



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 | 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 |
| MECHANICAL DATA | | | | | |
| Gearmotor Inertia, kg/cm ² | 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 | 0,55 | 0,89 | 0,915 | 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 | 88,1 | 90,5 | 96 | 112,5 | 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 distributor supply.

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