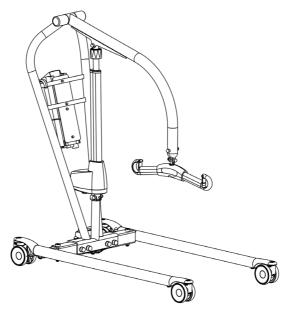
# Vega505EE

## Service manual - English

## System RoMedic

## Valid from serial numbers:

660320001 and 21000001





SWL: 230 kg/505 lbs



## **Safety information**

### Visual inspection

Inspect lift functions regularly. Check to ensure that material is free from damage.

#### Before use

Ensure that the product is correctly assembled.

Check slingbar connection and safety latch function.

Check lift and base-width movement.

Check to ensure that the actuator is correctly installed.



## $\widehat{\phantom{a}}$ Always read the user manual

Keep the user manual where it is accessible to users of the product. Do not leave the user unattended during a lifting situation.

The lift unit may only be used by persons who have received instruction in the operation of the lift unit.



## **Table of contents**

## **Assembly**

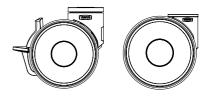
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# Assembly Final inspection

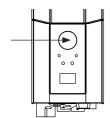
Check to ensure that no parts have been left in the packaging. Inspect the lift for signs of wear and damage.

Check all four castor wheels and castor wheel locks.

Check all connections and fixtures including screws and bolts.



Check the emergency stop function by activating the emergency stop button, and then pressing either the up or down button. If nothing happens when the up or down buttons are pressed, the emergency stop is functioning properly.



Grasp the hand control, press the up button and run the lift arm all the way up. Then, press the down button and run the lift arm all the way down.

Test base-width adjustment function. Press the button for base-width adjustment to widen the base fully, and then press the other button to narrow the base again.



Test lift function by lifting a person (not a user) using an approved sling. At the same time, check the emergency lowering function with someone on the lift. See section on Emergency lowering.

If the lift is functioning correctly, connect the charger and check to ensure that the charging lamp on the control box lights up.

## NOTE!

Before the lift is used for the first time:

- it must be charged for at least 4 hours. See section on charging batteries.
- the control box service counter needs to be reset. To reset the service counters press both lift buttons on the hand control at the same time for 5 seconds.

An audio signal will indicate that the timer has been reset.

Keep the user manual where it is accessible to users of the product.



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## Using the product

## **Important Information**

- The lift must be assembled according to the instructions provided by Direct Healthcare Group.
- The lift may only be used indoors and on a level floor.
- Lifting accessories must be properly fitted and tested in relation to the user's needs and functional ability.
- Do not leave the user unattended during a transfer situation.



- Under no circumstances may the safe working load be exceeded. See section on Safe Working Load.
- Never move the lift by pulling on the actuator!



- The lift must not be used or immersed in or under water including showering.
- The lift should not be left / stored in a high humidity environment.
- The lift must not be charged in a wet room.
- To ensure optimal function, the lift must be inspected regularly. See section on other maintenance details.
- Warranty applies only if repairs or alterations are made to the product by personnel who are authorized by Direct
- Using lifting accessories other than those approved can entail a risk.
- Note that there is a pinch point between the manual emergency lowering mechanism and the lift arm when the lift arm is in its highest and lowest positions.
- Verify that all lifting accessories hang vertically and can move freely.



## **Trouble shooting**

Healthcare Group.

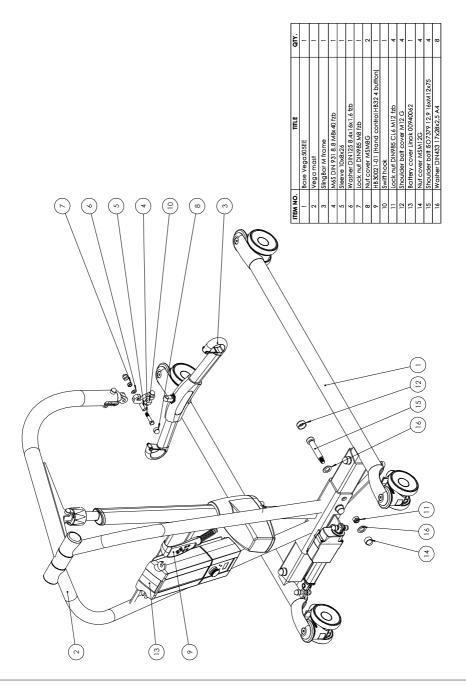
### If the lift or base-width adjustment cannot be activated, check the following:

- That the emergency stop button is not pressed in.
- That all cables are properly and securely connected. Pull out the contact and plug it in again firmly.
- That battery charging is not in progress.
- That the battery is charged.

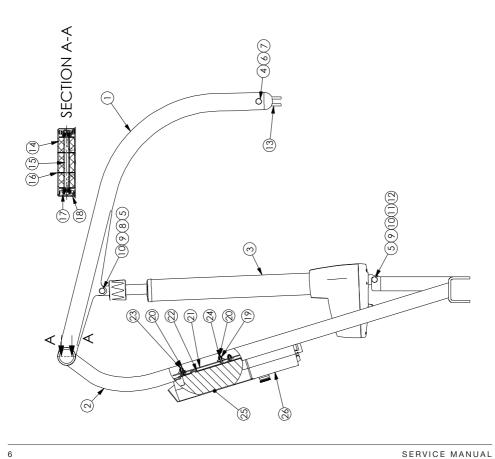
If the lift is not working properly, contact your dealer.

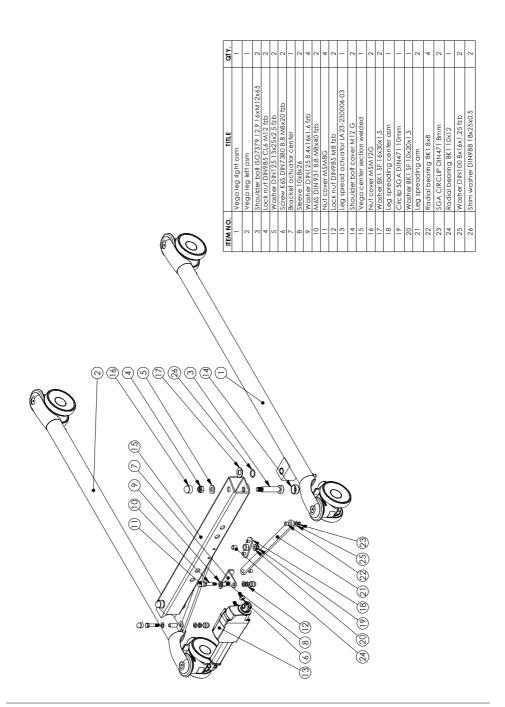
## If the lift makes unusual noises:

- Try to determine the source of the sound. Take the lift out of operation and contact your dealer.

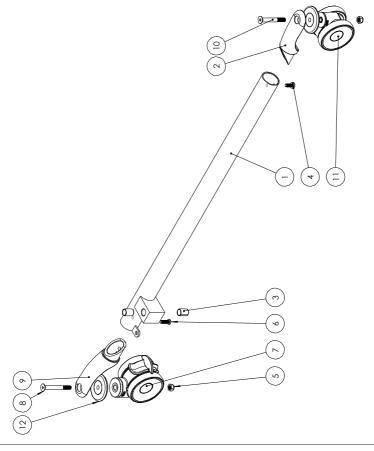


ITEM NO.	шие	Ā.
-	Vega lifting arm complete	-
2	Vega mast welded	-
3	Vega LA44 - 443204+5L3500A0	-
4	Screw M6S DIN931 8.8 M8x65 fzb	-
S	Nut cover MSM8G	5
9	Sleeve 10x8x50	-
7	Bushing teflon C08010-1012	-
80	Shoulder bolt ISO7379 (DIN610) 12.9 10xM8x35	-
6	Lock nut DIN985 M8 fzb	е
10	Washer DIN 125 8,4x 16x 1,6 fzb	2
11	Sleeve 10x8x37	1
12	Screw M6S DIN931 8.8 M8x50 fzb	-
13	Linkv	-
14	Vega bushing mast	2
15	Vega litting arm shaft	1
91	Washer nylon 50x17x2	2
17	Lock nut DIN985 CL6 M16 fzb	2
18	Vega end cover mast	2
19	Lock nut DIN985 CL6 M 5 fzb	4
20	Nut cover MSM5G	4
21	Vega control box cover CBJC	-
22	Lin ak MBJ2 incl. screws	-
23	Screw MC6S DIN7984 M5x16 fzb	1
24	Screw MC6S DIN7984 M5x12 fzb	е
25	BAJ1030-00 (Battery box CBJ grey, BAJ1)	-
26	CBJ045-00 (Controlbox CBJCare w display LA44)	-



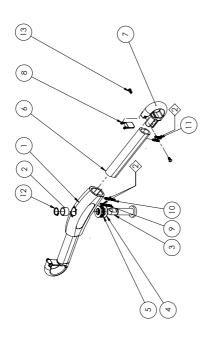


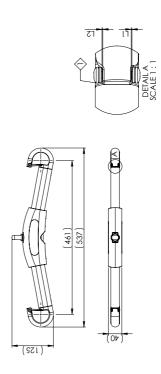
ITEM NO.	ЭШ	QTY.
_	Vega leg left welded	_
2	Front Fork Vega 03	-
3	Radial bearing BK1 16x25	2
4	Screw K6S DIN7380 8.8 M8x20 fzb	_
5	Lock nut DIN 985 CL6 M10 FZB	2
9	Screw_K 6S_ISO7380_10.9_M8x25_fzb	-
7	Rear wheel 100mm	1
8	Screw MF6S DIN7991 8.8 M10x90 fzb	1
6	Rear fork 125 mm	-
10	Screw MF6S DIN7991 8.8 M10x80 fzb	1
11	Front wheel 100mm	_
12	Wheelbumper	2



TEM NO.	ппе	QTY.
-	Mainframe SlingBar	-
2	Slide bearing 20x24x15 PA66	-
3	Support pin	-
4	Needle roller thrust bearing washer AS2035	2
5	Needle bearing AXK 2035	-
9	Tube for SlingBar	2
7	Hook for SlingBar	2
8	Cargo barrier	2
6	Screw P6SS DIN931 8.8 M6x45 fzb	2
10	Screw P6SS DIN931 8.8 M6x40 fzb	2
Ξ	Screw P6SS DIN931 8.8 M6x25 fzb	4
12	Circlip SGA 20 DIN 471	-
13	Screw K6S ISO7380 8.8 M5x12 fzb	4

 $\diamondsuit$  Screw no. 13 meets the opposite screw at the center. (L1 = L2),  $\diamondsuit$  Screw no. 9, 10 and 11 are applied with 4Nm and Loctite 2701.





## Spare part list

Article no.	Product	Unit	Components	Images
80100093	Actuator mast Vega LA44	1 set	1 x Actautor LA44 2 x Locking nut M8	
80100056	Actuator base LA23	1 set	1 x Actuator Vega LA23 1 x Motor cable for LA23 2 x Locking nut M8 0,25 x Cardboard	
80100001	Front castor 100 mm	1 set	1 x Front castor 1 x Locking nut M10	
80100002	Rear castor 100 mm	1 set	1 x Rear castor 1 x Locking nut M10	OF
80100169	Control box CBJC Vega505EE	1 pce	1 x Control box	
80100057	Battery CBJ	1 pce	1 x Battery	
80100161	Batterybox CBJ BAJ1	1pce	1 x Batterybox	

Article no.	Product	Unit	Components	Images
80100156	Hand control HB32-4	1 pce	1 x Hand control	
80100058	Sling bar lock, for Alu sling bar	1 set	10 x Cargo barrier 20 x Screw M5x12	
80100048 80100046 80100045 80100047	Cable for charger EU Cable for charger UK Cable for charger US Cable for charger AU	1 pce 1 pce 1 pce 1 pce	1 x Charger cable 1 x Charger cable 1 x Charger cable 1 x Charger cable	
80100157	Turning handle Vega (serial no.: 660310478-660310489)	1 pce	1 x Turning handle	
80100074	Bumper kit 80 mm	1 set	4 x Rubber bumper	

## **Changing spare parts**

### 80100001, 80100002 Front/rear castor 100 mm

Using an Allen key, remove the screw that holds the castor in place. Replace the castor, apply Loctite 2701 or similar, and then secure the castor with the screw.

## 80100045, -46, -47, -48, -52, -59, -60, -61

Connect the charger cable to the control box, and then plug it into a wall socket.

#### 80100051 Control box CBJH

Activate the emergency stop, and then disconnect the actuator and hand control.

Remove the two long screws and remove the control box. Install the new control box and secure it with the two crews. Connect the actuator and control box.

### 80100055, 80100056 Actuator leg spreading

Connect the motor cable to the actuator.

Run the actuator until the legs are drawn in fully. Activate emergency stop. Disconnect the actuator from the control box. Loosen and remove the screw that holds the actuator to the leg. Remove the screw covers and loosen the screw and nut. Remove the actuator.

Install the new actuator; start by securing the end that is secured to the leg. Use the accompanying lock nut, and then secure the end that is connected to the base of the mobile lift. Use the accompanying lock nut. Replace the screw covers. Connect the actuator to the control box.

## 80100057 Battery CBJ

Remove the lift battery and remove the screws. Disconnect the battery contacts and remove the batteries. Install the new batteries in the battery box and connect the contacts. Place the cover on the box and secure it with the screws. Note! The battery must be charged for at least 4 hours before it is used for the first time.

#### 80100058 Slingbar lock for slingbar alu

Remove the screws on either side of the safety latch and remove it. Install the new safety latch and secure it with the two accompanying M5x12 screws. Position the safety latch, so that the bevelled side is facing in towards the lift hook.

#### 80100062 Hand control 4-button Linak CBJH

Activate the emergency stop, and then disconnect the hand control. Connect the new hand control.

### 80100065 Front castor 75 mm

#### 80100066 Rear castor 75 mm

Using an Allen key, remove the screw. Replace the castor, securing it with the screw and accompanying lock nut.

## 80100068 Hanger Strap lock, for steel slingbar

Remove the safety latch by pulling the ring until one side of it is freed from the slingbar, and then remove the other side. Insert the new safety latch into the hole on one side of the slingbar, and then into the other hole. Ensure that the safety latch snaps securely into place; it must be able to move freely in the holes.

### 80100074 Bumper kit

Remove the castors and remove the bumper. Install the new bumper and castors.

### 80100074 Bumper kit

Remove the wheels and remove the old bumper, mount the new one with the wheel.

#### 80100093 Actuator mast Vega LA44

Lower the lift arm to its lower position. Activate the emergency stop. Disconnect the actuator from the control box. Remove the actuator upper part by removing the covers and unscrewing the screw and nut, loosen the actuator lower part in the same way. Lift the lift arm and remove the actuator. Mount the new actuator. Start by aligning the lower part, lift the lift arm and align the upper part. Fit the actuator with existing screws and the new supplied locking nuts. Fit the cover caps and plug the actuator into the control box.

### 80100156 Hand control HB32-4

Activate the emergency stop and disconnect the hand control, switch on the new hand control.

### 80100157 Turning handle Vega (serial No: 660310478 - 660310489

Use the knobs to remove the screws. install the new screws with the knobs.

## 80100161 Battery box CBJ Grey BAJ1

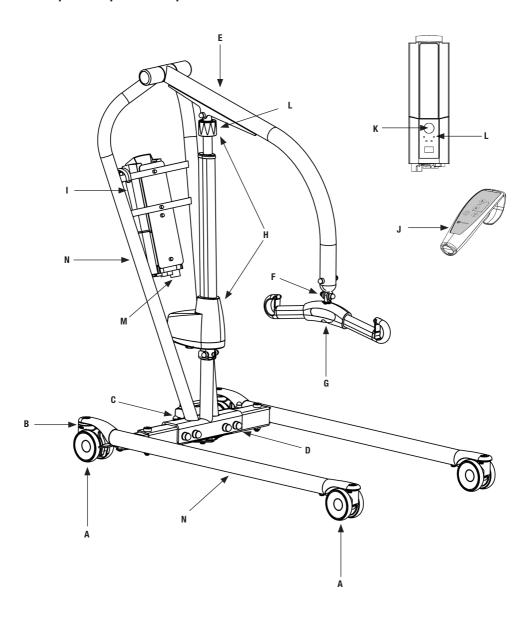
Remove the existing battery by lifting it straight up out of the holder on the control box. Install the new battery in the holder. Remember that the battery must be charged at least four hours before first use.

## 80100169 Control box CBJC Vega505EE

Activate the emergency stop and disconnect actuator and hand control. Remove the battery, unscrew the two screws and remove the control box. Attach the new control box by screwing it in with the two screws. Replace the battery and reconnect the actuator and controller.

## Periodic inspection - protocol Lift type: Contract no: s/n: Name: Version: Address: Prod. year: Sling bar id.: Situation of use: Home Other Institution Comments: 1. Attention 2. Correct 3. Do not use! Base: Check for visible damage Check: Α Castor В Brakes Screws Mast: Inspect the mast Check: D Screws Ε Lift arm hardware etc F G Slingbar and the function of the safety latches Н Mast actuator -1 Battery and cable installations Hand control J Κ Emergency stop L Emergency lowering Μ Charging Ν Product label Test of safe working load: Safe working load test mast Safe working load test base Mechanical emergency lowering Accessories: **Documentation:** Instructions / manuals Controll box: Reset the control box service counter Date: Load test weight: Serviced by:

## **Description for periodic inspection**



## **Periodic inspection - instruction**

## Base

-Check the base for visible damage to the surfaces, finish, etc.

#### Castors

- -Roll the lift unloaded on the floor, check that the castors roll and turn freely.
- -Check that the castor fasteners are tight.

## **Brakes**

-Lock the brakes. Check that the castors do not turn when the lift is pushed.

## Check the legspreading actuator

- -Check the legspreading actuator for visible damage to the surfaces, finish, etc.
- -Check screws, bolts and links etc.

### Mast

- -Check the mast for visible damage to the surfaces, finish etc.
- -Check screws, nuts, bolts etc.

## Screws

-Check screws, and listen for peculiar noises and vibrations.

## Liftarm, hardware

- -Check the liftarm for visible damage to the surfaces, finish etc.
- -Check screws, nuts, bolts etc.

#### Link

- -Check the link, slingbar to mast, hardware and covers.
- -Check screws, bolts and links etc.

## Slingbar and safety latch function

- -Check to ensure that there is no visible wear or damage.
- Check the function of the safety latches.

## Mast actuator

- -Verify that the upper and lower actuator fasteners to the mast are tight.
- -Visual inspection.
- -Check of abnormal noise level.

## **Battery and cable installations**

- Check battery and electrical cable.
- Verify that all cables are properly inserted.

#### Controlbox

-Verify that all functions on the control panel are working

#### Handcontrol

-Verify that all functions on the handset are working.

## **Emergency stop**

-Verify that the lift does not operate when emergency stop is pressed in.

### **Emergency lowering**

-Verify the function of emergency lowering.

## Charging

-Verify that charging is operating. Yellow lamp on the controllbox should light up when charging.

## Product label

- Check the serial number so that the label is there and readable. Note the serial number on the protocol.

## Test of safe working load

Mast safe working load

-Run the lift with safe working load, all the way up and down, listen for peculiar noises and vibrations.

Base safe working load

-Widen the base with safe working load, listen for peculiar noises and vibrations.

### Accessories

-Check the accessories to the lift.

### **Documentation**

- Check that the manual is available and up-to-date.

To reset the service counters press both lift buttons on the hand control at the same time for 5 seconds. An audio signal will indicate that the timer has been reset.



## Maintenance

The lift must undergo thorough inspection at least once per year. Inspection must be performed by authorized personnel and in accordance with Direct Healthcare Group's service manual.

Repairs and maintenance may only be done by authorized personnel using original spare parts.



Used batteries are to be left at the nearest recycling station. Used batteries can also be returned to Direct Healthcare Group or a Direct Healthcare Group dealer for recycling.

### Cleaning/disinfection

If necessary, clean the lift with warm water or a soap solution and check that the castors are free from dirt and hair. The electronic components (battery, controlbox, hand control, actuators, cables) should be cleaned with a damp cloth only. To avoid degreasing of the piston rods, the actuators should be retracted to minimum stroke and without load before cleaning. Ensure that the lift is dried after cleaning. Do not steam clean due to risk of corrosion. Do not use cleaning agents containing phenol or chlorine, as this could damage the materials. If disinfection is needed, 70 % ethanol, 45 % isopropanol or similar should be used. Recommended frequency of cleaning is weekly and possibly more often depending on frequency of use.

## Storage and transportation

If the lift is not to be used for some time or e.g., during transport, we recommend that the emergency stop button be pressed in. The lift should be transported and stored in -10 ° C to +50 ° C and in normal humidity, 20% to 80% noncondensing. The air pressure should be between 700 and 1060 hPa. See also Technical Information below, and marked on the device. Leftmost symbol indicates storage and transportation. Let the lift reach room temperature before the batteries are charged or the lift is used. The lift should not be stored so that it is exposed to dust, or so that the battery is exposed to direct sunlight.









### Operation

The operating environment should be 5 °C to 40°C, relative humidity 20% to 80% non-condensing, and atmospheric pressure 700 to 1060 hPa. See also Technical Information below, and marked on the device. Leftmost symbol indicates operating condition.









### Service agreements

Direct Healthcare Group offers the possibility of service agreements for maintenance and regular testing of your mobile lift. Contact your local Direct Healthcare Group representative.

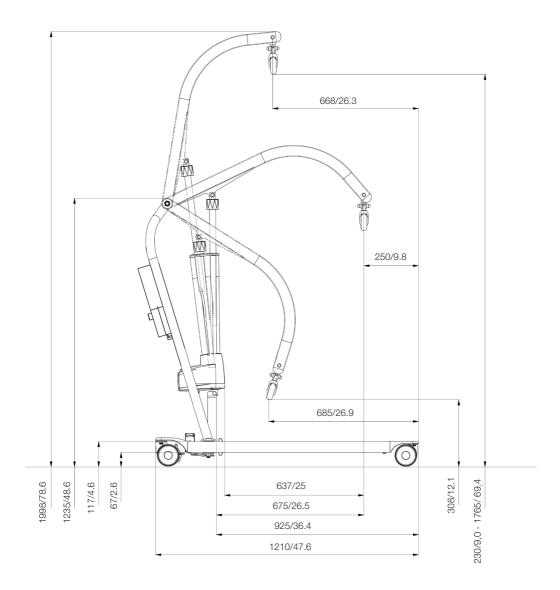
## **Symbols**

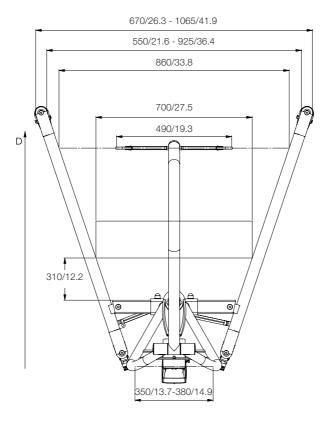
(S) (Ji	Read user manual
X	May not be discarded in domestic waste
CE	The product complies with the requirements of the Medical Device Regulation (EU 2017/745).
<b>†</b>	Type B, according to the degree of protection against electric shock.
( <del>-</del>	The device is intended for indoor use.
	Class II equipment
	Always read the user manual

## **Technical Information**

Lifting speed:	37 mm/s without load.
Batteries:	Two 12V, 2.9 Ah valve-regulated, sealed, lead accumulator (gel-type batteries)
Charger:	Max. 400mA
Motor (mast):	DC 24V, 9,7 Amp. IP X4. Operationtime: 10% at maximum continous operation of 2 minutes, maximum 5 cycles per minute. Push: 10 000N.
Motor (base):	DC 24V, 2.2 Amp. IP X4. Operationtime: 10% at maximum continous operation of 2 minutes, maximum 5 cycles per minute. Push: 1500N.
Sound level:	With load: upwards: 43 dB(A) downwards: 44 dB(A).
Material	Steel
Emergency lowering:	Manual and electrical
Castors:	Front 4", 100 mm, back 4", 100mm
Weight:	42,8 kg
IP class:	IP X4
Expected lifetime:	10 years
Operating forces buttons on handset:	4 N
Max. load:	230 kg / 505lbs

Medical Device Class I. The product complies with the requirements of the Medical Device Regulation (EU 2017/745)





- Turning radius is 615 mm/24.2 inch
- The total weight of the lift is 42,8 kg
- The weight of the heaviest part is 25,8 kg
- D is movement in forward direction
- Outer dimension 650 mm

## System RoMedic

## Simple solutions for great results

SystemRoMedic® is the name of Direct Healthcare Group's unique easy transfer concept, the market's widest and most comprehensive range of clever, easy-to-use and safe transfer and lifting aids designed to make life easier, both for the user and for the caregiver. SystemRoMedic® is a complete solution that provides for the majority of patient transfer or manual handling requirements. From the simplest to the most complex scenarios, from the lightest to the heaviest. The concept encompasses assistive devices for four different categories of transfers:

- Transfer, assistive devices for manual transfers of users between two locations.
- Positioning, assistive devices for manual repositioning of users within the same location.
- Support, assistive devices for mobility support e.g., during sit-to-stand or gait training.
- Lifting, assistive devices for manual and mechanical lifting of users.

## Improved work environment, improved quality of care and cost savings

The philosophy behind SystemRoMedic is focused on the prevention and reduction of occupational injuries while allowing users to experience a greater sense of independence and dignity. Through a unique combination of training and a complete range of efficient transfer aids, SystemRoMedic offers improvement of both work environment and quality of care and, at the same time, achieves significant cost savings.

## Always make sure that you have the correct version of the manual

The most recent version of all manuals are available for downloading at/from our website; www.directhealthcaregroup.com

## For questions about the product and its use

Please contact your local Direct Healthcare Group and SystemRoMedic® representative. A complete list of all our partners with their contact details can be found on our website; www.directhealthcaregroup.com.



