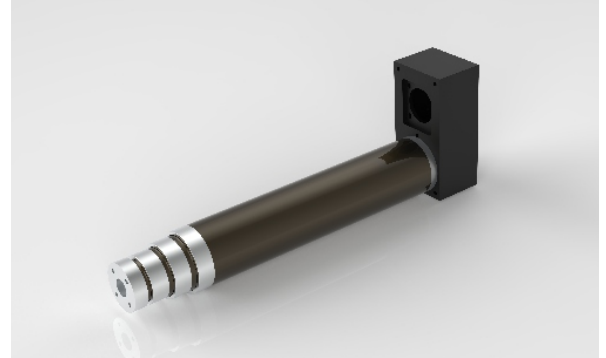
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Outer diameter	phi90 mm
Maximum thrust allowed	<=100KG
Extendable length	<=1800mm
Maximum allowed speed	<=50 mm/s

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 Rotation angle of piston rod	Rotation angle of piston rod	Limit switch
phi90 mm	phi50mm	<=100KG	<=1800mm	<=50 mm/s	+/-0.3 deg	NO

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
08mm	1:1	/	/	NO	60A	60A, 80A
12mm	1:1	/	/	NO	60A	60A, 80A
20mm	1:1	/	/	NO	60A	60A, 80A

BALL-SCREW PARAMETERS

(Note: The parameters of the ball screw are applicable to strokes <= 300mm. 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
/	Trapezoidal thread rod	Multiple specifications	08mm	/	/	/	/	75K20	/	C10/+/-0.5
/	Trapezoidal thread rod	Multiple specifications	12mm	/	/	/	/	75K20	/	C10/+/-0.5
/	Trapezoidal thread rod	Multiple specifications	20mm	/	/	/	/	75K20	/	C10/+/-0.5

EDF90

Electric Cylinders

OUTPUT AND SPEED

Reduction ratio	Synchronous wheel speed ratio	Lead of ball screw (mm)	Rated thrust (KN)	Rated speed (mm/s)	Rated thrust (KN)	Rated speed (mm/s)
Motor power			400W (60A)		750W(80A)	
Rated speed			3000 rpm		3000 rpm	
Rated torque			1.27 N.M		2.39 N.M	
Synchronous wheel speed ratio	1	08	0.2	30	0.37	30
Synchronous wheel speed ratio	1	12	0.13	30	0.25	30
Synchronous wheel speed ratio	1	20	0.08	30	0.15	30
planetary reducer speed ratio	5	08	1	30	-	-
planetary reducer speed ratio	5	12	0.67	30	1.25	30
planetary reducer speed ratio	5	20	0.4	30	0.75	30
planetary reducer speed ratio	10	08	-	-	-	-
planetary reducer speed ratio	10	12	1.33	30	-	-
planetary reducer speed ratio	10	20	0.8	30	-	-

DIMENSION CORRESPONDENCE TABLE (MM)

Scalable length(mm)	500 mm	600 mm	800 mm	1000 mm	1200 mm	1350 mm	1500 mm	1650 mm	1800 mm
Initial length[L] (mm)	464 mm	499 mm	559 mm	629 mm	699 mm	749 mm	799 mm	849 mm	884 mm