



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.

	RDrive 50	RDrive 60	RDrive 70	RDrive 85	RDrive 110
PERFORMANCE DATA					
Rated Power, W	65	225	155	450	680
Rated Rotation Speed, rpm	55	55	30	40	30
Supply Voltage, V	48	48	48	48	48
RMS Current, A	1,2	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
MECHANICAL DATA					
Gearmotor Inertia, kg/cm ²	0,02	0,049	0,112	0,263	0,924
Static Friction, Nm	0,05	0,05	0,05	0,05	0,05
Weight, kg	0,6	0,9	1,3	2,1	3,9
IP Rating	IP21	IP21	IP21	IP21	IP21
GEARHEAD DATA					
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
DIMENSIONS					
Length (L), mm	85	89	105	112	150
Max Diameter (D), mm	53	63	73	88	115
Hollow Shaft Diameter (d), mm	9	11	13	13	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 dealer supply.

Contact Email:

sales@rozum.com

US office:

INC 491 N Orinda Ct, Mountain House,
CA, 95391, United States
Tel. +1 650 618 0671

Europe office:

Rozum Robotics LLC
Olshevskogo Str., 20/11, office 21,
Minsk, Belarus
Tel. +375 33 376 04 60