



Handicare 1100 Style Sales guide

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1 | Design

Our design team has put a lot of thought into the Handicare 1100 Style. We have worked hard to deliver a stairlift that not only provides your customer with a great solution, but is also good for our trade partners to stock, install and maintain. For example, making batteries easier to replace was a must.

The Handicare 1100 Style is a new, unique and patented 4 wheel drive system based on friction drive. Compared to all other straight stairlifts, there is no greasy gear rack on the rail.

We have not only considered easy of use but have paid attention to durability in high wear areas to deliver a robust, long lasting solution.

Aesthetics and recognizability were also high on our list to ensure that our Handicare 1100 Style partners are able to offer a product that is reliable and well known. Therefore, we used the popular Style seat. We have made the lift compact where possible as evidenced by the Handicare 1100 Style's slim waistline. This guide is designed to provide you with an overview of the Handicare 1100 Style Stairlift. If you have any questions please do not hesitate to contact a member of the Handicare team who will be more than happy to help.

2 | General information

Definition

A straight stairlift suitable for the transport of one person in an indoor situation only.

Details

Power supply	90-230V~
Frequency	50/60Hz
Current	1.0 Amp
Power consumption	0-36 Watt
Max.load (inclination 30°-45°)	140 kg [308 lbs]
Max.load (inclination 45°-50°)	130 kg [286 lbs]
Maximum speed	0.15 m/sec
Noise	56 dB
Minimum stair length	3 steps
Standard rail length	4700 mm / 185.04 in (2 x 2350 mm / 2x 92.52 in)
Maximum rail length	7050 mm / 277.56 in (3 x 2350 mm / 2x 92.52 in)
Rail colour	aluminium anodised, self colour

Standard features

- Retractable seat belt
- Fold up seat, armrests and footrest
- Key operated switch
- Emergency stop
- Soft start and soft stop
- Automatic stop at the top and bottom of the stairs
- Footrest safety edges
- Full cover safety edges
- Wall-mounted hand held remote controls at the top and bottom of the stairs
- 2 rail sections, each 2.35m / 92.52 in
- Continuous charge

Available options

- Extra spacer rail support
- Longer rails up to 7m / 275.59 in
- Powered swivel seat
- Powered footrest
- Hinge (pending)

3 | Seat

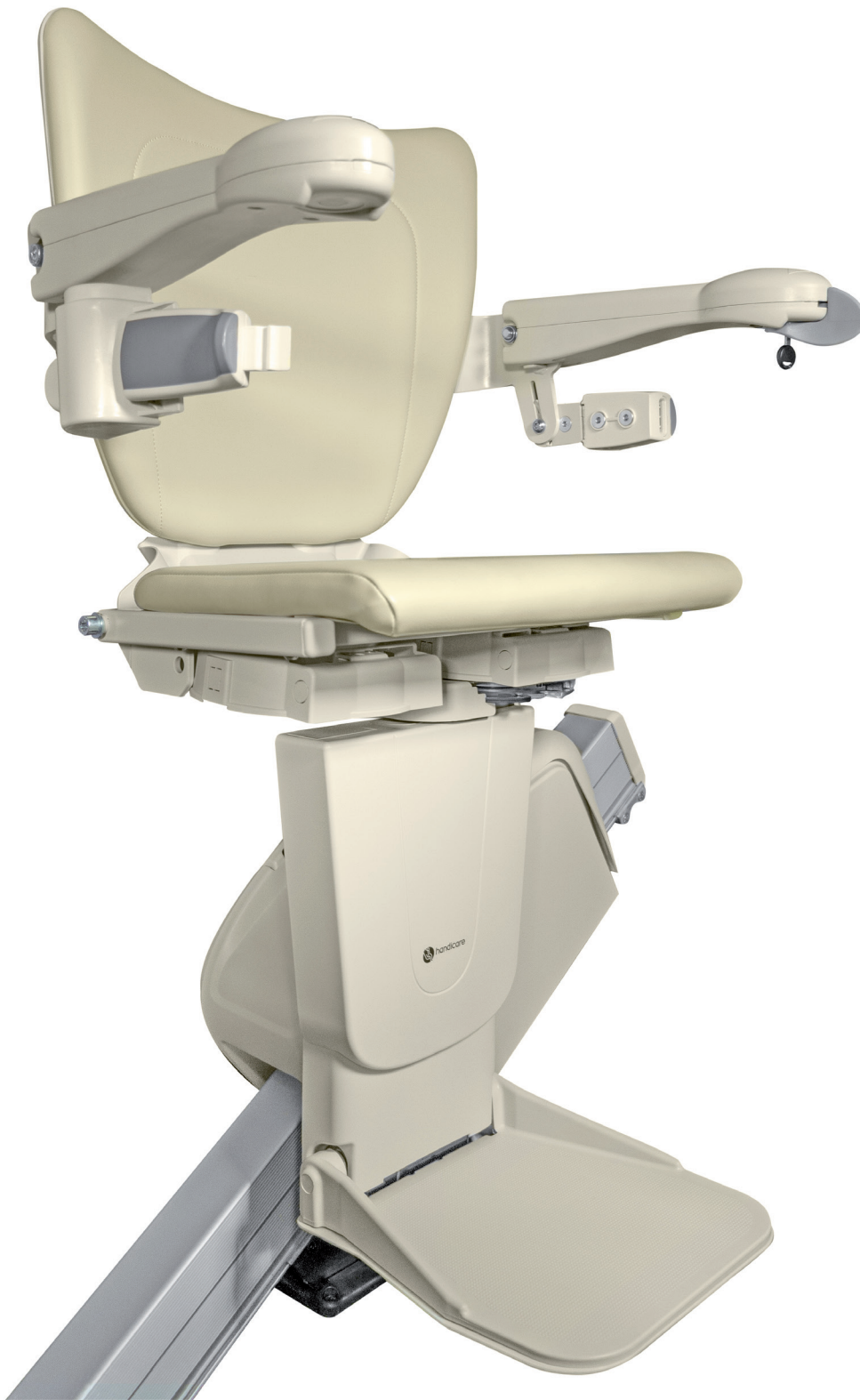
The Handicare 1100 Style will be delivered with the Style seat:

- The upholstery is made of flame retardant fabric.
- Easy to clean.
- Both armrests, seat and footrest can be folded up separately to provide optimum space on the stairs.
- You cannot ride in a swivelled position facing downstairs or upstairs.
- The lift will not operate if the seat is not in travelling locked position.
- The offset seat swivel enables the user to get closer to the landing to get on and off the seat more safely.
- The seat swivels independently from the footrest, thereby enabling the user to push against the footrest to turn the standard manual option to face the stairs.
- The swivel handle is pushed down to release the seat to swivel which makes it easier to operate for users with a decreased hand function.
- The seat can be installed in 4 different heights.
- Footrest landing can be flush or above the floor.
- The seat is non handed and can be used lefthand or right hand. This makes stock held more flexible if required.

Option	Available
Manual	√
Powered swivel	√
Powered footrest	√
Fully powered	√
Upgrade after installation	√

4 | Upholstery

- The Handicare 1100 Style's Style seat is supplied with a vanilla beige leather look upholstery.
- The easy to clean upholstery has been designed to be simple to replace if required.
- The upholstery is standards compliant (EN81-40) and is therefore flame retardant.



5 | Operating toggle

The Stairlift is activated by holding the toggle control in the direction of desired travel. The Handicare 1100 Style is a 'hold to run' stairlift, which means it will stop as soon as the operating toggle is released.

The toggle is supplied on the right armrest. The Handicare 1100 Style's modular design means it is easy to re-hand if required.

Benefits

- Logical operation in the direction of movement makes the Handicare 1100 Style easy to understand.
- The operating control is user friendly, it only requires minimal pressure to operate, and its positioning makes it easy to operate from the hand or wrist.
- The operating control has priority over the remote control, so the user is always in control.
- Super light and simple to use control.



6 | Armrest switches

User safety is foremost in our mind: the Handicare 1100 Style can only be operated from the toggle if the armrests on the down site is fully folded down.

User convenience is also a priority so the Handicare 1100 Style can be operated, via the remote control, with the arms folded up. This means it can be folded up and sent between floors to park to maximise clear space in the hall and on the stairs.

7 | Key switch

The key operated switch is standard and is provided with two keys.

The key switch is fitted in the underside of the armrest.

Extra keys can be ordered from Handicare at the webshop (www.handicarepartners.com).

- Removal of the key will disable the entire system.
- Removal of the key prevents unauthorised use.

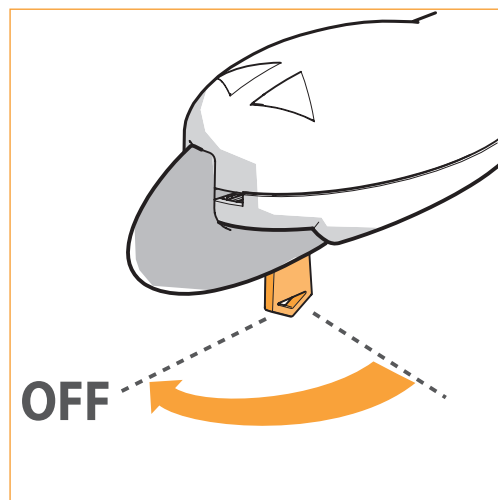
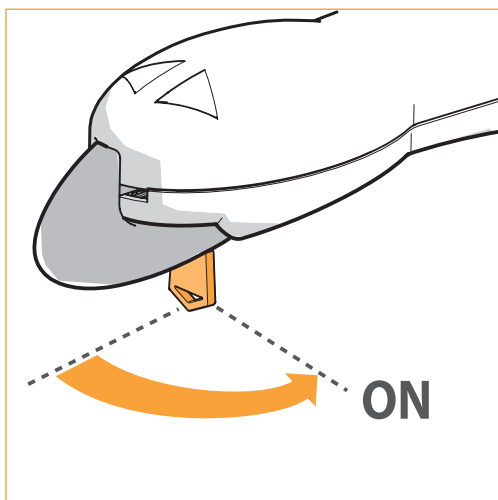
On position

When the key-operated switch is in the 'On' position (9 o'clock/-) the stairlift can be operated using the control or the remote control.

Off position

When the key operated switch is in the '12 o'clock/l' position the stairlift cannot be operated from the toggle or the remote control.

The battery will also continue to charge when the key operated switch is in the 'Off' position (12 o'clock/l).



8 | Stop button

The Handicare 1100 Style has a stop button.

In an emergency, press the stop button once. The lift stops straight away. To release the lift, press the stop button again.



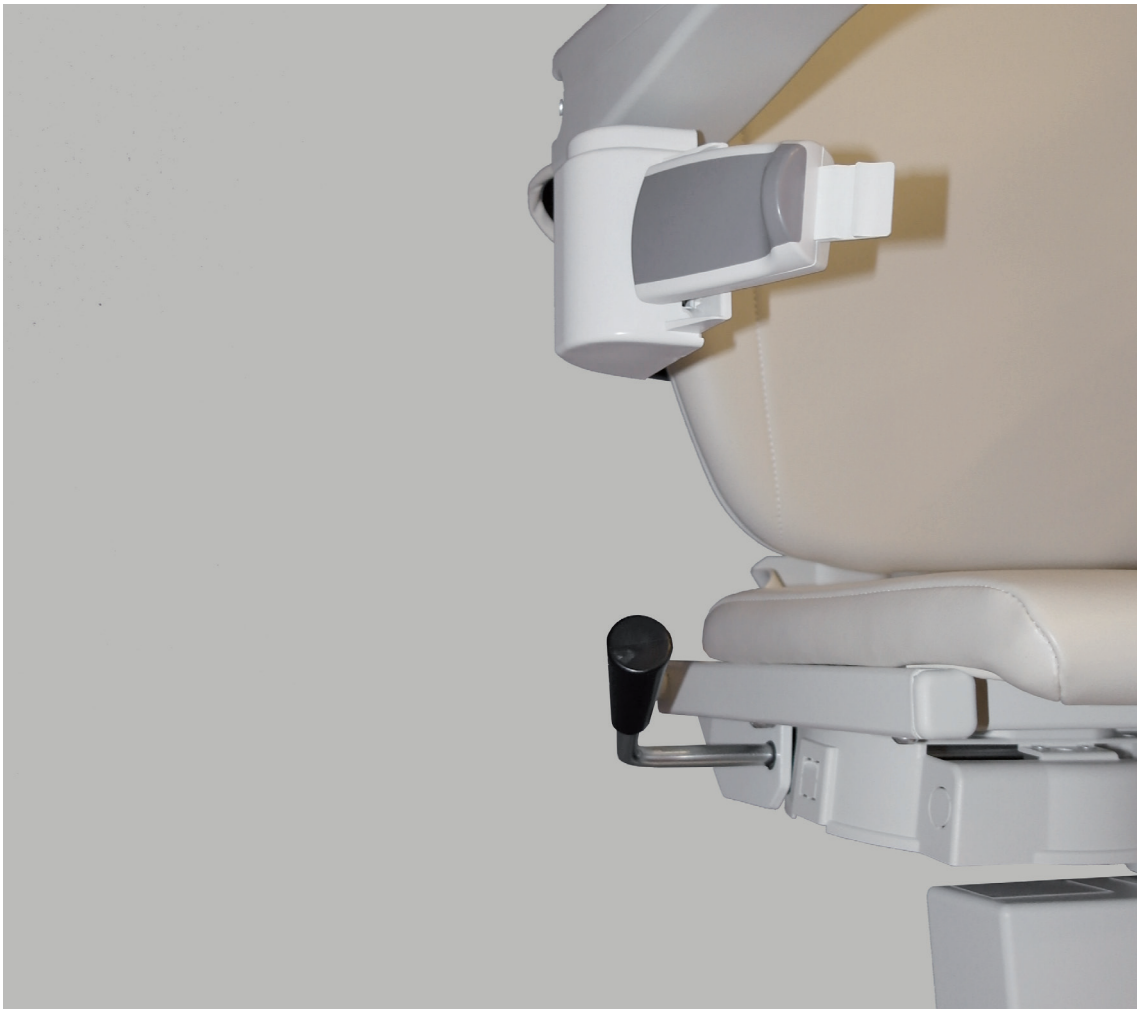
9 | Seat swivel

The manual swivel handle is operated by pushing down, which means it requires less upper body strength to operate than a pull up handle.

The seat swivels independently from the footrest, thereby enabling the user to push against the footrest to assist with turning the seat round towards the landing.

The seat post is offset so the user comes further on the floor to get on and off the seat more safely.

The stairlift cannot be operated again until the seat has been returned to the locked travel position before use.



10 | Powered swivel seat

The Handicare 1100 Style can be upgraded to include a powered swivel, which means that the seat can be swivelled by retaining pressure on the toggle when the unit reaches the top of the track.

The seat should be returned to the locked travel position to use the stairlift again, it will not swivel in the downward direction.

The swivel can also be operated at the top of the stairs from the remote control, which means the stairlift can be sent between floors in multi user locations.

In case of emergency, the swivelled seat can be released by pushing the manual override button on the side of the seat, while rotating the seat by hand.

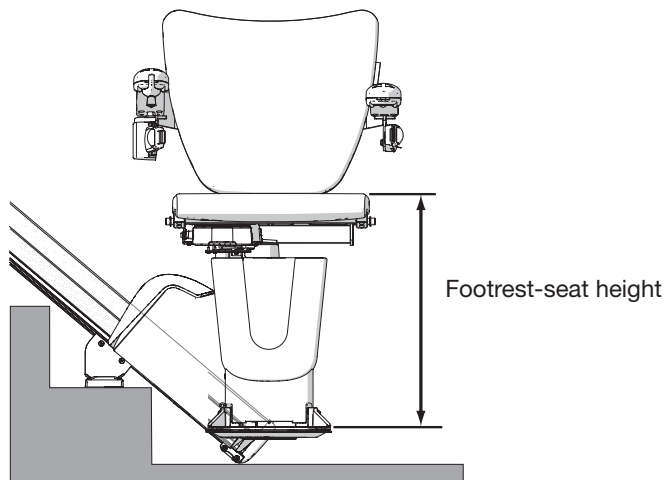
The powered swivel mechanism is available as a module.

The optional modular powered swivel mechanism has been designed to enable on site retrofitting.

11 | Footrest to seat height

The height between the footrest and the seat can be adjusted in 4 different heights:

- 430 mm • 16.92 in
- 460 mm • 18.11 in
- 490 mm • 19.29 in
- 520 mm • 20.47 in



12 | Footrest

The Handicare 1100 Style footrest has safety edges that will automatically stop the stairlift mid journey in the event that an object becomes jammed between the footrest and the stairs.

If the safety edge is activated the lift can only be moved away from the obstacle to facilitate its removal. The stairlift can continue the journey, once the obstacle has been removed.

- The footrest can be folded upwards when the stairlift is not in use to maximize the clear space in the hallway and on the stairs.
- The maximum fold up force is 0.5kg [1.1 lbs], minimizing the risk of injury.
- The safety edges are free moving to avoid trapping solid objects.
- The wipe clean footrest is easy to clean.
- The footrest has an anti-slip surface to help provide a stable platform for users to push against when operating the manual swivel.
- Adjustable footrest angle.



13 | Powered footrest

The footrest can be easily folded manually, however, if the user is reluctant or unable to bend, there is the option to add a powered footrest.

The powered footrest is operated by a switch located under the armrest. Like the operating toggle, the footrest switch operates in the direction of movement. Switching towards the unit will fold the footrest up, switching it away from the unit will lower the footrest.

Just like the powered swivel, the powered footrest is a module as well and can be retrofitted.



14 | Diagnostic display

The diagnostic display is located on the top of the stairlift unit underneath the black transparent cover. The numbers displayed will help the user easily identify the status of their stairlift. The diagnostic codes are listed in the user and installation manuals.

In the event that the lift is left off charge it will beep for 40 seconds to alert the user to the need to check the power supply.



15 | Seat belt

Style

The seat comes standard with an easy to use seat belt. The belt is pulled across the lap of the user when seated and clips into the buckle. It is then easily released by pressing the front of the buckle, the belt will then retract into the belt housing in a controlled manner – much like the seat belt in a car.

The retractable seat belt means that the belt is kept untangled and out of sight when the stairlift is not in use.

As with a car seat belt, once the belt is clipped, the housing will lock the belt in place thereby preventing over extension during use. The seat belt should be used to increase safety every time the stairlift is used.

Benefits of a retractable safety belt

- The retractable nature of the seat belt means that it will fit snugly to a range of user size and shapes.
- The position of the buckle and the holder can be adjusted to best suit needs of each user.
- The buckle has been designed to hold the belt in place securely but to be easily released by the user.



16 | Powerpack

The power pack is not handed so it can be used on either side of the staircase. This makes stock held more flexible and the system well suited for relocation.

The speed is controlled electronically: the soft start/stop design reduces the perception of acceleration or deceleration making the journey smooth for the user. This eliminates jolting for the user thereby lessening impact on the back and the chances of the user slipping forward during travel.

The 4 quiet motor drive mechanisms operate on 24V and are enclosed by creme (RAL 9002) easy to clean safety covers.

These safety covers will automatically stop the stairlift mid journey in the event that an object becomes trapped between the unit and the stairs.

If the safety cover is activated, the lift can only be moved away from the obstacle to facilitate its removal. The stairlift can continue the journey, once the obstacle has been removed.

- The automatic stop prevents the lift from overrunning at either end of the track.
- The safety edges on the footrest are continued on the frame parts and carriage, in order to prevent any risk of injuries.



17 | Batteries

The Handicare 1100 Style runs on two 12V batteries. These dry batteries have no risk of leaking and are maintenance free.

The batteries are charged when the lift is parked anywhere on the rail due continuous charge.

The batteries provide back up in the event of a power failure and will support 10 trips when fully charged.

The expected lifetime of the batteries is three years, this will vary depending on usage and environment.



18 | Power supply/charging

The Handicare 1100 Style does not require a dedicated power supply: power can be supplied via an existing wall socket no more than 8m / 314.96" from either end of the rail. This makes it quick to install and reduces the requirement for disruption to décor and no requirement for building work.

The battery charger's power supply can be connected to the top or bottom end of the rail.

The installer should connect the mains power supply in accordance with local regulations.

The power consumption of the battery charger is less than 20 Watt which means the annual running cost is similar to that of a small light bulb. Consequently the installation of a dedicated power supply is not required.

19 | Remote control

The Handicare 1100 Style is supplied with two wall mounted, hand held remote controls as standard. The user can choose where to have the handset cradles mounted to ensure that a handset is always readily available at either end of the track.

Each remote control has two tactile buttons, which control the stairlift's movement up and down the staircase.

- The slightly domed (convex) green button with the triangle that points upwards when in the wall mount will send the lift up the stairs when pressed.
- The slightly sunken (concave) red button with the triangle that points downwards when in the wall mount will send the lift down the stairs when pressed.
- Either button will need to be pressed and held down to maintain travel.
- Releasing either button will cause the stairlift to stop.
- When a button is released, it will return to its original raised position. The remote control is an infrared control so it will need to be pointed at the lift during use. Both handsets will be linked to the stairlift so they will not operate any other equipment.
- When there are more installations it's possible to change the IR canal.



20 | Rail

The anodized aluminium rail is supplied self-color as standard. The rounded design minimizes the risk of injury from rail edges. It is the smallest rail on the market.

The rail is designed for a friction drive stairlift without a tooth rack and grease. Therefore, the rail is very clean.

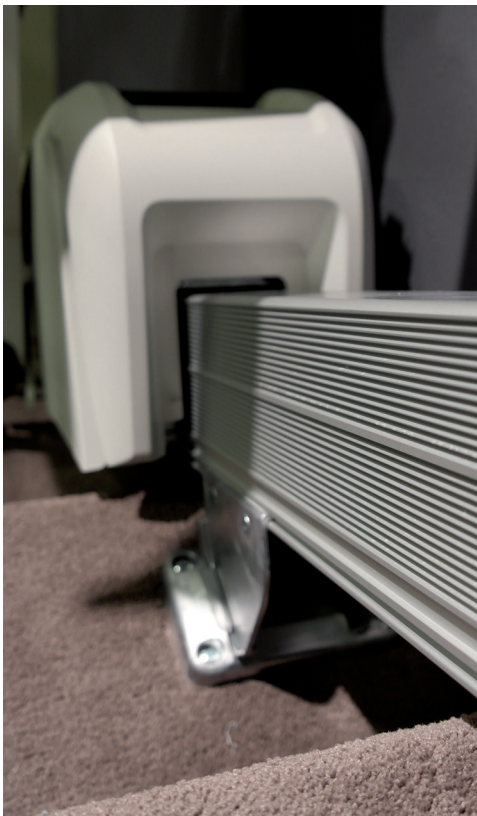
This durable rail is easily maintainable and can be cleaned with a damp cloth.

The rail is cut to length by the installer or at the factory. The rail is secured on the stair tread by specifically designed feet that hold the rail just above the stairs.

Rail extension set

The standard rail is comprised of two x 2.35 m / 92.52" sections. In the event that a staircase is longer, the extension set will add a further 2.35 m / 92.52" to the track.

The Extension set includes 2.35 m / 92.52" rail, a coupling, two supports, and the required fixings.



21 | Applications

Handicare 1100 Style stairlifts are installed indoors, on stairs with rectangular steps. The rail rests about 15 mm / 0.59" above the front nose of the steps.

Left-hand or right-hand versions

The side on which the rail is mounted when viewed from the bottom looking up the stairs determines whether the model is a left-hand or a right-hand version.



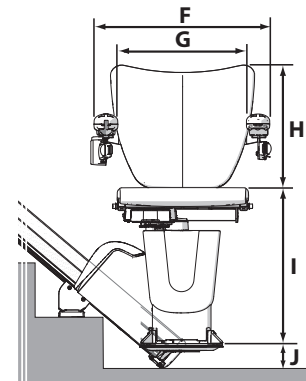
Left



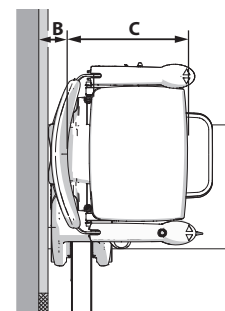
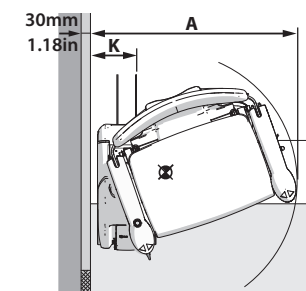
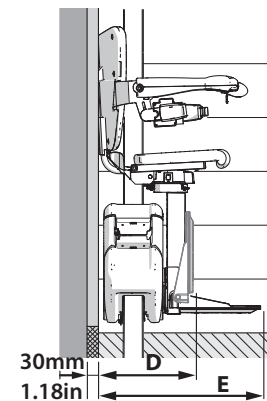
Right

22 | Dimension sketch

		Style
A	Swivel radius	645 mm
B	Minimum to seat back	60 mm
C	Seat depth	390 mm
D	Minimum folded width to footrest	320 mm
E	Minimum open width to edge of footrest	530 mm
F	Armrest width – external	575 mm
G	Armrest width – internal	450 mm
H	Seat back height	400 mm
I	Footrest to seat height	430 - 460 - 490 - 520 mm
J	Minimum footrest height	70 mm
K	Front of track	160 mm



		Style
A	Swivel radius	25.39 in
B	Minimum to seat back	2.36 in
C	Seat depth	15.35 in
D	Minimum folded width to footrest	12.60 in
E	Minimum open width to edge of footrest	20.87 in
F	Armrest width – external	22.64 in
G	Armrest width – internal	17.72 in
H	Seat back height	15.75 in
I	Footrest to seat height	16.93 - 18.11 - 19.29 - 20.47 in
J	Minimum footrest height	2.76 in
K	Front of track	6.30 in

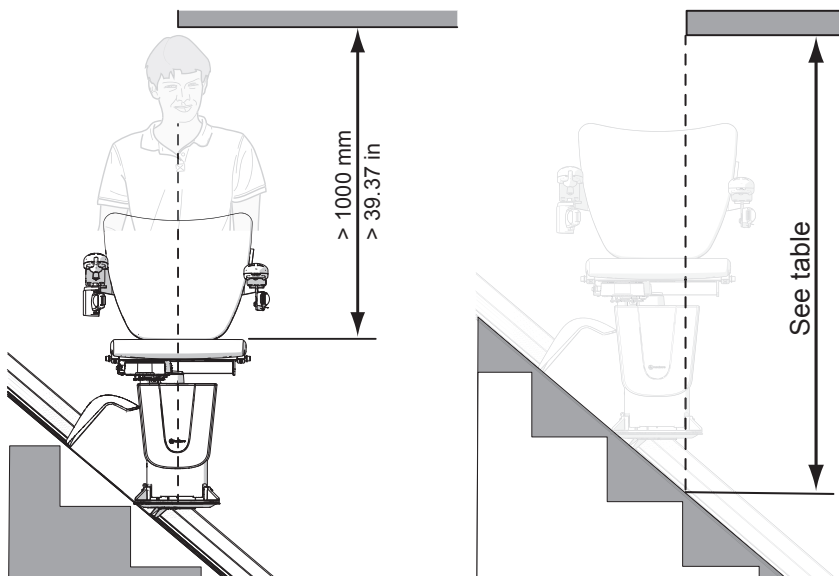


23 | Overhead clearance

To have enough clearance between the head of the end user and the bulkhead, you should measure the distance between the stringer and the bulkhead. This measurement shall not be less than the measurements from the table below.

Angle	Footrest-seat 520 mm	Footrest-seat 490 mm	Footrest-seat 460 mm	Footrest-seat 430 mm
30	1660 mm	1630 mm	1600 mm	1570 mm
35	1670 mm	1640 mm	1610 mm	1580 mm
40	1680 mm	1650 mm	1620 mm	1590 mm
45	1690 mm	1660 mm	1630 mm	1600 mm
50	1705 mm	1675 mm	1645 mm	1615 mm

Angle	Footrest-seat 20.47 in	Footrest-seat 19.29 in	Footrest-seat 18.11 in	Footrest-seat 16.92 in
30	65.35 in	64.17 in	62.99 in	61.81 in
35	65.74 in	64.56 in	63.38 in	62.20 in
40	66.14 in	64.96 in	63.77 in	62.59 in
45	66.53 in	65.35 in	64.17 in	62.99 in
50	67.12 in	65.94 in	64.76 in	63.58 in



24 | Rail intrusion into the staircase

The standard distance between the wall and the front of the rail is 170 mm / 6.69" if there is no stringer or the stringer is less than 10 mm / 0.39" above the step noses (see fig.1)

This distance is applicable to the closest object (see fig. 2)

If the stringer is more than 10 mm / 0.39" above the steps, the distance from the rail to the stringer will be 160 mm / 6.29" (see fig. 3)

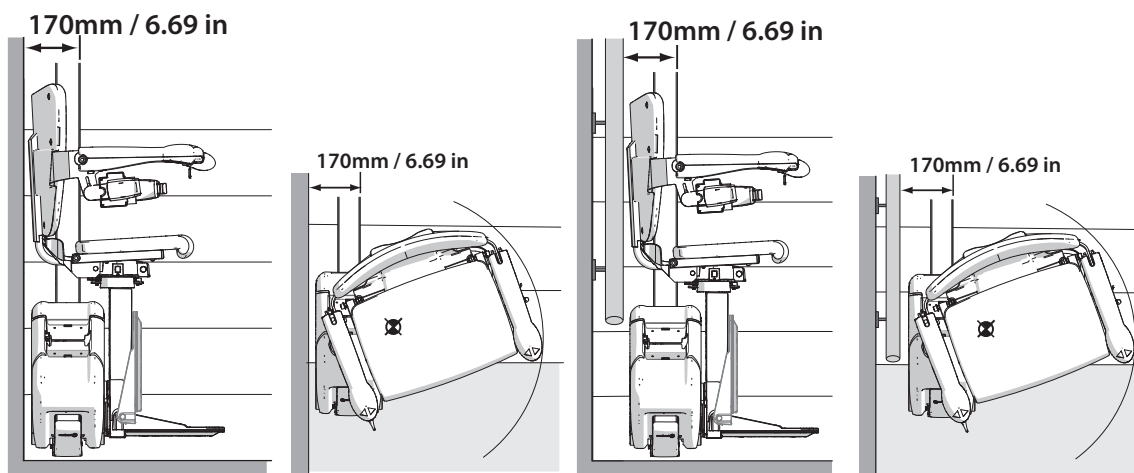


Fig. 1 No stringer or stringer (max. 60 mm / 2.36") less than 10 mm / 0.39" above the step noses.

Fig. 2 Handrail remains.

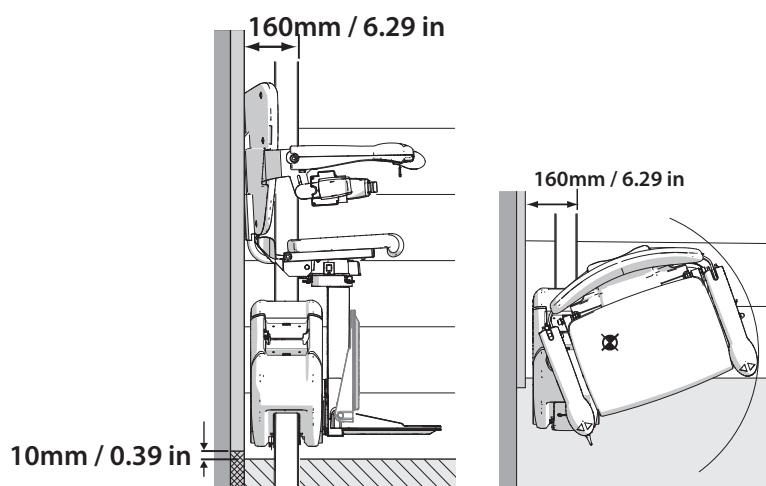


Fig. 3 Stringer more than 10 mm / 0.39" above the step noses.

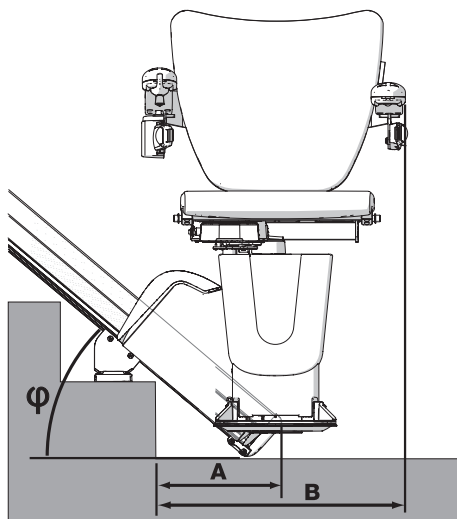
25 | Rail intrusion at the bottom of the stairs

Hallway parking space

The Stairlift will need room to park at the base of the track. The exact space will be determined by the angle of the stairs. A minimum clearance of 50 mm / 1.97" between the folded down armrest and any facing wall is required to prevent the risk of the hand becoming trapped between the armrest and the wall.

Angle	Run out (A)	Minimal distance till obstacle (B)
30°	362 mm	650 mm
35°	318 mm	609 mm
40°	285 mm	579 mm
45°	258 mm	556 mm
50°	237 mm	538 mm

Angle	Run out (A)	Minimal distance till obstacle (B)
30°	14.25 in	25.59 in
35°	12.51 in	23.98 in
40°	11.22 in	22.80 in
45°	10.16 in	21.89 in
50°	9.33 in	21.18 in



26 | Rail intrusion at the top of the stairs

The Handicare 1100 Style can be installed in two ways:

1. Flush footrest landing
2. Footrest landing above the floor

Flush footrest landing

The track extension top is 250 mm / 9.84" (max.). This dimension will mean that the footrest will be flush with the floor when the stairlift reaches the end of the rail. The chair will never go further than the rail.

Footrest landing above floor

The track extension top is 320 mm / 12.60". This dimension will mean that the footrest will be level above the floor when the stairlift reaches the end of the rail. The chair will never go further than the rail.

Flush footrest landing

Angle	Run out (A)
30°	208 mm
35°	196 mm
40°	183 mm
45°	169 mm
50°	154 mm

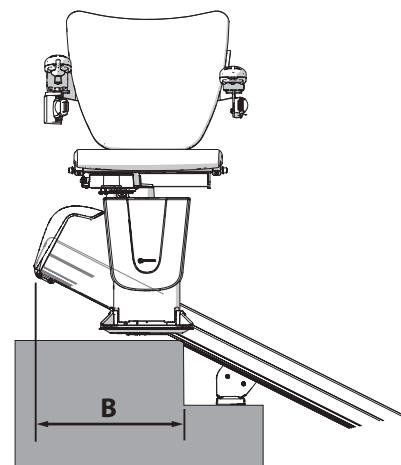
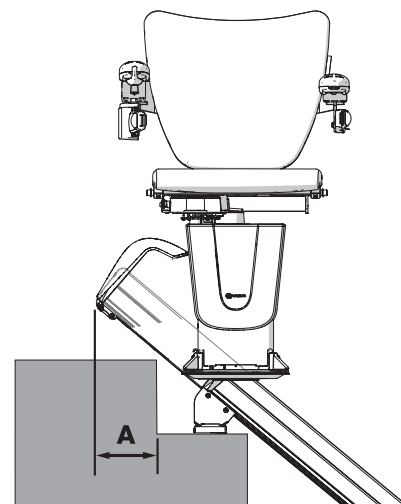
Footrest landing above floor

Angle	Run out (B)
30°	277 mm
35°	262 mm
40°	245 mm
45°	226 mm
50°	206 mm

Flush footrest landing Footrest landing above floor

Angle	Run out (A)
30°	8.19 in
35°	7.72 in
40°	7.20 in
45°	6.65 in
50°	6.06 in

Angle	Run out (B)
30°	10.91 in
35°	10.31 in
40°	9.65 in
45°	8.90 in
50°	8.11 in

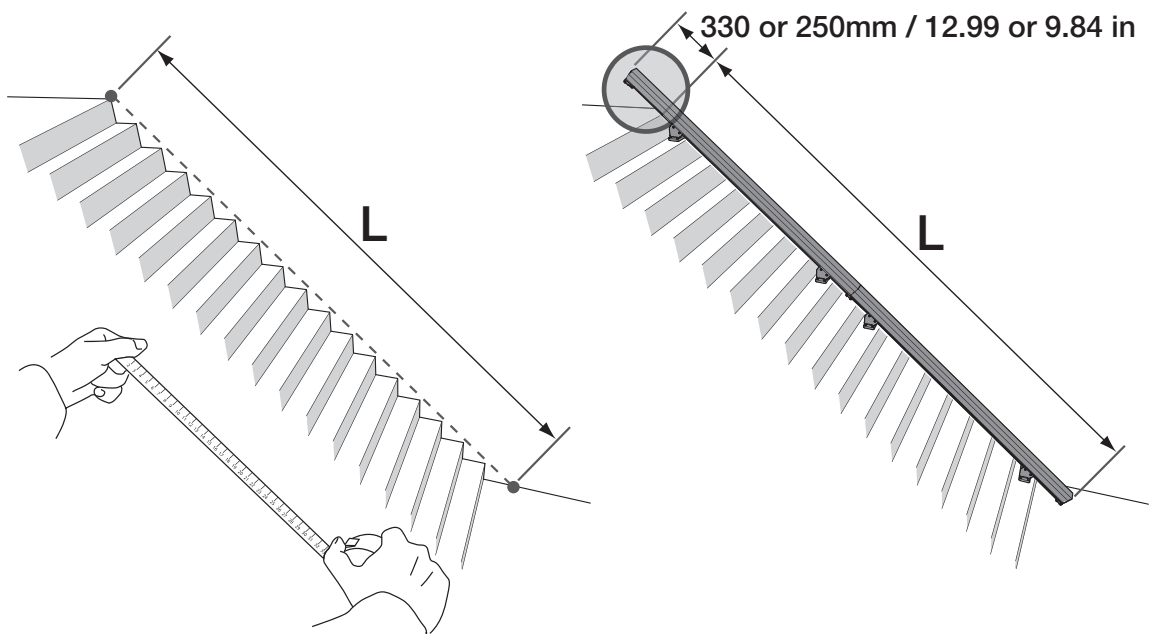


For more detailed rail cutting see page 29.

27 | Measuring the stairs

To determine the length of rail, you measure the length of the stairs from the ground floor to the nose of the last step (L) and add 330 mm / 12.99" (footrest landing above floor) or 250 mm / 9.84" (flush footrest landing) for the intrusion. This total will be your required rail length. For exceptions and the exact rail cutting dimension see the installation manual.

Or use PhotoSurvey.



28 | Rail cutting (mm)

<p>EN [1]Measure the distance between the landingfloor and the ground floor (diagonal) = L [2]Verify the related cut-out dimension C in the table [3]Saw the rail part: 4700 mm / 185.04 in - L - C</p> <p>ES [1]Mida la distancia entre el piso del rellano y el piso de la planta baja (diagonal) = L [2]Compruebe las dimensiones de corte correspondientes C en la tabla [3]Sierre la pieza del riel: 4700 mm - L - C</p> <p>FR [1]Commencez par mesurer la distance entre le sol du palier et le sol du rez-de-chaussée (en diagonale) = L [2]Vérifiez la dimension de découpe correspondante C dans le tableau [3]Découpez l'élément de rail: 4700 mm - L - C</p>	<p>NL [1]Meet als eerste de afstand tussen de verdiepingvloer en de begane grond (diagonaal) = L [2]Lees de samenhangende zaagmaat C uit de tabel [3]Zaag het raildeel op 4700 mm - L - C</p> <p>DE [1]Messen Sie zunächst den Abstand zwischen der Etage und dem Erdgeschoss (diagonal) = L [3]Kontrollieren Sie die zugehörige Ausschnittabmessung C in der Tabelle [4]Sägen Sie das Schienenteil: 4700 mm - L - C</p> <p>IT [1]Misurare la distanza tra il pianerottolo e il piano terra (diagonale) = L [2]Verificare le dimensioni della parte in eccesso C nella tabella [3]Segare il segmento della guida: 4700 mm - L - C</p>
---	---

Flush footrest landing
 Voetenplank gelijk met verdiepingvloer- Reposapiés a ras del piso-Bündige Fußstützen-Landung-Repouse-pieds au niveau du sol du palier- Pedana poggiapiedi a filo

Ø (Angle)	C (Excess length required)
(30°)	227mm / 8.94 in
(32°)	231mm / 9.09 in
(34°)	235mm / 9.25 in
(36°)	239mm / 9.41 in
(38°)	243mm / 9.57 in
(40°)	247mm / 9.72 in
(42°)	251mm / 9.88 in
(44°)	255mm / 10.04 in
(46°)	259mm / 10.20 in
(48°)	263mm / 10.35 in
(50°)	267mm / 10.51 in

Footrest landing above floor
 Voetenplank boven verdiepingvloer- Reposapiés encima del piso- Fußstützen-Landung über dem Boden- Repouse-pieds au-dessus du sol du palier- Pedana poggiapiedi sopra il pavimento

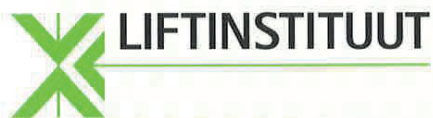
70mm
 ≈ 2.76 in

Ø (Angle)	C (Excess length required)
(30°)	307mm / 12.09 in
(32°)	311mm / 12.24 in
(34°)	315mm / 12.40 in
(36°)	319mm / 12.56 in
(38°)	323mm / 12.72 in
(40°)	327mm / 12.87 in
(42°)	331mm / 13.03 in
(44°)	335mm / 13.19 in
(46°)	339mm / 13.35 in
(48°)	343mm / 13.50 in
(50°)	347mm / 13.66 in

4700mm / 185.04 in - **L - C**

- C** (Excess length required)
- C** (nodige extra lengte)
- C** (Longitud excesiva requerida)
- C** (Überlänge erforderlich)
- C** (Longueur excédentaire requise)
- C** (Lunghezza in eccesso richiesta)

29 | Certificate



EC-TYPE EXAMINATION CERTIFICATE

Acting under the Warenwetbesluit machines issued by Liftinstituut B.V.
 identification number Notified Body 0400,
 commissioned by departmental order no. 2018-0000125182

Certificate no.	: NL17-400-1001-015-10	Revision no.:	4
Description of the product	: Battery operated stairlift with chair carriage for a straight rail.		
Trademark, type	: Handicare 1100		
Name and address of the manufacturer	: Handicare Stairlifts B.V. Newtonstraat 35 1704SB Heerhugowaard The Netherlands		
Name and address of the certificate holder	: Handicare Stairlifts B.V. Newtonstraat 35 1704SB Heerhugowaard The Netherlands		
Certificate issued on the following requirements	: Machinery directive 2006/42/EC		
Certificate based on the following standard	: EN 81-40:2008, ISO 9386-2:2000		
Test laboratory	: None		
Date and number of the laboratory report	: None		
Date of EC-type examination	: August 2016 – June 2017 – July 2017- August 2017-July 2018 - December 2018, March 2019.		
Additional document with this certificate	: Report belonging to the EC-type examination certificate no.: NL17-400-1001-015-10 REV.4		
Additional remarks	: Maximum load 130 140 kg Maximum speed 0.15 m/s Maximum inclination 45° - 50° 30° - 45° Maximum rail length 7,05 m. Additional feature Hinged rail Furthermore see chapter 5 of the report belonging to this EC-type examination certificate.		
Conclusion	: The machine meets the requirements of the Machinery directive 2006/42/EC taking into account any additional remarks mentioned above.		

Amsterdam

Date : 26-03-2019
 Valid until : 31-07-2019

ing. P.J. Peeters
 Manager

Certification decision by





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