savaria



Handicare 1000
Sales manual

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1 Introduction to Handicare 1000

Definition
This stairlift is suitable for the transportation of one person at a time.

The Handicare 1000 is a stairlift specially designed for use on straight stairs only. The rail (150 mm x 85 mm = 5 7/8” x 3 5/16”) is made of anodised aluminium and is fitted on the stairs, not the wall.

The rail has a standard length of 5 m = 196 7/8” (2 parts of 2,5 m = 2 parts of 98 7/16”). In hallways when there is a doorway close to the bottom of the stairs a manual or an automatic hinge may be fitted.

The handed power pack is different for left and right handed installations (when looking up the staircase from the bottom of the stairs) has a standard battery backup which means it will continue to work in the event of a power cut. The rail has two charge points as standard, one at the top and one at the bottom. The battery will charge when the lift is parked on these points; additional charge points can be added to provide park points along the track if required.

The lift can be delivered with the Smart seat only and can have a powered swivel and a powered footrest as an option.

Intended user
1. Users must be able to either see or hear or if not receive assistance in the use of the stair lift.
2. Users must have sufficient strength and mental capacity to independently operate the controls and seat belt of the stair lift or with the assistance of a carer be able to remain in a stable position through the lift’s travel.
3. Users must have sufficient strength and mental capacity to independently understand and perform the safety instructions as written in the user manual or receive assistance in the use of the stair lift.
4. Users younger than 12 years and smaller than 1.35 m = 53 3/16” shall not be allowed to independently use the stair lift.

Details	
Power supply:	100 – 240V~
Frequency:	50 / 60 Hz
Current:	1.0 Amp
Power consumption:	360 Watt
Heavy duty version:	160 kg = 350 lb
Extra heavy duty (XXL)	200 kg = 440 lb
Maximum angle of inclination:	56°
Minimum angle of inclination:	21°
Maximum angle of inclination (XXL):	45°
Maximum angle of inclination with hinge:	52°
Minimum angle of inclination with hinge:	27°
Speed:	0.07 m/sec = 13,7 ft/min
Standard rail length:	5 mtr = 196 7/8”
Maximum rail length:	
Minimum rail length:	0,9 mtr = 35 7/16”
Starts per hour:	10 if rail is 5 mtr = 196 7/8”
Rail colour:	anodised aluminium

Standard features

- Retractable seat belt with immobilizer switch
- Fold up seat, armrests and footrest
- Key operated switch
- Emergency stop
- Over speed governor
- Eccentric manual swivel seat
- Wall-mounted hand held controls at the top and bottom of the stairs
- Charge point up- and downstairs
- Power-supply point at the top or bottom of the stairs
- Heavy duty version

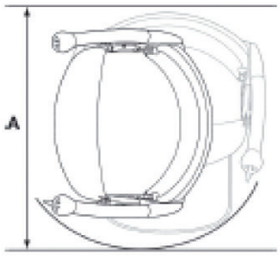
Available options

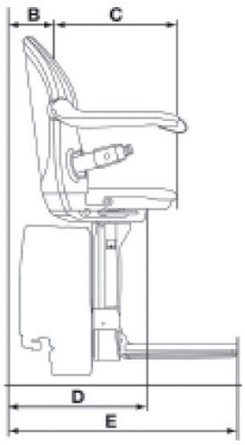
- Centric powered swivel seat
- Eccentric powered swivel seat
- Powered footrest
- Automatic hinged track
- Manual hinged track
- Perch seat
- Colour options
- Outdoor version
- Extra heavy duty version

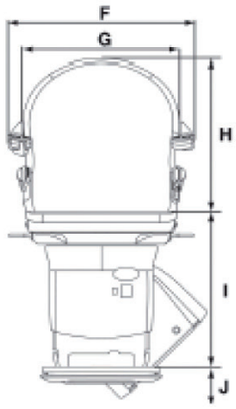


2 | Dimensions

Handicare 1000 (XL + XXL)
Straight Stairlifts



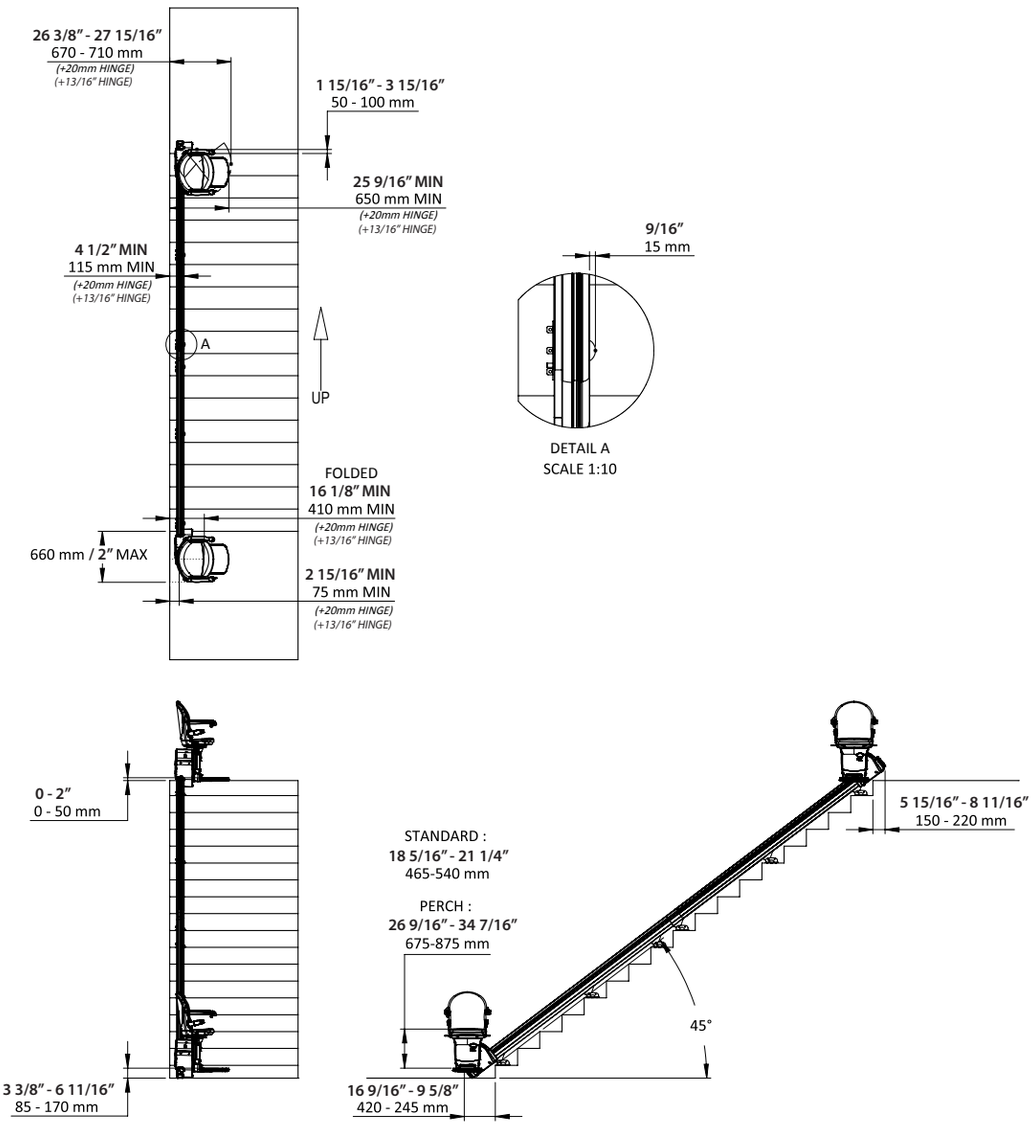




Smart seat		Dimensions
A	Minimum swivel radius	670mm = 26 3/8”
	With armrest spacers	695mm = 27 3/8”
	With extended armrest spacers	710mm = 27 15/16”
B	Wall to inner seat back*	75mm = 2 15/16”
C	Seat depth	425mm = 16 3/4”
D	Minimum folded width to footplate*	385mm = 15 3/16”
E	Minimum open width to edge footplate*	650mm = 25 9/16”
F	Armrest width - external	550mm = 25 9/16”
	With armrest spacers	590mm = 23 1/4”
	With extended armrest spacers	635mm = 25”
G	Armrest width - internal	465mm = 18 5/16”
	With armrest spacers	520mm = 20 1/2”
	With extended armrest spacers	565mm = 22 1/4”
H	Seat back height	455mm = 17 15/16”
I	Footplate to seat height	
	Standard seat option	465-540mm = 18 5/16”-21 1/4”
	Perch seat option**	675-875mm = 26 9/16”-34 7/16”
J	Minimum footplate height	70mm = 2 3/4”
Minimum track intrusion into staircase		115mm = 4 1/2”
Heavy duty version (XL)***		160 kg = 350 lb
Extra heavy duty version (XXL)***		200 kg = 440 lb
Speed		0.07m/sec 13,7 ft/min
Staircase angle		21°

* +45mm = 1 3/4” for extra heavy duty (XXL) 2-way swivel with extended armrest spacers
** Not available for extra heavy duty (XXL)
*** Not available with hinged rail

Some of the above dimensions depend on the characteristics of the staircase in the home. Please consult the sales manual for further information about these dimensions and features of this seat. All information is provided in good faith but does not constitute a guarantee. Savaria reserves the right to alter designs and specifications without prior notice.


26 3/8" - 27 15/16"
670 - 710 mm
(+20mm HINGE)
(+13/16" HINGE)
1 15/16" - 3 15/16"
50 - 100 mm
25 9/16" MIN
650 mm MIN
(+20mm HINGE)
(+13/16" HINGE)
4 1/2" MIN
115 mm MIN
(+20mm HINGE)
(+13/16" HINGE)
A
UP
9/16"
15 mm
DETAIL A
SCALE 1:10
FOLDED
16 1/8" MIN
410 mm MIN
(+20mm HINGE)
(+13/16" HINGE)
660 mm / 2" MAX
2 15/16" MIN
75 mm MIN
(+20mm HINGE)
(+13/16" HINGE)
0 - 2"
0 - 50 mm
3 3/8" - 6 11/16"
85 - 170 mm
STANDARD :
18 5/16" - 21 1/4"
465-540 mm
PERCH :
26 9/16" - 34 7/16"
675-875 mm
45°
5 15/16" - 8 11/16"
150 - 220 mm
16 9/16" - 9 5/8"
420 - 245 mm

3 The Smart seat



Cocoa

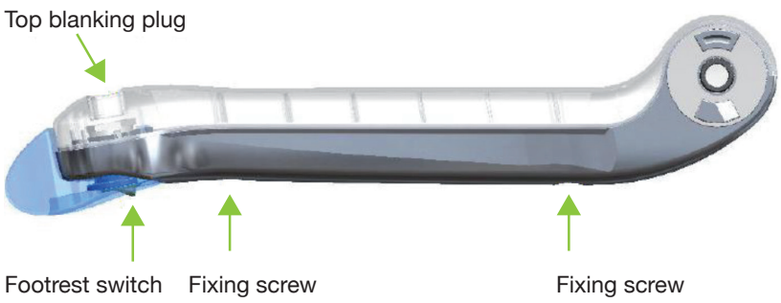
Ruby

Sand

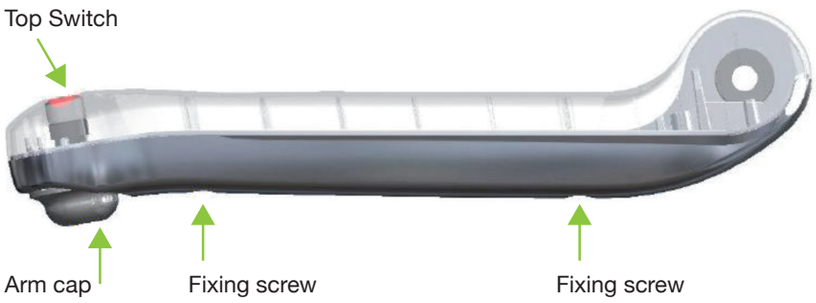
Slate

- The seat can be supplied with the operating toggle on the left or right armrest.
- Easy to clean.
- Both armrests, the seat and the footrest can be folded up independently of each other to provide optimum space on the stairs.
- The offset seat swivel enables to user to get closer to the landing to get on and off the seat more safely. The seat must be returned to and locked in the travel position before use.
- Centric swivel is available as an option.
- Powered swivel is available as an option.
- Powered footrest is available as an option that can be operated from the armswitch.
- The stairlift cannot be operated from the toggle when the downside armrest is folded up; it can still be operated by the hand held remote controls
- The width between the arms can be increased with additional spacers: One extra set 45 mm = 1 3/4” from 460 mm = 18 1/8” to 505 mm = 19 7/8” width between the arms
  Two extra sets 90 mm = 3 9/16” from 460 mm = 18 1/8” to 550 mm = 21 11/16” width between the arms.
  The swivel radius will increase with 23 mm = 15/16”.
- The distance from the seat to the footrest is adjustable from 485-630 mm = 19 1/8”-24 13/16” in increments of 25 mm = 15/16”.
- The upholstery is made of leather look, flame retardant foam available in a choice of four colours.

Control arm:



Non-control arm:



4 The perch seat



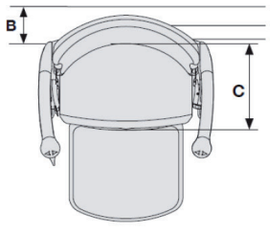
The perch seat is designed primarily to assist users with limited hip or knee flexibility. The main factor to consider with client suitability is whether or not the client can stand for the duration of the journey.

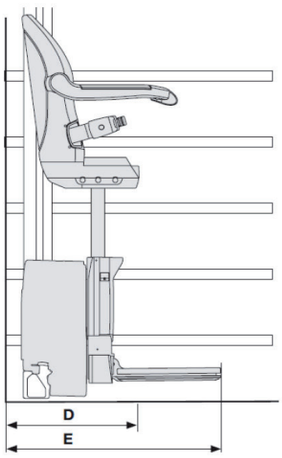
It can however be used if the staircase is too narrow for a standard lifts (i.e. there is a knee clash).

- Powered footrest is available as an option operated from an arm switch.
- The perch seat has a retractable seatbelt as standard with the option of a Velcro seatbelt as an alternative
- The load for the perch seat is 136 kg / 300 lb.

NB. The perch seat must be used with the large footrest.
The perch is not compatible with a hinged rail or use outdoor
The perch seat cannot be used in combination with manual or powered swivel.

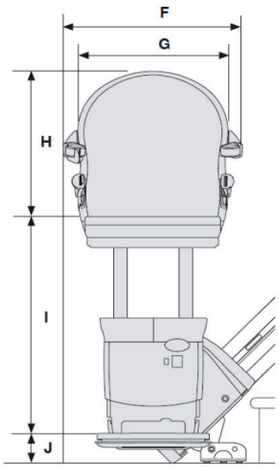
Perch seat - Handicare 1000
Straight Stairlifts





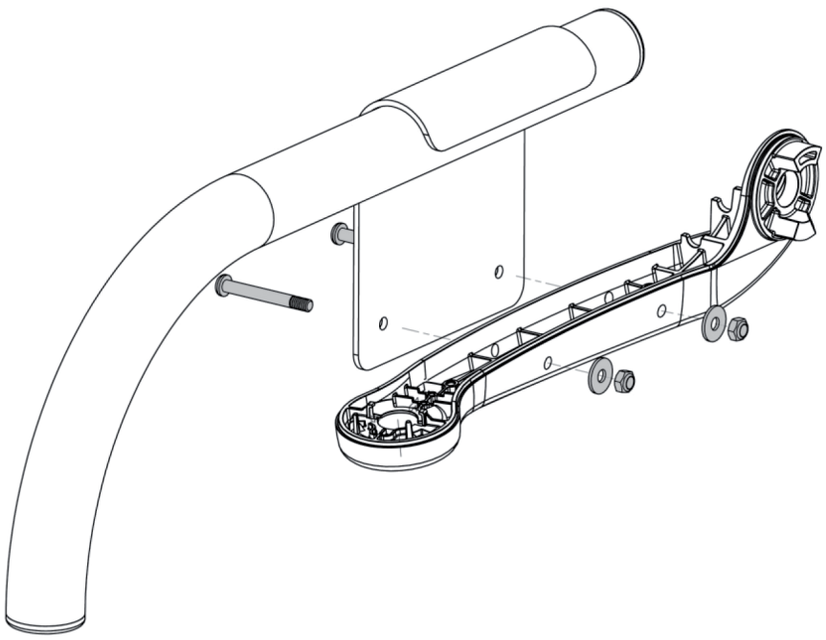
Perch seat		Dimensions
A	Minimum swivel radius*	-
B	Wall to inner seat back	75mm = 2 15/16”
C	Seat depth	247mm = 9 3/4”
D	Minimum folded width to footplate	385mm = 15 3/16”
E	Minimum open width to edge footplate	650mm = 25 9/16”
F	Armrest width - external	550mm = 21 11/16”
G	Armrest width - internal	465mm = 18 5/16”
H_1	Seat back height	455mm = 17 15/16”
H_2	Seat height (armrest folded)	597mm = 23 7/16”
H_3	Seat height (barrier arm folded)	745mm = 29 5/16”
I	Footplate to seat height	675-875mm = 26 9”/16-34 7/16”
J	Minimum footplate height	70mm = 2 3/4”
Minimum track intrusion into staircase		115mm = 4 1/2 inch
Maximum weight limit		136kg = 300lb
Speed		0.07m/sec 13,7 ft/min
Staircase angle		21 - 56°

* Fixed seat



Some of the above dimensions depend on the characteristics of the staircase in the home. Please consult the sales manual for further information about these dimensions and features of this seat. All information is provided in good faith but does not constitute a guarantee. Savaria reserves the right to alter designs and specifications without prior notice.

As an option the perch seat can have an extra barrier arm.



5 The outdoor version



- The Handicare outdoor can be fitted minimum 10 miles from the coast.
  The lift is fitted with a weatherproof cover for parking.
- The pcb and switches are coated and the steel parts have an anti-rust treatment.
- The seat is available in grey color only.
- The remotes function on radio frequency 915 Mhz.
- The lift is suitable for 160 kg / 350 lb.
- Not available with automatic hinge or perch.
- Only with large footrest



6 The heavy duty version XL



- Rated load of 160 kg.
- Eccentric swivel
- Centric swivel as an option
- Powered footrest option
- Powered swivel option
- Not available with perch
- Rail is fitted with larger support plates
- Extended arm spacers as option

Manual swivel centric	-
Manual swivel eccentric	√
Manual one way swivel	√
Manual two way swivel	-
Powered swivel centric	0 (no hinge)
Powered swivel eccentric	0
Powered one way swivel	0
Powered two way swivel	0 (no hinge)
Swivel 45° manual	√
Swivel 70° manual	-
Swivel 85 / 90° manual	√
Swivel 45° powered	-
Swivel 70° powered	-
Swivel 85 / 90° powered	0 (no hinge)

√ = standard
- = not possible
0 = option

7 The extra heavy duty version XXL



The Handicare 1000 XXL has some extra benefits over a standard Handicare 1000:

- An additional 40 kg meaning you can confidently accommodate users up to 200 kg.
- Central swivel due to an improved center of gravity.
- Double arm spacer – increases the width between the arms of the smart seat from 550 mm = 21 11/16” to 637 mm = 25 3/16”.
- XXL Velcro belt – this extra long black belt has Velcro on either end to hold it firmly in place (1100 mm = 43 5/16” longer than the standard Velcro belt).
- Powered swivel as standard – this makes turning the stairlift seat to get in and out on the landing as easy as possible. You cannot ride in a swiveled position.

Exceptions:

- No perch seat possible

Manual swivel centric	-
Manual swivel eccentric	-
Manual one way swivel	-
Manual two way swivel	-
Powered swivel centric	√ (no hinge)
Powered swivel eccentric	-
Powered one way swivel	-
Powered two way swivel	√ (no hinge)
Swivel 45° manual	-
Swivel 70° manual	-
Swivel 85 / 90° manual	-
Swivel 45° powered	-
Swivel 70° powered	-
Swivel 85 / 90° powered	√ (no hinge)
Seat position switch	√

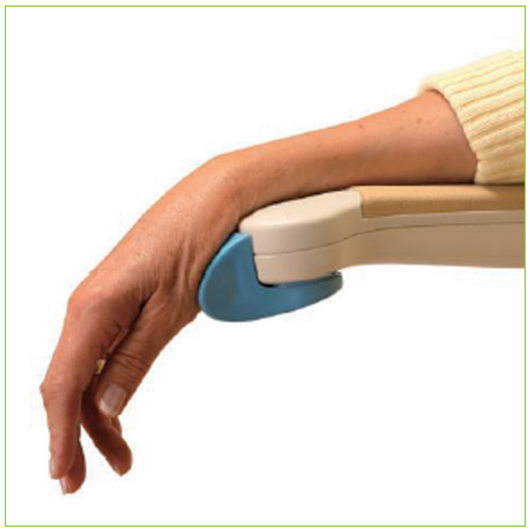
√ = standard
- = not possible
0 = option

8 The operating toggle

The stairlift is activated by holding the toggle control in the direction of desired travel. The Handicare 1000 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 as standard. It is easy to re-hand if required.

- Superlight and easy to use control.
- Logical operation in the direction of movement.
- The operating control is user friendly, it only requires minimal pressure to operate and it's 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.





9 The key switch

The key-operated switch is a standard fitting and is provided with two keys.
Extra keys can be ordered from Savaria.

Removal of the key will disable the entire system.

The preclusion of unauthorized use (grandchildren, public staircases!).

On position
When the key-operated switch is in the “on” position the stairlift can be operated using the control or the remote control.

Off position
When the key-operated switch is in the “vertical” position the stairlift cannot be operated by either the control or the remote control.

The battery will also continue to charge when the key-operated switch is in the “off” position.





10 | The armrest switches

User safety is always paramount in our mind: the Handicare 1000 can only be operated from the toggle if the armrests are fully folded down.

User convenience is also a priority: the Handicare 1000 series stairlifts can be operated, via the remote control, when the arms are folded up. This means the unit can be folded up and sent to a park point to maximise clear space in the hall and on the stairs.

11 | The emergency stop

The Handicare 1000 seat has an emergency stop in the armrest. In case of emergency this button can be pushed to prevent operation from the toggle in the armrest and the remotes.

Pushing the button reactivates the toggle and remotes so they will become operational again.

The emergency stop also deactivates any powered options that might be part of the configuration. Pushing releases the button and reactivates the powered options.



12 The on/off switch

The on/off switch is standard on the carriage and switches off the power on the lift.

When switched to the off position the lift will not operate from the toggle or the remote controls.

When switched to the off position the lift will not charge even if the lift is on a charge point.

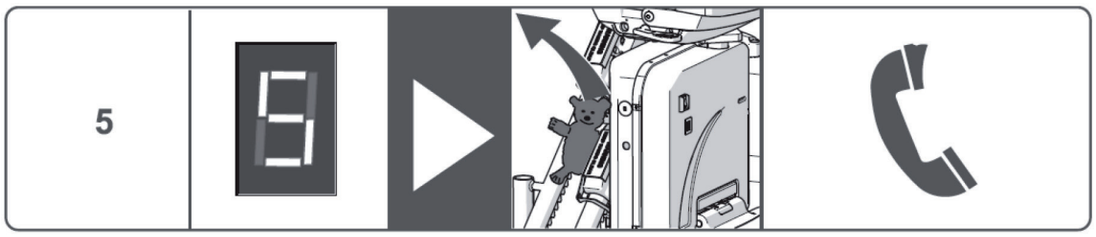


13 The diagnostic display

The diagnostic display is on the front of the stairlift unit. 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.

When the lift is not on the charging, the lift will beep for 10 seconds to alert the user.

Example:



14 | Powered swivel seat

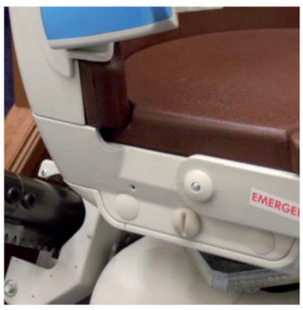


The Handicare 1000 Smart Seat can be upgraded to add a powered swivel which means that the seat can be swivelled by continuing to move the toggle again in the direction of travel when the unit reaches the top of the track.

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

The seat should be returned to the locked travel position to use the stairlift again. You can have a one way powered swivel that only swivels at the top of the stairs or you can have a two way powered swivel that swivels at the top and the bottom of the stairs.

The seat can be turned from the swivel to the travel position by the remote controls.





In case of emergency a swivelled powered seat can be overridden be activating the emergency release mechanism. If activated this will disable the power swivel feature until the seat is placed back in its original position.

Stairlift products	**1000**		
Seats			
Seat options	Smart XL	Smart XXL	Smart Perch
Manual swivel centric	-	-	-
Manual swivel eccentric	√	-	-
Manual one way swivel	√	-	-
Manual two way swivel	-	-	-
Powered swivel centric	0 (no hinge)	√ (no hinge)	-
Powered swivel eccentric	0	-	-
Powered one way swivel	0	-	-
Powered two way swivel	0 (no hinge)	√ (no hinge)	-
Swivel 45° manual	√	-	-
Swivel 70° manual	-	-	-
Swivel 85 / 90° manual	√	√	-
Swivel 45° powered	-	-	-
Swivel 70° powered	-	-	-
Swivel 85 / 90° powered	0 (no hinge)	√ (no hinge)	-
Seat position switch	√	√	-

√ = standard
- = not possible
0 = option

15 The footrest

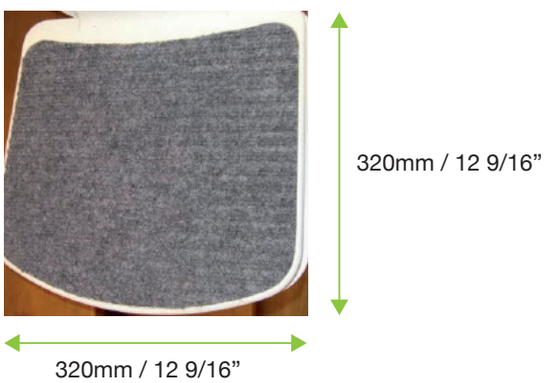
Seats			
Footrest options	Smart XL	Smart XXL	Smart Perch
Manual folding (no linkage)	√	√	√
Footrest linkage (Non pow)	-	-	-
Powered from arm	0	0	-
Linkage with armrest	-	-	-

The Handicare 1000 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 maximise the clear space in the hallway and on the stairs.

The footrest has an anti-slip surface for users to push against when operating the manual swivel. The seat can be fitted with the large footrest only

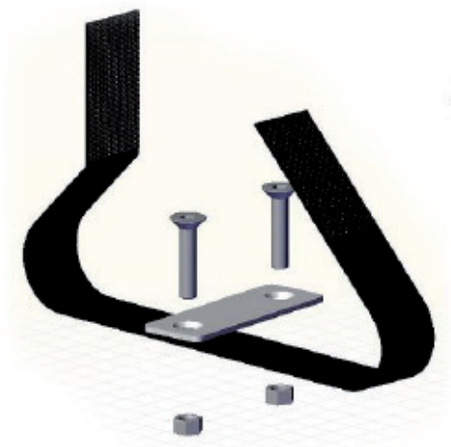


√ = standard
- = not possible
0 = option

Feet Restraining Straps

Feet restraining strips can be fitted as an option where users need to have feet held safely in place during travel.

Velcro Kit - 226658.5000



Each Kit Contains

000521.52063	- Clamp Plate (x2)
000925.5074	- M6 x 25 C'sk Socket Head Screw (x4)
000933.0038	- M6 Nut (x4)
658001.5006	- Webbing Strap with Velcro (x2)

Clip Kit - 226658.5001



Each Kit Contains

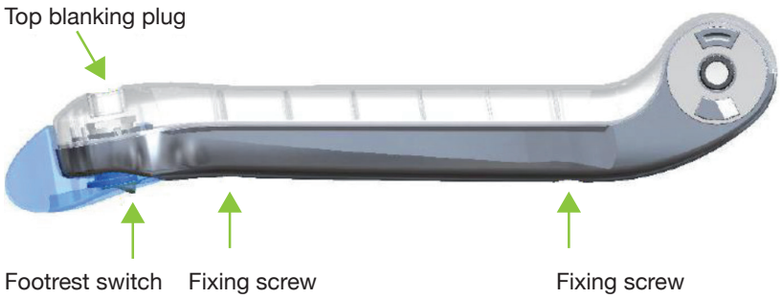
000521.52063	- Clamp Plate (x2)
000925.5074	- M6 x 25 C'sk Socket Head Screw (x4)
000933.0038	- M6 Nut (x4)
658001.5010	- Webbing Strap with Clip (x2)

16 | The powered footrest

The gas assisted footrest can be easily folded manually, however if the user wishes to avoid bending, there is the option to add a powered footrest.

The powered footrest is operated by a switch located under the armrest. As with the operating toggle, the footrest switch operates in the direction of movement.

Control arm:



Just like the powered swivel, the powered footrest is modular and can be installed after installation.

17 The seat belt



The Handicare 1000 comes with an easy to use retractable seat belt as standard. The belt is pulled across the lap of the user when seated and clipped into the buckle.
It is easily released by pressing the front of the buckle, the belt will than retract into the belt housing in a controlled manner, much like the seatbelt in a car.
The retractable seat belt means that the belt is kept rolled up and out of sight when the stairlift is not in use.

As with a car seat belt, once the belt is clipped in the housing will lock the belt in place thereby preventing over extension during use.
The seat belt should always be used to increase safety when the stairlift is used.
The buckle has been designed to hold the belt in place securely but to be easily released by the user.
The position of the buckle can be swapped from left to right on installation to best suit needs of the user.

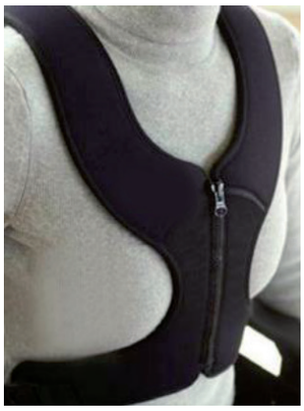
If a longer seatbelt is required, an extension is available.

- The current standard belt is 1000mm = 39 3/8”
- The extension is 300mm in length = 11 13/16”





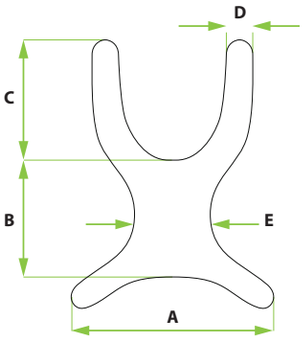
Velcro seatbelt could fitted an alternative for users who may prefer this to a clip fastening belt as it is simpler to operate.



Body Harness
If a higher degree of upper body support is required we can supply the Smart Seat with a body harness.
This soft texture zip harness is supplied in three sizes based on the user's shoulder width.

Small: 28-33 cm = 11 1/16"-13"
Medium: 33-41 cm = 13"-16 1/8"
Large: 41-48 cm = 16 1/8"-18 15/16"

Please note that non-retractable seatbelts do not comply with EN81-40:2020, but do comply with the Machinery Directive 2006/42/EC



	A	B	C	D	E
Small	23cm=9 1/16"	14cm=5 7/16"	16cm=6 5/16"	4cm=1 9/16"	12cm=4 11/16"
Medium	30cm=11 13/16"	18cm=7 1/16"	20cm=7 7/8"	4cm=1 9/16"	13cm=5 1/8"
Large	38cm=14 15/16"	21cm=8 1/4"	23cm=9 1/16"	6cm=2 3/8"	13cm=5 1/8"

Seats			
Seat options	Smart XL	Smart XXL	Smart Perch
Clip seat belt	-	-	-
Velcro seat belt	0	-	0
XXL velcro seatbelt	0	-	0
Retractable seat belt side fixing	√	√	√
Body harness	0	0	0
H-fixation	-	-	-
Foot restraint clip	0	0	0
Foot restraint velcro	0	0	0
Safety belt switch	√	√	√

√ = standard
- = not possible
0 = option

18 | The power pack



The power pack is either left-handed or right-handed

The speed is controlled electronically; the soft start/stop design reduces the perception of acceleration or decelerating 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 quiet motor drive mechanisms operate on 24V and are enclosed by an easy to clean safety cover.

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.

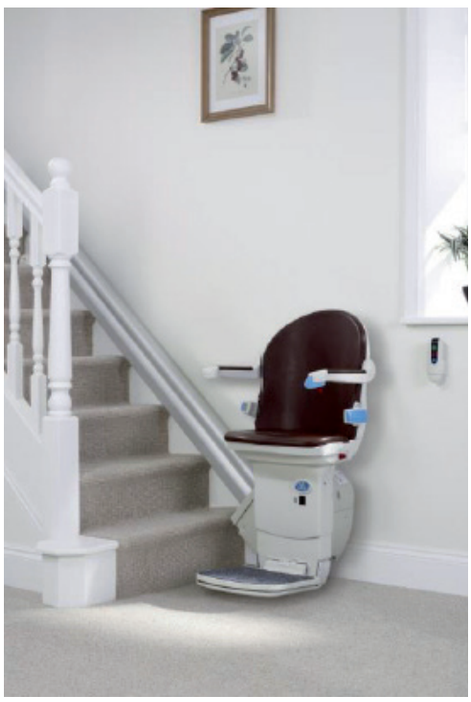
19 The batteries



The Handicare 1000 runs on two 12 V batteries. These dry batteries have no risk of leaking and are maintenance free.

The batteries are charged when the lift is parked on the charge points located at the top and bottom end of the track.

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



20 The power supply/charging

The Handicare 1000 does not require a dedicated power supply, power can be supplied via an existing wall socket located no more than 9 m (29 feet) from either end of the rail. This makes it quick to install and there is no need for disruption to décor and no requirement for building work.

The battery-charger's power supply should always be connected to the top 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 50 Watt which means the annual running cost is similar to that of a light bulb.

Consequently the installation of a separate group is not required.

21 | The remote control



The remote control has three tactile buttons, two of which can be used to move the stairlift. The remote controls can be operated when hand held or when placed in the wall mounted holder upstairs and downstairs.

- Pressing the domed green button causes the stairlift to ascend.
- Pressing the red dipped button causes the stairlift to descend.
- The button must be pressed continuously to operate the stairlift.
- The button automatically returns to the neutral when released, and the stairlift will stop.

The power supply for the control is comprised of two “AA” battery. The client can replace the battery when required. The remote control has a small led light located above the green button. When the battery needs replacing this light will go out.

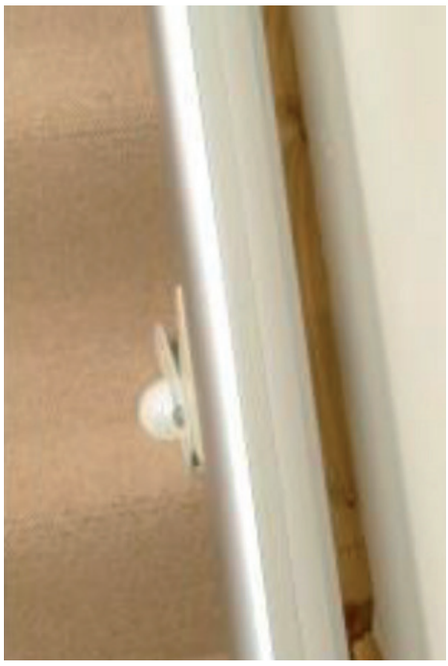
Each lift includes two remote controls as standard.

Pressing the blue button “P” causes the stairlift to travel to the parking position and stop on the charge point where fitted.

Green: up
Red: down
Blue: park (upwards only)

The remote control is an infrared control so it will need to be pointed at the lift during use. Both handsets are linked to the stairlift so they will not operate any other equipment.

22 The rail

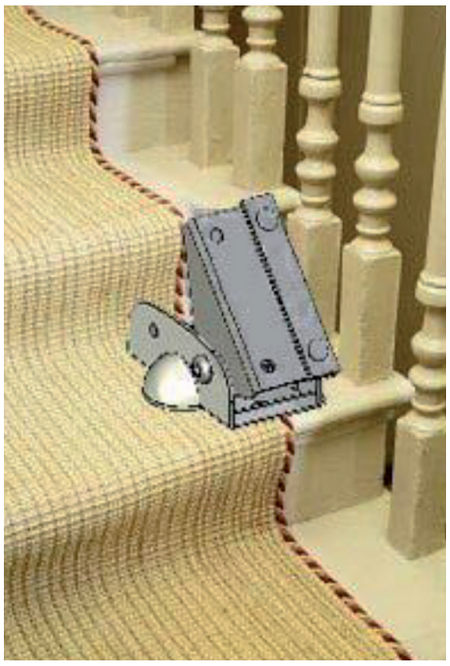


The aluminium rail is supplied self-colour as standard.
This durable track is easily maintained and can be cleaned with a mild detergent.

The rail can be cut to length by the installer and is secured on the stairs tread by specifically designed feet that hold the track just above the stairs.

Extension set
The standard rail is comprised of 2 sections of 2,5 m = 98 7/16”.
An extension set of 2 m = 78 3/4” is available for longer stairs.
This extension set is comprised of a 2 m = 78 3/4” length of rail, a coupling, 2 supports, and the required fixing materials.

23 | Carpet runners



A runner is carpeting that runs down the middle of the stairs leaving the edges of the tread exposed. Runners may be directly stapled or nailed to the stairs, or may be secured by a bar that holds the carpet in place where the tread meets the riser.

You may find the carpeting on each tread finishes at around the same point that the feet of stairlift track would fit to the stairs. This means that the feet must be positioned on an uneven surface so to address this Savaria offer custom spacers that can be used to compensate for the height of the runner and provide a level and stable mounting for the track feet.

The Handicare 1000 requires spacers (part number 000521.52075) if the runner is less than 150 mm = 5 15/16” from the wall.

24 Rail extension at the bottom of the stairs



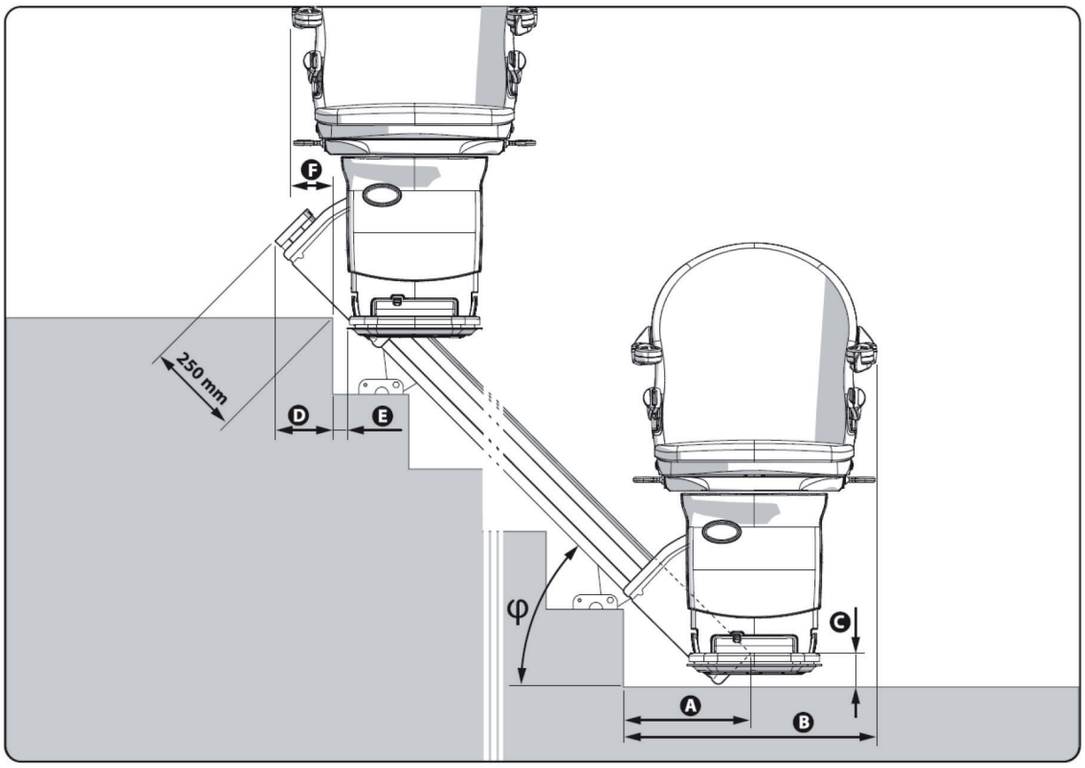
Extension at the bottom of the stairs.

Hallway parking space
The rail will extend about 400 mm = 15 3/4” from the base of the stairs.

The seat’s armrest projects beyond the rail by 660 mm = 26”.

A minimum clearance of 100 mm = 3 15/16” 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.

Handicare 1000



Angle	A	B	C
27°	421mm = 16 9/16”	623mm = 24 1/2”	102mm = 4”
30°	386mm = 15 3/16”	602mm = 23 11/16”	102mm = 4”
35°	343mm = 13 1/2”	581mm = 22 7/8”	102mm = 4”
40°	311mm = 12 1/4”	571mm = 22 1/2”	102mm = 4”
45°	286mm = 11 1/4”	566mm = 22 11/16”	95mm = 3 3/4”
50°	266mm = 10 1/2”	572mm = 22 1/2”	86mm = 3 3/8”
56°	245mm = 9 11/16”	582mm = 22 15/16”	84mm = 3 5/16”

25 | The hinge

Manual hinge
If there is a doorway close to the bottom of the stairs that would be obstructed by a standard rail a manual hinge may be fitted. This means that the track can be folded away manually from the doorway giving clear access.

When installing a hinge because of limited space between the stairs and the front door you should always ensure there is a secondary access in case emergency access is require when the track is in the down position.

On a 1000 Manual Hinge the minimum rail length is 2mts = 78 3/4” + overhang.

Automatic hinge
Rails terminating in front of a door can be fitted with a foldable rail which automatically folds out of the way while the seat is ascending the stairs. The foldable rail is operated using the control on the seat or a wall-mounted pushbutton at a fixed position along the rail. The seat lift stops at this position by means of a soft stop.

The foldable rail is automatically operated by continually pressing the control on the seat or the wall-mounted pushbutton in the required direction. When the control on the seat or the wall-mounted pushbutton is pressed in the downwards direction the foldable rail will fold down, and when pressed in the upwards direction the foldable rail will fold up. The foldable rail will cease to move immediately the control on the seat or the wall-mounted pushbutton is released. The movement will recommence when the control on the seat or the wall-mounted pushbutton is operated again. The seat will be able to continue its journey in the required direction once the foldable rail is fully folded up or down. During the movement there will be an acoustic signal.

The power pack for a folding hinge is different from the power pack of a standard rail.

The distance from the wall to the rail will extend with 20 mm = 3/16” due to the motor between the rail and the wall.

The minimum angle for the hinge is 27° and the maximum angle is 52°.

Handicare 1000

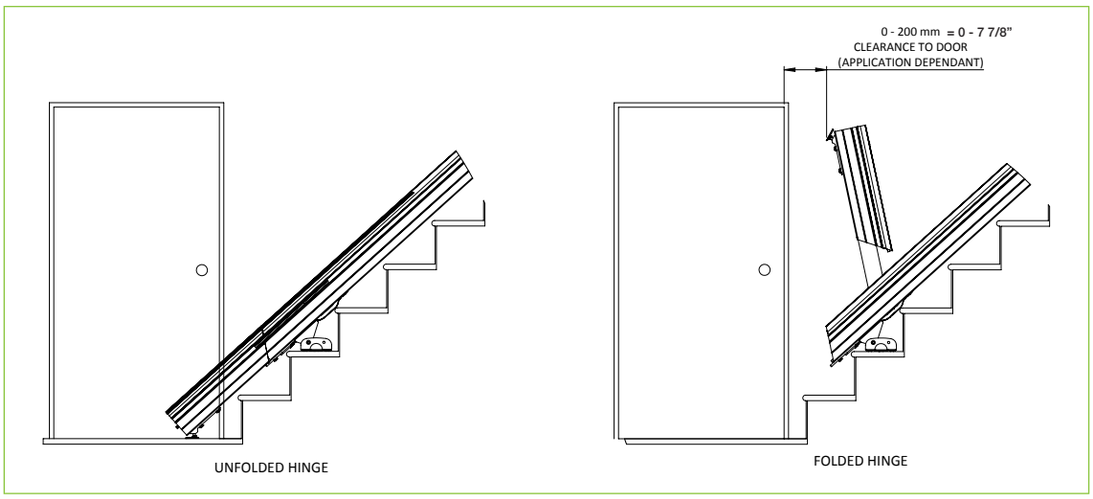
The length of the hinge is standard 580 mm / 22.84 inch. On below table you can find the intrusion when folded.

Riser Angle	150.00	160.00	170.00	180.00	190.00	200.00	210.00	220.00
27°	-102.167	-84.848	-67.527	-50.206	-32.885	-15.564	1.757	19.0767
30°	-126.472	-112.188	-97.907	-83.626	-69.345	-55.064	-40.783	-26.5014
35°	-123.304	-111.384	-99.466	-87.548	-75.63	-63.712	-51.794	-39.8814
40°	-109.847	-99.85	-89.85	-79.85	-69.85	-59.85	-49.85	-39.847
45°	-88.8151	-80.424	-72.033	-63.642	-55.251	-46.86	-38.469	-30.0781

Green means back from the 1st nose
Red is forward from the 1st nose

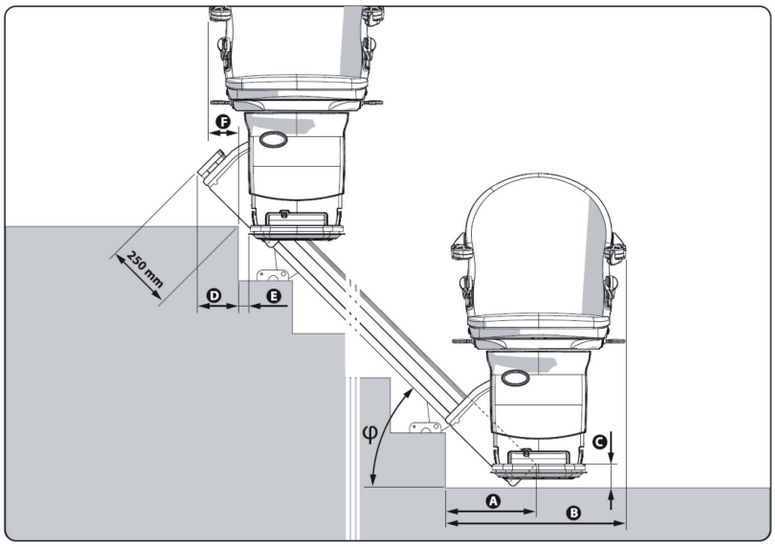
The hinge can not be combined with extended supports. The maximum load for the hinge is 160 kg.

For the Hinge to work successfully the minimum rail length would be 2400 mm = 94 1/2” + overhang.



26 The rail extension at the top of the stairs

Savaria recommends a standard rail overrun of 280 mm. This rail ending finish for all seats.



Angle	D	E
27°	223mm = 8 13/16”	105mm = 4 1/8”
30°	217mm = 8 9/16”	96mm = 3 13/16”
35°	205mm = 8 1/16”	81mm = 3 3/16”
40°	192mm = 7 9/16”	64mm = 2 1/2”
45°	177mm = 6 15/16”	50mm = 2”
50°	166mm = 6 9/16”	48mm = 1 7/8”
56°	155mm = 6 1/8”	46mm = 1 13/16”

27 | The applications



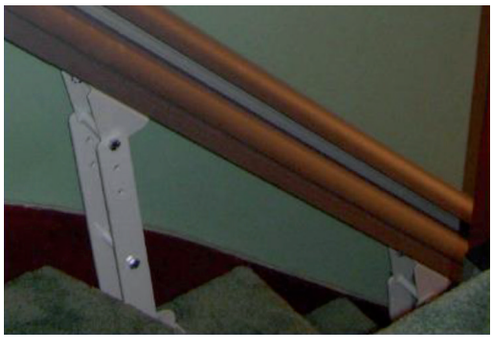
Stairlifts type Handicare 1000 are installed on stairs with rectangular steps. The rail rests about 50 mm = 2” above the front of the steps.

In this case extended feet can be used to support the track where it is higher than normal above the stairs.

These feet might also be used if the stairs are slightly “bowed”.
Extended feet can not be used in combination with hinge rail.
Max. rated load for extended feet is 137 kg.

3 different length extended feet:
- 128mm = 5 1/16” AA30131
- 256mm = 10 1/16” AA30132
- 520mm = 20 1/2” AA30133

Extended brackets



Extended feet in use on a Handicare 1000 track.

Left and 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.



Example of a left-hand stair lift



Example of a lright-hand stair lift

Required clearance in front of the stairs in connection with a facing wall
The seat's armrest projects beyond the rail; the precise distance depends on the stair angle and the type of seat.

A minimum clearance of 100 mm = 3 15/16" between the folded-down armrest and the facing wall is required so as to prevent the risk of the hand becoming trapped between the armrest and the wall.

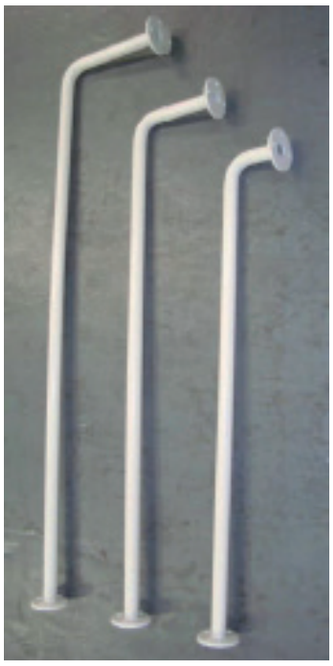
28 The distance from the rail to the wall

Standard distance between the rail and the wall
The standard distance between the front side of the rail to the stringer is 115 mm = 4 1/2”.

Obstacles on the staircase
The distance between the rail and the wall will be larger in the event of obstacles at the height of the seat and the power pack. For example the stairift may need to moved away from the wall to avoid a clash with a window sill or a handrail that has been left in situ to assist other users of the stairs.

A survey is required to identify all obstacles on the wall. In standard situations the rail will need to be installed further from the wall if there are any obstacles less than 1800 mm = 70 7/8” above the stairs.

29 | Grab rails



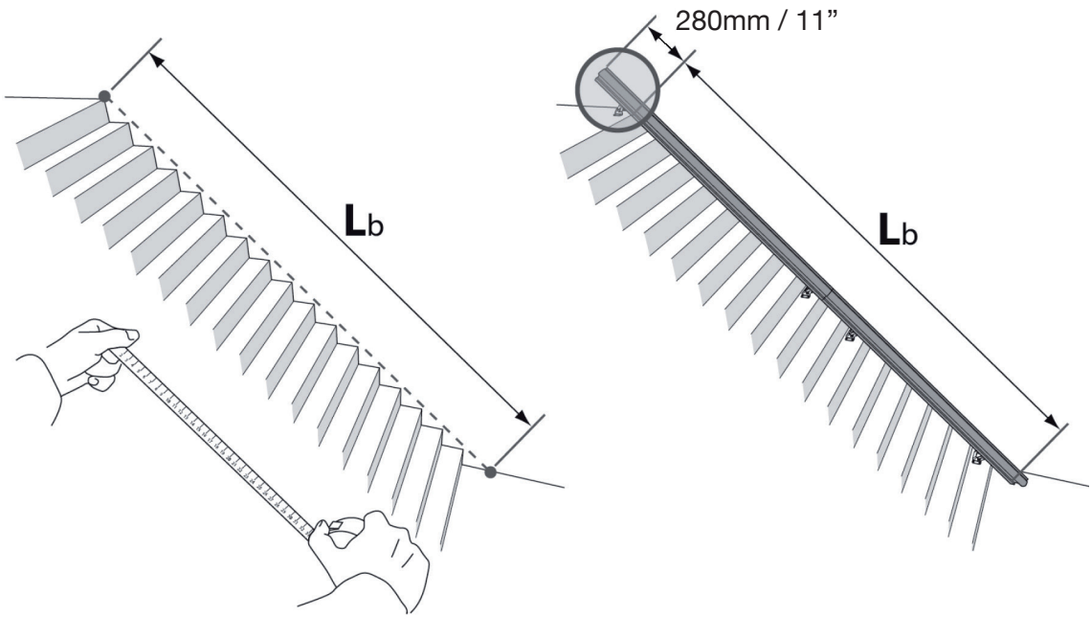
There are three different sizes of guard rails available in the colour light grey (RAL 9002): Small, Medium (regular) and Large sizes.

Dimensions:

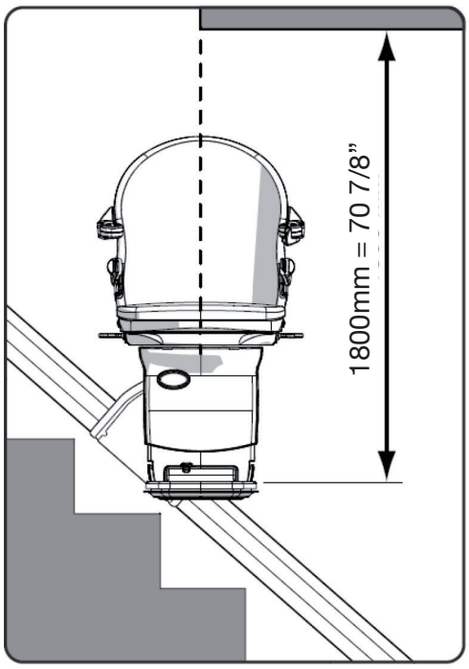
- OXAGRS (Small) = 700 x 100mm = 27 9/16” x 3 15/16”
- OXAGR (Medium) = 800 x 150mm = 31 1/2” x 5 15/16”
- OXAGRL (Large) = 900 x 200mm = 35 7/16” x 7 7/8”

30 | 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 (Lb) and add 280 mm = 11” for the intrusion. This total will be your required rail length.



31 The required overhead clearance



An overhead clearance of 1800 mm = 70 7/8” inch as measured from the top of the stair stringer to the lowest part of the ceiling will offer sufficient space for the head of the user of this model of stairlift in case of a backrest length of 900 mm = 35 7/16”.

For an perch seat 375 mm = 14 3/4” extra space is required.

32 Approvals

A stairlift has several moving parts and is classified as a machine. As such the stairlift Handicare 1000 complies with:

- the Machinery Directive 2006/42/EEG
- the Low voltage Directive 2014/30/EEG
- the EMC-Directive 2014/35/EEG
- the EN 81-40
- the ASME A18.1:2020 Ed.8

On behalf of this information an approval on site is not necessary.

Savaria has made a risk analysis and a technical construction file. Due to confidential information, this will not be published.

The Handicare 1000 is compliant with the Machinery directive; consequently changes that affect the safety, construction and/or functionality of the stairlift are prohibited.

Savaria Stairlifts should only be installed by a certified engineer in accordance with the information provided in the installation manual and with original parts.

Following installation the engineer must demonstrate the correct safe use of the Handicare 1000 to the user who should then sign a declaration as evidence of the handover. This document should be retained by the supplier.

33 Rail cutting

The needed number of rail parts, which part to cut and the minimum rail length for each part can be found in below table.

Amount & length rail parts

H1000 standard							
Rail length	**Number of rail parts**	**Cut lower rail part**	**Cut middle rail part**	**Cut top rail part**	**Min length lower rail part**	**Min length middle rail part**	**Min length top rail part**
0 - 900	-	-	-	-	-	-	-
900 - 2500	1	√	-	-	900	-	-
2500 - 2600	2	√	-	√	900	-	100
2600 - 5000	2	-	-	√	2500	-	100
5000 - 5100	3	√	-	√	900	2000	100
5100 - 7000	3	-	-	√	2500	2000	-

Use an extra middle rail part of 2000 mm = 78 3/4” when rails are longer than 7000 mm = 275 9/16”.

H1000 manual hinge							
Rail length	**Number of rail parts**	**Cut lower rail part**	**Cut middle rail part**	**Cut top rail part**	**Min length lower rail part**	**Min length middle rail part**	**Min length top rail part**
0 - 2100	-	-	-	-	-	-	-
2100 - 2500	2	-	-	√	2000	-	100
2500 - 5000	2	-	-	√	2000	-	500
5000 - 7000	3	-	-	√	2000	2000	1000

Handicare 1000

Standard				
	Lower	Middle 1	Middle 2	Upper
900	900			
1000	1000			
1100	1100			
1200	1200			
1300	1300			
1400	1400			
1500	1500			
1600	1600			
1700	1700			
1800	1800			
1900	1900			
2000	2000			
2100	2100			
2200	2200			
2300	2300			
2400	2400			
2500	2500			
2600	1300			1300
2700	1350			1350
2800	1400			1400
2900	1450			1450
3000	1500			1500
3100	1550			1550
3200	2500			700
3300	2500			800
3400	2500			900
3500	2500			1000
3600	2500			1100
3700	2500			1200
3800	2500			1300
3900	2500			1400
4000	2500			1500
4100	2500			1600
4200	2500			1700
4300	2500			1800
4400	2500			1900
4500	2500			2000
4600	2500			2100
4700	2500			2200
4800	2500			2300
4900	2500			2400
5000	2500			2500
5100	1550	2000		1550
5200	2500	2000		700
5300	2500	2000		800

Standard				
	Lower	Middle 1	Middle 2	Upper
5400	2500	2000		900
5500	2500	2000		1000
5600	2500	2000		1100
5700	2500	2000		1200
5800	2500	2000		1300
5900	2500	2000		1400
6000	2500	2000		1500
6100	2500	2000		1600
6200	2500	2000		1700
6300	2500	2000		1800
6400	2500	2000		1900
6500	2500	2000		2000
6600	2500	2000		2100
6700	2500	2000		2200
6800	2500	2000		2300
6900	2500	2000		2400
7000	2500	2000		2500
7100	1550	2000	2000	1550
7200	2500	2000	2000	700
7300	2500	2000	2000	800
7400	2500	2000	2000	900
7500	2500	2000	2000	1000
7600	2500	2000	2000	1100
7700	2500	2000	2000	1200
7800	1550	2000	2000	1300
7900	2500	2000	2000	1400
8000	2500	2000	2000	1500
8100	2500	2000	2000	1600
8200	2500	2000	2000	1700
8300	2500	2000	2000	1800
8400	2500	2000	2000	1900
8500	2500	2000	2000	2000
8600	2500	2000	2000	2100
8700	1550	2000	2000	2200
8800	2500	2000	2000	2300
8900	2500	2000	2000	2400
9000	2500	2000	2000	2500

With hinge				
	Lower	Middle	Upper	Extra
2000	2000			
2110	2000		110	
2200	2000		200	
2300	2000		300	
2400	2000		400	
2500	2000		500	
2600	2000		600	
2700	2000		700	
2800	2000		800	
2900	2000		900	
3000	2000		1000	
3100	2000		1100	
3200	2000		1200	
3300	2000		1300	
3400	2000		1400	
3500	2000		1500	
3600	2000		1600	
3700	2000		1700	
3800	2000		1800	
3900	2000		1900	
4000	2000		2000	
4100	2000		2100	
4200	2000		2200	
4300	2000		2300	
4400	2000		2400	
4500	2000		2500	
4600	2000		2600	
4700	2000		2700	
4800	2000		2800	
4900	2000		2900	
5000	2000		3000	
5100	2000	2000	1100	
5200	2000	2000	1200	
5300	2000	2000	1300	
5400	2000	2000	1400	
5500	2000	2000	1500	
5600	2000	2000	1600	
5700	2000	2000	1700	
5800	2000	2000	1800	
5900	2000	2000	1900	
6000	2000	2000	2000	
6100	2000	2000	2100	
7000	2000	2000	3000	
7100	2000	2000	2000	1100
8900	2000	2000	2000	2900
9000	2000	2000	2000	3000

34 | Stairlift Advisory Notice

Ref: 84SAN1023 **Date of issue:** October 2023

Product Series Affected

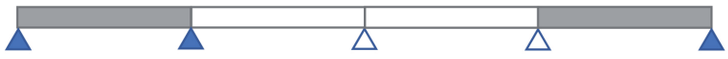
Freecurve ☐ 4000 ☐ 1100 ☐ 1000 ☑

1000-series Stairlift EN81-40:2020 compliance

FITTING KITS

Standard Fitting kit	Heavy Duty Fitting kit	US/Canada kit	Intermediate Rail Kit
Contains 3 feet	**Contains 5 feet**	**Contains 5 feet**	**1 extra foot**

The new fitting kit lay-outs consist of one foot less. The Standard fitting kit is used up to 137 kg. The Heavy Duty is suitable from 137 kg up to a limit of 200 kg user weight.

Scenario	# Feet	Rail layout
Standard	3	
Standard + intermediate	4	
Standard + 2x intermediate	5	
Heavy Duty/US	5	
Heavy Duty/US + intermediate	6	
Heavy Duty/US + 2x intermediate	7	

See below the new part numbers of the affected fitting kits:

Old part number	Replaced by	Description
AA23423	AA29515	Fit Kit 1000 Standard EU (137 kg)
AA23423 AA23487	AA29604	Fit Kit 1000 Heavy Duty EU (137 – 200 kg)
AA24992	AA29653	Fit Kit 1000 Heavy Duty NA (137 – 200 kg)
AA23488	AA29932	Fit Kit 1000 Intermediate Rail (137 – 200 kg)
AA24204	AA30555	1000 Intermediate Rail + FIT KIT
AA23495	AA29933	M8 Raw Bolt Pack of 4

Handicare 1000

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Date	Version	Change
25-02-26	02	p45 measurements manual hinge
18-03-26	03	Inches added to measurements