

User Manual

DaVinci Mobility

Beachster



Table of Contents

Introduction	3
Intended Use	3
Technical Description	3
Transportation	3
Product Description	4
Technical Specifications	5
Maintenance and Inspection	6
Cleaning	6
Safety Guidelines	7
Safe Operation	8
Transferring to and from the Chair	9
Tyres	9
Slopes & Gradients	9
Wheelchair Assistance	10
Tilting	10
Kerbs	10
Adjustment Procedures	11
Backrest Height	11
Seat Belt - <i>If fitted</i>	11
Anti-tippers - <i>If fitted</i>	11
Footrests	11
Brakes	12
Folding Backrest	12
Balance Adjustment	12
Push Handle Adjustment	13
Warranty	14

Introduction

Davinci Mobility Beachster User manual wheelchair and thank you for choosing our product. This latest model has been designed with specific practical user needs in mind. It combines solid, rugged construction, safety and performance. We are confident that it will prove a reliable companion on the beach as well as outdoor trails and paths.

This manual contains some useful tips and information on safety, operation and maintenance. Please read it carefully to ensure that you get maximum enjoyment and benefit from your new independence and mobility.

Whenever you require special advice and attention do not hesitate to contact your local Davinci dealer. He has all the equipment and know-how to provide an expert service and assistance on technical and clinical applications to suit your particular need.

Intended Use

The Beachster wheelchair is intended to assist and improve mobility for those individuals who are less able or have walking difficulties who wish to maintain their independence and freedom.

Your day to day activities will depend on your physical capabilities and your own specific circumstances. If in doubt seek medical advice first.

The information in this booklet provides a general guide on how to use your chair safely and correctly. Do not use the chair without reading this manual first.

Technical Description

The Davinci mobility Beachster wheelchair has a maximum carrying capacity of 120kg which must never be exceeded. It is classified as an 'Invalid Carriage' for outdoor use, on the beach, pavements, footpaths, pedestrian zones and areas free from motor traffic. Use on the road or highway is not allowed except for the purpose of crossing.

Transportation

We recommend that you do not sit on your wheelchair when in a vehicle, but transfer to a vehicle seat. A wheelchair secured in a vehicle will not provide the equivalent safety level and security as the vehicle's seating systems.

To assist you in storing the chair for transportation. First fold down the back rest (if fitted) and remove the rear wheels.

Product Description

The Davinci Mobility Beachster is a manually propelled wheelchair designed to Assist access to the beach where the terrain is suitable.

The Chair is suited to a wide range of users with limited or no use in their lower limbs. It is hand built using Aerospace grades 7020 Aluminium alloy and features:

1. Hight adjustable footrest
2. Hight adjustable backrest
3. Moveable rear axle
4. Rear beach wheels 24" x 4" wide
5. Front beach wheels 9" x 5" wide
6. Stainless steel fasteners
7. Side guards
8. Light weight breathable upholstery
9. Composite wheel locks

Suitability depends upon the degree and nature of disability and must be determined by a healthcare professional or Davinci representative through a client risk assessment.

Consideration must be given at the point of prescription to required usage and the capabilities of the user and the environment and terrain on which the product will be used.

The Beachster manufactured by Davinci mobility is CE marked as a Class1 Medical Device and complies with the Essential Requirements of the Medical Devices Directive 93/42/EEC By definition all wheelchairs are marked as medical devices where a "medical device" means an instrument, apparatus, appliance, material, or other article whether used alone or in combination, together with any software necessary for its proper application which

- (a) Is intended by the manufacturer to be used for human beings for purpose of:
 - 1 Diagnosis, prevention, monitoring, treatment or allivation
 - 2 Diagnosis, monitoring, treatment, allivation of/or compensation for an injury or handicap
 - 3 Investigation replacement or modification of the anatomy or of a physiological process or
 - 4 Control of conception: and
- (b) Does not achieve its principal intended action in or on the human body by pharmacological, immunological or metabolic means, even if it is assisted in its function by such means. * Definition take from the Medical Devices Directive 93/42/EEC

Technical Specifications

Beachster	Fixed castors	Combination
Seat Width in 2 cm steps	38 to 46cm	38 to 46 cm
Seat Depth in 2.5cm steps	36 to 46cm	36 to 46cm
Seat Height (front) in 1cm steps	46 to 52cm	50 cm
Backrest Height	25 to 46cm	25 to 46cm
Backrest Height (folded)	NA	NA
Footrest Length (min)	custom	custom
Footrest Length (max)	custom	custom
Armrest Height	21 cm	21 cm
Overall Length (with wheels)	107 cm	107 cm
Overall Length (without wheels)	80 cm	80 cm
Overall Width (across wheels)	74 cm	74 cm
Overall Width (with out wheels)	50 cm	50 cm
Overall Height (with back folded)	74 cm	74 cm
Chair Weight (Approximate depends on size and extras fitted)	12kg no wheels	12kg no wheel
	20kg complete	20kg complete
Maximum User Weight	120 kg	120 kg

Maintenance & Inspection

We recommend that your wheelchair is serviced by your local dealer every twelve months. It is in your best interests, not only to ensure your personal safety but also to ensure long life and reliability. Regular service will identify early damage and worn components avoiding unnecessary faults occurring.

Weekly check that:

- Manual brakes do not rub the tyres and secure the wheel when locked
- Castor bolts are tight and all fasteners are secure
- Arms operate and lock securely in front of rear sockets
- The drive wheels axles are secure and there is no excessive side movement or binding when spun
- Tyres do not show excessive wear or damage
- Castors for proper tension, i.e. spinning castors should come to gradual stop

Monthly check that:

- Tyres are not excessively worn
- Handrims do not have sharp edges or any abrasion
- The chair rolls straight (no excessive drag or pull to one side)
- Pivot points are free of wear or looseness
- Seat and backrest upholstery is not for ripped or sagging
- Frames are not worn or bent

Cleaning

Paintwork and plastic mouldings can be cleaned with a damp soft cloth of warm soapy water. Do not use any harsh abrasive cleaners, bleach base fluids or solvents.

Seat and back upholstery can be cleaned with a general purpose upholstery cleaner or sponged with warm soapy water.

CAUTION:

When your wheelchair has been in salt water, it is important that it is hosed down with clean fresh water to remove all traces of salt water.

Safety Guidelines

- Do not use on the road, except when crossing between pavements.
When crossing the carriageway of a public road always take extra care and observe the Highway code
- Do not ride over deep, soft terrain (soft dirt, loose gravel, deep grass)
- Do not attempt to mount a kerb without assistance
- Do not carry passengers
- We recommend that you do not sit on your wheelchair when in a vehicle, but transfer to a vehicle seat
- Always engage a slow speed when going down gradients
- Do not ride in reverse down a slope or kerb
- Always keep your feet on the footplate when moving
- Do not stand on the footplate when getting in or out of the chair
- We recommend the use of safety belt
- Always keep your pneumatic tyres to the correct pressures
- Do not use parts, accessories or adapters other than those authorised by Davinci Mobility

Keep the wheelchair away from children. It is not intended to be used as a toy

The manual parking brakes are not designed for slowing-down.

Safe Operation

When using indoors beware of narrow doors, steps, high surfaces, protruding wall fittings and everyday household items such as children's toys, electrical appliances etc. Take extra care in kitchen environments.

To ensure stability and safe control you must maintain proper balance at all times. The wheelchair is designed to remain stable during normal use as long as you do not move your centre of gravity outside the normal seating position.

When reaching/bending forward do not lean your body out of the wheelchair further than the length of the seat. Do not attempt to reach objects by sliding forwards to the edge of the seat.

When reaching/bending backwards do not reach any further than your arm will extend without changing your seating position.

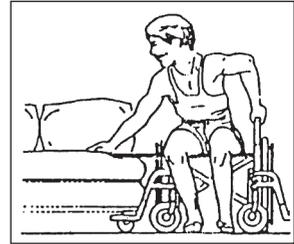
Never attempt to use an escalator or stairway, always use a lift.

Occasionally check that the adjustments of the footrests are secure and are set in the most comfortable position for use.



Transferring to and from the Chair

Circumstances and individual needs will vary from person to person, but if there are difficulties we advise you to consult your therapeutic advisor who will help you to develop your skill for appropriate transfer method that suits you. During transfer always make sure that the brakes are in a locked position and the wheelchair is manoeuvred as close as possible to the transfer seat.



Tyres

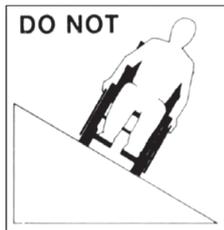
Regularly check the condition of front & rear tyres for wear and tear. Contact your supplier for replacements.

If you have pneumatic tyres fitted, the pressure indicated on the side of the tyre wall should not be exceeded.

Slopes and Gradients

Do not attempt to climb or descend beyond your limitations to avoid tipping over.

Note: - When travelling down or up a slope, avoid sharp turns, zigzag movements or moving across the slope



Wheelchair Assistance

Practical Use

Many activities require the wheelchair owner to reach, bend and transfer in and out of the wheelchair. These movements will cause a change to the normal balance, the centre of gravity and weight distribution of the wheelchair.

To determine and establish your particular safety limits, activities involving reaching, bending and transferring should first be practised with a qualified health care professional.

Tilting

WARNING! Do not tilt the wheelchair without assistance.

- 1) The attendant should grasp the push handles securely, making sure that the handle grips are firmly attached.
- 2) Inform the chair occupant before tilting the chair and remind him/her to lean back. Be sure the occupant's feet and hands are clear of all wheels.
- 3) Place one foot on the tipping lever and apply a continuous motion until the balance point is achieved.
At this point, the attendant will feel a difference in weight distribution (this usually occurs at about 14° angle).
- 4) Turn the wheelchair in the direction required.
- 5) Lower the front end, placing one foot on the tipping lever and grasping the push handles to slowly lower to the ground.



NOTE: After mastering the techniques of tilting the chair, use this procedure to tackle kerbs, steps, etc.

Kerbs

- 1) The attendant should stand on the pavement and turn the chair so that the rear wheels are against the kerb.
- 2) The chair should be tilted back to the balance point and in one continuous movement, the rear wheels should be pulled up and over the kerb.

NOTE: We recommend that two attendants are utilised for this procedure.



Adjustment Procedures

Footrest Adjustments

Length Adjustment

Adjustments are made with the user sitting in the wheelchair with feet on footplates.

- 1) Use an allen key loosen the bolt at the bottom of the footrest support hanger.
- 2) Adjust the footplate up or down as needed to provide maximum support of thighs on the seat upholstery, then re-tighten the bolt.

WARNING! Ensure that desired length adjustment does not cause pressure to legs at front of seat upholstery.

Backrest Height

Height adjustment is achieved by slackening grub screw and sliding riser tube Up or down to required height then retighten.

Seat Belt (if fitted)

Hold the bayonet end in one hand, and pull on the webbing to increase or decrease belt length with the other. When length is correct, adjust slide buckle to suit.

Anti-tippers (if fitted)

These are fitted at the rear of the chair, adjacent to the rear wheels and recommends that these are fitted if required.



Footrests

Footrest is height adjustable and is adjusted by slackening 2 x grub screws and sliding footrest to required height then re-tighten.



Adjustment Procedures *(continued)*

Manual Brake

This is a parking brake which is applied manually to the tyres when the chair is parked or stationary. To apply the brake, push the lever forwards. The mechanism will lock the brakes on. To release the brake, pull the small lever away from the tyre, which unlocks the brake.



Warning! - Do not push down on the brake lever to avoid damage or breakages

Brake Adjustment

The operation of the brakes can be adjusted to suit. Slacken the clamping screws and move the brake to the required position and re-tighten.

Folding Back

This is available to reduce the overall height of the chair. Whilst at the rear of the chair, grip the cable and pull up to release pin allowing backrest section to be folded. To raise hold the backrest and return it to the upright position and click it into the lock position.



Balance Adjustment

To adjust the tipping balance of the wheel chair

1. Remove the rear wheels
2. Slacken the screws holding the rear axle to the main frame
3. Move axle to desired position (make small changes and try it out moving it towards the front on the chair increases the tipping balance towards the back of the chair increases stability of the chair.
4. Ensure the axle is moved the same distance on each side.

See pic on the right.

5. Retighten the axle
6. Refit the rear wheels
7. Adjust the brakes to suit new position of the rear axle.



Adjustment Procedures *(continued)*

Push handle adjustment

Slacken adjusting hand lever in an anticlockwise rotation
Move to required position up or down and re-tighten in a clockwise rotation.



Warranty info: Daily-Use

Davinci mobility Limited Warranty

Products:- Beachster

1. DEFINITIONS

In Limited Warranty Product Grouping.
 "The Company"
 DaVinci mobility
 "Purchaser"
 Name on the invoice
 (or person named on the original order form)
 "Start Date"
 Delivery date

Warranty

1. This warranty is extended only to the named purchaser of the product.
2. This warranty gives you specific legal rights and you may also have other legal rights.
3. The Company warrants the main frame to be free from defects in materials and workmanship for a period of 24 months from the start date.

Following items are supplied with 24 Months warranty. All welded components parts included, but not limited to:

- welded camber bars
- welded side guards & side tubes
- welded footrest
- welded/integrated pushing handles into the backrest uprights.
- welded calf strap loops

Following items are supplied with a 12 Months warranty. All component parts included, but not limited to:

- camber bars
- folding backrest frame
- all pushing handles
- castor forks
- castor wheels
- side guards, and armrests
- anti-tippers - all styles
- seat & backrest upholstery
- wheel components
- wheel locks
- quick release pins
- powder coat frame finishes

Following items are supplied without warranty. All component parts included, but not limited to:

- bushings and bearings
- tyres and inner tubes
- push handle grips, foam parts and plastic/rubber coated parts
- all caps ally/plastic
- flashing led castor wheels
- plastic wheels
- adjustable height footrest, if 3rd party devices are fitted. i.e. Free Wheel are supplied without warranty.

Systems, Options, Components NOT manufactured by The Company including, will be supplied with the warranty offered by the manufacturer, but not limited to:

- Jay
- Roho
- Alber E-motions
- Varilite BES
- Otto Bock
- Deacon E-Move and E-Drive

Expectation

If within the stated warranty period any such product shall be proven to be defective, such product shall be repaired or replaced at The Company's option and cost. This warranty does not include any third party labour or shipping charges incurred in the repair or replacement of any such product. The Company's sole obligation and your exclusive remedy under this warranty shall be limited to such repair or replacement.

Limitations and Exclusions
 The foregoing warranty shall not apply if the serial number has been removed or defaced, products subjected to negligence, accident, improper operation, maintenance or storage, commercial or institutional use, modified without The Company's express written consent, including, but not limited to:

- The fitting of unauthorized parts or attachments
- The modification of the main frame or any other DaVinci supplied part
- Problems arising from normal wear

- Failure to adhere to the product use instructions.

Summary

The foregoing warranty is exclusive and in lieu of all other express warranties. Implied warranties, if any, including the implied warranties of the merchantability and fitness for a particular purpose, shall not extend beyond the duration of the expressed warranty provided herein and the remedy for violations of any implied warranty shall be limited to repair of the defective frame pursuant to the terms contained herein. The Company shall not be liable for any consequential or incidental damages whatsoever.

Contact

For warranty service, please contact the dealer from whom you purchased your DaVinci product. In the event you do not receive satisfactory warranty service, please contact The Company directly by the methods shown below. Provide the dealer's name, address and the date of purchase, indicate nature of the defect and, if the product is serialized, indicate the serial number. Do not return products to our factory without our prior consent.

Contact information Customer Name :- _____

Serial number :- _____

Date of purchase :- _____

Email – sales@davincimobility.co.uk
 Telephone:- 0044151 5481999
 Fax :- 0044151 5480333

Post

Davinci Mobility
 6-8 Carraway road
 Gillmoss industrial estate
 Liverpool
 L11 0EE

