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Explanation of symbols CE Warning Read User manual Product for indoor use

1. Safety

IMPORTANT: Integralift must only be operated by personnel with the proper training to do so. Read the User manual before operating Integralift and please keep the User manual at hand for everyone using Integralift. Don't leave the User suspended in the sling. This product must be installed by authorized personnel only.

Before first time use make sure that:

- Installation is correctly done, tested and signed by authorized personnel.
- The Lifting bar is correctly mounted
- User manual is read and completely understood
- The emergency lowering switch is working

Before lifting always make sure that:

- The Lifting bar is fastened correctly to the lift strap
- The lift strap is not twisted or worn.
- Make sure the lifter can be run up and down
- There are no visible damages on Integralift or the sling
- The sling is the correct type; adapted to both User and Lifting bar
- The sling is mounted correctly around the User
- The sling is fastened correctly to the Lifting bar, both before the lift strap is tensioned and before the User is lifted from the bed.



Max user weight

Max user weight for Integralift 230 is

230 kg

2. Product description

Integralift is a new Patient lifter made in Norway. Integralift is a non intrusive product and gives a safe and efficient workplace for the Assistant, solving the big dilemma "my workplace but your home"

Integralift consists of a vertical cabinet and a top cabinet. The lift is integrated in the top cabinet and consists of two pivoting jibs. The Lifting bar, remote control and User manual have a dedicated place in the vertical cabinet.

Integralift is activated by opening the vertical cabinet and then moving the top cabinet over the User by pulling the hanging Lifting bar. The lifter is ready for use in one integrated movement.

In the user manual the person being lifted is called the User and the one giving assistance is called Assistant.

Non intrusive Integralift creates a more attractive room for the User and gives a subtle expression. Integralift appears as an elegant designed furniture which encloses the user's bed and becomes a natural part of the room's interior.

- Cabinets can be special ordered in every colour to fit its environments
- Downlights. Personalize the top cabinet with downlights

Safe & effective Integralift is truly innovative lift with many new features. The lifter is designed to ease the whole transfer process, from entering the room, to putting everything in place after the transfer. As a result Integralift is a highly efficient and safe lifter

- It transforms from a design furniture to a working lifter by a single hand movement
- Everything in place. The Lifting bar, sling and remote in dedicated places
- No charging routines. Always fully charged
- Flexible dropping points

Easy installing Can be installed in almost every home or institution with the versatile Integralift structure system. This means easier projects for architects and builders.

3. Technical Data

Warranty 2 years

Lifecycle 10 years with service agreement (10.000 lifting cycles)

Maximum load 230 kg

Battery 24 V DC, 4,5 Ah, sealed lead battery, 40 lifting cycles

Battery charger 100-240 VAC, 50-60 Hz, max 1.300 mA

Lifting speed 50-70 mm/sec.

Lifting interval strap 1,8 m (vertically adjustable)

Diameter of action 3 m Radius of action 1,5 m

Soft start and soft stop

Emergency stop Electrical

Emergency lowering Electrical and mechanical

Operating forces hand Control 4,5 N
Sound level 69 dB
Weight 95 kg Int. op

Protection class IP 20

Intermittent operation Int. op 20/80, active operation max 1 min at SWL

Integralift is quality certified in accordance with:

ISO 10535:2006(E)

• IEC 60601-1 Ed. 3.0 b:2005

• IEC 60601-1-2 Ed. 3.0 b:2007



Product for indoor use



Type B, in accordance with the electrical shock protection class

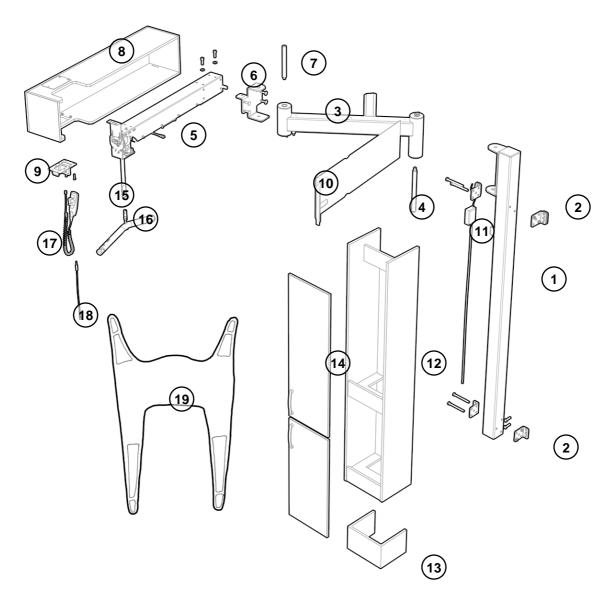
Class I equipment in accordance with MDD 93/42/EEC

• Temperature: -10 grd C og+40grd C

• Relative humidity 10% til 93%

• Lightning level /ambient luminance minimum 300 lux

4. Main components



- 1. Vertical structure
- 2. Brackets for structure
- 3. Back jib
- 4. Shaft for back jib
- 5. Front jib with engine
- 6. Bracket for front jib
- 7. Shaft for front jib

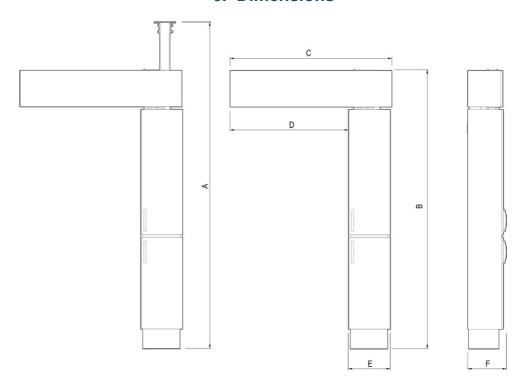
- 8. Top Cabinet
- 9. Handle
- 10. Rear cover
- 11. Charger
- 12. Vertical cabinet
- 13. Cabinet base
- 14. Cabinet front doors

- 15. Lifting strap
- 16. Sling bar
- 17. Remote control
- 18. Emergency stop
- 19. Sling
- 20. Drum house

5. Maintenance parts

Part.no	Pos nr	Name	Photo
	15	Lift strap	
	16	Sling bar	
	17	Remote control	
	11	Charger	
		Connector cable	
	20	Drum house	
		Motor module	
		Control board	
		Interface card	
		Battery set: 2x12V 5,4Ah	
		Corner protectors	

6. Dimensions



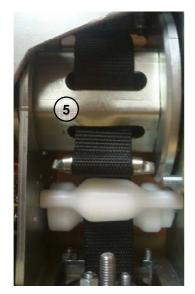
Model	Capacity	Α	В	С	D	Е	F
WM-230	230 kg	220	225	130	95	35	31
FC-230	230 kg	230-330		130	95	35	31
IW-230	230 kg	230-500		130	95	35	31

All measurements (A-F) in centimeters.

7. Replacing lifting strap:

If the lifting strap is visibly worn it should be replaced. It is nevertheless recommended to change the lifting strap after 4000 lifting cycles or 4 years usage.

- 1. Remove the rear cover
- 2. Drive lifting strap out until the fastening part of the drum is serviceable.
- 3. Notice which way the strap is fastened. Cut and throw away the used lifting strap.
- 4. Force the back end of the new strap up in between the two white plastic rollers, sown overlap facing to the left, seen from the end of the front jib..
- 5. Slide the back end of the strap into the two slots of the drum, insert strap bolt, and tighten. Please notice:
 - a. Roll lifting strap clockwise (seen from the end of the front jib)
 - b. The double overlap of the lifting strap (registers end stop) must face towards drum.
- 6. Attach the liftstrap to the sling bar. (see next page)
- 7. Test Integralift functionality and mount rear cover.
- 8. Register the change of lifting strap in the log.





8. Replacing the sling bar (Starlock solution):

- 1. Pry off the Starlock fastener, and throw away (after they are pried off, strength is greatly reduced)
- 2. Unscrew the screw and place the new sling bar in the lifting strap.
- 3. Screw in the bolt, press attach new Starlock fastener to end.
- 4. Register the change of sling bar / (or lift strap) in the log.





Replacing Control board

- 1. Remove the rear cover
- 2. Unscrew the 4 screws that fixates the the control board to the front jib.
- 3. Pull control board down gently and remove all cables.
- 4. Place new control board and attach all cables.
 - a. Be careful with polarity, in conjunction with battery and motor.
 - b. The control board should beep 5 times and the green light blink when power is supplied/ or battery is connected.
- 5. Attach the control board with the same four screws.
- 6. Inspect that motor switch under the control board is activated (green side visible)
- 7. Test Integralift functionality and close rear cover.
- 8. Register the change of control board in the log.



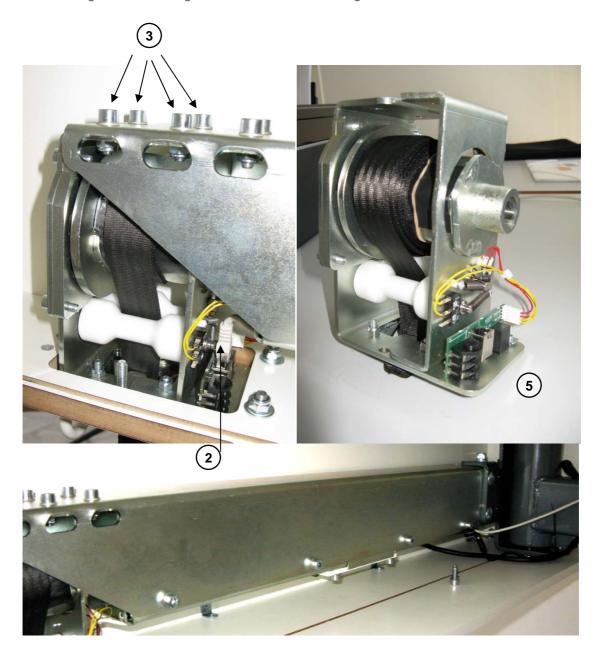


9. Replacing Fuses on Control Board or Battery Cable

- 1. On Board: Use original fuses from Integra: Littelfuse Miniblade 5A (Brown), 10A (Red)
- 2. On Cable: Use original fuses from Integra: Littelfuse Bladefuse 10A (Red)
- 3. If power supply cord is broken, order new from Integra and change cord into charger.

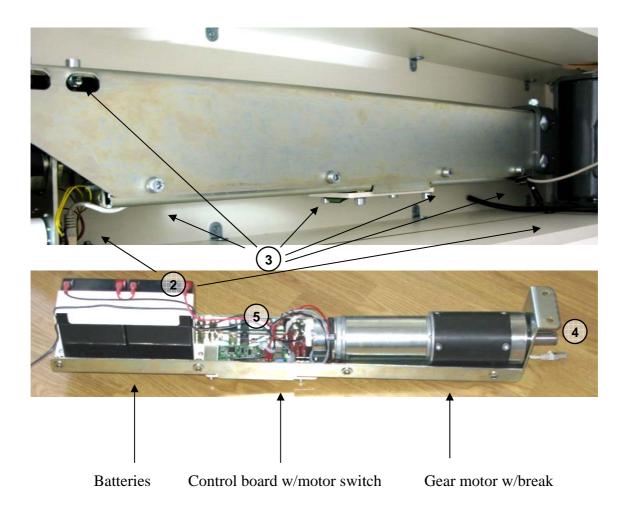
10. Replacing Drum house:

- Remove both rear cover and the top cabinet.
 Tip: With a vertical elevator-support the top cabinet can be removed by one person.
- 2. Remove the connector cable from the connector card.
- 3. Unscrew the four holding screws/locknuts pictured in top picture, left.
- 4. Gently pull the drum and drum house from the motor shaft.
- 5. Attach the new drum house, attach the connector cable.
- 6. Re-position top cabinet and rear cover.
- 7. Test Integralift functionality.
- 8. Register the change of drum house in the log.



11. Replacing Motor module:

- 9. Remove top cabinet and rear cover.
 - Tip: With a vertical elevator-support the top cabinet can be removed by one person.
- 1. Remove both the connector cable and the charger cable.
- 2. Unscrew the motor module by removing the 4 screws on each side of the front jib and the 2 screws with nuts on top.
- 3. Gently pull the motor house backwards and off the drum.
- 4. Insert the new motor module and re-attach the removed cables.
 - NB: Make sure no wires get trapped.
- 5. Re-position rear cover and top cabinet.
- 6. Test Integralift functionality.
- 7. Register the change of motor module in the log.



NB: If the motor, controller card or batteries have errors, these parts are to be sent to Integra for inspection.

12. Troubleshooting:

Marked in blue is the Troubleshooting steps that may be done by the user when he or she calls the service partner and communicates with a duly trained and certified service person.

Integralift does not work

- 1. Pull out and re-insert the emergency stop plug:
 - a. Does it beep 3 or 5 times when pulled out and twice at re-insertion? If yes:
 - i. Check connections in the following order:
 - 1. Is the emergency lowering functioning?
 - 2. Check if the remote control is connected correctly
 - 3. Motor switch activated (green side visible)?
 - ii. Test with new remote control
 - iii. Test with new interface card
 - iv. If Integralift is still not working, contact Integra or your local supplier
 - b. If no (Does not beep):
 - i. Check connections in the following order:
 - Is the charger supplied with power? (green, yellow or red light?)
 - 2. Motor switch activated?
 - 3. Connector cable connected with interface card?
 - 4. All cables connected with controller card?
 - ii. Test with new connector cable
 - iii. If Control board does not blink green:
 - 1. Control board: 10 A red fuse broken? Replace the fuse. This will be an effect of overload or control board error.
 - 2. Control board: 5 A brown fuse broken? Replace the fuse. Wrongful polarization on charger or control board error.
 - 3. Still no green blinking?
 - a. Replace control board.
- 2. If Integralift is still not working, contact Integra or your local supplier.

Integralift lifts up, but will not move downwards.

- 1. Gently pull the lift strap while driving the lifter downwards.
- 2. Check the remote control being correctly attached.
- 3. Pull out and re-insert the emergency stop plug (see also: problem "Integralift does not work", above)
- 4. Control that the miniswitches (registering belt tightener and end stop) is correctly connected to the interface card.
- 5. If Integralift is still not working; contact Integra or your local retailer.

Integralift beeps while lifting patient:

- 1. Check that the patients weight does not exceed the safe working load (SWL)
- 2. Check the charger being connected and displaying green or yellow light.
- 3. Is something clogging the lifting strap or driving mechanism?
- 4. Insert programming cable in controller card:
 - a. Check what triggered last alarm.
 - b. Check that the power limit in the controller card is set at 85 (equivalent of 8,5 Amper)
 - c. Check that the voltage limit is set at 20 (equivalent of 20V)
- 5. If Integralift is still not working; contact Integra or your local retailer.

Integralift beeps continuously:

Voltage from batteries too low.

- 1. Check that the charger is properly connected, from wall outlet to circuit board.
- 2. Check that charger light changes when lifting up and down with load.
- 3. Check fuses on circuit board (UK: Check fuse in outlet/plug)
- 4. If Integralift still beeps, contact Integra or your local supplier.

Integralift emitting noise/dissonance:

- 1. Is the noise coming from the structure or the walls or ceiling?
 - a. Check that fastening to room features is done correctly and all screws sufficiently tightened.
 - b. Check that noise disappears during usage, if not; contact Integra or your local retailer.
- 2. Is the noise coming from bearings between the jibs and/or structure?
 - a. Identify the source of the noise and add a small amount of teflon lubricant between steelbracket and the bolt (not at plastics)
 - b. Check that noise disappears during usage, if not; contact Integra or your local retailer.
- 3. Is the noise coming from drum, lifting strap, or motor bracket?
 - a. Identify the source of the noise and add a small amount of teflon lubricant between the metal parts.
 - b. Perform a visual inspection of lifting strap with drum and attachments, and make sure everything is working accordingly.
 - c. Check that noise disappears during usage, if not; contact Integra or your local retailer.

In the event of other errors; contact Integra or your local supplier.

13. End control, installation – Integralift

Integralift		Customer	
Model		Name	
Serial number		Adress	
Production year		Zip number	
Installed date		Placement (room)	
		(1000)	
Control	Status	Comment	
Fastening			
Comments about room/house			
Specify loadbearing structure & quality			
Distance from floor to ceiling			
Specify chosen fastening, wall/ceiling			
Screws used			
Structure			
Vertical structure			
Jibs			
Bracketts			
Driving unit and lifter			
Motor			
Band			
Sling bar			
Remote control			
Electronics			
Cables and connectors			
Battery and charger			
Circuit card			
Emergency stop			
Emergency lowering			
December 1			
Documentation			
Product branding with SWL			
User manual			
Status: X = OK, 1 = Observation needed,	2 = I	mmediate repairs needed, 3 = Withdr	aw from usage
Weight Tooted with 4 C Mary actions			
Weight Tested with 1,0 Max patient			
weight for 20minutes			
Date:		Control performed by:	Tel nr:

www.integracp.no

Service Partner:	
Supplier:	
Cuppilor.	

Producer:
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