



drive

 **DeVilbiss**
HEALTHCARE

S1 Steel Wheelchair
(CS1142SPMAG, CS1142T)

Instructions for use

UK
CA CE

Introduction

Intended purpose

To provide manually propelled mobility to an individual who has a walking related disability and/or who does not have the full capacity to walk.

Intended user group

The wheelchair is intended for an individual who has a walking related disability and/or who does not have the full capacity to walk and has a weight of up to 115kg (18 stone).

Environment of use

The wheelchair is suitable for both indoor and outdoor use however it is not intended to be used on rough or uneven terrain.

Indications

To assist with the mobility of an individual, as defined in the 'intended user group' section.

Contraindications

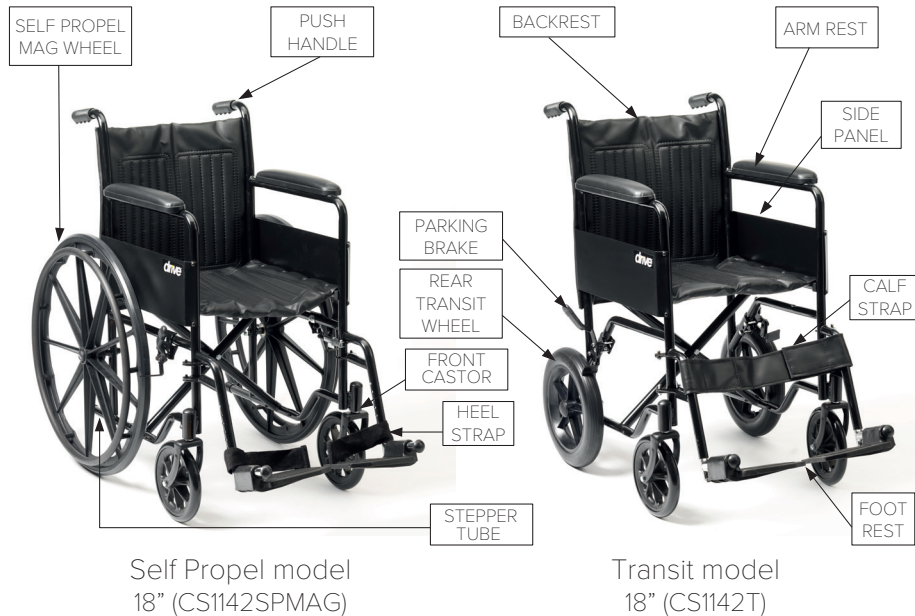
- The occupant exceeds the maximum weight capacity.
- The occupant has postural support needs that are not addressed by the wheelchair.
- Inability to safely guide a wheelchair (only applies to self propelled model).
- Occupants with Hemiplegia (only applies to self propelled model).
- Occupants with only one arm/hand (only applies to self propelled model).

Other contraindications may be relevant which are specific to an individual and / or care environment.

Product overview

The wheelchair is constructed from a tubular steel frame with a padded fabric seat for the occupant. The wheelchair incorporates footrests for the occupant, and it is able to be folded when not in use or being transported in a vehicle. The wheelchair is available as either a transit model, where an attendant is required to propel it, or as a self-propelled model, where the occupant can propel it. The wheelchair can be manually propelled forwards and backwards.

Parts description



Preparing for use

These instructions should be read carefully before using the wheelchair.

This product does not have a service manual. The only parts for user assembly are the footrests.

A risk assessment must also be performed to assess suitability of the device for the user. This assessment should include, but not be limited to:

- Small adults (and children)
- Users (and attendants) who lack capacity
- Very active occupants
- Unauthorised access to the wheelchair

Independent users and attendants are responsible for determining that they are both mentally and physically capable of using the wheelchair with minimal risk of harm.



Maximum occupant mass

Exceeding the maximum occupant mass marked on your device can damage the product and put users at risk of harm.

Remove all packaging and stand the wheelchair on the ground. Separate the arm rests to open the wheelchair, then push down firmly. Once the seat is secure, the backrest is upright and the footrests are attached (see below), the wheelchair is ready for use.

Footrest adjustment

To fit the footrests, place each footrest on the two receiver posts on the frame. Then swing the footrest inwards until it locks in position.

To remove, press the chrome lever whilst swinging the footrest out (as shown right).

For optimum comfort it is important to attain the correct leg position.

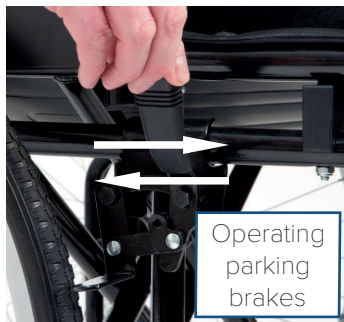
To adjust the height of the footrests, press the brass push buttons (right) and adjust the footplates to the desired height. Release the buttons and keep adjusting the footplate until it locks in position with an audible click.



Common misuse

Do not stand on the footrests. Overloading can damage the product and cause harm to the occupant.

Brake operation



Parking Brakes

To apply the parking brakes, push the handle on the brake unit until locked in place. To release the brake, push the handle in the opposite direction. The brakes should always be applied when the wheelchair is stationary.

Note: The brake on your wheelchair model may be visually different from that shown.

Using the Wheelchair as a Seat in a Motor Vehicle

Drive DeVilbiss Healthcare Ltd recommends that when in transport a wheelchair user should, whenever possible, transfer to a vehicle seat and be restrained using the vehicle provided occupant restraint system. However, there are circumstances and situations where such a transfer may not be possible, in these instances the S1 wheelchair can be used as a seat within a vehicle.

Ease of access and manoeuvrability in motor vehicles can be significantly affected by wheelchair size and turning radius. Smaller wheelchairs and/or wheelchairs with a smaller turning radius will generally provide greater ease of vehicle access and manoeuvrability to a forward-facing position.

In preparation for use as a seat in a vehicle, Drive DeVilbiss Healthcare Ltd has subjected the wheelchair to the dynamic test requirements of ISO 7176-19 and satisfied all performance requirements.

Drive DeVilbiss Healthcare Ltd recommends that the S1 wheelchair should be used forward facing in the vehicle, be secured using a 4 point tie-down system and a 3 point occupant harness used to restrain the wheelchair user. A 4 point wheelchair tie-down and occupant restraint system in compliance with ISO 10542-1 would be suitable. The wheelchairs were successfully dynamically tested using a Koller Excel 4-point tie-down and a Titus passenger harness.

The wheelchair occupant should sit as upright as possible when in transport, ensuring that the lap belt lies as low as possible on the pelvis to avoid harmful loading of the abdomen, and that the upper section lays midway on the shoulder of the passenger.

Posture support devices such as a pelvic belt or an H-Type harness should not be relied on as a restraint system when in transport.

In situations where significant deviations from an upright seated posture are presented or the addition of other medical devices are required, a full risk assessment process should be conducted, and recorded, by all individuals involved in the transport process.

The 4 securement points for the restraints are marked on the wheelchair (as shown below) using the WTORS (Wheelchair Tiedown and Occupant Restraint Systems) symbol.



CS1142T rear WTORS points



CS1142SPMAG rear WTORS points



Front WTORS points (All models)



WTORS symbol



When using as a seat in a vehicle it is extremely important that the passenger follows the diagram (right), ensuring that the harness is fed over the user's shoulder, across the chest and under the side panel of the wheelchair. Ensure the lapbelt is also fed under both side panels.

Note: The wheelchair must be secured to the vehicle using a 4-point Tie-down system (not shown on image above).



Warning

If the tie down straps are fastened in alternate locations to the identified positions and/or the passenger harness is routed in an alternate way to that shown, passenger safety could be severely compromised.

Transfer and use



Before using the wheelchair, read the safety notices below;

- Do not exceed the 10° maximum gradient. Use slow speeds and do not reverse down a gradient.
- Do not use on escalators.
- The wheelchair is only suitable for single occupancy.
- Keep your feet on the footrests when moving. Do not stand on the footrests.
- Ensure that fingers and objects do not get caught in the wheel spokes or any other moving parts during use and assembly.
- Maintain proper balance at all times. Users should not move their centre of gravity out of the seating area.
- Do not reach for items further than your arm's length.
- Parking brakes should always be applied when transferring.
- Be aware of hazards in your environment, such as narrow doorways, steps, household appliances, children's toys, etc.
- A risk assessment must be performed by a competent person to ensure the wheelchair is suitable for the user. We recommend you consult a healthcare professional before using any assistive medical devices.
- Keep away from heating and ignition sources which may raise surface temperatures or cause a fire.

Transfer: When transferring in and out of the seat, move the seats as close as possible to each other. Parking brakes should always be engaged during transfer and attendants should fold away footrests. If users need to be lifted out of a seat, attendants are responsible for being suitably trained and competent to lift occupants with minimal risk of harm. Good health and safety practice must always be used.

Propelling: Attendants should push from behind using the handgrips, and following the safety advice above. Wheelchairs with transit wheels can only be propelled by attendants. Models with self propel wheels can also be propelled by wheelchair users, pushing the handrims on the rear wheels. To slow down, apply reverse pressure to the push handles or handrims.

When stationary, the brakes should always be applied.

Steep terrain, kerbs and steps

Steep terrain: These wheelchairs are not designed for use on gradients beyond 10°. When on a slope, avoid swerving or sudden changes in movement.

Over kerbs: Attendants push down on the stepper tube with a foot to raise the front castors (when mounting a kerb for example).



Common misuse

Do not lean or push down on the push handles, as this can damage the wheelchair.

To mount, approach the kerb head-on. Then the attendant uses the stepper tube to raise the front castors, and lowers the front castors on the raised kerb. Finally the attendant should push the wheelchair forward, lifting it up slightly to mount the kerb if required.

To go down, line up the front castors with the edge of the kerb. The attendant uses the stepper tube to raise the front castors and tip the user slightly back. Keeping the castors raised, slowly lower the wheelchair down the kerb.



Warning

When going down a kerb, the front castors must be raised to prevent the user from falling out. The above are only recommendations and may not be suitable for all events.

Multiple steps: The wheelchair is not designed to mount staircases, so may require carrying if no elevators or ramps are available. Attendants are responsible for being suitably trained and competent to lift the wheelchair with minimal risk of harm. Do not carry using the handles or any removable sections.

Using a wheelchair belt

Belts are often used to restrain wheelchair occupants during normal use. However, belts are not necessary parts of this device. Any belts used should be adjusted to suit each user. When fastened, they should be tight without causing discomfort or undue pressure. Belts may not be suitable for all users. Seek professional medical advice before using a wheelchair belt.

Folding and storage

This wheelchair is easily foldable to minimise storage space required. The foot rests may be either be folded up and swung outwards, or removed by following the steps in footrest adjustment.

Once the footrests have been moved, fold the wheelchair by grabbing the centre of the front and rear edges of the seat sling. Pull upwards on the seat canvas and the wheelchair should naturally fold.

Please note though that the wheelchair may be too heavy for some users to lift. Also be sure to adopt the latest health and safety recommendations when lifting the wheelchair.

Note: The wheelchair may be folded and stored in a motor vehicle.

The wheelchair should be stored in a dry environment, away from direct sunlight. If wheels are attached, store with the parking brakes on.

Care and maintenance

Do not use a damaged or badly worn wheelchair. Users should routinely check for any malfunctions or changes in performance. Contact Drive DeVilbiss Healthcare Ltd or your provider to replace damaged or worn parts.

- Brakes and tyres should be checked before each use, and at least once a month. Slightly loosen and tighten the lock nut on the axle to correct any side play.
- The wheelchair should be kept dust free and cleaned at least once a week. Upholstery and tyres can be cleaned with a damp cloth and mild soap solution. Avoid neat bleach or abrasive surface cleaners. Leave to fully dry before reuse. Metal parts should also be polished once a month with an auto wax. Replace worn or torn upholstery promptly, as it may not support your body weight.
- Drive DeVilbiss Healthcare Ltd recommend that an approved service engineer maintains the wheelchair annually, and these items should be repaired, replaced, adjusted and/or lubricated if required:
 - Tyres and castors
 - Wheel bearings
 - Brakes
 - Footrest locking mechanism
 - Seat upholstery
 - Back upholstery
 - Arm pads
 - Rear wheel quick release pin
 - Back posts
 - Wheelchair folding mechanism
- When the product has reached the end of its useful life, follow local recycling and disposal policies.

Powerpack installation



This wheelchair is suitable for some retrofit powerpacks, which allow the device to be controlled electronically. (See Powerpack example image.)

Powerpacks are not required to use the wheelchair. The mounting position will need adapting to be suitable for both the user and the powerpack used. Any installed powerpack must be used in line with the manufacturer's instructions for use.

For more information about powerpacks, contact Drive DeVilbiss Healthcare Ltd or your local dealer.

Specification

Model	Self Propel (CS1142SPMAG)	Transit (CS1142T)
Maximum occupant mass	115 kg	115 kg
Overall length with footrest	106 cm	88 cm
Overall width	61 cm	60 cm
Folded width	26 cm	26 cm
Total mass	18 kg	15 kg
Static stability	10°	10°
Effective seat depth	40 cm	40 cm
Effective seat width	45 cm	45 cm
Seat surface height at front edge	50 cm	50 cm
Overall height	90 cm	91 cm
Rear wheel diameter	24"	12½"

Warranty

Your Drive branded product is warranted to be free of defects in materials and workmanship for one year from date of purchase. This device was built to exacting standards and carefully inspected prior to shipment. This warranty is an expression of our confidence in the materials and workmanship of our products and our assurance to the customer.

In the event of a defect covered by this warranty, we will at our option supply parts or replace the device. This warranty does not cover device failure due to owner misuse or negligence, or normal wear and tear. The warranty does not extend to non-durable components, such as rubber accessories, castors and grips, which are subject to normal wear and need periodic replacement. The wheelchair frame has a 5-year warranty.

If you have any queries or require full warranty conditions, please contact your provider.

Accessories and spare parts

Drive DeVilbiss Healthcare Ltd provide a steel elevating footrest with some of these models. Other accessories and spare parts are also compatible with wheelchairs in this range.

To order these parts, contact your provider. Visit www.drivedevilbiss.co.uk to find your local stockist. Spare part catalogues, compatibility charts and other documentation can also be found on this website. Only use parts approved by Drive DeVilbiss Healthcare Ltd.

Support

For more information, or assistance with use and maintenance, please contact your provider. Users with visual, reading or cognitive disabilities should seek advice from their provider or a professional care provider for an appropriate format. For the latest version of this document, contact Drive DeVilbiss Healthcare Ltd using the details below, or check our website.

Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the MHRA or competent authority of your Member State. Please quote the product serial code on all correspondence, which can be found on the wheelchair frame under the seat.



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Drive DeVilbiss Healthcare Ltd provide these instructions for use and product markings.

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