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molift by Etac



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IMPORTANT!

The patient lifter is only meant to be used by qualified personnel.

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General advice

This user manual contains important safety instructions and information regarding the use of the lifter. Carefully read the manual before using the lifter in order to be familiar in the function and use of the lifter.

Explanation of symbols



This symbol is used to point out instructions and information related to work place safety where injury may occur if the information is disregarded or ignored. Follow these instructions, be careful and attentive at all times.



This symbol indicates important information regarding the use of the equipment. If not taken into consideration, it may lead to damage or functional defects to the lifter or other equipment.



This symbol indicates important and useful information. If taken into consideration, it will help the operator of the lifter to work efficiently. It may help simplify routines and to explain complicated facts.

Before using the patient lifter

Before using a patient lifter, the operator must be trained accordingly. Practice lifting a colleague, and be lifted by others. It is important not only to know how to move another person using the lifter, but also how it is to be lifted. Try out and practice using all the relevant slings for the different types of lifter and movement you may encounter. Before lifting a person, you should explain the procedure.

When using the lifter, it's also important to use the correct sling and accessories according to:

- type of disability
- size
- weight
- type of movement

Responsability

Please read these operating instructions carefully before putting the product into operation. We assume no liability for damage or malfunctions resulting from failure to comply with the instructions. Warranty claims must be made immediately on detecting the defect. Remember to quote the serial number. Consumable parts are not subject to the warranty.

All technical information, data and instructions for operation contained in these operating instructions were up-to-date at time of print and are compiled on the basis of our experience and to the best of our knowledge. We reserve the right to incorporate technical modifications within the scope of further development of the product described in this manual. No claims can be derived from the information, illustrations or descriptions contained in these instructions. We assume no liability for any damage or malfunction caused by operating errors, non-compliance with these operating instructions or inappropriate maintenance. We expressly point out that only genuine Molift spare parts and accessories approved by us may be used. For safety reasons, the fitting and use of spare parts or accessories, which have not been approved, and unauthorised modification or conversion of the product, are not permitted. Etac Supply Gjøvik will accept no liability for damages resulting from such acts.

With the exclusion of product liability, Etac Supply Gjøvik is liable for faults or omissions on its part within the scope of the warranty obligations stated in the purchase contract. Claims for damages are excluded, irrespective of the legal reason from which such claims are derived. Only documentation belonging to the actual equipment is valid.

Any failure to comply with the safety regulations and precautionary measures stated in these operating instructions renders the declaration of conformity supplied with the system in accordance with Council Directive (93/42/EEC) concerning medical devices invalid.





Safety precautions

General

Before putting a Molift HI-TRAC into operation, the operator must ensure that the lifter and accessories are in good working order, especially with regards to safety.

All instructions and information in this manual regarding safety and general precautions must be read, understood and followed carefully. Any disregard to these precautions may result in personal injury or damage to the equipment. The lifter must be taken out of service immediately, or not returned to service, if faults and/or irregularities that may have influence on the safety are discovered.

Safety devices and -equipment must not be removed, disableded or in any way altered. A Molift HI-TRAC shall only be used when all safety devices and equipment is in place and fully operational.



The lifter is designed for use in room temperature, +10 to +40 °C. This should be taken into consideration when transporting the lifter; therefore keeping it in a temperate part of the vehicle. Alternatively, the lifter must rest in a temperate room until the equipment has acheived proper working temperature.



The lifter has an expected liftime of 10 years or 30 000 lifts with max load (SWL), when all recommended service is performed.

If defects or faults occur

A Molift HI-TRAC must be switched off immediately by pulling the emergency stop if one of the following conditions occur:

- · damage to electrical devices or cables, or damage to parts of electrical insulation
- · damage or failure on safety devices



If the lifting movement does not start when the corresponding button is pressed, please consult the fault finding table in the maintenance chapter to locate the fault.

Injury to persons or equipment may occur if Molift HI-TRAC is used in an incorrect manner and if:

- covers are removed by unauthorised personnel
- used incorrectly
- insufficient maintenance
- load exceeds maximum limit. The maximum load stated in this manual and on the lifter is the maximum load
- unauthorised repair of electrical devices or ca-
- rail system, switch, transition coupling or traverse are manipulated

Lift and transfer

Several factors have to be considered during movement of the lifter:

- the user shall sit as low as possible facing the moving direction
- the lifting area is free from obstacles along floor and roof

Stand to the side of the user when lifting. Ensure that arms and legs are clear of the lift, chair, bed etc. Try to maintain eye contact with the user - this will help the user feel safe and comfortable.



Pay close attention to your actions. Ensure that all four loops of the sling are securely fastened to avoid the user slipping or falling



Make sure there is no damage on the lifter, lifting belt or accessories befor you start lifting.



Molift slings shall ONLY be used to lift persons. NEVER use the sling to lift and/or move objects of any kind.



Molift Hi-Trac should not be run constantly for more than 5 minutes during 30 minutes.



About the product

Molift HI-TRAC is a stationary ceiling hoist intended for lifting and transferring persons. The lifting motor is mounted on a rail system, which have been adjusted to fit the purpose of the designed area. The rail system is mounted rigidly as a single rail or with traverse with the necessary couplings and switches. The rail system is adjusted to satisfy the needs and possibilities in each room. A closer description of the components of the rail system can be found in a separate manual.

Molift HI-TRAC is available in four variants:

- Molift HI-TRAC 2002: SWL 160 kg, manually propulsion
- Molift HI-TRAC 2002+: SWL 300 kg, manually propulsion
- Molift HI-TRAC 2004: SWL 160 kg, electrical propulsion
- Molift HI-TRAC 2004+: SWL 300 kg, electrical propulsion

Main components

Molift HI-TRAC is made of a chassis comprising a motor, battery and a lifing belt. The lifter has emergency stop switch, emergency lowering button and a contact for hand control with charging. The lifter is attached to the rail system with 2 pivoted trolleys. In addition to the lifting motor, HI-TRAC 2004 has a propulsion motor. The lifting belt has a fixing device for the 4-point suspension and a belt adjuster.

Safety devices

Molift HI-TRAC is equipped with several safety devices, which are intended to prevent damage to persons and equipment in the case of incorrect use.

- The lifter has an overload sensor preventing the lifter to be operated with more than maximum load SWL. HI-TRAC 2002/2004: 160 kg (HI-TRAC2002+/2004+: max 300 kg.)
- The lifter has a safety switch to avoid unstraight lifts and the lifting belt from rolling up incorrectly.
- Rail

 Trolley

 Chassis/motor

 Emergency lowering

 Emergency stop

 Belt adjustment

 Charger





Technical data

Weight, lifter:

HI-TRAC 2002 13,5 kg HI-TRAC 2004 17,8 kg

Material:

Chassis in aluminium/steel, ABS end cov-

ers. Aluminium rails

Motor:

24 V DC

Batteri:

Type N-1900 SCR 26,4 V NiMH 2,2 Ah

Batterilader:

Type 2215 Mascot, 10-20 celler

SWL (Safe Working Load):

HI-TRAC 2002/2004 : 160 kg HI-TRAC 2002+/2004+ : 300 kg

Lifting height:

3,0 m (standard version 3,5 m lifting belt)

Propulsion speed (only HI-TRAC 2004/2004+):

Max 100 mm/sec

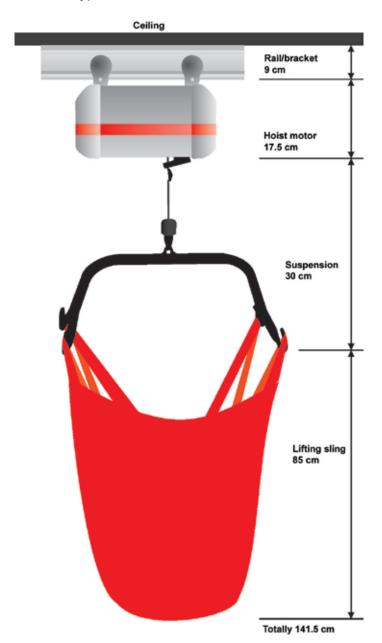
Measure lifter (BxLxH):

HI-TRAC 2002: 330x310x250 mm HI-TRAC 2004: 330x410x250 mm

Mounted on the rail the lifter extends 175

mm below the rail

Measurements in illustrations below are in centimeters.





Preparation before use

To be able to operate the lift, the operator must have good knowledge of the lift, including assembly and preparation before use.

Preparation



Never use a suspension with a lower lifting capacity than the motor! A normal HI-TRAC suspension (160 kg) shall not be used together with a HI-TRAC+ motor (300 kg) or other lifters with a higher lifting capacity.



A HI-TRAC+ motor (300 kg) shall be mounted on a HI-TRAC+ rail system, not on a normal HI-TRAC rail system (160 kg).



It is not allowed to have two lifting motors on one rail system!



Etac Supply Gjøvik has the system liability only when the rail system with lifting motor and suspension is mounted by authorized service representative/dealer or Etac Supply Gjøvik.



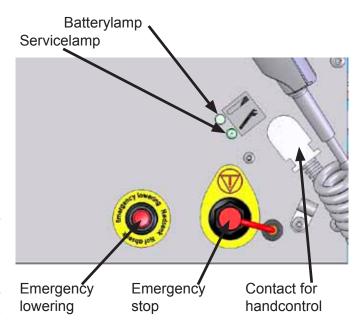
If any damage or faults occur on the lifter or the rail system, contact your local service representative/dealer or Etac Supply Gjøvik immediately.

Assembly and use of charger

The battery charger shall be mounted to a vertical wall surface close to a power outlet, minimum 120 cm above the floor. The charger shall be connected to the power outlet at all times, and the hand control should be placed in the charger console when the lifter is not in use.



Etac Supply Gjøvik tests and charges the battery before packing and shipment. However, all batteries must be charged before use.



Checklist before use

- Check that the battery is sufficiently charged and that the hand control works properly.
- · Check that the servicelamp has a green light indicating that the lifter is ready for use.
- Check that the lifter is complete, has no missing parts or no apparent damage or other faults.
- Check that the lifting motor runs smoothly on the rail system, also through transition coupling and switches.

Explanation of labels and symbols



Main Label for Molift HiTrac 2004



Emergency Stop



C € CE marking acc. to 93/42/EØF



Refer to user manual



Product not in use is to be disposed according to national and local regulations



Type BF applied Part (protected against el chock)



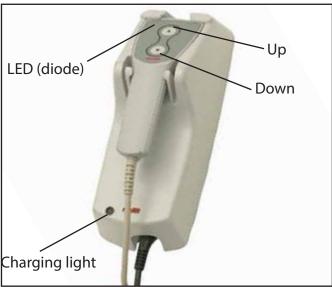


Operation

Battery care

The lifter is charged through the hand control, and should always be parked with the hand control in the charger console when not in use.

The charger is to be mounted on the wall and connected to the power outlet at all times. The charging light on the charger gives a yellow light when the charger is ready for use and there is no hand control unit placed in the charger.



Description of charging light

Charging light	Mode
Yellow	Ready for use, no battery connected
Yellow	Initialization
Orange	Fast charge
Green/yellow	Top-off charge
Green	Trickle charge
Orange/green	Error

Place the hand control in the charger. After a few seconds the charger light will change from yellow to orange, indicating that the battery is charging. If the charging light gives a constant green light, this means the batteries are fully charged. The lifter can not be used while charging the batteries.



It's not possible to overcharge the batteries, but to ensure optimal performance throughout the lifetime of the battery, we recommend that the battery is allowed to rest for a couple of minutes after charging.

Battery capacity

The lifter has a diode indicating the battery status. If the voltage of the battery falls below a certain level, the diode will change to orange, indicating the need for charging. There is still enough capacity to perform 5-10 lift cycles (75 kg) at this point. Fully discharging of the batteries might damage them.

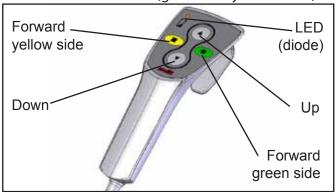


If the battery is discharged during a lift, it is always enough power to lower the user.

Operating the hand control

The hand control to HI-TRAC 2002 has two buttons, lifting up and down, while the HI-TRAC 2004 hand control has two additional buttons for the propulsion on the rail. The hand control also has a green LED which illuminates when the buttons are being activated.

- Hand control for Molift HI-TRAC 2002 with two buttons, up/down (Part no: 2017002).
- Molift HI-TRAC 2004 (+) hand control, Part no: 2019004, has two additional buttons, forward/ backward on the rail (green and yellow code)



Emergency stop and lowering

All of the Molift patient lifters are equipped with emergency stop and lowering. The emergency stop will cut the power to the motor, and is placed on the chassis. Pull the string to activate the emergency stop. Charging of battery and emergency lowering is not possible when the emergency stop is activated. Plug in the emergency stop jack with string to deactivate the emergency stop.



It is possible to perform an emergency lowering in case of a general malfunction. To perform an emergency lowering, the emergency lowering button should be pushed.



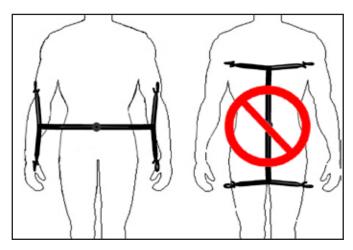
Contact your Molift service partner if the reason for the failure causing an emergency lowering is unknown or if it is a result of failed components or parts

On the front right side of the lifter there is a service light which will give a signal when the lifter needs service. When there is a green light, the lifter can be used normally. Please read the chapter "Service/Maintenance" for more information.

The electrical system has a power save function which will turn off the electrical system after ten minutes without activity. All lights will turn off. The system is activated when pushing one of the operating buttons. If the lifter is run up and down constantly for a longer period, the electronics may be overheated, and then the lifter will stop. The service diode will give a yellow flashing signal until the lifter has cooled down sufficiently to work again.

Lift and transfer

The suspension shall always be positioned across the user as shown left in the illustration below.





When using slings intended for two point suspension, the suspension shall be used diagonally, i.e. loops from the sling shall be fastened on hooks diagonally opposite.

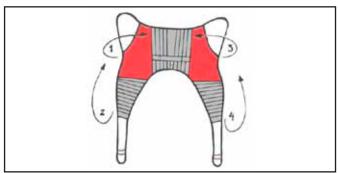
Be careful during movement - the suspended user may swing somewhat during turns, stops and starts. Be particularly careful when manouvring close to furniture to prevent the suspended user from colliding with these objects.

Using lifting slings



It is recommended to use Molift slings. Slings from other manufacturers may have other specifications leading to unexpected instability and possible injury to persons.

The Molift Easy lifting slings are, as the name indicates, easy to use. The plastic insert of the head support should be removed before washing or autoclaving.

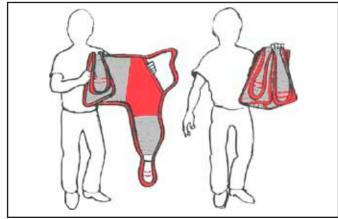


Fold the sling as indicated above before use. The grey side should be facing away from the user when putting the sling in place. The sling should be held by one hand, leaving the other free to move and support the user



Torn, cut, frayed or broken slings can fail, resulting in serious injury to the user. Use slings in good condition only. Destroy and discard old, unusable slings.

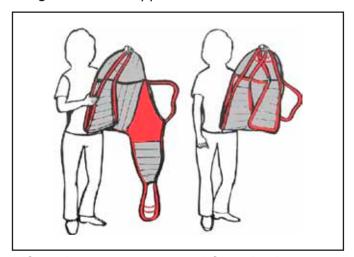
Sling without head support





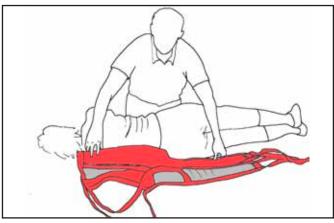


Sling with head support

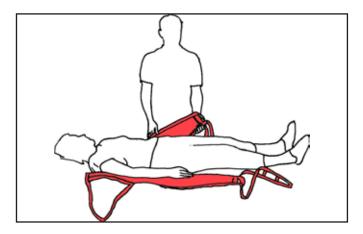


Lift and movement to and from bed

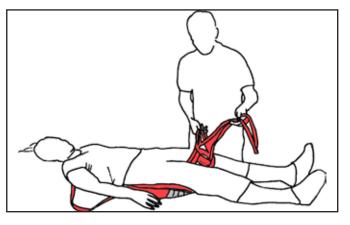




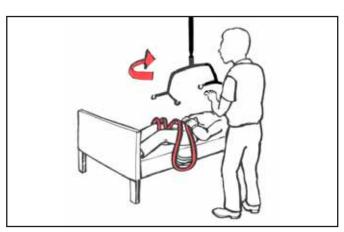
Roll user onto her side. Put the folded sling behind her back. The centre of the sling should be parallel with the users spine. Roll her then onto her back.



Pull the leg loops forward and under the thighs as shown.



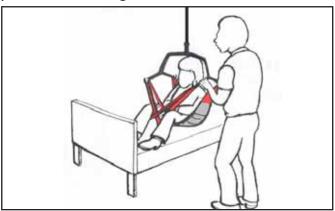
Cross the loops, one through the other.





If the user has a bed which enables raising and lowering, it should be lowered before the lifting starts.

Place the lifter over the bed and centre the suspension over the user. Be careful not to lower the suspension too low touching the user. Make sure that the suspension is centred over the user before you start the lifting.



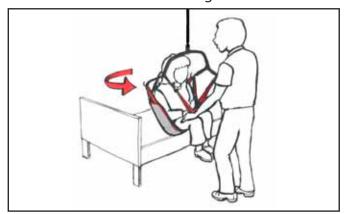
When all four loops are hooked onto the suspension, raise the user carefully.





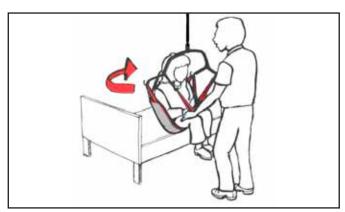
If the user is in a hospital bed, it will help to raise the head of the bed

Repositioning of the user may be needed to ensure that a safe and comfortable sitting position is attained as the user is raised. Reposition using the handle on the back of the sling.



Raise the user until the buttocks are just above the mattress. Lift the user's legs and turn her until the legs are clear of bed. If possible, lower the bed before lifting. Move the lifter away from bed.

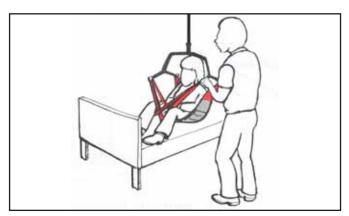
Lift to bed



Raise the user enough to get clear of the matress and run the hoist with user over the bed.



Be aware of possible obstacles



Centre the user over the bed and turn her so that the feet point to the foot end of the bed. Lower the user carefully. Remove the loops from the suspension.

Removing the sling

Gently pull leg section to the side, out from the user's thighs and towards yourself. Pull the shoulder section under the neck of the user and roll her gently onto her side. Pull the sling away and roll her onto her back.



Be careful when rolling the user onto her side.

Make sure you have control over the movement to prevent her from rolling completely over and out of the bed.

Lift and transfer to and from floor

Lift and transfer to and from floor is almost identical to a lift and transfer from bed. Place the sling as described earlier.

Use a pillow to protect the head and neck of the user. The suspension shall be centred over the user.

Lower the suspension enough to allow the sling loops to be hooked up.

Raise the user from the floor. Position the user in the sling by pulling the handle on the back of the sling.





Lift and transfer to and from (wheel)chair

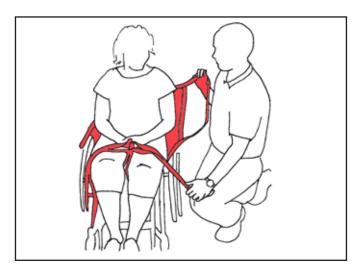
Lift and transfer from (wheel)chair Fold the sling as described in "Using lifting slings"



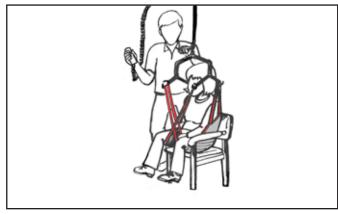


If the users physique and ability allows it, the user should be encouraged to take active part in fitting the sling. The user can lean forward, lift her thighs and help placing the leg section.

Lean the user forward gently, but ensure you continue to support her. Place the folded sling behind the user's back and push it down until it touches the seat of the chair.



The leg sections of the sling are pulled forward and beneath the user's thighs by the loops. The loops are then crossed, one through the other, and hooked on the suspension.





If the transfer is from a wheelchair, the brakes must be locked to prevent the wheelchair from rolling away.

Raise/lift user above seat height, and perform the transfer. It is not necessary to lift the person very high.

Lift and transfer to (wheel)chair Manouvre the lifter so that the user is as far back in the (wheel)chair as possible.



If the transfer is to a wheelchair, the brakes must be locked to prevent the wheelchair from rolling away.

When lowering, you can use the following techniques or a combination of them to position and get the user seated far back in the chair.

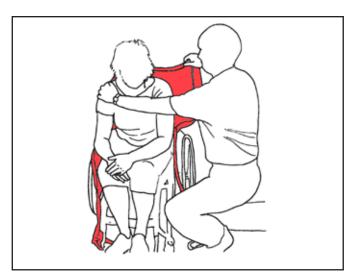
- push gently on the knees
- pull the loop on the back of the sling
- tilt the chair slightly backwards

Lower the user into chair, unhook sling from suspension and remove the lifter.



Removal of sling

Gently pull leg section to the side, out from the user's thighs. Standing by the side of user, lean her forward - supporting with one hand. Pull sling up from behind her back.





Pulling sharply on sling may cause user to fall forward resulting an injury. Always support the user by keeping one arm around the user's shoulder when fitting or removing the sling (see illustration).

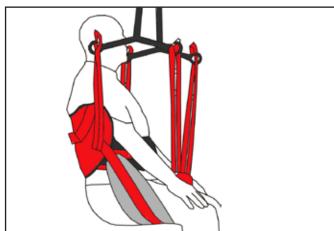


If the users physique and ability allows it, the user should be encouraged to take active part in fitting the sling. The user can lean forward, lift her tights and help placing the leg section.

Bathing

The procedure for lifting to/from the bath is in principle the same as for to/from bed. A special bathing sling is used for this purpose. This sling dries quickly and may be washed at 85 °C.

Toileting



The Molift Easy Toilet Sling is used with the standard 4-point suspensions.



Molift Easy Toilet sling is a toilet sling with a thicker and wider upholstery. It is also available with head-support. The Molift Easy Toilet Comfort sling is easier to fit in narrow environments, and is available with a separate head support

The toilet sling is padded and is fitted as follows:

- Insert the sling behind the users back with the grey side away from user.
- Fasten the belt firmly around the user's body.
- Place the leg section under the front part of the thighs and pull the loops up between the thighs.



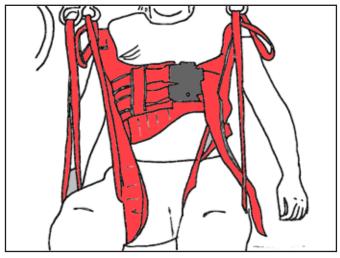




On Molift Easy Toilet Comfort, place the leg section over and down between the thighs and pull outwards from the inner part of the thighs.



The leg sections of Molift Easy Toilet Comfort Sling are fitted to separate the legs, therefore they should not be crossed as the other Easy slings.

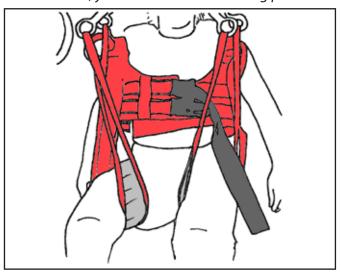


- Hook the four loops on the suspension as for other slings.
- Position the lifter around the toilet and lower the user.
- Pull the leg sections out of the way. The sling can be left on during bathroom use.

Alternative



By pulling the leg sections from the outside and in, you will achieve a wider leg position.





Rail system

The rail system is mounted rigidly and may consist of several parts, like a traverse with transition coupling and switches.

Etac Supply Gjøvik has two different rail systems, one with open rails and a new system with closed rails which can be integrated in the ceiling (Molift Rail System, MRS).

If any damage or faults occur on the rail system, contact your local service representative/dealer or Etac Supply Gjøvik immediately.



Molift Hi-Trac + (SWL 300 kg) must only be mounted on a Hi-Trac +rail system with SWL 300 kg or higher, not on a 160 kg Molift Hi-Trac rail system.



Only one lifter is allowed on each rail system!



Etac Supply Gjøvik has the system liability only when the rail system with lifting motor and suspension is mounted by Molift authorized service representative/dealer.

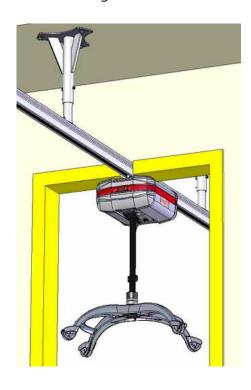


It is NOT allowed to manipulate the rail system or transition coupling. It is only the lifting motor which can unlock the locks. Danger of personal injury.

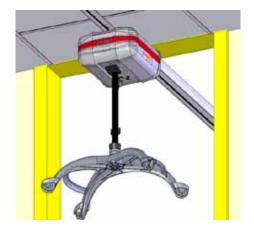
Molift Rail System (closed rails)

Molift Rail System and all accompanying parts are described in a separate handbook. With this closed rail system the wheels of the lifter is running on the inside of the rail profile.

The illustrations below shows example on how MRS can be mounted as a visible rail system or integrated in the ceiling.



MRS with Molift Hi-Trac through a door opening with visible rails, closed rail system.



MRS with Molift Hi-Trac integrated in ceiling.





Molift open rail system

This rail system is described in the Molift Architect Binder. It has been in use many years and many places, and is available with swithes (up to SWL 160 kg/), transition coupling and traverse (up to SWL 300 kg).

On this system the wheels are running on the outside of the rail profile.





Accessories

Lifting sling

Molift Easy Paediatric Sling

Size	No head support	With head support
XXS	Art. no 3005050	Art. no 3006050
XS	Art. no 3005000	Art. no 3006000

Easy Toilet Sling and Basic Bathing Sling for kids, see the tables below, size XXS and XS.

Molift Easy Sling

Size	No head support	With head support
XS	Art. no 3025000	Art. no 3026000
S	Art. no 3025100	Art. no 3026100
М	Art. no 3025200	Art. no 3026200
L	Art. no 3025300	Art. no 3026300
XL	Art. no 3025400	Art. no 3026400
XXL	Art. no 3025500	Art. no 3026500

Molift Basic Sling

Size	No head support	With head support
XXS	Art. no 3021050	Art. no 3022050
XS	Art. no 3021000	Art. no 3022000
S	Art. no 3021100	Art. no 3022100
М	Art. no 3021200	Art. no 3022200
L	Art. no 3021300	Art. no 3022300
XL	Art. no 3021400	Art. no 3022400
XXL	Art. no 3021500	Art. no 3022500

Molift Basic Bathing Sling

Size	No head support	With head support	
XXS	Art. no 3023050	Art. no 3024050	
XS	Art. no 3023000	Art. no 3024000	
S	Art. no 3023100	Art. no 3024100	
М	Art. no 3023200	Art. no 3024200	
L	Art. no 3023300	Art. no 3024300	
XL	Art. no 3023400	Art. no 3024400	
XXL	Art. no 3023500	Art. no 3024500	

Molift Easy Toilet Sling

Size	No head support	With head support
XXS	Art. no 3032050	Art. no 3033050
XS	Art. no 3032000	Art. no 3033000
S	Art. no 3032100	Art. no 3033100
М	Art. no 3032200	Art. no 3033200
L	Art. no 3032300	Art. no 3033300
XL	Art. no 3032400	Art. no 3033400
XXL	Art. no 3032500	Art. no 3033500

Molift Easy Toilet Sling Comfort

Size	No head support	Separate head support
XXS	Art. no 3016050	Art. no 3016055
XS	Art. no 3016000	Art. no 3016001
S	Art. no 3016100	Art. no 3016111
М	Art. no 3016200	Art. no 3016222
L	Art. no 3016300	Art. no 3016333
XL	Art. no 3016400	Art. no 3016444
XXL	Art. no 3016500	Art. no 3016555

Molift Easy Amputee Sling

Size	No bood oursest	\A/ith bood oursest
	No head support	With head support
XXS	Art. no 3027050	Art. no 3028050
XS	Art. no 3027000	Art. no 3028000
S	Art. no 3027100	Art. no 3028100
М	Art. no 3027200	Art. no 3028200
L	Art. no 3027300	Art. no 3028300
XL	Art. no 3027400	Art. no 3028400
XXL	Art. no 3027500	Art. no 3028500

Molift Ambulating Vest

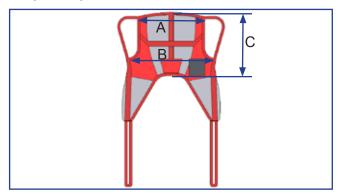
Size	No head support	Waist
S	Art. no 3036100	60-75 cm
М	Art. no 3036200	75-100 cm
Ĺ	Art. no 3036300	100-150 cm

Bag for slings - Art. no 3048000





Sling size guide



Easy and Basic Slings

Size	Color code	Recomm. weight (Kg)	A (cm)	B (cm)	C (cm)
XXL	White	230-300	86	130	68
XL	Blue	160-240	76	115	66
L	Green	90-160	66	100	64
М	Yellow	45-95	56	85	62
S	Red	25-50	51	75	60
XS	Light blue	17-25	46	65	58
XXS	Pink	12-17	41	55	56

Choice of sling size depends on both user weight and shape/size of user.



Please see the user manual following each sling for spesific user instructions.

Molift Stretcher

2150103 Molift Stretcher excl. Lifting loops

and safety belts

Lifting loops

2150357 Set of lifting loops standard

(4 pcs/stretcher)

2150356 Set of auto strap collectors

(4pcs/stretcher)

Safety straps

2150355 Set of safety belts (3 pcs/stretcher)

See separate manual for operating Molift Stretcher.

Equipment

Suspensions

Molift Hi-Trac 2002 and 2004 is available with following suspensions:

4 point, steel, kids
4 point, steel, size M
4 point, steel, size H
2 point, steel, size M
4 point, steel, size M
7 part no: 1130000
7 Part no: 1130002
7 Part no: 1130003
8 point, steel, flat
8 point, steel, 160 kg
Part no: 2140000

Molift Hi-Trac 2002+ og 2004+ is available with following suspensions:

4 point, steel, size + Part no: 1131000 8 point, steel, 300 kg Part no. 2140200

Molift SCALE

Only to be mounted by authorized personnell.

Molift Scale 160kg Part no: 2255001 Molift Scale 300 kg Part no: 2255003

With Molift SCALE it is possible to weight the patient. The scale is intended for weights up to 300 kg. Smallest weight possible is 2 kg, and the accuracy (e) is 100 g.

See separate manual for operating and assembly of Molift SCALE.

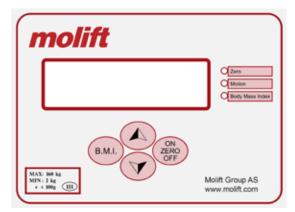


Make sure that the scale and the suspension is mounted correctly with all parts. Danger of personal injury if the suspension loosen!





Operating panel



Molift SCALE has functions like tare and Body Mass Index (BMI). LED indicates the activity.

On / Zero / Off

Press the key to turn the scale on. The scale will reset and the indicator "Zero" will illuminate. The scale is now ready for use.

It is possible to reset the scale with sling, by attaching the sling onto the suspension. Be sure that the sling is hanging freely and press "Zero" once. Wait until the display shows zero, then remove the sling and prepare for a normal lift. If the scale is not activated it will turn off after two minutes.



If it takes more than two minutes between zeroing and weighing, push the suspension once to avoid the scale from turning off.

To turn off, press and hold the key for approx. 3 seconds (until OFF shows in the display).





Maintenance

Cleaning

Clean surfaces with a damp cloth using an appropriate detergent .Detergents must be pH-neutral. Do not use solvents or strong liquids - this may damage surfaces on the lifter. For disinfection when needed; use isopropyl alcohol. Avoid abrasive cleaning products. Handcontrol and suspension need cleaning more frequently than the lifter. Regular cleaning is recommended and shoul be implemented in the suitable cleaning routines.

Monthly maintenance

- Check that the batterylamp is off and that the servicelamp gives a green light. Contact authorized servicepartner or dealer if servicelamp gives a yellow, orange or red light.
- Run the lifter through the complete installation, and check that it is running smoothly.
- Verify that the hand control contact is firmly in place. Clean contact and hand control with white spirit to remove grease and dirt.
- Check that the hand control cable has no damage.
- Check that the lifting belt has no damage, remove hair, dirt and dust from opening and check that the belt moves out and in easily throughout the length of the belt.
- Run lifter up and down to verify that it moves normally without any abnormal noise.
- Check that the springs and bearings on the transition coupling is in place and undamaged.
- Check that the rail system is marked with SWL and that the SWL on the lifters in the system does not exceed the rail system SWL.

Contact local service representative/dealer or Etac Supply Gjøvik if the lifter does not work properly.

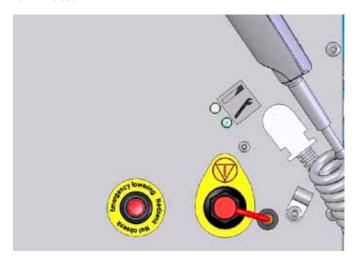
Periodic inspection

Molift recommends periodic inspection of the lifter once a year according to checklist on page 22. Periodic inspection is to be performed by authorized personell. The rail system has a separate checklist for annualy inspection.

One checklist is to be filled in and signed for each lifter after inspection. The owner of the lifter is responsible for keeping the list for information.

Service / maintenance

The lifter has a service light which will give a signal when the lifter needs service. When there is a green light, the lifter can be used normally. If there is no light, push one of the up/down buttons to activate the electronics, and the servicelamp will illuminate.



The electronics measures the operating time of the lifter, and after a specific time the light will change color to yellow and then red, indicating that the lifter needs service. Take contact with your local Molift service representative/dealer for booking service. The lifter can still be operated, but after a while an audible alarm will sound, to remind the operator that the lifter needs service immediately.

Servicelampe	Mode
No light	Power saving
Green	Ready for use
Yellow	Book service
Red	Perform service
Red + sound	Perform service im- mediately
Flashing yellow	Overheating

A list of spare parts is avalable on request



Troubleshooting

If you are not able to solve the fault or problems by yourself using this manual, please vontact your local Molift service representative. If you don't know whom to contact locally, please contact your dealer or Etac Supply Gjøvik to get help

Symptom	Possible cause / action
The lifter does not work	Emergency stop is activated (pulled out) / put back emergency stop
	Battery discharged / charge battery (green diode illuminates)
	The cable/contact of the hand control has disconnected / reconnect contact.
	Hand control has failed / switch to another identical control if available or contact local service representative for service
	Defective control electronics / contact local service repre- sentative for service
	Lifter is defective / contact lo- cal service representative for service
The lifter is not charging	Emergency stop is activated / Replace emergency stop plug
	Plug for charger is not con- nected to power (no light on charging light) / Connect to power outlet
	Hand control not placed correct in charger / Check that the hand control is placed correct in the cherger.
	Connection between charger ans hand control, or hand control and lifter, is bad / Check and clean the contact points on the charger and hand control.





Checklist for periodic inspection of Molift Smart Revision E-03/2009

ОК	Fault	Corrected	Visual inspection
	rauit	Corrected	Whole lifter checked for damage, cracks and deformation and found to
			be in good order. (Especially suspension, lifting arm, lifting motor, wheels and all cables).
			Lifter has been correctly assembled and no parts are missing. (Especially column lock, column attachment and suspension).
			All labels are present, without damage and readable
			Accessories have been checked. See separate form for sling. Battery charger is an accessory. List the accessories checked:
			Function checks
			Emergency stop and hand control have been checked and are in working order.
			The lifter has been rolled over the floor (preferably under load) and runs easily and steadily.
			Leg extender mechanism functions correctly (stops in correct positions).
			The lifter has been fully raised and lowered (preferably under load) and moves evenly, without noise and the lifting motor shows no runout.
			Servicing required
			Servicing (replacement of lifting motor) is unnecessary because: Alternative 1: Molift Service Tool has been used to read off the operating time in seconds: "Lifts left before service": Duration =
Com	pleted	-	y in case of faults under one of the above points:
The lifter has been removed from service and clearly marked "OUT OF ORDI		, and the second	
	Certified personnel have been summoned to carry out repairs and servicing. Name /Tel./ Fax:		
Completed Compulsory where lifter has been checked and approved:		y where lifter has been checked and approved:	
		The lifter has p	bassed the safety check and been affixed with the Molift safety check label, signed
The ticked and signed checklist has been passed to the client.			
Comr	nents on fa	aults and repairs	
	Lifter serial no.:Other ID. no. (if any):		
Inspec	ction carried	l out by: (Block ca	apitals) from
The	equipment l	has been tested an	d is in full working order Yes No
Place:		Date:	Signature:





DECLARATION OF CONFORMITY



Etac Supply Gjøvik Hadelandsveien 2 2816 Gjøvik NORWAY Telephone: + 47 4000 1004

hereby declare that:

Molift HI TRAC 2002 (+)/ HI TRAC 2004 (+) patient lifter and that the accessoires used only together with this product

are in conformity with:

 The Council Directive concerning medical devices 93/42/EEC and according to this classified as medical equipment class 1 Expiration date: 09th May 2017

Molift HI TRAC 2002 (+)/ HI TRAC 2004 (+) patient lifter is manufactured in conformity with the following national or international standards that also might implement a harmonised standard:

ISO10535 Hoists for the transfer of disabled persons - Requirements and test methods
 ISO 14971 Medical equipment - Risik analysis

Notified body:

Teknologisk Institut, Træ og Miljø Gregersensvej DK-2630 Taastrup Denmark

NEMKO AS Gaustadalleen 30 N-0314 OSLO Norway Tel: + 47 22960342

Title:

Site Manager

Tel: + 45 43993322

Name: Company:

Knut Martin Frøsaker Etac Supply Gjøvik

09.05.2012

Date

Signature



Find your distributor visit Molift.com

