

ZeroErr

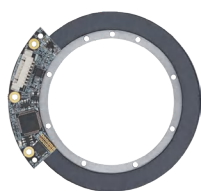
eRob Rotary Actuator



Build Robot Fast



Virtual Torque
Sensor



Absolute Encoder for
Output Shaft



Strain Wave
Gear



Servo Motor



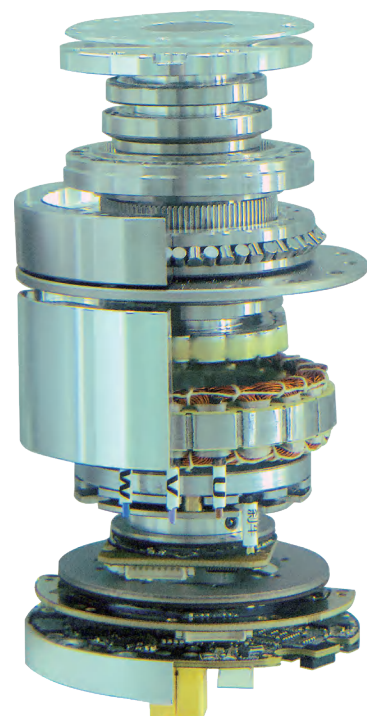
Friction Brake



Motor Encoder



Servo Driver



All in One Actuator Unit



Built-in Servo Driver

EtherCAT[®]

CANopen[®]

Modbus

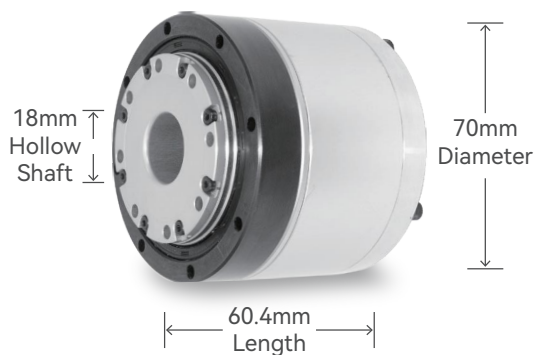
EtherCAT, CANopen,
Modbus communication protocols.
Open Position, Speed, Current loop
and real-time PID tuning.
Built-in $\pm 10V$ analog input.
Pulse and direction, I/O, RS485,
External encoder and STO interface.



Ultra Short Length

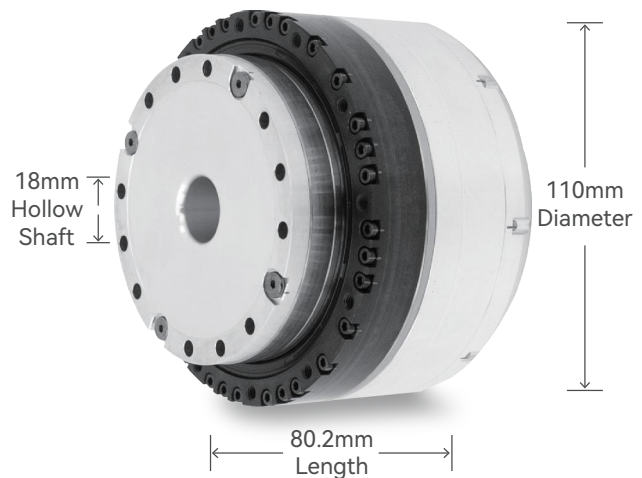
eRob 70F

Peak Start Stop Torque : 19Nm
Total Mass : 0.77kg



eRob 110I

Peak Start Stop Torque : 217Nm
Total Mass : 2.57kg



Built-in Dual Absolute Encoder Dual loop Position Control

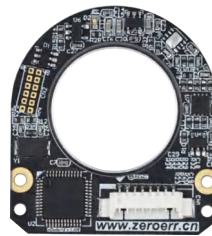
SWG output multi-turn absolute encoder: 19bit

Repeatability: ± 7 arcsec.*

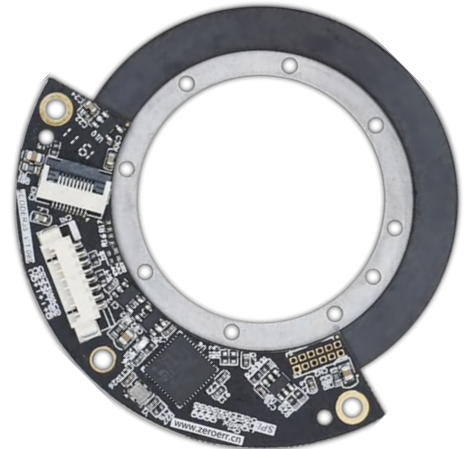
Absolute accuracy: ± 15 arcsec.

Always have real absolute position
and multi-turn count when
power-off.

* 1 arcsec = $1/3600$ degree = $4.848 \mu\text{rad}$



eCoder20



eCoder35

Integrated Armature Actuated Brake(AAB)



Friction brake inside.

Brake smooth and stable.

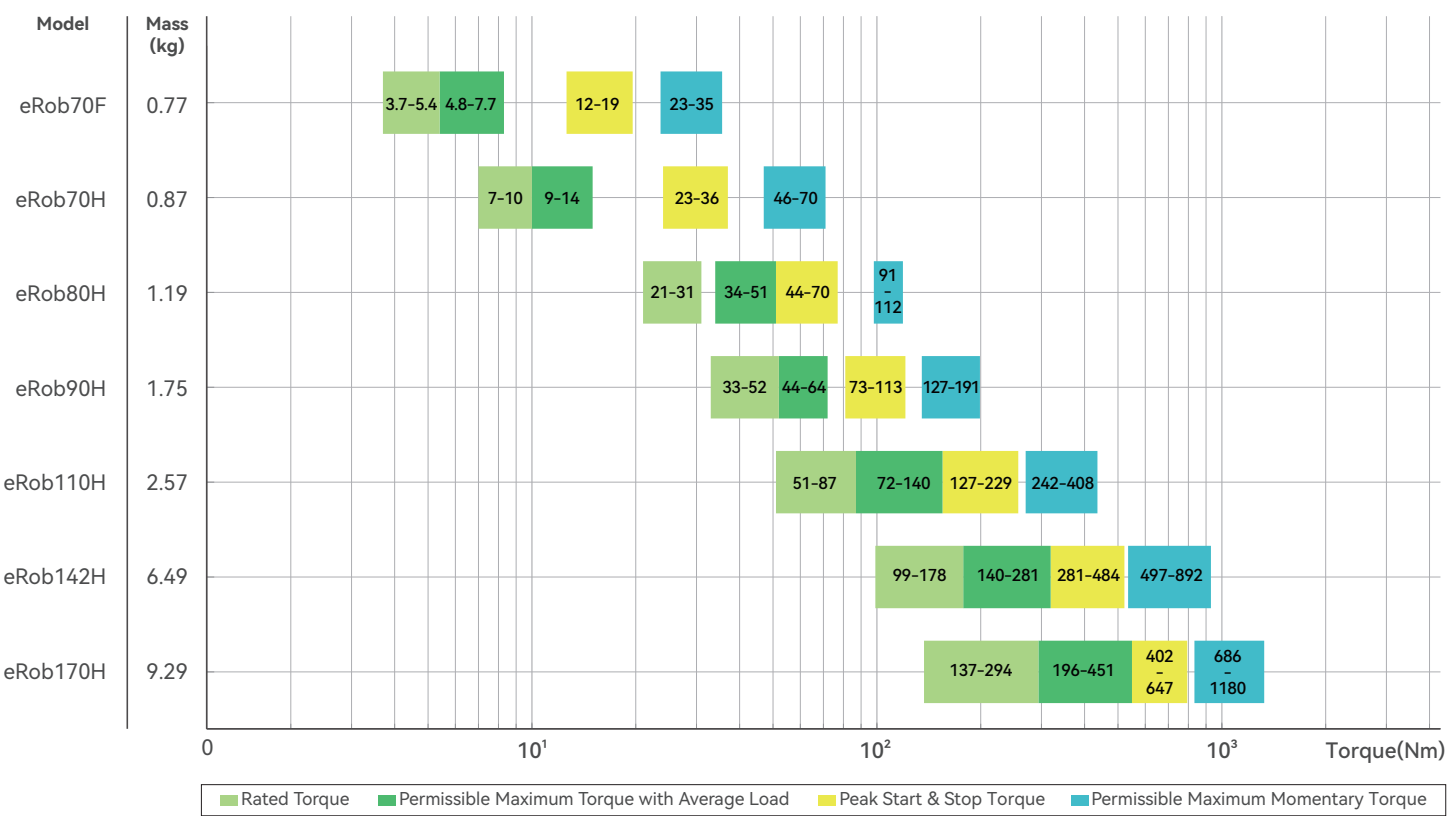
No gap; No backlash.

No need to move when power-on.

No wear and tear.

Can be used as Emergency Stop.

eRob I Series Specification Sheet



eRob Series Model

Actuator Series	Outer Diameter	Gear Type	Gear Ratio	Form Factor	Brakes	Integrated Encoder	Hollow Bore Diameter	Communication Protocol	Torque Sensor	Customization
eRob	70	F	100	I	— B	M	— 18	E	N	
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
ZeroErr eRob Series Rotary Actuator Module	70 Φ70mm 80 Φ80mm 90 Φ90mm 110 Φ110mm 142 Φ142mm 170 Φ170mm	F Flat H High Torque	50 50 GearRatio 80 80 GearRatio 100 100 GearRatio 120 120 GearRatio 160 160 GearRatio	I I Type T T Type	F Free Motion B With Brakes	S Single-Turn Encoder M Multi-Turn Encoder HS High Precision Single-Turn Encoder HM High Precision Multi-Turn Encoder	18 18mm	C CANopen E EtherCAT	N No Torque Sensor T Torque Sensor	C Low Temp. Grease
Model Code	eRob70F100I-BM-18EN									

Note: 2D and 3D drawings are available on our website <https://en.zeroerr.cn/>

ZeroErr

eRob
Rotary Actuator



eRob70T	eRob80T	eRob90T	eRob110T	eRob142T	eRob170I	eRob142I	eRob110I	eRob90I	eRob80I	eRob70I	eRob70F
OD : 73mm	OD : 85mm	OD : 96mm	OD : 116mm	OD : 148mm	OD : 170mm	OD : 142mm	OD : 110mm	OD : 90mm	OD : 80mm	OD : 70mm	OD : 70mm
Length : 99mm	Length : 111.8mm	Length : 123.8mm	Length : 147.5mm	Length : 163mm	Length : 144.9mm	Length : 133.9mm	Length : 80.2mm	Length : 98.9mm	Length : 84.2mm	Length : 75.3mm	Length : 60.4mm
Weight : 1.24kg	Weight : 1.94kg	Weight : 2.6kg	Weight : 4.64kg	Weight : 8.22kg	Weight : 9.5kg	Weight : 6.7kg	Weight : 2.68kg	Weight : 1.87kg	Weight : 1.25kg	Weight : 0.93kg	Weight : 0.77kg
Max.Torque: 70Nm	Max.Torque: 143Nm	Max.Torque: 191Nm	Max.Torque: 408Nm	Max.Torque: 892Nm	Max.Torque: 1180Nm	Max.Torque: 892Nm	Max.Torque: 408Nm	Max.Torque: 191Nm	Max.Torque: 143Nm	Max.Torque: 70Nm	Max.Torque: 35Nm
Max.Speed : 60RPM	Max.Speed : 60RPM	Max.Speed : 60RPM	Max.Speed : 40RPM	Max.Speed : 40RPM	Max.Speed : 40RPM	Max.Speed : 40RPM	Max.Speed : 60RPM	Max.Speed : 60RPM	Max.Speed : 60RPM	Max.Speed : 60RPM	Max.Speed : 60RPM

Product Applications



Automotive industry



Surgical robot



Agricultural automation



Semiconductor



Biopharmaceutical



Collaborative robot



Humanoid robot



Live working robot



Company Website



WhatsApp



eRob I Series
Specification Sheet



YouTube

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