



Reliable

The RMP 220 leverages all of the redundant safety features of the Segway® Personal Transporter (PT). The motor controllers and brushless DC drive motors are each fully redundant, allowing component failures to be handled smoothly and safely.

Three lithium-ion batteries provide a run time of ~8 hours of operation or ~24 hours in standby. To charge the batteries, simply connect the charger cable.

Balancing

The RMP 220 operates just like the Segway PT, leaning in the direction of travel. It can be quick and nimble or slow and methodical, to suit your specific application. With just two wheels on the ground, it can turn around anywhere.

Powerful

With a maximum velocity of 8.0 m/s (18 mph) and a peak torque of 100 N-m per wheel, the RMP 220 is capable of moving incredibly fast. This means there's plenty of head room to perform flawlessly with payloads up to 45 kg (100 lbs) balancing and 90 kg (200 lbs) non-balancing.

Controlled

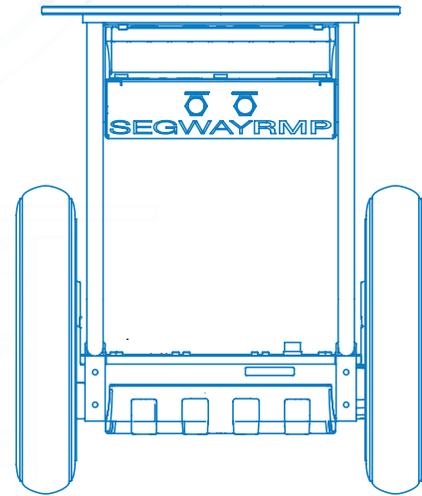
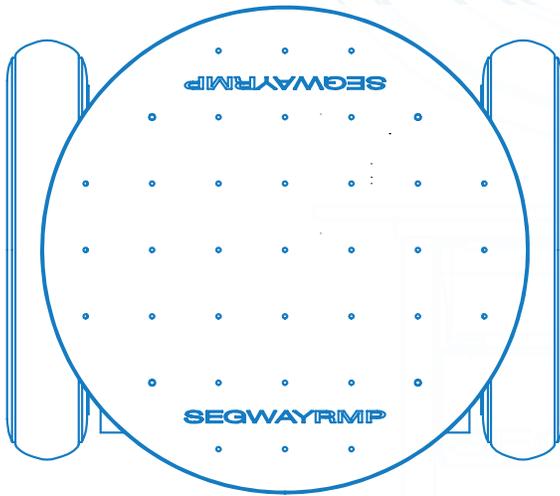
All this power is under your control via commands sent over Ethernet, USB or CAN bus. The RMP acts as a single unit as it receives commands, performs the requested actions and provides feedback at up to 100 Hz.

The performance characteristics and amount of feedback are configurable. You can control how the RMP responds to commands to ensure movement is smooth and controlled. In addition, you can limit the amount of feedback provided so you only see the variables that matter to you.

One Interface, Many Mobility Platforms

Segway's entire line of RMPs share a single communications structure. This makes it easy to change mobility platforms, even at a late stage in development. If your requirements change you don't have to worry about rewriting your control software; simply swap one RMP for another and keep going.

- Built on industry leading Segway® balancing technology
- Long range platform. Ultra-small design turns in its own footprint
- Ability to function as passively stable with higher payload capabilities over the RMP 210
- Redundant 6 axis Inertial Measurement Unit (IMU)
- Failover redundancy for continued operation and safe shut down



RMP 220 SPECS

OVERALL DIMENSIONS	664 x 637 x 761 mm	BATTERY CHEMISTRY	LiFePO ₄	MAX SPEED	8 m/s
PLATFORM WEIGHT	73 kg (161 lb)	RUN TIME	up to 24 h	MAX SLOPE	10° (Non-balancing) 5° (Balancing)
CLEARANCE	93 mm (3.7 in)	CHARGE TIME	2-3 h	PEAK TORQUE (per wheel)	100 N-m
MAX PAYLOAD	90 kg (200 lb)	PROPULSION BATTERY CAPACITY	760 Wh	MAX RANGE	50 km (30 mi)
COMMUNICATION	Ethernet, CAN, USB	AUXILIARY BATTERY CAPACITY	380 Wh	INGRESS PROTECTION	IP66