

# SMOEV

by **alber**



**Contact us**  
to arrange a demo

**ASTRIS  
PME**

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## Product advantages

The SMOOV one is an electric power assist drive unit for active wheelchairs which significantly increases the driver's mobility and flexibility.

## The key benefits at a glance

- Discreet, unobtrusive design
- Swivelling drive wheel for dynamic driving
- Extremely swift, turns itself on the spot
- Efficient, high-performance drive unit
- Tilted driving is also possible with the SMOOV one
- Intuitive docking and undocking of the drive unit and control unit
- Easy to use thanks to the ergonomic, wireless control unit
- Individual adjustment and extension of the scope of functions possible via the SMOOV Mobility App
- Can be mounted to most active rigid-frame and folding wheelchairs

## Wheelchair mounting

The SMOOV one was designed to be combined with rigid-frame wheelchairs. For this purpose, a small bracket must be fitted to the wheelchair crossbar. This is available for all current tube diameters. To attach the SMOOV one to folding wheelchairs, an optional adapter axle is required. This is fitted between the stub axles. The SMOOV one can be combined with folding wheelchairs with a wheel camber of up to 2°.

## Compatibility check

Determine the following to ensure that the existing wheelchair can be combined with the SMOOV one: wheelchair manufacturer, exact model name, seat width and seat height in the case of rigid-frame wheelchairs. In the case of folding wheelchairs, the measure between the stub axles (measured internally) is necessary.

Contact our customer service with these details by calling 0800 9096-999 (toll-free) or by e-mail at [info@alber.de](mailto:info@alber.de). Alternatively, you can check yourself using our Dealer Information Pool ([www.dip.alber.de](http://www.dip.alber.de)).

## Our quality claim – Your safety

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**Seal of approval  
and testing institute**



TÜV Süd, Hanover

**CE conformity**



Complies with the EU  
Medical Device Directive 93/42/EEC

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## Drive unit



## Control unit





#### Drive unit

- Unobtrusive, high-quality design
- Robust, rustproof housing and rustproof fork
- Integrated lithium ion battery pack for a range up to 20 km
- High-performance drive for a maximum speed of up to 6 km/h, optionally of up to 6 km/h or 10 km/h with the upgrade via the Mobility app
- On/Off button and remaining capacity and operating mode display
- Ergonomic carrying handle
- Magnetic charger socket
- USB-C socket to charge the control unit or a smartphone



#### Control unit

- Large, ergonomic speed selection and On/Off knob
- Integrated LED display for operating status and remaining capacity of drive unit and control unit
- Integrated lithium ion battery cell for an operating time of approx. 20 hours



#### Battery charger

- Handy, compact charger
- Automatic charging and switch-off mechanism
- Multi-range charger 100-240 V, 50-60 Hz
- Charging time of an empty battery approx. 6 hours



#### Charging cable

- To charge the control unit from the drive unit
- USB-C to USB-C cable
- Length approx. 0.5 m



### Mobility app

- The smart extension for the SMOOV one
- For smartphones running on the Android or iOS operating system
- Download from Google Play or App Store

### An overview of the free functions

- Cockpit: shows the remaining capacity, speed, range and drive modes
- Tour: to record, save and manage trips
- Settings: for drive unit, control unit and app adjustments
- Diagnosis: information on warnings and fault indications
- Info: details and further information on the product and app

### Optional functions for upgrading the SMOOV one

- Speed: this function increases the maximum speed from 6 km/h to 10 km/h
- Navigation: this function enables start/destination navigation with wheelchair accessible routing, speech output and offline map material
- Performance: this function enables the speed to be set, regardless of the turning angle of the drive wheel
- AutoSpeed: this function enables acceleration to a previously defined speed by a turn on the control unit



SMOOV Mobility app:  
available in the Google Playstore  
and App Store.



## BRACKET MOUNTING

### Wheelchair installation kit

- Mechanical connection of the SMOOV one to the manual active wheelchair (please include in order if not present)
- Can be mounted on most active wheelchairs with a fixed crossbar/camber tube (rigid-frame wheelchairs)
- Consists of a crossbar/camber tube bracket set and control unit bracket set

### Adapter axle

- Optional axle to combine SMOOV one with most folding wheelchairs
- The adapter axle is fitted between the stub axles; only compatible with wheelchairs with a wheel camber of 0° to 2°
- The length of the axle depends on the measure of the stub axle from left to right, measured internally
- The adapter axle can be easily fitted and removed so that the wheelchair can still be folded



Crossbar/camber  
tube bracket set



Control unit  
bracket set



Adapter axle

## General\*

Weight of the person	Max. 140 kg
Permissible total weight	Max. 170 kg
Climbing capability	Up to 16 %

## Drive unit

Motor power rating	250 W
Max. motor power	450 W
Operating voltage	36 V
Speed	0–6 km/h (optionally up to 10 km/h)

## Battery pack (drive unit)

Battery cells	36 V; 6.2 Ah Lithium ion cells, leakproof and maintenance-free 24 months guarantee
Battery power	224 Wh Safe for air transportation according to IATA
Range	Up to 20 km, depending on the ground surface, the weight of the person, temperature and terrain

## Battery charger

Input voltage	100–240 V
Frequency range	50–60 Hz
Output voltage	48 V (DC)
Charging current	1 A
Charging time	Approx. 6 hours

## Weight

Drive unit	7.2 kg
Control unit	250 g
Battery charger	500 g
Control unit bracket	Approx. 100 g**
Crossbar/camber tube bracket	Approx. 230 g**



EC compliant according to the  
Medical Device Directive 93/42/EEC