
SmartDrive with PushTracker E2
Seamless power
assist experience
permobil

There are parts of life that I scaled down because they demanded too much energy, parts that I realise that I can actually do again with the help of SmartDrive.

— Thomas Fogdö
SmartDrive user

Energy to do more

SmartDrive empowers your active lifestyle. It supplements the energy that you would normally have to use. With one button, tap or gesture, get the extra boost when and where you need it.

On-Demand Power Assist

Pushing a manual wheelchair can put stress on shoulders and lead to serious issues in the future. SmartDrive is a lightweight power assist for manual wheelchairs that helps users to go up hills and ramps, and cover extended distances without having to push. It offers a range of controls and activity tracking technology to deliver a seamless power assist experience that may reduce repetitive stress*.

Paired with the PushTracker E2 and SwitchControl, SmartDrive offers added flexibility, convenience and control options to empower your active lifestyle.

Touchscreen technology makes the PushTracker more accessible than ever

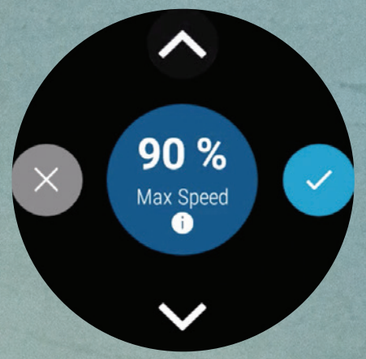
8x more reliable Bluetooth® connection

PushTracker E2

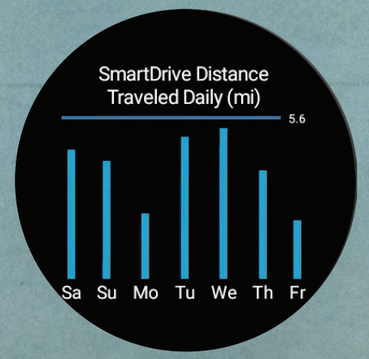
Developed with connectivity in mind, the PushTracker E2 has been rigorously tested and proven to be consistently reliable and extremely durable. The PushTracker E2 makes using your SmartDrive easier than ever. With gesture-activated controls and activity tracking technology, you can start your SmartDrive with a simple tap of your hand—no pushing or reaching necessary.

Quickly change all performance settings

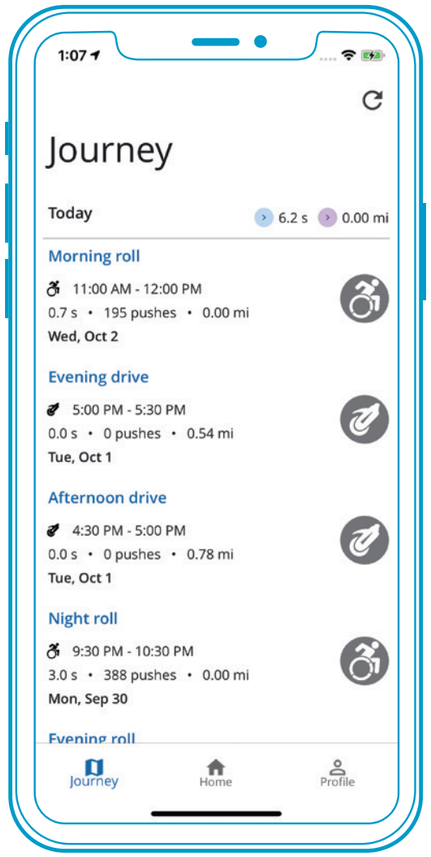
Turn power assist on and off



Easily change speed settings



Review system usage



PushTracker App

SmartDrive advances daily mobility for the manual wheelchair user. The PushTracker app produces and delivers activity statistics designed to promote optimal mobility for the manual wheelchair user. Track distance, pushes and coast time in order to increase coast time and decrease pushes with remaining or increased distance.

ANDROID APP ON Google Play

Available on the App Store

SwitchControl

SwitchControl gives users another programmable option for controlling their SmartDrive. With the push of a button, SmartDrive can be engaged for a momentary burst of power or activated in latched mode for consistent power over extended distances. This empowers a more diverse group of people to experience SmartDrive with increased confidence. It also works as a shut off switch while the motor is running. When touched, the motor will disengage and the user stops by grabbing the wheels.

Power your push, your way

SmartDrive gives manual wheelchair users more control over their power assist experience than ever before. See below how our variety of new/updated control solutions can meet the individual needs of users and support their mobility goals.

	Discovery	Stamina	Performance	Expert
Products available				
Best for	New & active users	Caregiver, pediatric & geriatric users	Active users without need of wearable technology	Tech savvy & super active users
Smart phone app	O	*intial setup only	O	O
Activity training	O		O	O
On-demand power assist		O	O	O
Energy/shoulder preservation		O	O	O
Easy on/off buttons		O	O	O
Hand gesture activation			O	O
Smart device integration				O

PushTracker PushTracker E2 PushTracker App SmartDrive SwitchControl

* ** Sawatzky, B., Mortenson, W. B., & Wong, S. (2017). Learning to use a rear-mounted power assist for manual wheelchairs. Disabil Rehabil Assist Technol, 1-5.

Kloosterman, M. G., Eising, H., Schaake, L., Buurke, J. H., & Rietman, J. S. (2012). Comparison of shoulder load during power-assisted and purely hand-rim wheelchair propulsion. Clin Biomech (Bristol, Avon), 27(5), 428-435.

Nash, M. S., Koppens, D., van Haaren, M., Sherman, A. L., Lippiatt, J. P., & Lewis, J. E. (2008). Power-Assisted Wheels Ease Energy Costs and Perceptual Responses to Wheelchair Propulsion in Persons With Shoulder Pain and Spinal Cord Injury. Archives of Physical Medicine and Rehabilitation, 89(11), 2080-2085.

SmartDrive Specifications

Dimensions	Length: 389 mm Width: 141 mm Height: 242 mm
Product weight	5.7 kg Drive Unit
User weight	14 to 150 kg
Driving range*	Up to 19.8 km Level/No Resistance
Motor power	250 W Brushless DC
Maximum speed	6 km/h
Operating temp	-25°C to 50°C
Chair type compatibility	Rigid, Folding, Tilt-In Space, One-Arm Drive and others
Drive wheel diameter	501, 540, 559, 590 mm
Warranty	2-Year Limited Warranty
Bluetooth LE	FCC ID QOQBT113 IC ID 5123A-BGTBLE113
Local reimbursement	Code

**Performance measurements will vary based on user and chair characteristics, driving and battery conditions.*

The SmartDrive has been tested and conforms to all applicable requirements of ANSI/RESNA Standards for Wheelchairs - Volume 1 and Volume 2 and EN 12184.

NOTE: Wheelchair specifications provided by its manufacturer may be slightly affected by the addition of the SmartDrive.

Please refer to your owner's manual for more detailed operation and care instructions.

PushTracker E2 Specifications

Dimensions	46.9 x 52.2 x 12.9 mm
Operating system	Wear OS by Google™
Phone compatibility	Android™, iPhone™
Nominal operating voltage	3.9 V
Electric charge	415 mA-h
Wireless operating band	Bluetooth / BLE 2.4 GHz (2.402 to 2.480 GHz) WiFi 802.11 b/g/n 2.4 GHz (2.412 to 2.472 GHz) GPS / GLONASS / Beidou 1575 MHz (1.559 to 1.610 GHz)
Bluetooth LE	FCC ID 2AP42-WG12026 IC ID 24006-WG12026
Water resistance	5 ATM (Swim-ready, up to 50 m)
Band width	22 mm
Band material	Silicone (interchangeable) – Latex-free and completely biocompatible
Case material	Polycarbonate
Display	AMOLED (400 x 400 pixels)

All figures shown are for illustration purposes only and actual products may vary. Wear OS by Google, iPhone, Android, Bluetooth and Google Play are trademarks or registered trademarks of their respective owners.