

# **SD**MotionAssist

*Two speed assistive power for your  
manual wheelchair*



**Steering Developments Ltd**



**Steering Developments Limited - 01442 212918**

UK manufacturers of powered wheels since 1999

[www.sdmotion.co.uk](http://www.sdmotion.co.uk)

# SDMotionAssist

*Two speed assistive power for your manual wheelchair*

Wherever you are, the **SDMotionAssist** delivers the freedom of easier movement, leaving you with more energy for the things you enjoy!

Each push on the hand rim is detected by electronic sensors and converted to just the right level of power assistance from the motors. Coupled with its lightweight, compact design, which can be fitted to a wide range of manual chairs and its long distance range, the **SDMotionAssist** offers you a practical and flexible solution for maximum independence. Now with two speeds, even slopes can be managed without having to ask for help!



Easily switch between manual and powered status



Quick release wheels make transportation easy

For more information or to arrange a **FREE** no obligation home demonstration call us now!

**01442 212918**



- Speed: Maximum 8.5km/hr
- Range: 18km / 11.3 miles (with Ni-MH battery)
- Range: 25km / 16 miles (with Li-ion battery)
- System weight with Ni-MH battery approx 17.4kg (excluding wheelchair)
- System weight with Li-ion battery approx 18.1kg (excluding wheelchair)
- Weight without battery approx 14.5kg



"I am a big fan of the SD Motion Assist wheelchair system which I came across 15 years ago and have been using ever since. It easily navigates rough ground and grass, and the wheels can be taken off and on to transfer if necessary. This system has helped me 100% with life from a wheelchair" - Sally



### Programmable to Suit Customer's Needs

- Dealer can program system to suit individual's strengths
- Delivers the power required to suit the individual



### Wheel Hub Motor

- Brushless motors
- Highly efficient, developed to be compatible with a wide range of wheelchairs
- Built-in braking function controls the wheelchair speed safely and effectively down slopes



### Battery Pack

- Ni-MH battery has a range of 18km/11 miles
- Li-ion battery has a range of 25km/16 miles
- Carry handles make removing for charging or transporting easy
- Optional battery bag for under or behind seat (wheelchair dependant)



### Quick Release Wheels

- Quick release catches ensure the wheels can be simply removed for transporting
- Option to upgrade to black tyres or mountain bike tyres with Tannus inserts and 2" wide rims for use on various terrain



### Anti Tippers (optional)

- Prevents possible backward tipping and can be retracted when not required



### Left and Right Switches

- On/off switch - for easy switching between manual and powered status
- Mode switch – choice of power/effort

## SDMotionAssist COMBINATIONS

**WHEEL SIZE**  
24"

**MAXIMUM SPEED**  
8.5KM / HR

### BATTERY

NICKEL-METAL HYDRIDE:

WEIGHT 2.9KG, 24V X 6.7AH. 18KM (11.3 MILES)\*

LITHIUM-ION:

WEIGHT 3.6KG, 25V X 11.8AH. 25KM (16 MILES)\*

## SDMotionAssist TECHNICAL SPECIFICATIONS

### DRIVE SYSTEM

DIRECT REAR-WHEEL DRIVE

### WEIGHT

14.5KG (WITHOUT BATTERY)

### STEERING

LEFT AND RIGHT HAND RIM STEERING

### DRIVING WHEEL DIAMETER

24"

### INSTALLATION SYSTEM

DETACHABLE

### MOTOR

30 MINUTES RATED OUTPUT: 24V, 110W X2

### MANUAL / ELECTRIC MODE

SWITCHED BY HAND - PUSH BUTTON

### TRAVEL SPEED

MAX 8.5KM / HR FORWARD AND REVERSE

### MAXIMUM USER WEIGHT

130KG (INCLUDING RIDER, LUGGAGE AND FRAME)

### BATTERY CHARGER

POWER SUPPLY: AC100V TO 240V, 50/60HZ

CHARGING SYSTEM: FULLY AUTOMATIC CHARGING

CHARGING TIME: NI-MH - APPROX 2 TO 3 HOURS. LI-ION - APPROX 4.5 HOURS

### TYRES

GREY PNEUMATIC TYRES AS STANDARD. UPGRADE TO BLACK MARATHON OR OTHER TYRE TYPES

\*BASED ON 24" WHEELS, CONTINUOUS 5KM / HR SPEED ON A FLAT SURFACE, WITH FULLY CHARGED NEW BATTERY, USER WEIGHT 75KG.

## SDMotionAssist COMPONENTS (WITH NI-MH BATTERY)



## OPTIONAL LI-ION BATTERY



N.B. The actual products may differ in part from the pictures and/or description due to the possible specification changes for product improvement. Due to the colour reproducing limitation of printing, the product colours in this brochure may appear slightly different from actual colours.

### PRODUCT SAFETY PRECAUTIONS

- Please read the instruction manual carefully
- Practice in a spacious and safe area until you have enough confidence to operate the product
- Never use mobile phones or transceivers while in operation. If you must use these devices, park the wheelchair in a safe place and turn off the power switch
- Adhere to the safety labels indicating "Danger", "Warning" and "Caution" attached to the product to assure the safety applications



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