

EDA and EDF Servo Electric Cylinders

English selection guide

Servo electric cylinders convert rotary motion into guided linear thrust. Select thrust, stroke, speed, duty cycle, load connection, and motor/reducer options together.

HTROBOT

Based in Tianjin, HTROBOT works with customers on industrial linear motion and multi-axis automation. Our range brings together linear modules, guides, ball screws, actuators and XYZ stages.

We support engineering-drawing and application discussions to clarify dimensions, mounting and the motion arrangement. Share the target travel, load, speed and operating environment, together with any existing drawings or reference images.

SELECTION NOTES

- Thrust, stroke, and speed limits are catalog maxima. Verify them together for the intended duty.
- Screw lead, motor mounting, gear reduction, and the load connection change the final actuator.
- Drawing atlases show the catalog views. They are not CAD files or a selected build.

MODEL RANGE

Model	Thrust	Stroke	Speed
EDA40	<=0.5kN	<=360 mm	<=250 mm/s
EDA50	<=1.5kN	<=360 mm	<=500 mm/s
EDA60	<=2.7kN	<=800 mm	<=500 mm/s
EDA60Z	<=5kN	<=800 mm	<=500 mm/s
EDA75	<=6.8kN	<=600 mm	<=500 mm/s
EDA75Z	<=8kN	<=600 mm	<=500 mm/s
EDA80	<=20kN	<=750 mm	<=1000 mm/s
EDA94	<=30kN	<=960 mm	<=1000 mm/s
EDA94Z	<=30kN	<=960 mm	<=1000 mm/s
EDA115	<=50kN	<=2000mm	<=250 mm/s
EDA135	<=100kN	<=2000mm	<=250 mm/s
EDA140	<=130kN	<=2000mm	<=250 mm/s
EDA160	<=180kN	<=2000mm	<=250 mm/s
EDA180	<=250kN	<=2000mm	<=250 mm/s
EDA245	<=400kN	<=2000mm	<=250 mm/s
EDA300	<=600kN	<=2000mm	<=250 mm/s
EDF90	<=100KG	<=1800mm	<=50 mm/s

CONTACT HTROBOT

Email: emmy@htrobot.com

Website: www.htrobot.com

EDA40

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

PRODUCT

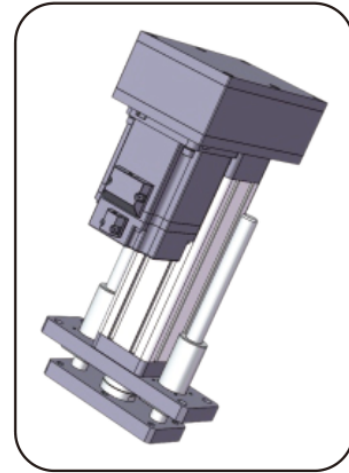
A servo electric cylinder for guided linear motion in a machine or production line.

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

EDA50

High-precision, high-load servo electric cylinder with customizable stroke EDA50

PRODUCT

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

TECHNICAL SPECIFICATIONS

internal diameter	phi40 mm
Limit switch	Magnetic switch
Maximum allowed speed	≤ 500 mm/s
Maximum thrust allowed	≤ 1.5 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

EDA60

High-precision, high-load servo electric cylinder with customizable stroke EDA60

PRODUCT

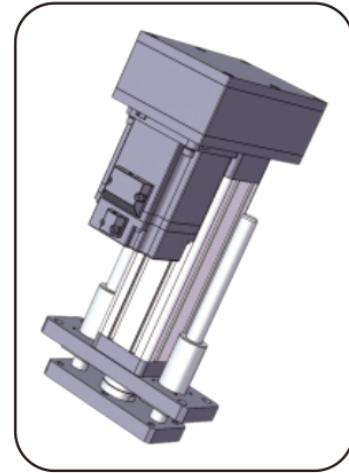
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

internal diameter	phi50 mm
Limit switch	Magnetic switch
Maximum allowed speed	≤ 500 mm/s
Maximum thrust allowed	≤ 2.7 kN
Rotation angle of piston rod	± 0.3 deg
Scalable length	≤ 800 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

EDA60Z

High-precision, high-load servo electric cylinder with customizable stroke EDA60Z

PRODUCT

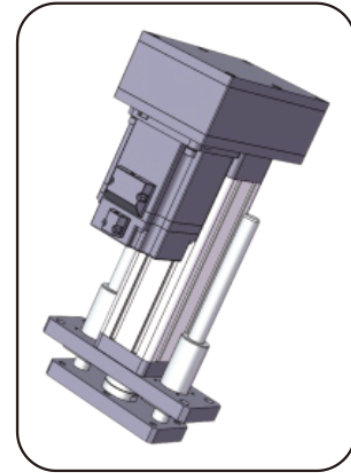
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Magnetic switch
Maximum allowed speed	$\leq 500 \text{ mm/s}$
Maximum thrust allowed	$\leq 5 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 800 \text{ mm}$
internal diameter	$\phi 50 \text{ mm}$

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

EDA75

High-precision, high-load servo electric cylinder with customizable stroke EDA75

PRODUCT

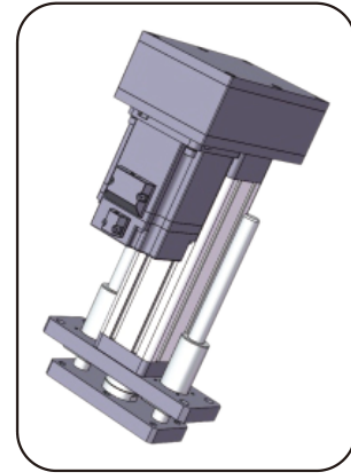
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Magnetic switch
Maximum allowed speed	$\leq 500 \text{ mm/s}$
Maximum thrust allowed	$\leq 6.8 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 600 \text{ mm}$
internal diameter	$\phi 63 \text{ mm}$

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

EDA75Z

High-precision, high-load servo electric cylinder with customizable stroke EDA75Z

PRODUCT

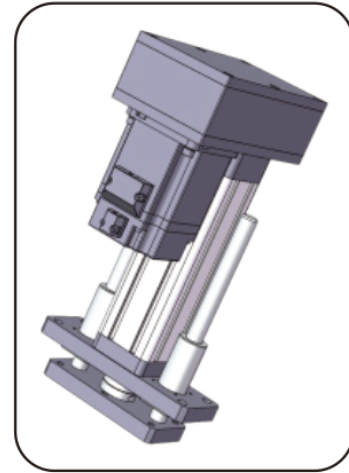
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Magnetic switch
Maximum allowed speed	≤ 500 mm/s
Maximum thrust allowed	≤ 8 kN
Rotation angle of piston rod	± 0.3 deg
Scalable length	≤ 600 mm
internal diameter	$\phi 63$ 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

EDA80

High-precision, high-load servo electric cylinder with customizable stroke EDA80

PRODUCT

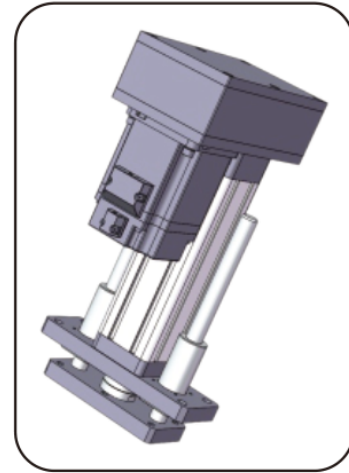
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Magnetic switch
Maximum allowed speed	$\leq 1000 \text{ mm/s}$
Maximum thrust allowed	$\leq 20 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 750 \text{ mm}$
internal diameter	$\phi 65 \text{ mm}$

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

EDA94

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

PRODUCT

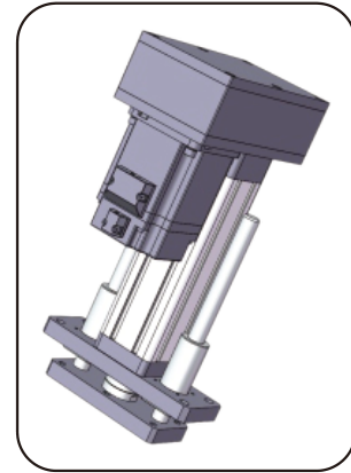
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Magnetic switch
Maximum allowed speed	$\leq 1000 \text{ mm/s}$
Maximum thrust allowed	$\leq 30 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 960 \text{ mm}$
internal diameter	$\phi 80 \text{ mm}$

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

EDA94Z

High-precision, high-load servo electric cylinder with customizable stroke EDA94Z

PRODUCT

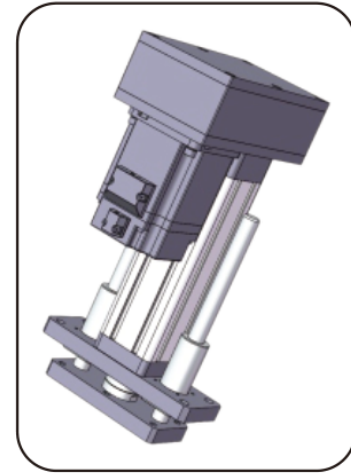
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Magnetic switch
Maximum allowed speed	$\leq 1000 \text{ mm/s}$
Maximum thrust allowed	$\leq 30 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 960 \text{ mm}$
internal diameter	$\phi 80 \text{ mm}$

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

EDA115

High-precision, high-load servo electric cylinder with customizable stroke EDA115

PRODUCT

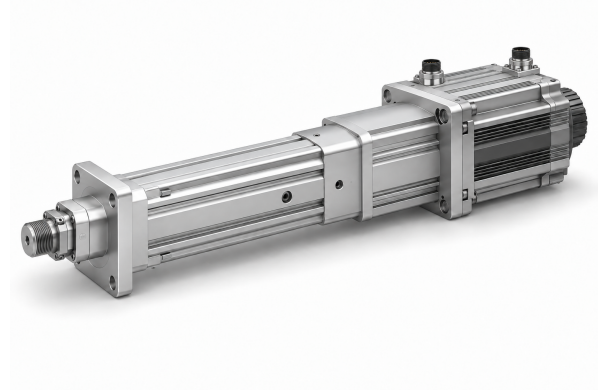
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Magnetic switch
Maximum allowed speed	$\leq 250 \text{ mm/s}$
Maximum thrust allowed	$\leq 50 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 2000 \text{ mm}$
internal diameter	$\phi 100 \text{ mm}$

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

EDA135

High-precision, high-load servo electric cylinder with customizable stroke EDA135 EDA135

PRODUCT

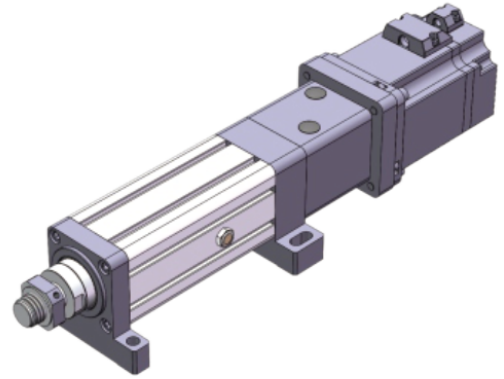
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Magnetic switch Proximity switch
Maximum allowed speed	$\leq 250 \text{ mm/s}$
Maximum thrust allowed	$\leq 100 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 2000 \text{ mm}$
internal diameter	$\phi 120 \text{ mm}$

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

EDA140

High-precision, high-load servo electric cylinder with customizable stroke EDA140 EDA140

PRODUCT

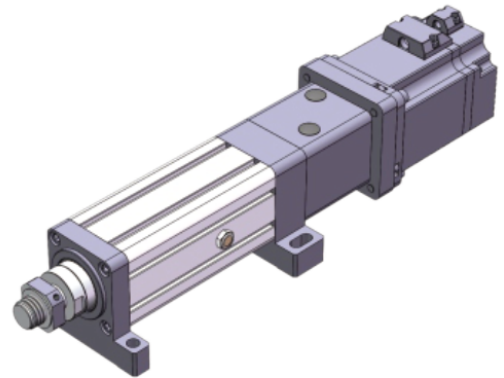
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Proximity switch
Maximum allowed speed	$\leq 250 \text{ mm/s}$
Maximum thrust allowed	$\leq 130 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 2000 \text{ mm}$
internal diameter	$\phi 110 \text{ mm}$

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

EDA160

High-precision, high-load servo electric cylinder with customizable stroke EDA160 EDA160

PRODUCT

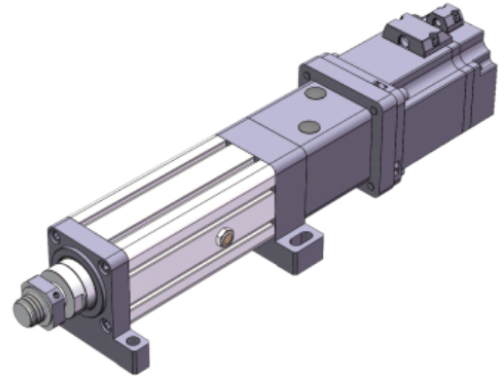
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Proximity switch
Maximum allowed speed	$\leq 250 \text{ mm/s}$
Maximum thrust allowed	$\leq 180 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 2000 \text{ mm}$
internal diameter	$\phi 140 \text{ mm}$

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

EDA180

High-precision, high-load servo electric cylinder with customizable stroke EDA180 EDA180

PRODUCT

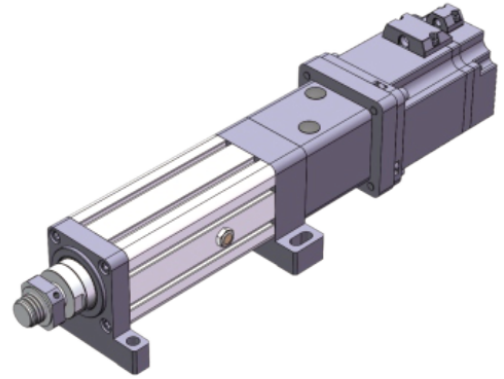
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Proximity switch
Maximum allowed speed	$\leq 250 \text{ mm/s}$
Maximum thrust allowed	$\leq 250 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 2000 \text{ mm}$
internal diameter	$\phi 160 \text{ mm}$

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

EDA245

High-precision, high-load servo electric cylinder with customizable stroke EDA245

PRODUCT

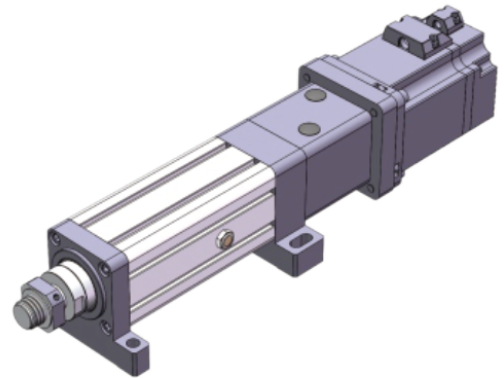
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Proximity switch
Maximum allowed speed	$\leq 250 \text{ mm/s}$
Maximum thrust allowed	$\leq 400 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 2000 \text{ mm}$
internal diameter	$\phi 180 \text{ mm}$

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

EDA300

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

PRODUCT

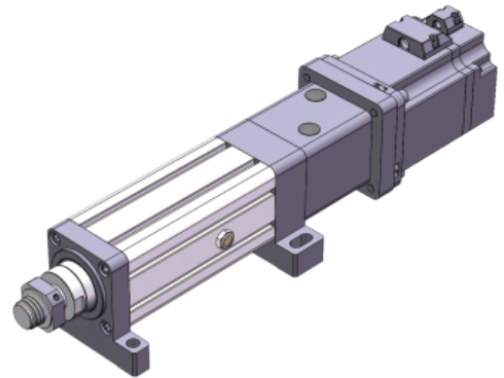
A servo electric cylinder for guided linear motion in a machine or production line.

TECHNICAL SPECIFICATIONS

Limit switch	Proximity switch
Maximum allowed speed	$\leq 250 \text{ mm/s}$
Maximum thrust allowed	$\leq 600 \text{ kN}$
Rotation angle of piston rod	$\pm 0.3 \text{ deg}$
Scalable length	$\leq 2000 \text{ mm}$
internal diameter	$\phi 230 \text{ mm}$

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

EDF90

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

PRODUCT

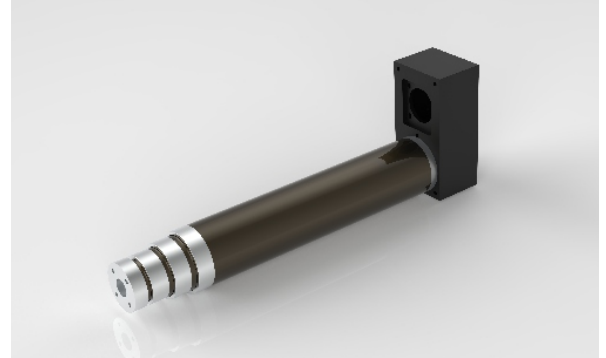
A servo electric cylinder for guided linear motion in a machine or production line.

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