



Press release

Alber GmbH Presents New Motor Concept

The e-motion M25: a powerful mobility solution

Albstadt, July 2018 – With the latest generation of the proven e-motion add-on drive for manual wheelchairs, Alber will present an innovative solution for even greater mobility with therapeutic benefits at the 2018 Rehacare. The design features an all new motor concept that makes the new e-motion M25 both more compact and powerful. With each wheel weighing in at only 7.8 kg, the e-motion is one of the lightest add-on drives on the market. The new system will be available starting in October 2018.

The new e-motion M25 wheelchair drive unit is characterised by its motor power and light weight in comparison to the previous model. It is one of the few active add-on drives that can be individually adapted to the needs and driving behaviour of any wheelchair driver. The benefits are obvious: with the e-motion, wheelchair user can increase their range and remain active, while going easy on the muscles and joints. The system responds discreetly, without making a single noise.

Slopes and heavier weights of up to 150 kg are no problem – the drive unit continues to work at full power. Thanks to state-of-the-art lithium ion battery technology, users don't have to worry about their range. At the same time, the maximum support speed is 8.5 km/h. The system is compatible with all conventional wheelchair models and can be retrofitted at any time.

Intelligent support

For simple handling, the e-motion M25 comes with four preset driving profiles, which users can select using a free smartphone app. The wheelchair user can also choose between two assistance levels for indoors and outdoors for each driving profile. To safely master slopes, the M25 features a patented rollback delay that keeps the wheelchair in place, allowing users to comfortably change their grip before continuing on.



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Another integral component of the smartphone app and true highlight is the cruise mode, which keeps a constant, set speed with a single push. The push rim on the e-motion makes for intuitive steering and braking. The e-motion smartphone app also provides wheelchair users with a wide range of useful information while driving: from battery charge level, to the current speed and mileage, to fault indications in plain text with concrete recommendations for action.

In the e-motion smartphone app, specialist dealers have access to a protected area, where they can set a customised driving behavior. Thanks to the intuitive graphical user interface, it only takes a few minutes to tailor the driving characteristics of the e-motion to any wheelchair driver or clinical picture.

The compact ECS remote control makes using the new e-motion even easier. Besides the possibility to conveniently turn the e-motion on and off while seated, the ECS remote control also indicates the battery level of the e-motion wheels and allows users to choose between assistance levels as well as to activate the rollback delay. In addition, the ECS remote control features a special “learning mode” that makes it especially easy for inexperienced users to learn how to control their e-motion.

New motor and sensitive sensors

For the new generation of the e-motion, the specialists at Alber have realised an all new motor featuring ultra-efficient neodymium magnets, among others. The stators are wound on custom-developed machines in a fully automatic process, ruling out fluctuations in production. The 36-volt technology enables efficiencies of up to 80% and the integrated lithium ion batteries make ranges of up to 25 km possible under ideal conditions. Optimised steel and copper ratios make the drive unit a true lightweight – in fact, one of the lightest add-on drives on the market, with each wheel weighing in at only 7.8 kg.

Precision driving sensors in the e-motion are just one more feature of the e-motion unit. So that both physically weak individuals with limited hand function and strong wheelchair drivers can experience the same level of



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comfort

with the e-motion M25, the sensitivity of the sensors on the drive wheel push rim can be set to seven different levels. Thanks to the easy-to-read scale, all it takes is a flick of the wrist to compensate for any differences in strength between the left and right sides of the body.

With minimum play and a subtle design made of fibreglass-reinforced plastic, the push rim itself is perfectly connected to the wheel hub. The wheels feature 24 spokes instead of the previous 36, saving additional weight. The e-motion is available in three wheel sizes: in addition to the existing 22 inch and 24 inch versions, a variant is now available in 26 inches.

Visit Alber GmbH at stand E 47, hall 6, at the Rehacare in Düsseldorf from 26 to 28 September 2018 to learn more about the new e-motion M25.