



Electric Wheels Compared

Specs for various self-balancing eWheels & electric foot scooters

February 2015

It's here! Thanks largely to Shane Chen of Inventist, who invented the Solowheel & Hovertrax, the personal mobility revolution has arrived in the form of highly efficient, sustainable, non-polluting, lightweight, personal transport tools. Give the car 'the boot', tell the taxi to 'hit the road', tell the scooter to 'scoot' & save up for an eWheel to help save the planet.

"We need to do everything we can to get people out of cars" (de Jong, R. (2008). Comment in Lester R. Brown, Mobilizing to Save Civilization, New York: W. W. Norton & Company)

Electric Wheels (eWheels) (electric self-balancing "unicycles")												Electric Foot Scooters (suggested name)		
	Solowheel (classic)	Solowheel Orbit	Solowheel extreme	IPS F400	Airwheel Q5	Airwheel x 8	Firewheel F779	The Rockwheel	IPS111	Ninebot 1	Freeman A4	Esway N1	Chic-smart	Hovertrax
														
Weight	11 kg	4 kg	12 kg	12/13.5 kg	11.5 kg	11.1 kg	14.5 kg	8.6 kg (30.48 cm tire – 12 inches) 8.9 kg (40.64 cm tire – 16 inches)	12 kg	12.8 kg	9.8 kg	10 kg	10 kg	6.8 kgs
Speed	16 kph (10 mph)	16 kph	16 kph	16 kph	18 kph	18 kph	22 kph	25 + kph	16/18 kph	20 kph	18 kph	10 kph	10 kph	8 kph
Range	Approx. 16 km (10 miles)	15 km	25 km	40 km	18-23 km	18-23 km	100 km (60 miles)	30+ km	40 km	10-30 km	20 km	20 km	15-20 km	15 km
Charge Time	45 minutes to 1,5 hours (1 hour average)	1 hour (standard) 30 minutes (fast)	2 hours (standard) 1 hour (fast)	4-5 hours	2 hours	1.5 hours - 2 hours	4 hours	2,5 hours	Under 2 hours	1-2 hours (standard) 30 minutes to 1 hour (with an adaptor)	1 hour	2-3 hours	1-2 hours	1 hour (standard) 30 minutes (fast)
Size	43.2x48.3 x20.3 cm =42 357cm ³ (not the actual volume) (tire 40.64 cm - 16 inches)	45x47x18 cm =38070 cm ³ (tire 45 cm)	48x52x14 cm =34944 cm ³ (tire 45 cm)	41.5x14.4x 49.8cm =29760 cm ³ (tire 40.7 cm)	53x37.3x1 8.5 cm =36572 cm ³ (tire 36 cm)	49.7x45x 16.8 cm =37573 cm ³ (tire 42 cm)	48x18x46 cm =39744 cm ³ (tire 40.64 cm)	43x35x20 cm =30100 cm ³ (tire 30.48 cm) 51x41x18 cm =37638 cm ³ (tire 40.64 cm)	41.5x14.4x 49.8 cm =29760 cm ³ (tire 40.7 cm)	47.5x45.3x 17.5 cm =37655 cm ³ (tire 40.6 cm)	45x38.5x 16 cm =27720 cm ³ (tire 36 cm)	58x19x18 cm =19836 cm ³ (tires 17 cm)	64.6x25.4x 25 cm =41021 cm ³ (tires 17 cm)	52x16x17 cm =14144 cm ³ (tires 16 cm)
Cost (subject to change)	\$2000 (US Dollars)	\$2,595	\$2,295	\$885	\$599.90	\$619.90	\$1399	\$979	About \$1000	\$852	\$399.90	\$840.99	\$1,821.62 \$769.90	\$960.24 \$995
Maximum Incline (Figures vary depending on rider weight)	15° (degrees)	30°	30°	15°/20°	25°	15°	20°	30°	15°	15°	15°/25°	15°	15°	5°/12°

Maximum load	99 kg	115 kg	130 kg	120 kg	120 kg	120 kg	120 kg	120 kg	120 kg	120 kg	120 kg	100 kg	100 kg	90 kg
Safety features	Speed control.	speed control +Turning support technology .	Speed control + Turning support technology + LED Taillights.	?	More stable + tilt protection + speed control+ low battery protection + LED lights.	Tilt protection + speed control + low battery protection.	Headlights + taillights + brake lights + speed control & battery protection in form of voice warning + tilt protection.	Tilt protection.	?	Lights + tilt protection +speed control + low battery protection.	Small LED Lights + tilt protection + speed control + low battery protection.	<i>Lights + easy to learn + stable.</i>	<i>Lights + easy to learn + stable.</i>	<i>Slower so safer + easy to learn + stable.</i>
Extra perks	Great customer support from the Inventist team.	Great customer support from the Inventist team + mobile app + Bluetooth interface.	Great customer support from the Inventist team + Mobile app + Bluetooth interface + waterproof + double shell (more durable).	?	Easier to learn	?	Accurate power display.	?	?	Ninebot app for smartphone + fixable decorative lights + accessories.	?	?	?	<i>Great customer support from the Inventist team + mobile app.</i>
Extra info	The original design by Shane Chen of Inventist. Tried and tested, reliable and very high quality.	From Inventist. One of the lightest electric mobility devices in the world. Pedals do not fold inwards.	From Inventist.				(There are other lighter firewheels but they have less range)	Loud motor (a mixed blessing: distracting perhaps, but sometimes also safer).		Handle folds in.		<i>Not suitable for rough terrain.</i>	<i>Not suitable for rough terrain.</i>	<i>Original design by Shane Chen of Inventist. One of the smallest electric mobility devices in the world. Not suitable for rough terrain.</i>

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