

EDA94

High-precision, high-load servo electric cylinder with customizable stroke EDA94

PRODUCT

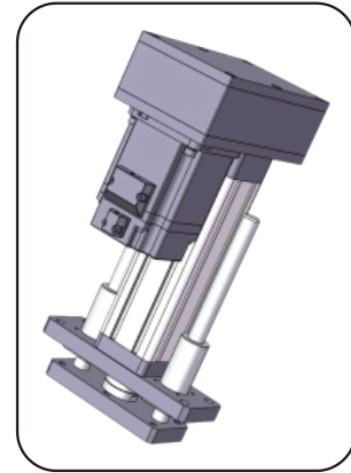
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Magnetic switch
Maximum allowed speed	≤ 1000 mm/s
Maximum thrust allowed	≤ 30 kN
Rotation angle of piston rod	± 0.3 deg
Scalable length	≤ 960 mm
internal diameter	$\phi 80$ 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
94x94 mm	$\phi 80$ mm	≤ 30 kN	≤ 960 mm	≤ 1000 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	Motor specifications that can be directly installed	Reducers that can be matched
05mm	1:1	1.5:1	2:1	80A	100A	130A	NO
10mm	1:1	1.5:1	2:1	80A	100A	130A	NO
20mm	1:1	1.5:1	2:1	80A	100A	130A	NO
32mm	1:1	1.5:1	2:1	80A	100A	130A	NO

BALL-SCREW PARAMETERS

(Note: The lead screw load is for a stroke of ≤ 300 mm, and for a stroke greater than 300 mm, please consult our technical personnel.)

Ball screw model	Type	Diameter	Lead of ball screw	Ca (KN)	Coa (KN)	Steel properties	Ball diameter	Screw shaft	Slenderness ratio	Accuracy Positioning accuracy level	Accuracy Positioning accuracy level
SFNU3205-4	Ball screw	32 mm	05mm	18.8 KN	62.2 KN	54KgF/um	3.175mm	22K6	1:30	C5/ ± 0.01	C7/ ± 0.02
SFNU3210-4	Ball screw	32 mm	10mm	47.1 KN	119.7 KN	61KgF/um	6.35mm	22K6	1:30	C5/ ± 0.01	C7/ ± 0.02
SFA3220-2.8	Ball screw	32 mm	20mm	18.7 KN	53.7 KN	43KgF/um	3.969mm	22K6	1:30	C5/ ± 0.01	C7/ ± 0.02

EDA94

Electric Cylinders

BALL-SCREW PARAMETERS (CONTINUED)

Ball screw model	Type	Diameter	Lead of ball screw	Ca (KN)	Coa (KN)	Steel properties	Ball diameter	Screw shaft	Slenderness ratio	Accuracy Positioning accuracy level	Accuracy Positioning accuracy level
SFA3232-1.8	Ball screw	32 mm	32mm	12.3 KN	33.5 KN	27Kgf/um	3.969mm	22K6	1:30	C5/+/-0.01	C7/+/-0.02

BEARING PARAMETERS

Bearing model	Cr (KN)	Cor (KN)
Tapered roller 31305x2	38 KN	40 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	8M30T48	8M30T38	30	30	116mm	472	30mm
1.5:1	8M30T48	8M30T38	20	30	116mm	432	30mm
2:1	8M30T48	8M30T38	20	40	116mm	480	30mm

DIMENSION CORRESPONDENCE TABLE (MM)

Load connection type	phiA	phiB	phiC	C	D	E	F	H	G	M
External thread	phi80	phi60	-	50	80	3	14	-	55	M40x1.5
Internal thread	phi80	phi60	-	40	30	3	-	-	55	M24
Type I connector	phi80	phi60	phi35	-	195	3	35	55	55	-
Fisheye bearing	phi80	phi60	phi30	-	94	3	37	-	55	-
Y-joint	phi80	phi60	phi35	-	195	3	35	73	70	-