



RDrive by Rozum Robotics is an all-in-one servomotor solution. A geared frameless motor, 2 position encoders and a controller are all placed in a single housing. Just take a ready-made product and use it in your project. Java and Python are supported. It's never been that fun and easy to work with a servo.

	<b>RDrive 50</b>	<b>RDrive 60</b>	<b>RDrive 70</b>	<b>RDrive 85</b>	<b>RDrive 110</b>
<b>PERFORMANCE DATA</b>					
Rated Power, W	65	225	155	450	450
Rated Rotation Speed, rpm	55	55	30	40	20
Supply Voltage, V	48	48	48	48	48
RMS Current, A	1,6	3,1	5	8,8	9
Operating Temperature °C	0...+35	0...+35	0...+35	0...+35	0...+35
Rated Torque, Nm	11	39	49	108	216
Peak Torque, Nm	28	54	82	157	333
<b>MECHANICAL DATA</b>					
Gearmotor Inertia, kg/cm <sup>2</sup>	0,022	0,05	0,112	0,32	0,924
Static Friction, Nm	0,05	0,05	0,05	0,05	0,05
Weight, kg	0,8	1,15	0,915	2,47	3,9
IP Rating	IP21	IP21	IP21	IP21	IP21
<b>GEARHEAD DATA</b>					
Gearhead Type	Harmonic	Harmonic	Harmonic	Harmonic	Harmonic
Gearhead Ratio	100	100	100	100	100
Gearhead Backlash, arcmin	0,3	0,3	0,3	0,3	0,3
<b>DIMENSIONS</b>					
Length (L), mm	99,5	101,2	96	127,1	150
Max Diameter (D), mm	53	63	73	88	115
Hollow Shaft Diameter (d), mm	8	9	13	11	17
Interface API	CANopen C/C++/Java/Python				

## Applications:

- robots and drones
- model aircrafts
- conveyor belts
- sorting and assembly lines
- packing equipment
- solar batteries
- metal-cutting, molding and other industrial machines
- rotary antennas
- other mechanisms where you need to provide high-precision rotary motion

## Key Features:

- a compact hollow shaft design
- a built-in strain wave gearhead with an almost-zero backlash
- an integrated controller supporting CANopen communication
- two 19-bit absolute magnetic encoders
- Python/Java
- 35 000 hours service life
- 1-year warranty

## Supply Kit:

- Servomotor with an integrated controller, 2 magnetic encoders, a strain wave gear
- STEP model
- API reference
- User manual
- CANopen communication guide
- Servobox\*
- Low voltage equipment and electromagnetic compatibility certificate\*\*

\* - optional

\*\* - check, if it is available for your country



Average lead time - 2-8 weeks.

Custom modifications are available on request.

Worldwide supplies. Direct sales by the manufacturer or local distributor supply.

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