



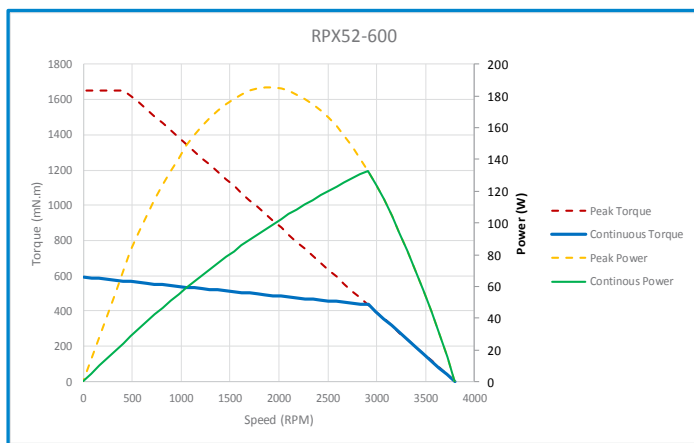
Size for size, some of the most powerful brushless motors and integrated gear motors on the planet!

The **RPX** is a powerful and highly dynamic small-frame brushless DC motor. With an advanced multi-pole, encapsulated core design, this compact motor series offers extremely high torque density at a very affordable price.

This innovative design provides great value to manufacturers, allowing for equipment downsizing and greater performance in a smaller footprint.

This ultimately leads to cost savings and improved profitability.

The RPX series is now available in five frame sizes (16mm, 22mm, 32mm, 40mm, 52mm) each with 12, 24 or 48 VDC windings, plus hall sensor or optional encoder feedback. This versatile motor series is powerful, durable, energy efficient and has a sleek form factor; ideal for embedded applications.



RPX52
1,650mNm Peak Torque with 435mNm of continuous torque and 130W of power at 2,900RPM



RPX16
Dime

The **LRPX** series carefully integrates the unique RPX series motor with a custom planetary gearbox. The result is a small form factor brushless DC gear motor that can produce incredibly high torque at low speeds, providing powerful, efficient and smooth operation with low noise!

Typical small-frame BLDC motors have peak performance at very high RPMs. These speeds are simply too high to make efficient use of a gearbox, and even when a typical BLDC motor is paired with a custom high-rpm gearbox, usually there are noise and heat issues that make it prohibitive for a variety of applications. The LRPX design is optimized to perform with peak efficiency at more traditional motor speeds, offering significant advantages to customers, not only in torque output, but also in reliability and overall cost.

The LRPX series is now available in four frame sizes ranging from 16mm up to 40mm with a wide variety



LRPX Series

of gear ratios, providing up to 22.5Nm peak and 15Nm continuous torque!

The RPX and LRPX are ideal for a variety of markets and applications including: medical and laboratory equipment, industrial machinery, robotic systems and end-of-arm tooling, autonomous mobile robot traction systems, motor vehicle applications, transportation systems, aerospace and defense applications and much, much more!

Like all ElectroCraft products, the RPX and LRPX lineup is fully customizable to meet specific application requirements.

Need a drive to control your brushless motor? ElectroCraft also offers high-performance drives that are perfect for the RPX and LRPX series, including the CompletePower™ Plus Universal Drive or the PRO Series programmable drive.

ElectroCraft Target Markets & Applications

MEDICAL

- Pumps
(peristaltic, metering, syringe, infusion)
- Mobility Chairs
- Surgical Robots
- Imaging Systems
- Advanced Prosthetics

LAB AUTOMATION

- Pumps
(microfluidic, dispensing, injection)
- Sample Handling
- Diagnostics Machines

MOBILE PLATFORMS

- Traction control
(AGV's and Autonomous Robots)

ROBOTICS

- Arm/Joint Movement
- Grippers & End of Arm Tooling

MOTOR VEHICLES

- Power seating
- Aftermarket/Performance Fuel Pumps
- Emissions Control Systems
- Drive-by-Wire Control
- Autonomous Steering / Drive Assist Systems

TRANSPORTATION

- Marine Valve Actuators
- Radar & Guidance Systems
- Steering and Throttle Controls
- Gyro Stabilization Systems

MILITARY / DEFENSE

- Military Robots
- Unmanned Vehicles
- Turret Positioning Systems
- Radar Systems

AGRICULTURE

- Precision Planting Equipment
- Irrigation and Fertilization Equipment
- Agricultural Robots and UAVs
- Lawn Care Equipment

INDUSTRIAL MACHINERY

- Semiconductor Processing
- Electronic Device Manufacturing
- Fluid Dispensing & Pumping Systems
- Printing & Converting Machines
- Material Handling & Conveyor Systems
- 3D Printing Machines

HVAC SYSTEMS

- Valve & Damper Actuators
- Pumps
- Fans



Your Genius. Our Drive.

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