

440 FLEX OMNI



Reliable

The RMP 440 Flex Omni 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.

Five 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.

Omni-Directional

The RMP 440 Flex Omni seems to float across the ground. Its four Mecanum wheels allow it to move in any direction without needing to turn — and it can turn in place just as easily as it can drive sideways. It's ideal for applications where payload orientation is the primary concern.

Whether you're transporting heavy payloads, maneuvering sensors or operating robotic manipulators, the RMP 440 Flex Omni can quickly and efficiently orient your equipment to meet your requirements.

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. There's plenty of head room to perform flawlessly with payloads up to 450 kg (1000 lbs).

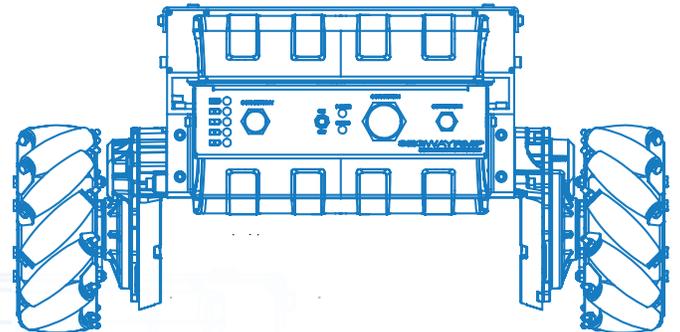
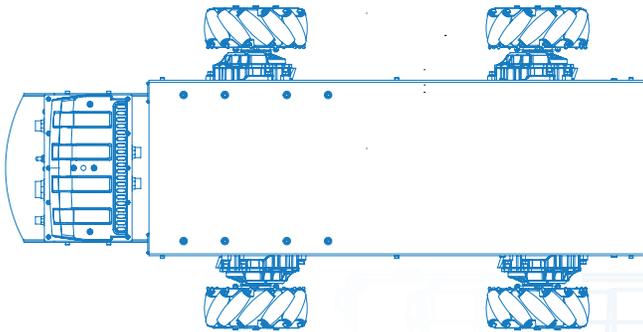
Controlled

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.

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.

- Roll degree of freedom allows operation over cracks, depressions or bumps of up to 1.5" without losing 4 points of contact
- Mecanum wheels allow for motion in any planar direction
- Rigid wheels allow for extremely high payload
- Easily configurable length/width
- Highly efficient propulsion system allows for extended runtime
- Ideal for equipment or inventory transport or warehouse applications



RMP 440 FLEX OMNI SPECS

OVERALL DIMENSIONS	1575 x 789 x 397 mm	BATTERY CHEMISTRY	LiFePO ₄	MAX SPEED	2.2 m/s
PLATFORM WEIGHT	128 kg (283 lb)	RUN TIME	up to 24 h	MAX SLOPE	5°
CLEARANCE	144 mm (5.7 in)	CHARGE TIME	2-3 h	PEAK TORQUE (per wheel)	100 N-m
MAX PAYLOAD	450 kg (1000 lb)	PROPULSION BATTERY CAPACITY	1520 Wh	MAX RANGE	13 km (8.08 mi)
COMMUNICATION	Ethernet, CAN, USB	AUXILIARY BATTERY CAPACITY	380 Wh	INGRESS PROTECTION	IP66