

Segway® RMP 400/50 Omni Specifications



RMP 400/50 OMNI

TOP SPEED	6 mph (10 km/h) 8.8 ft/s (2.8 m/s)	2 mph (3 km/h) 2.9 ft/s (0.8 m/s)
RANGE	4-6 mi (6-10 km)	2-3 mi (5-5 km)
FOOTPRINT	36 x 38 in (91 x 99 cm)	30 x 26 in (76 x 66 cm)
TURNING RADIUS	zero degrees	zero degrees
TURNING ENVELOPE	46 in (117 cm)	38 in (97 cm)
TOTAL WEIGHT	240 lbs (109 kg)	150 lbs (68 kg)
DRIVE BATTERIES	Four Li-Ion Packs	Two NiMH Packs
MAX. RUN TIME	~8 hrs	~8 hrs
MAX. PAYLOAD	400 lbs (181 kg)	150 lbs (68 kg)
RECHARGE TIME*	~8 hrs (from empty)	~8 hrs (from empty)
CONTROL MODE	4WD Tractor Mode (Omni-directional)	4WD Tractor Mode (Omni-directional)
DATA UPDATE RATE	100 Hz	100 Hz
OPERATING TEMP. RANGE	14°F to 122°F (-10°C to 50°C)	14°F to 122°F (-10°C to 50°C)

The Segway RMP Omni models employ Mecanum wheels, allowing them to move sideways without turning for enhanced mobility and positioning in tight spaces.

- The RMP 50 Omni has a low profile, small footprint, and rugged components that make it a solid platform for developing a holonomic robot.
- The RMP 400 Omni is a more powerful platform powered by four lithium-ion battery packs that offers higher speed, longer range, and more payload capacity.

PAYLOAD POWER OPTION

The Segway Payload Power Option provides a simple solution for powering devices such as sensors, embedded PCs, a laptop PC, or even some manipulators. Power is converted from a standard Segway RMP battery pack allowing for independent payload power channels. This integrated system is further enhanced by the ability to charge the payload battery via the RMP's internal charging system.

	RMP 400 OMNI PAYLOAD POWER OPTION	RMP 50 OMNI PAYLOAD POWER OPTION
# OF OUTPUT CHANNELS	2	2 (Single Payload Power) 4 (Dual Payload Power)
POSSIBLE OUTPUT VOLTAGES	5, 12, 24, 72 VDC	5, 12, 24, 60 VDC
LOW VOLTAGE ALARM	YES	n/a
OUTPUT CONNECTION TYPE	bus bar	standard binding posts
CHARGING SYSTEM	external (modified off-board) charger	onboard and integrated with RMP

- Payload Power is independent and does not affect run time of the RMP platform
- Output is switched allowing for independent control of payload and RMP platform

Visit <http://rmp.segway.com> to learn more and see how RMP 400s are being used for robotics research and development.

To request a quote go to <http://rmp.segway.com> or email rmp@segway.com

* Built-in charger accepts 100-240 VAC, 50-60 Hz.