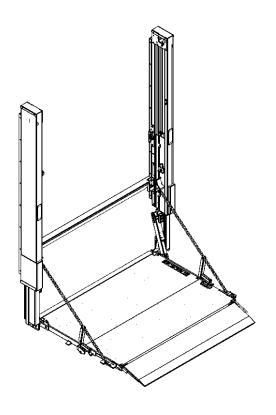


DHOLLANDIA DH-V* column tail lifts OPERATION MANUAL



** Pictured: DH-VHT

Manufacturer:

DHOLLANDIA N.V. Zoomstraat 9 9160 LOKEREN (Belgium)

Tel: +32 (0)9 349 06 92 Fax: +32 (0)9 349 09 77

e-mail: info@dhollandia.be website: www.dhollandia.com

Read the manual in its entirety before operating the tail lift

Keep this manual in the vehicle cab, as reference for the driver and tail lift operator

TABLE OF CONTENTS

1	UND	ERSTANDING SAFETY AND WARNING SIGNS	2
2	CON	ITACT INFORMATION AND DISCLAIMERS	3
3	GEN	ERAL INTRODUCTION	4
4	INTE	NDED USE	4
5	IDEN	ITIFICATION	5
6	DES	CRIPTION AND TAIL LIFT TERMINOLOGY	5
	6.1	General	5
	6.2	Safety devices	11
7	SAF	ETY INSTRUCTIONS FOR USING THE TAIL LIFT	14
	7.1	DO NOT use tail lift without adequate safety and operator training	14
	7.2	General safety instructions	14
	7.3	Danger zones, risk of crush and shear injury	18
	7.4	Safe operator position	21
	7.5	Additional risk of lifting heights > vehicle floor level	24
	7.6	Instructions for working at loading docks	26
	7.7	Recommended daily pre-trip inspection	28
	7.8	Importance of preventative maintenance	29
	7.9	Safety devices	31
8	LOA	D CHARTS AND CORRECT LOADING PROCEDURES	36
9	OPE	RATING INSTRUCTIONS - PRINCIPLES AND PROCEDURES	39
	9.1	Main external boxes	39
	9.2	The most popular auxiliary controls	43
	9.3	Switching the main power on/off	44
	9.4	Operation	45
	9.5	The use of stabilizing legs	50
	9.6	The use of cart stops	51
10	DEC	ALS	54
11	MEA	NING OF SAFETY AND WARNING SIGNS	58
12	END	NOTE	60

1 UNDERSTANDING SAFETY AND WARNING SIGNS

Many safety signs and symbols used in this manual are based on international standards, others refer to specific situations or actions.

Consult section 11 for an overview of signs and symbols used in DHOLLANDIA manuals and their meaning.

Please take special notice of the following signs used in the manual. They indicate the likelihood and severity of a potential injury if a person fails to follow the instructions presented on the safety sign.



DANGER: indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. [white letters on red background]



WARNING: indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. [black letters on orange background]



CAUTION: indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. [black letters on yellow background]



NOTICE: is used to address practices not related to physical injury. [white letters on blue background]



SAFETY INSTRUCTIONS: indicate general instructions relative to safe work practices, reminders of proper safety procedures, or the location of safety equipment. [white letters on green background]







SAFETY ALERT SYMBOL: is used to alert the user to potential hazards. All safety messages that accompany this sign shall be obeyed to avoid possible harm. [free-standing, or on background colours red, orange, yellow or black]



A WARNING

- Failure to understand and follow the instructions in this manual can put the operator and any bystanders at great risk of serious bodily injury and death.
- Prior to operating the tail lift, make sure you understand the safety and warning signs used, and read them in conjunction with the instructions in this manual.
- If in doubt, DO NOT operate the tail lift. Contact your national DHOLLANDIA distributor. See page 3 for contact info.

2 CONTACT INFORMATION AND DISCLAIMERS

DHOLLANDIA tail lifts are regularly being adapted to new vehicle and chassis developments and specialized customer requirements. Therefore, DHOLLANDIA reserves the right to alter product specifications without prior notice; and potentially modifications or new developments might not have been taken into account at the time of printing.

NOTICE

Please confirm you have reviewed the most up-to-date version of this manual prior to operation of the associated DHOLLANDIA tail lift. See below for instructions to download the latest version of the manual.

Contact your national DHOLLANDIA distributor if you have any questions regarding the installation, operation, repair and maintenance of DHOLLANDIA tail lifts, to obtain replacement copies of manuals or decals, or to learn about available equipment options for DHOLLANDIA tail lifts.



If in doubt where to find your national DHOLLANDIA distributor, visit the official DHOLLANDIA website

www.dhollandia.com → Country selection / language selection → Distributors & service



The latest version of all manuals can also be downloaded from the DHOLLANDIA website

www.dhollandia.com ightarrow Downloads ightarrow User's manuals ightarrow ... select required manual

• Take notice of following important disclaimers:

DISCLAIMERS

- DHOLLANDIA disclaims liability for any personal injury, death, or property damage that results from operating a tail lift that
 has been modified from the original design, without explicit written approval from the manufacturer.
- DHOLLANDIA disclaims liability for any personal injury, death, or property damage that results from use of aftermarket or non-OEM replacement parts for service or repair of the tail lift.
- DHOLLANDIA disclaims liability for any personal injury, death, or property damage that results from improper use of the tail lift.
- DHOLLANDIA disclaims liability for any personal injury, death, or property damage that results from overloading or improperly loading the platform, disregard of the maximum rated lift capacity and the applicable load charts.
- There are no warranties, express or implied, including the warranty of merchantability or a warranty of fitness for a particular purpose extending beyond that set forth in this manual.

3 GENERAL INTRODUCTION

- This OPERATION MANUAL explains how the DHOLLANDIA tail lift is manufactured; what safety devices are incorporated in its
 design; and how to use the tail lift in a correct manner, that preserves the integrity of the machine over the intended lifetime and
 helps maximize the safety of the operator and any bystanders.
- The MAINTENANCE AND REPAIR MANUAL (separate) explains how to maintain and service the tail lift in the appropriate
 manner, maximizing the safety of the operator and any bystanders, and ensuring the reliability of the tail lift over the intended
 lifetime.
- The CE IDENTIFICATION AND INSPECTION BOOK (separate) contains the serial number identification, the CE Declaration of Conformity, the Fitting Declaration to be filled out by the installer of the tail lift, and an overview of the owner's legal obligations in terms of periodic testing and certification.
- The manuals must be kept with the tail lift at all times as a reference book for the operators and technical service.

WARNING

- Improper use of the tail lift will put the operator and other parties at great risk of serious bodily injury and death. Therefore, the use of the tail lift is restricted to skilled operators only; who have been properly trained, and who know and understand the full contents of this manual.
- Unauthorized modifications to the tail lift can put the operator and other parties at great risk of serious bodily injury and death. Therefore, it is strictly forbidden to modify the tail lift and its safety devices in any way.
- Use of aftermarket or non-OEM replacement parts to repair or maintain the tail lift is strictly prohibited and may result in serious bodily injury or death to the operator or any bystanders.

4 INTENDED USE

DHOLLANDIA tail lifts are designed to be fitted to commercial vehicles (commercial trucks, trailers and semi-trailers), and shall be used exclusively to load and unload the goods transported on the vehicle it is fitted to, within the limits of the load chart, in compliance with the operator instructions and safety instructions described in this manual.

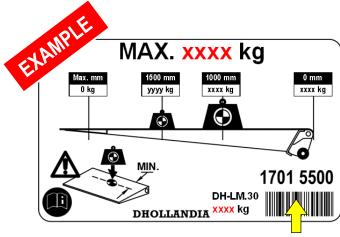
WARNING

- Improper use of the tail lift will put the operator and bystanders at great risk of serious bodily injury and death. Therefore, it is strictly forbidden to use the tail lift in a different way, or for different purposes than described in the operation manual.
- The tail lift must NEVER be used as an elevated work platform, to push loads, or to carry people.
- The tail lift must NEVER be used as a wheelchair lift.
- DHOLLANDIA disclaims liability for any personal injury and / or property damage that results from improper use.

5 IDENTIFICATION

- Every DHOLLANDIA tail lift is identified by and labelled with a unique 8-digit serial number (with or without a space between the first and last 4 digits). Use this number for any inquiry on a particular tail lift, or when ordering replacement parts.
- In addition to the tail lift type and serial number, the various serial number labels provide additional information, such as: the maximum rated lift capacity and load chart, the date of manufacture, etc...
- These labels are usually affixed to various tail lift components, and can be found in the following locations (the yellow arrows point to the serial numbers):

On the main external control box



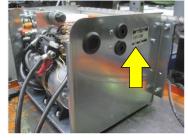
Affixed to the side of the vehicle body, or on the platform



On the platform



In the pump unit

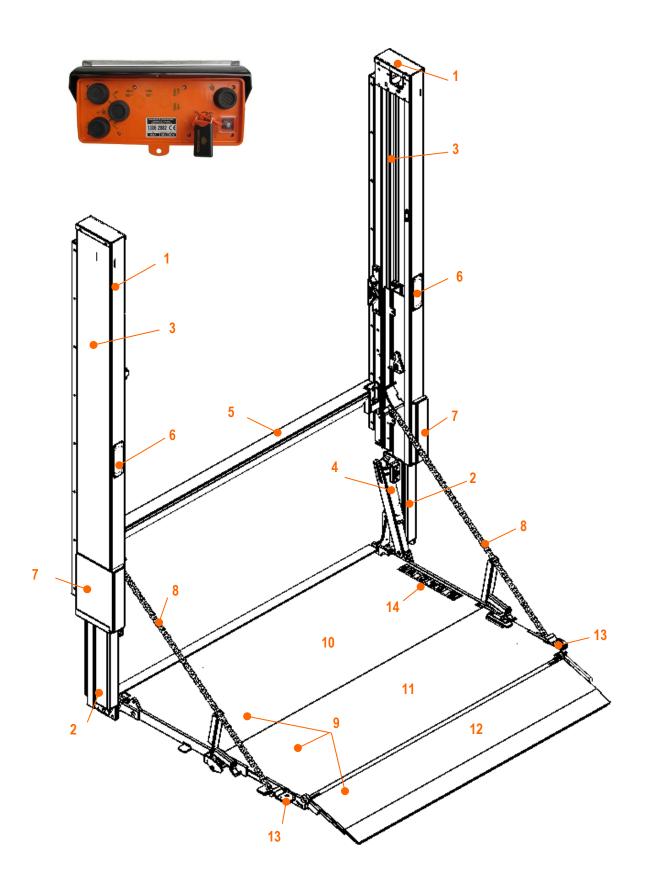


6 <u>DESCRIPTION AND TAIL LIFT TERMINOLOGY</u>

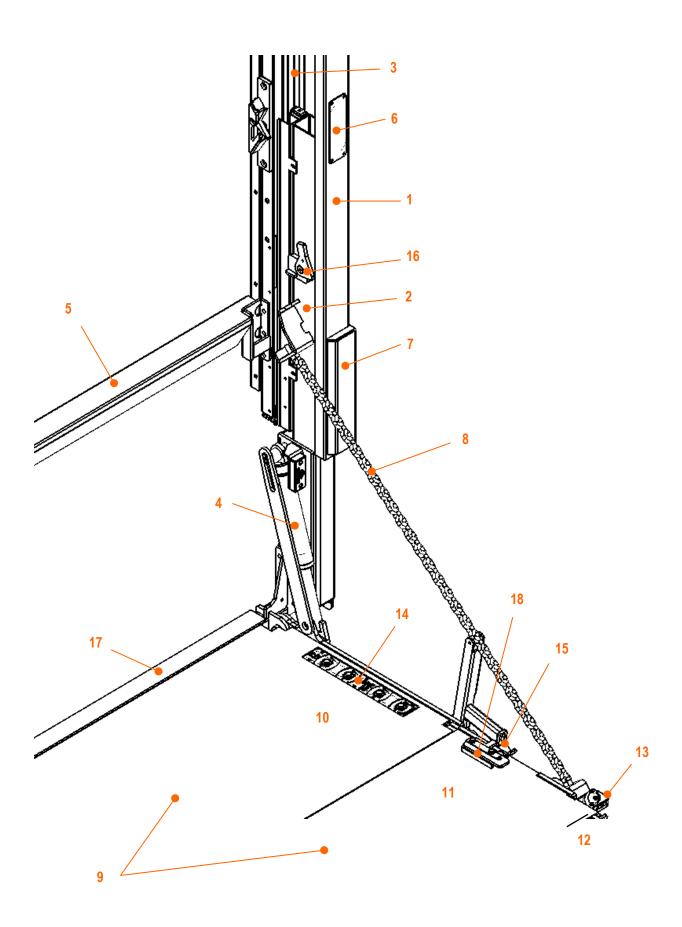
6.1 GENERAL

- DHOLLANDIA tail lifts are developed and manufactured using state-of-the-art technology, high quality materials and components, and highly skilled workmanship.
- The DH-VHT features a column tail lift, designed for multi-deck vehicles with very low ride height (independent axles), or as an internal lift / moving deck.
- In its travel position, the platform of the column tail lift is stowed vertically behind the vehicle body. Before use, the platform is tilted open 90 degrees from the vertical travel position, to a horizontal work position.
- Main details and terminology: see next page.

TAIL LIFT TERMININOLOGY				
See figure below page for parts corresponding to numbers in this table				
#	Description			
1	Lift columns: set of 2 columns mounted in a fixed position against the rear frame of the vehicle body. The columns are the tracks in which the lift runners carrying the platform, travel up / down.			
2	Lift runners: set of 2 profiles carrying the platform and its load. They are lifted / lowered by the lift cylinders.			
3	Lift cylinder: hydraulic cylinders used to LIFT / LOWER the lift runners, the platform and its load. They are mounted inside the lift columns.			
4	Tilt cylinder: hydraulic cylinder used to OPEN / CLOSE the platform. Tilt cylinder is protected by a robust steel plate.			
5	Bed extension: fixed extension of the vehicle bed, connecting L and R side columns. The bed extension incorporates toe-protection slope according to EN1756-1.			
6	Pockets for rear truck lights. These pockets also give access to the fixation screws of the slide pads of the lift runners (for maintenance).			
7	Loading dock protection plates: reinforcement plate on lift columns, to increase protection upon impact at loading docks.			
8	Support chains: the support chains support the platform, and its load, when unfolded in an open work position			
9	Platform: carries the load during loading / unloading. Consists of a base section [11], a folding point [12] and a flip ramp [13].			
10	Base section of the platform: inboard platform section.			
11	Folding point: outboard platform section.			
12	Flip ramp: load restraint device preventing rolling loads from rolling unintentionally off the outboard platform edge.			
13	Flashing lights: platform mounted lights to make platform visible in public traffic.			
14	Foot controls: platform mounted switches to LIFT / LOWER the platform. Operator must use both feet to actuate any movement from the foot controls.			



#	Description
1	Lift columns: housings for the lift components.
2	Lift runners: main articulation point for the lift platform which attaches to the lift columns.
3	Lift cylinders: responsible for applying the appropriate forces required to lift.
4	Tilt cylinder + impact protection plate: allows the platform to change pitch + helps secure the platform in stowing.
5	Bed extension: fixed extension of the vehicle bed, connecting L and R side columns. The bed extension incorporates toe-protection slope according to EN1756-1.
6	Pockets for rear truck lights. These pockets also give access to the fixation screws of the slide pads of the lift runners (for maintenance)
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10	Base section of the platform: inboard platform section
11	Folding point: outboard platform section
12	Flip ramp: load restraint device preventing rolling loads from rolling unintentionally off the outboard platform edge.
13	Flashing lights: platform mounted lights to make platform visible in public traffic
14	Foot controls: platform mounted switches to LIFT / LOWER the platform. Operator must use both feet to actuate any movement from the foot controls.
15	Platform hook: platform mounted hook; picking into stowage hook [21] or deck hook [22] when platform is in closed / folded position
16	Lift height stop: if closed, platform will stop flush with vehicle bed level. If opened, platform will lift higher above bed level
17	Fixed cross member: first, most inboard platform section mounted fixed between the lift runners. The platform [10-11-12] pivots around this member
18	Lock for flip ramp: locking device for locking flip ramp in its travel position



 For all tail lift models above, the electric control box and the hydraulic power pack are connected to the vehicle battery (or auxiliary battery) during fitting, according to the fitting instructions of DHOLLANDIA, and the requirements imposed by the vehicle manufacturer.

NOTICE

- To ensure the reliability of the lift over many years, it is extremely important that the batteries, their charging system, the batteryand earth cables, and fuses are dimensioned sufficiently strong, and fitted with care following above mentioned instructions.
 Insufficient battery tension will cause harm and irreparable damage to the electric components of the lift (starter solenoid,
 electric motor, electric switches, etc...).
- Vehicle manufacturers often impose prescribed connections for the battery and earth connections of the lift, which should be
 observed to avoid damage to the vehicle electronics. Where such prescriptions conflict with the fitting instructions of
 DHOLLANDIA, contact the vehicle importer or DHOLLANDIA for further advice.
- As most vehicles are supplied with power supplies that cover the primary needs of the original equipment only, the vehicle owner & their contractors should consider upgrading the battery capacity and charging system in function of the additional needs of <u>all</u> auxiliary equipment (tail lift, but also extra heating system, refrigeration units, etc...).
 - → The alternator of the vehicle should have a min. rating of 14V/45A for 12V vehicles and 28V/80A for 24V vehicles.
 - → In case of long journeys and short periods of tail lift use, the existing alternator and batteries will probably suffice.
 - → In case of long journeys and long periods of intensive tail lift use, the batteries will probably need upgrading by heavier duty ones.
 - → In case of short journeys and long periods of intensive tail lift use, both the alternator and the batteries will probably need upgrading. (Alternator of 14V/80A or 28V/135A).
- → The following min. battery equipment is recommended in function of the tail lift capacity:

Capacity	V	Battery
750-1000kg (1,600–2,200lb)	12V	1x 140Ah
	24V	2x 88Ah
1500-2000kg (3,300-4,400lb)	12V	1x 180Ah
	24V	2x 135Ah
+2000kg (+4,400lb)	12V	Not recommended
	24V	2x 180Ah

6.2 SAFETY DEVICES

DHOLLANDIA tail lifts are equipped with multiple safety devices in order to ensure that goods can be loaded and unloaded with maximum safety for the operator, any incidental bystanders, and the load itself. The following safety devices are incorporated or recommended on most tail lifts:

→ Electrical safety valves mounted on all cylinders [standard]. The safety valves lock the oil inside the hydraulic cylinders as long as they are not energized via the electrical controls. The purpose is to secure the platform in its travel position while driving, or in any other fixed position, in case of accidental failure of a hydraulic pipe (as soon as the electrical controls are released).

DHOLLANDIA safety valves are equipped with a manual emergency control, allowing the operator or repair agent to open the valve manually in case of electrical failure (see MAINTENANCE AND REPAIR MANUAL).

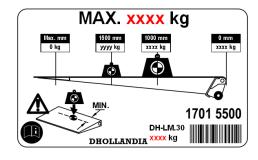
Mechanical platform lock(s) [optional]. DHOLLANDIA offers (a) mechanical platform lock(s) as an option, to further secure the platform in its travel position in case of accidental loss of hydraulic pressure.

The use of a platform lock is good and safe practice in general. Also, depending on the vehicle payload and the type of tail lift, extra locks might be compulsory to comply with the CE load containment regulations EN12195 and EN 12642 Code XL. Ask DHOLLANDIA for further advice.





- **Pressure relief valve** [standard]. Safety device integrated into the pump unit, enabling the manufacturer and the installer of the tail lift to limit the real lift capacity to the maximum rated capacity of the tail lift sold, and to protect it against overload while LIFTING.
- **Pressure compensated flow valves** [standard]. Flow valves are integrated in the hydraulic circuits to ensure the platform lowers at a safe speed, both when empty as when fully loaded.
- Marking of the centre point of maximum load [standard]. Tail lifts are not designed to LIFT and LOWER weights corresponding to their maximum rated capacity over the entire surface of the platform. The maximum rated capacity is only valid at a specified distance or "centre point of maximum load" behind the vehicle body. Behind that point marked on the platform, the maximum safe working load diminishes according to the load diagrams supplied with the tail lift. See also section 8 on load charts and correct loading procedures.
- 2-hand exterior control box [standard]. On the exterior control box mounted in fixed position at the side of the vehicle body, all functions are actuated by means of a control switch and a safety switch. The compulsory use of 2 hands to actuate the various lift functions, protects the operator from crushing their head, limbs or upper body between the LIFTING or CLOSING platform and the rear frame of the vehicle body.





- Tail lift on/off switch [min. 1 compulsory]. Depending on configuration, the electrical power to the tail lift is switched on / off by means of:
 - A cabin switch (provided by the truck manufacturer or DHOLLANDIA [option OAE503.2]). This switch enables the operator to switch the control power to the main exterior control box on / off. If equipped with a position sensor [option OAE502], it also provides a signal if the platform is stowed in its travel position or left open.
 - A main battery disconnect switch integrated in the exterior control box [optional]. This switch enables the operator to switch the main battery power to the tail lift on / off. If available, the operator MUST switch off the main battery disconnect switch after each use of the tail lift.
 - 3. A combination of both





- Fuses [standard]. A 15A fuse for the electrical control circuit comes mounted in the pump unit and in the main exterior control box (for most types). A 150 250A fuse for the electrical main battery circuit is supplied by the truck manufacturer or by DHOLLANDIA. Both fuses protect the electrical circuits against short-circuits and amperage peaks.
- Protection of toes and feet against crushing and sheering [1 min. compulsory]. The tail lift standard EN1756-1 and DHOLLANDIA's fitting manuals provide a number of solutions to prevent the operator from crushing their toes or feet between the inboard platform edge of the rising platform and the rear cross member of the vehicle floor. At least 1 solution, ordered from DHOLLANDIA, or released during installation, must be foreseen. Consult the installation manual FIT-ELEC-OPTION in its latest version. In case of doubt, contact DHOLLANDIA. See page 3 for contact information.



• **Foot controls** [optional]. See also previous point. Platform mounted foot controls (2 buttons or 4 buttons) immobilise the feet of the operator in a safe position on the platform and protect him / her from crushing their toes or feet between the inboard platform edge of the rising platform and the rear cross member of the vehicle floor.



Cart stops [optional]. If a platform is aimed at LIFTING and LOWERING loads that cannot be braked or secured by their design or their method of transportation, the platform MUST be equipped with cart-stops that prevent the load from accidentally rolling off the platform and hitting the operator or any bystanders. DHOLLANDIA offers a variety of cart-stops that can be fitted near the outboard platform edge, or at intermediate distances.



- Visibility of the deployed platform [min. 1 compulsory]. Any platform
 protruding beyond the extremities of the vehicle, MUST be clearly visible
 from all approachable sides in daylight and at night. Check any applicable
 national or local regulations, as these can be very strict on the application,
 size and type of means used. The visibility of the platform can be optimized
 by:
 - Reflective marking tape applied to the sides of the platform [standard applied during installation]
 - 2. **Platform flags** [option OAT020 023], mounted to the underside of the platform, near the outboard platform edge
 - 3. Bi-directional **flashing platform lights** [option OAE200], mounted on the platform surface, near the outboard platform edge
 - 4. **Warning cones** (2 or 4) [widely available] placed around the work area of the platform
 - 5. A combination of 2 or more of the above. The various means above have variable efficiency depending on the direction of approach and the light conditions (e.g. bright sunlight versus night darkness). DHOLLANDIA strongly recommends a combination of 2 or 3 means to cover all circumstances







Safety rails [optional]. Safety rails MUST be fitted in all applications where a significant risk exists that the operator could fall off the platform and suffer bodily injury. They are compulsory above 2m lifting height.

Safety rails may be purchased along with your tail lift at the initial order, or may be purchased and retrofitted to your tail lift later. They are available in a wide range of different executions to suit the particular needs of many applications. Contact your national DHOLLANDIA dealer for further information. See page 3 for contact info.



Decals [standard]. The tail lifts are supplied with a number of operation deals, load diagrams and safety decals, most of them to be applied to the vehicle body during installation. These decals must always be kept clean and legible and replaced whenever required.



7 SAFETY INSTRUCTIONS FOR USING THE TAIL LIFT

7.1 DO NOT USE TAIL LIFT WITHOUT ADEQUATE SAFETY AND OPERATOR TRAINING

• DHOLLANDIA tail lifts shall be exclusively used to load and unload the goods transported on the carrying vehicle, within the limits of the applicable load chart, in compliance with the operator instructions and safety instructions in this manual.

WARNING

- Improper use of the tail lift will put the operator and other parties at great risk of serious bodily injury and death.
- To reduce the risk of serious bodily injury to the operator and any bystanders, the use of the tail lift is restricted to skilled operators, who have been properly trained, and who know and understand the full contents of this manual.
- To reduce the risk of serious bodily injury or death, THE OPERATOR MUST COMPLY WITH ALL SAFETY INSTRUCTIONS AND WARNING LABELS IN THIS SECTION AND THE ENTIRE MANUAL before and while operating the tail lift.
- The operator should follow all other policies and procedures applicable to the job situation including health and safety regulations, road and traffic regulations, as well as company procedures. The operator should not use the tail lift if he / she cannot use it in accordance with all applicable regulations and instructions.
- The operator must be at least 18 years of age.

7.2 GENERAL SAFETY INSTRUCTIONS

WARNING

To avoid serious bodily injury or death, the operator must use appropriate work clothes. NEVER wear loose-fitting clothes that
may be trapped in the moving parts of the tail lift. ALWAYS wear professional safety-toe shoes, protective gloves, and eye
protection. Use of a hardhat is recommended.

Mus









Recommended:



- Slipping (and falling) can result in serious bodily injury and death. To prevent injury by slipping:
 - ALWAYS wear professional safety-toe shoes with a good non-slip sole.
 - DO NOT use the tail lift if it is covered with snow, mud, dirt, debris, liquids or other substances.
 - O DO NOT run on the platform.
- Tripping (and falling) can result in serious bodily injury and death. To prevent injury by tripping:

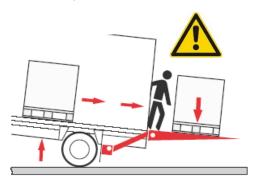


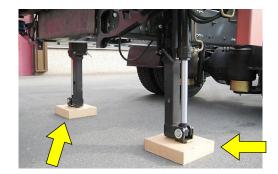
- o Pay attention to protruding items on the platform surface at all times (ex. platform lights, cart-stops and their levers, foreign objects, etc...).
- o DO NOT run on the platform.
- Falling from the platform can result in serious bodily injury and death. To prevent injury by falling:
 - o Make sure your footing is solid, and you maintain 3 points of contact. See section 7.4 on page 21.
 - O Use safety rails where available. See section 7.4.
 - o NEVER move the vehicle while a person is standing on the platform, or inside the vehicle body.
 - O NEVER use the platform as an elevated working platform.



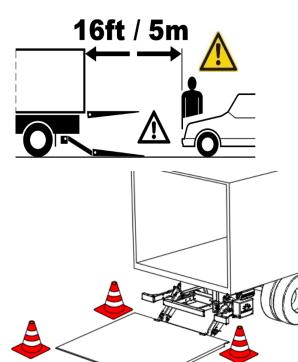
MARNING

- Prior to operating the tail lift, the vehicle must be safely parked on level and solid ground, the parking brake applied, and the
 engine must be switched off. Lock open the rear doors and secure all other moving parts of the vehicle body. Failure to abide
 by these instructions can result in serious bodily injury or death to the operator or bystanders.
- Ensure that the vehicle cannot tip-over when putting heavy weight on the platform. If the vehicle or the tail lift are equipped with mechanical or hydraulic stabilizing legs, deploy these before opening the platform. Ensure that the stabilizing legs are positioned on solid even ground. In case of soft terrain (sand, gravel), solid support blocks must be used under the stabilizing legs. Failure to abide by these instructions can result in serious bodily injury or death to the operator or bystanders.

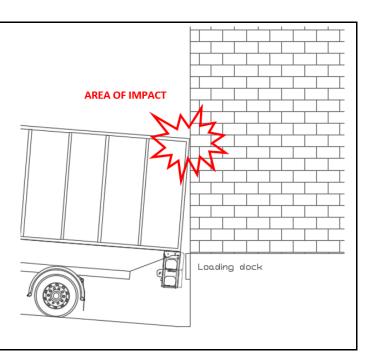




- To reduce the risk of serious bodily injury or death which may result from other vehicles when parked, ALWAYS make sure a safety distance of 16 ft. or 5 m. is kept between the back of the truck and the following vehicle.
- To reduce the risk of serious bodily injury or death, ALWAYS make sure the platform is clearly visible to other persons from all approach directions. DHOLLANDIA recommends the use of 4 warning cones, placed around the work area of the platform. [See notice below].
- To reduce the risk of serious bodily injury or death, make sure the working zone is sufficiently lighted.



When loading or unloading to a back down loading dock.
 Make sure to not hit the wall with the body / tail lift. Failure to abide by these instructions can result in material damage, serious bodily injury or death to the operator or bystanders.



NOTICE

DHOLLANDIA offers optional platform mounted flashing lights and flags to make the platform more visible to other people. Please visit www.dhollandia.com or contact the national DHOLLANDIA distributor for more information. See page 3 for contact info.

WARNING

- Prior to releasing the mechanical platform lock (if so equipped) and using the tail lift, check if the tail lift can be used safely.
 Take precautions to ensure your own safety, and the safety of bystanders or other parties in traffic. Clear the working area of any objects that could potentially impede movement of the tail lift. Failure to abide by these instructions can result in serious bodily injury or death to the operator or bystanders.
- Inspect the tail lift prior to each use. If any unsafe condition exists or unusual noises or movements are noticed, DO NOT use
 the tail lift and contact an authorized DHOLLANDIA service agent for repair. Please see 'pre-trip inspection' procedures under
 section 7.7 on page 28.
- Read and comply with all warning decals, pictograms and instructions affixed to the tail lift. Failure to abide by warnings and instructions may result in serious bodily injury or death.
- The tail lift must not be used if the operator is intoxicated, impaired or distracted in any way. NEVER use a phone or mobile device when operating the tail lift.
- The tail lift shall be used by means of original control units only. Operating the tail lift with unauthorized control units will increase risk of serious bodily injury or death to the operator or any bystanders.
- Limit the operation of the tail lift to one single operator. Operation of the tail lift by more than one operator at a time may cause confusion and increase the risk of serious bodily injury or death.

• To prevent people from being hit by the platform, by objects falling off the platform or being caught in pinch points or being pinched by the moving parts of the tail lift:

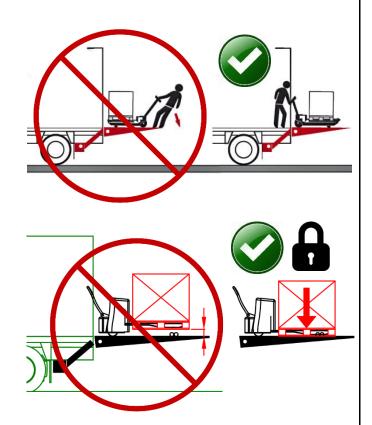


→ Keep visual control over the entire working area of the tail lift and its platform at all times, including the area DIRECTLY BEHIND and UNDER the platform.



→ DO NOT allow any other person, to stand in the proximity of the tail lift and its platform. ENSURE AT ALL TIMES THAT NOBODY STANDS UNDER OR WITHIN REACH OF THE MOVING PLATFORM.

- When unloading from the vehicle body to the platform, ALWAYS push the load out, to prevent the load from hitting you. NEVER pull the load from the vehicle onto the platform. Pulling the load from the vehicle can result in a fall from the platform causing serious injury or death.
- If pushed out too far, the load can fall off the platform, and cause serious bodily injury or death to other people.
 Deploy the cart-stops before pushing out the load. If not available, push the load slowly while checking the outboard platform edges.
- The load must ALWAYS be secured when raising or lowering on the tail lift, to prevent it from shifting position and rolling off the platform edges. Failure to properly secure the load will increase the risk of serious bodily injury or death to the operator or any bystanders.
- When using a pallet jack, lower and rest the pallet or load upon the platform surface before operating the tail lift.
- For loads on wheels, engage wheel brakes of carts, trolleys and machinery (if available) before operating the tail lift.



A WARNING

- For loads that could slip, the use of original DHOLLANDIA cart-stops or an appropriate alternative securement device (ex. ratchet straps) is required. The load must not be able to move during movement of the platform. See 9.6 for correct use of original DHOLLANDIA cart stops.
- NEVER leave the tail lift unattended in open position. Before leaving the vehicle unattended, close the doors of the vehicle, stow the platform in its travel position and switch OFF the main battery disconnect switch in the external control box (if so equipped), or the cab switch. Leaving the tail lift in open position unattended can result in serious bodily injury or death to unaware bystanders. See Error! Reference source not found. for instructions on properly stowing platform into its travel p osition.
- NEVER move the vehicle with the tail lift in the open position. ALWAYS close and secure the doors of the vehicle, stow the
 tail lift in its travel position and switch OFF the main battery disconnect switch in the external control box (if so equipped), or
 the cab switch, before moving the vehicle. If so equipped, close the mechanical platform lock after stowing the platform in its
 travel position. Failure to properly stow the tail lift in its travel position prior to moving the vehicle may result in serious bodily

injury or death.

- Use of the tail lift near vehicular traffic may result in serious bodily injury or death from being struck by another vehicle. When
 operating the tail lift on or near a street or parking lot, be sure to stay clear of vehicular traffic. ALWAYS be sure to clearly
 identify to other drivers that the tail lift is in use. DHOLLANDIA recommends use of warning cones to clearly identify to drivers
 that the tail lift is being operated. When the tail lift is operated near vehicular traffic, wear working clothes in high-visibility
 colors and a retro-reflective safety vest.
- DO NOT raise the tail lift with the rear doors partially open. Doing so may damage the doors or the tail lift platform and may also result in serious bodily injury or death to the operator or any bystanders.
- Above all, USE GOOD COMMON SENSE when operating the tail lift. DO NOT operate the tail lift until the contents of this
 manual have been read and fully understood. Improper use of the tail lift increases the risk of serious bodily injury or death to
 the operator and any bystanders.

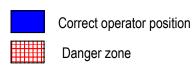
NOTICE

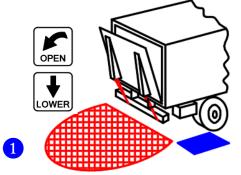
- The most important safety and operation instructions are summarized in a product video that can be viewed online.
- Make sure you review these instructions prior to operation of the associated DHOLLANDIA tail lift



7.3 DANGER ZONES. RISK OF CRUSH AND SHEAR INJURY

There are 4 main danger zones on and around the platform, that can be hazardous to the operator and any other persons nearby:







1. ALWAYS stay clear of the range of motion of the platform

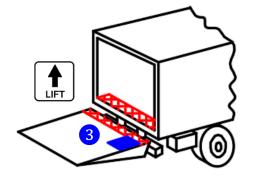
A WARNING

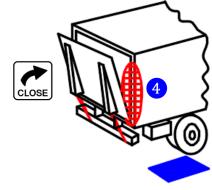


Impact by the platform or the moving parts of the tail lift will result in serious bodily injury or death. To prevent people from being hit by the platform, by objects falling off the platform or being caught in pinch points or being pinched by the moving parts of the tail lift:

- → Keep visual control over the entire working area of the tail lift at all times, including the area directly behind and under the platform.
- → DO NOT allow any other person to stand near the tail lift and its platform. Ensure at all times that nobody stands under, or within reach of the moving platform and its load.









2. Beware of crushing zone between lowering platform and



3. Beware of the crushing zone between rising platform and vehicle floor



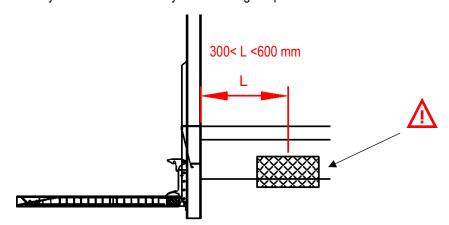
4. Beware of the crushing zone between closing platform and rear frame of vehicle body

WARNING



The operator or other persons approaching too close to these danger zones risk serious bodily injury or death by pinching, crushing or shearing of limbs, upper body or head. To prevent these hazards:

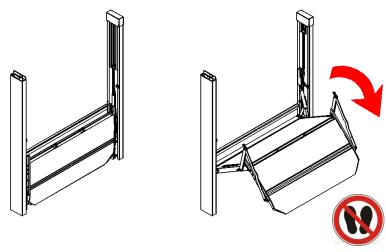
- ALWAYS stand clear of the range of motion of the platform and moving parts of the tail lift.
- Keep hands, feet and upper body clear of pinch points and moving parts of the tail lift.
- DO NOT allow any other person to stand near the tail lift and its platform.
- The prescribed position of the exterior control box, and the compulsory use of 2 hands to actuate the tail lift functions, aim to protect the operator from crushing their head between the closing platform and the rear frame of the vehicle body. Therefore, never try to look inside the body when closing the platform.



Points of special attention:

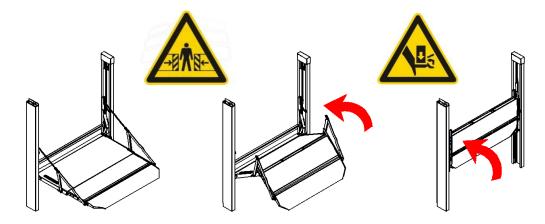
Long and foldable platforms can OPEN with unexpected (fast) speed. Operator must stand on the side of the lift to OPEN the platform. Operator must overview and ensure that nobody stands under, or within reach of the moving platform.





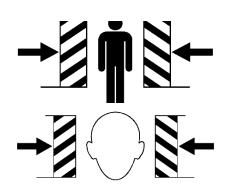
Operator must stand clear of moving platform when opening tail lift. Operator must overview and ensure that nobody stands under or within reach of moving platform.

Long and foldable platforms can CLOSE with unexpected (fast) speed.



- Many lifts are equipped with an automatic platform stowing device, causing the platform to automatically shut close at the end of its vertical travel.
- Therefore, the operator must stand on the side of the lift to CLOSE the platform.

WARNING



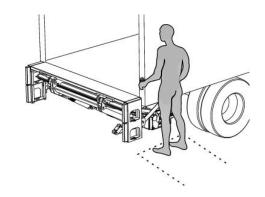
Operator must stand on side of vehicle, and should stand clear of moving platform when closing tail lift.

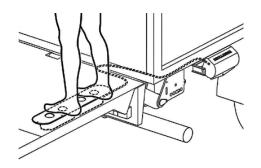
Keep head, limbs, and body clear of pinch points and moving parts.

Operator must overview and ensure that nobody stands under or within reach of moving platform.

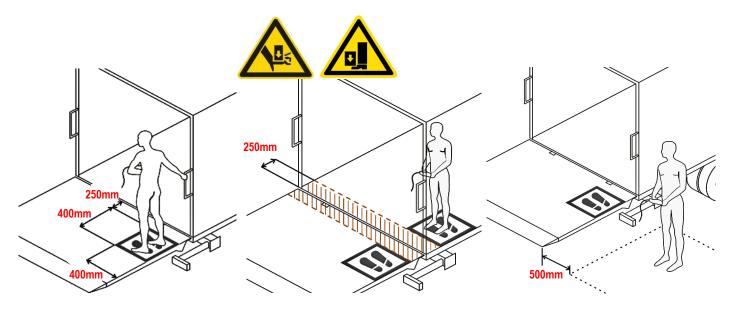
7.4 SAFE OPERATOR POSITION

- The instructions on safe operator position aim to enforce that the operator stands in a safe position before and while operating the tail lift and protect him/her against the risks of crushing and sheering as described in the previous section, 7.3.
- Main external control box: the zone just in front of the sidemounted, external control box, equipped with mandatory 2-hand operation, is the only position from where the operator can safely OPEN and CLOSE the platform. It is also safe to LOWER and LIFT the platform from this position.
- Auxiliary controls: the operator may also LOWER and LIFT
 the platform through use of the auxiliary controls. The operator
 must use extreme caution when lowering or lifting the platform
 with the auxiliary controls and must ensure it is done from a safe
 position. Use of auxiliary controls from an improper position
 greatly increases the operator's risk of crushing or shearing of
 toes, limbs, head, and upper body as well as death.
- The operator may also LOWER and LIFT the platform through the use of the platform mounted foot controls (optional) which fix both operator's feet to a predetermined position on the platform. The operator must use extreme caution when using platform mounted foot controls to avoid falling from the platform. ALWAYS maintain 3 points of contact (see next page).





- Handheld auxiliary controls with a spiral cable should only be used under the following conditions (1):
- (1) Remark: The CE standard EN1756-1 suggests a number of other, less usual solutions providing sufficient protection against crushing and sheering of the toes and feet, such as a hinged foot protector or cut-out switch. Consult the latest edition of DHOLLANDIA's fitting instructions FIT-ELEC-OPTION or contact your national DHOLLANDIA dealer for more information. See page 3 for contact info.

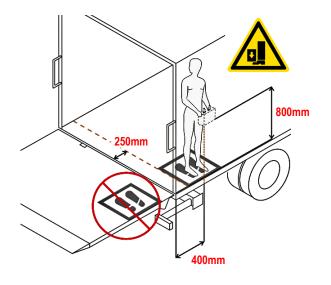


On the platform, from a safe operator position of minimum 400mmx400mm square, clearly and permanently marked at minimum 250mm distance from the hazard zone between the platform and the rear of the vehicle floor. Maintain 3 points of contact (see next page).

Inside the vehicle body, from a safe operator position of minimum 400mmx400mm square, clearly and permanently marked at minimum 250mm distance from the hazard zone between the platform and the rear of the vehicle floor.

On the ground, from a safe operator position minimum 500mm away from the side edge of the platform.

- A fixed internal control should only be used inside the vehicle body from a safe operator position that is a minimum 400mmx400mm square, clearly and permanently marked at a minimum of 250mm from the hazard zone between the platform and the rear of the vehicle floor (1 on previous page). A fixed internal control should NEVER be used from a position on the platform.
- The marked operator positions on the platform must be kept clear at all times. It is prohibited to place a load on these dedicated areas.
- The power to any of the auxiliary controls (hand held controls or platform mounted foot controls) must be connected to and dependent upon the safety switch in the main external control box. Activation of the auxiliary controls must deactivate the functions on the external control box.
- It is prohibited to bypass or modify any of the safety features of the tail lift. If connection of the power to the external control box does not deactivate external controls, stop using the tail lift, and contact an authorized DHOLLANDIA agent.



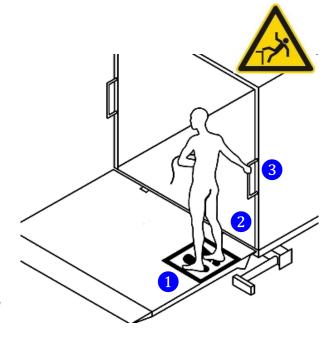
WARNING

- When standing in front or behind the load, the operator risks being pushed off the platform, or being crushed between the moving load and the rear frame of the vehicle body, resulting in serious bodily injury or death.
- To prevent this hazard, ALWAYS stand on the side of the load, NEVER in front or behind.

WARNING

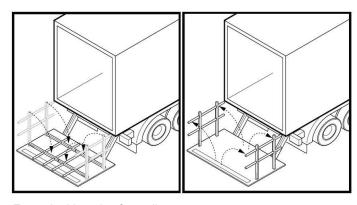


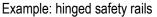
- If not standing solidly, an operator on the platform risks serious injury or death by falling off.
- While riding on the platform, ALWAYS make sure your footing is solid, and ALWAYS maintain 3 points of contact, as shown in the picture to the right.
- Note: these 3 points of contact usually include the 2 feet positioned solidly on the platform, and a handgrip mounted to the rear frame of the vehicle body.

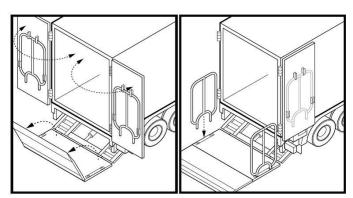




To reduce the risk of serious bodily injury or death from falling, DHOLLANDIA recommends the use of safety rails along the exposed edges of the tail lift platform. Safety rails may be purchased along with your tail lift at the initial order, or may be purchased and retrofitted to your tail lift later. Please see www.dhollandia.com for further information or contact your national DHOLLANDIA distributor. See page 3 for contact info.







Example: demounted safety rails

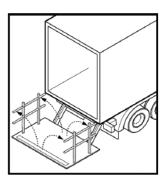
7.5 ADDITIONAL RISK OF LIFTING HEIGHTS > VEHICLE FLOOR LEVEL

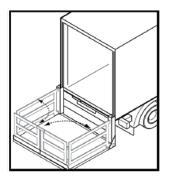
 The nature of loading / unloading at heights above vehicle floor level, leads to additional hazards. Whenever working with the lift, pay special attention to the following issues.

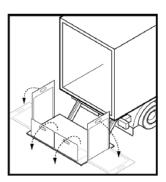


 To prevent injury when falling from heights, it is compulsory to use safety rails along the exposed edges of the platform if the lifting height ≥ 2000mm.

For lower heights, the use of safety rails is strongly recommended. They should be fitted and used in all applications where a significant risk exists that the operator could be injured when falling off the platform.





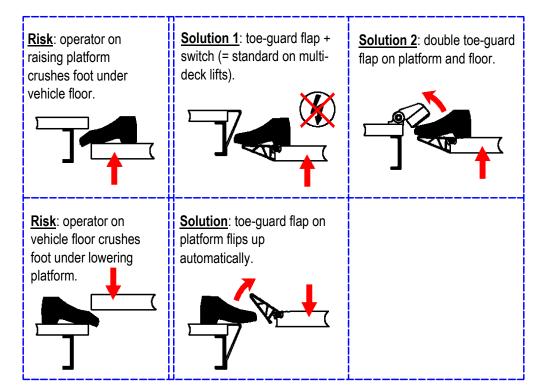




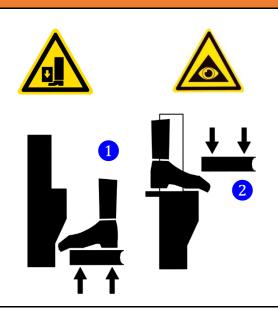
- → Protect your toes, feet and limbs:
 - → when standing on the lifting platform: stay away from the hazardous crushing zone at the front edge of the platform



when standing inside the vehicle body: stay away from the hazardous crushing zone between rear edge of the loading floor and the lowering platform.



MARNING



Raising platform can crush feet of operator on platform 1.

Lowering platform can crush feet of operator on cargo floor 2.

Keep feet clear from platform edge. Minimum safety distance 25 cm.

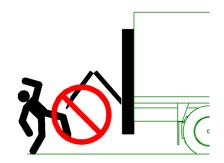


→ Make adequate and consistent use of the available load restraints (roll-stop systems, hinged ramps, trolley brakes, straps & latches) to prevent goods from falling or rolling unintentionally off the platform.



→ Oversee and keep visual control over the whole working area of the lift and its platform at all times, INCLUDING the area UNDER the platform.



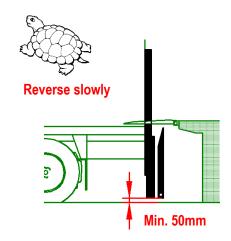


WARNING

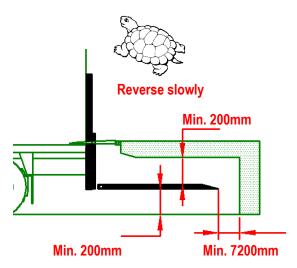
- Improper use of the tail lift may result in damage, premature wear or failure of the tail lift, and will increase the risk of serious injury or death to the operator and other persons nearby.
- In order to maximize the durability, ensure long-term reliability of the tail lift, and protect operators and bystanders from serious bodily injury or death, the operator must comply with the loading instructions and safe working procedures below.

When using the tail lift platform as a bridge plate between the loading floor of the vehicle and the loading dock, follow the instructions below:

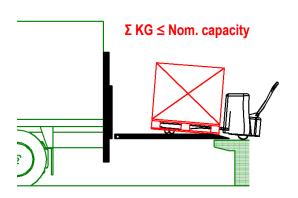
- When working at loading docks, it is recommended to store the platform safely away, and to drive the goods directly from the dock onto the vehicle floor (and vice versa):
 - → Platform stored vertically under the vehicle floor: when reversing into a dock, make sure there is enough clearance between the underside of the platform and the ground. Reverse at low speed, and make sure not to hit the platform against the dock to prevent mechanical damage.



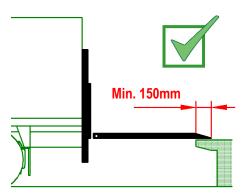
→ Platform stored horizontally in a storage pocket under the loading dock: make sure there is sufficient clearance under and above the platform, taking into account all expected positions of the vehicle suspension. The platform shouldn't touch either the ceiling, or the bottom of the storage pocket in the loading dock.



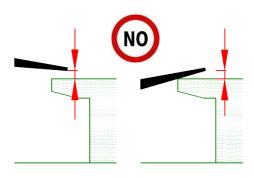
- When using the tail lift platform as bridge plate between the loading floor of the vehicle and the loading dock, follow the instructions below.
 - → The total weight of the load and the lifting device (forklift, electric or manual pallet jack, etc.) shouldn't exceed the nominal capacity of the lift.

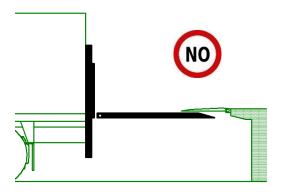


→ A minimum section of 150mm of the platform point should cover the loading dock.



- → When loading / unloading, the loading floor of the vehicle might lower / rise relative to the loading dock.
 - If lift is equipped with adjustable tilt (2 tilt cylinders), use electrical controls to adjust the platform when the point of the platform rises above or below the dock. Negligence to adjust the platform angle could cause severe damage to the tail lift.
 - 2. If lift is NOT equipped with adjustable tilt, stop loading / unloading this way if platform point is not adequately aligned with loading dock surface.
 - → It is forbidden to let the platform float, and use a second articulated link bridge between its point and the loading dock. When loading / unloading, the platform point should always overlap a rigid underground over a minimum of 150mm.
 - → In order to prevent damage, the platform should always be closed in its travel position, prior to driving away from the loading dock.





WARNING

- Using a tail lift that is damaged or improperly serviced can put the operator and bystanders at great risk of serious bodily injury and death.
- To avoid this risk, inspect the tail lift prior to the first use of each day. Ensure that all safety systems and all functions operate correctly and that no maintenance or repair is required.
- If any unsafe condition exists or unusual noises or movements are noticed, and contact an authorized DHOLLANDIA agent.
 [see Notice].
- DO NOT cover up any accidents or damage; it can be dangerous to you, your co-workers, and other persons.

NOTICE

Authorized DHOLLANDIA service agents may be found at www.dhollandia.com or by calling your regional DHOLLANDIA distributor. See page 3 for contact info.

Before operating the tail lift, the operator must conduct the following daily pre-trip inspection. Use caution: stay clear of the area directly behind the platform while conducting the daily pre-trip inspection.

	Replace missing, worn or illegible warning decals immediately. See page 3 for contact info. Make sure the cabin switch and / or main battery disconnect switch in the control box switch on and off accordingly.
	Make sure the battery is fully charged, the main fuse is in good condition, and battery terminal connections are corrosion-free and tight.
	Check the overall condition of the main external control box and its switches. Confirm that all switches (except the ON / OFF cabin switch) swiftly return to the neutral position after releasing them.
	Check the overall condition of the cables entering the various control units and of the cables to the pump unit. Make sure cables are not chafed, loose or damaged.
	Ensure the cover of the pump unit is properly installed and secured. Check the pump unit for visible oil leaks.
	Chock the pump time of violate on loaks.
Follow	the instructions in section 9 to open and lower the platform to the ground, and continue the checks:
	Visually inspect the general condition of the lift frame, lift arms, and mounting plates to the vehicle chassis. Look for cracks or deformation in the material and welds. Make sure the bolts of the mounting plates to the chassis are tightened.
	Make sure all pivot pins are properly locked and secured.
	Visually inspect the general condition of the platform. Look for cracks or deformation in the material and welds. If so equipped, make sure the platform-mounted options function correctly (cart-stops, foot controls, and flashing warning lights).
	Check the overall condition of the auxiliary controls and their switches. Confirm that all switches swiftly return to the neutral position after releasing them. In case of a handheld control with spiral cable, inspect the spiral cable for wear or damage.
	Make sure safe operator position and centre point of maximum load are clearly marked on the platform.
	Make sure the platform surface is clean and can be accessed safely. Remove any snow, mud, dirt, debris, or slippery liquids.
	Make sure you wear safety-toe shoes with a good non-slip sole.
	Check the lift and tilt cylinders, their lock valves and fittings for visible oil leaks. Follow the hydraulic pipes and fittings to the
	pump unit. Make sure all wires and hydraulic pipes are undamaged, not pinched or chafed anywhere, and adequately secured
	with cable ties. Check for visible oil leaks.

Perform all movements with an unloaded platform several times with all available control units. Use the operation manual for quidance.

☐ Make sure all movements occur smoothly and quietly, without jerking motion or unusual noises. During LIFT and CLOSE functions, only the sound of the electric motor in the pump unit should be audible.



Remember: if any part of the pre-trip inspection reveals a need for service or repair

- → DO NOT use the tail lift until it has been serviced or repaired by a qualified service technician.
- → Switch OFF power at the main battery disconnect switch or cabin switch.

7.8 IMPORTANCE OF PREVENTATIVE MAINTENANCE

NOTICE

- Competent and regular preventative maintenance is essential to the operational reliability of the tail lift as well as the safety of the operator and all bystanders.
- All maintenance and repair work must be performed by authorized DHOLLANDIA service agents and using original DHOLLANDIA replacement parts only.
- Please consult the separate MAINTENANCE AND REPAIR MANUAL for specific instructions regarding periodic maintenance.
- If a tail lift cannot be repaired immediately in case of breakdown, it must be put out of operation and secured against unauthorized use.
- A tail lift put into its travel position with the help of external devices (forklift, gantry crane), is not supported by its hydraulic cylinders. After releasing the mechanical platform lock, the platform and lifting mechanism will drop in free fall, without any possibility to stop the fall by means of the regular controls.

Impact by a falling pla

Impact by a falling platform will result in serious bodily injury or death. To reduce the risk of injury:

- → Close the platform lock (if available) and apply additional means to immobilize the platform [*see Note below].
- → Attach a clear and highly visible warning tag to the platform and the exterior control box.
- → Warn your supervisor and have this vehicle put out of service.
- → Contact an authorized DHOLLANDIA service agent to repair the tail lift prior to any further use.

*Note: examples of additional means are additional securing of the platform lock (if available), or securing the platform by means of ratchet straps, hoists, etc.

WARNING

- If a tail lift cannot be repaired immediately in case of breakdown, it must be put out of operation and secured against unauthorized use.
- A lift put into its travel position with the help of external devices (forklift, crane), is not supported by its hydraulic cylinders.
 After releasing the mechanical platform lock, the platform and lifting mechanism will drop in free fall to the start point of the breakdown, without any possibility to stop the fall by means of the regular controls. This can result in the unaware operator and third parties being at great risk.
- To avoid any risk, close the mechanical platform lock and apply additional means to immobilise the platform (e.g. by additionally securing the original platform lock, by means of ratchet straps). Signal the hazard in a clearly visible way.
- To re-open the lift, use again an external device (forklift, gantry crane) for additional support. Or repair the breakdown first, bring the hydraulic system under pressure, and release the platform locks after satisfactory testing of the lift functions.

7.9 SAFETY DEVICES

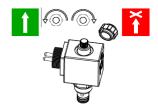
DHOLLANDIA tail lifts are equipped with a wide range of safety devices in order to ensure that goods can be loaded / unloaded with a maximum degree of safety for both the operator and the load.

The following safety devices are incorporated or recommended on most tail lifts:

Electrical safety valves mounted to the top of the lift cylinders. A safety
valve locks the hydraulic oil inside the cylinder as long as its solenoid is
not activated by a control switch.

Its purpose is to hold the platform in its travel position during driving, or in a fixed position in case of the failure of a hydraulic pipe (as soon as the control button is released).

DHOLLANDIA valves are equipped with a manual emergency control, allowing the operator to open the valve in case of electrical power failure (See chapter B).



Mechanical platform lock or stowage hook, mounted on the lift columns.
 While travelling, the platform is stowed in suspended condition in the stowage hooks, to prevent it from lowering in case of accidental hydraulic pressure loss.





 Deck hook, mounted on the bed extension. When reversing into a loading dock, the platform is stowed in suspended condition on the deck hooks. When used by the operator, these hooks ensure the platform sits just under bed level with maximum ground clearance under the lift to avoid damage as much as possible.



 Pressure compensating braking valves (= flow control valves) mounted to the pump unit, used to align the speed of the functions LOWER and OPEN with the legal requirements.

"Compensating" means that the valve brakes less / more if the load is lighter / heavier, to obtain similar speeds regardless of the load on the platform.





• **Pressure relief valve**: permits the manufacturer and the installer to limit the final performance of the tail lift to its nominal capacity and protects it against overload during the LIFT cycle.





- **2-hand exterior control box** equipped with functional control switches and a safety or selection switch. Purpose of the compulsory use of the 2 hands to actuate the tail lift functions:
 - 1. while OPENING: to prevent operator from standing behind platform, and being hit by opening platform.
 - 2. while CLOSING: to prevent operator from crushing his head or limbs between the closing platform and the rear frame of the body.

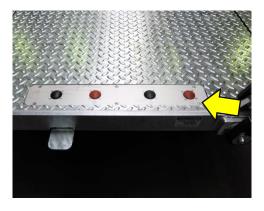


• **Emergency stop**: this stop is formed by a battery switch or selection switch with a removable key integrated in the control. The emergency stop allows the user to cut the electrical power in case of danger.

• **Cabin switch** (optional) mounted on the dashboard in the driver cabin. This switch enables the operator to switch the electrical power to the tail lift on / off and contains a signal indicating whether the platform is correctly stowed in its travel position or not.



4-button foot controls (optional) mounted to the platform [option OAE060]. The compulsory use of the 2 feet to actuate the
functions LIFT and LOWER immobilises the feet of the operator on a safe location (= the buttons of the foot controls), and protects
them from crushing or squeezing their toes, feet or limbs between the edge of the lifting platform and the rear cross member of
the vehicle floor. [See also chapter 5].



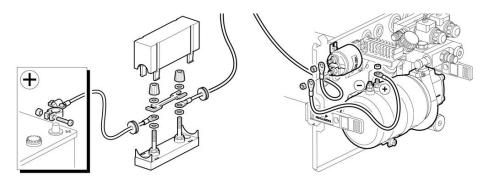
Protection of toes, feet & limbs. The choice and position of any type of auxiliary controls influences strongly on the risk that
the operator might squeeze, crush or injure his toes or limbs between the edge of the lifting platform, and the rear cross member
of the vehicle floor, or between the lowering platform and the ground.

For situations where no 4-button foot controls are used, the Standard for tail lifts EN1756-1 describes a number of body design configurations and applications (non-exhaustive) creating an acceptable level of safety. [See EN1756-1:2001+A1:2008, or our fitting instructions FIT-ELEC_OPTION in its latest revision].

Marking of the centre of gravity: Hydraulic tail lifts are not designed to LIFT / LOWER weights corresponding to their nominal capacity over the full surface of the platform. The nominal capacity is valid at a certain distance or centre of gravity behind the vehicle body. Behind that point that is marked on the platform, the maximum safe working load diminishes according to the load diagrams [see also Point 6].



• Main battery fuse on the (+) battery cable, 15A fuse on the wires inside the control box: both fuses are used to protect the electrical system of the tail lift and the vehicle against short-circuits and amperage peaks.



- **Signalling of the deployed platform**: any platform protruding beyond the extremities of the vehicle, must be clearly visible from all approachable sides in daylight and at night.
- Check the national regulations of the country where the vehicle will be registered, as these might be very strict on the application of platform lights, and the size and type of the platform flags.
- The impact of platform lights, reflective flags and lateral reflecting tape on the visibility of the platform strongly depends on the direction of approach, and the light conditions (bright sunlight versus night darkness). A combination of the 3 is ideal to cover all circumstances.





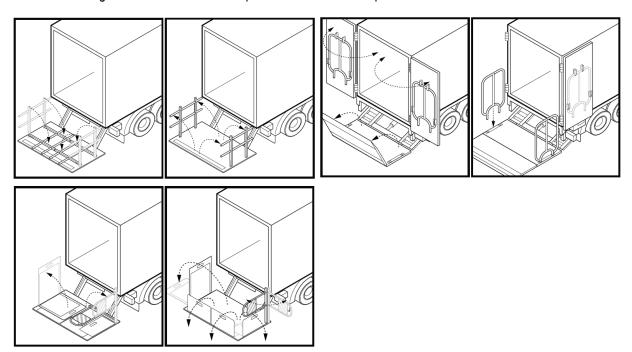


• Outside the delivery scope of a tail lift, it is good practice to encourage operators to mark the working area of the platform in the streets by means of traffic cones.



Roll-stops or flip ramp on the platform: any platform aimed to LIFT and LOWER rolling loads, must be equipped with a device
that prevents this load from rolling unintentionally off the edge. DHOLLANDIA roll-stops can be fitted into the platform point, or at
intermediate distances further towards the front edge of the platform.

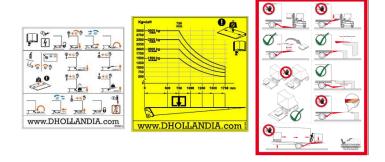
• Safety rails: safety rails should be fitted and used for all applications where a significant risk exists that the operator could be injured when falling off the platform (UK Work at Heights Regulation 2005) and are compulsory above 2m lifting height. Safety rails are available in a wide range of executions to suit the particular needs of the operator.



DHOLLANDIA safety rails are available with integrated LIFT / LOWER controls.



• **Warning decals**: apart from the identification stickers [See Point 2], every tail lift is supplied with one or more warning decals. They cover the applicable load chart, a simplified set of instructions for use, and other decals warning the operator for specific hazards.



NOTICE

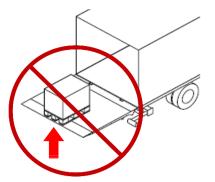
- Tail lifts are NOT designed to LIFT / LOWER weights corresponding to their maximum rated capacity over the entire surface
 of the platform. The maximum rated capacity is valid at a certain distance or centre point of maximum load behind the vehicle
 body. Behind that point marked on the platform, the maximum safe working load diminishes according to the load charts below.
- When LIFTING, the tail lift is normally protected against overload by the pressure relief valve in the hydraulic circuit. Most of overload events and resulting damage happen when LOWERING loads.

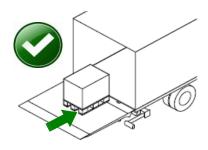
WARNING

- Overloading and improper loading and unloading of the tail lift will put the operator and bystanders at great risk of serious bodily injury or death. Such conditions will also cause premature wear and damage to the tail lift, or failure of the tail lift.
- Therefore, it is essential that the operator respects the maximum rated capacity and follows the loading instructions and the load chart with great care.
- DHOLLANDIA disclaims liability for all personal bodily injury and / or property damage that results from overloading practices.
- The **maximum rated capacity** is the maximum weight that the tail lift can carry under the following best possible circumstances:
 - → the centre of gravity of the **load** stands no further than the designated centre point of maximum load of the **tail lift**, marked on the platform surface.
 - → the load stands mid-point between the lift arms and is at equal distance from both platform sides.

NOT OK

NEVER position the load at the outboard platform edge.





ALWAYS
position the load
as close as
possible to the
rear of the
vehicle, near the
inboard platform
edge.

OK

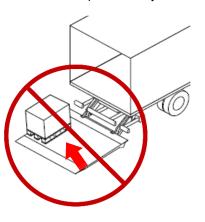


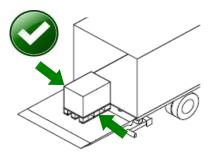
Uneven loading on one side of the platform should be avoided. Limit the load to 50% of the max. rated capacity when loading on one side of the platform only.

NOT OK

NEVER load on one side of the platform only.

Or limit load to 50% of maximum rated capacity.

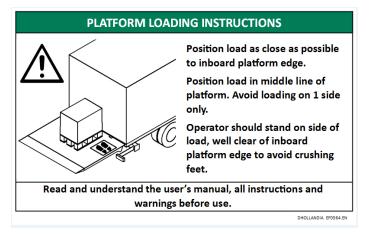


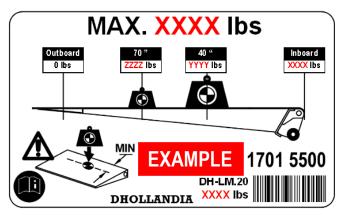


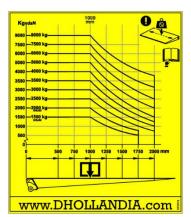
OK VS no

ALWAYS position the load midpoint between the lift arms. • The maximum **safe working load** GOES DOWN according to the load charts. The following type of load chart decals are supplied with the tail lift and must be duly observed.



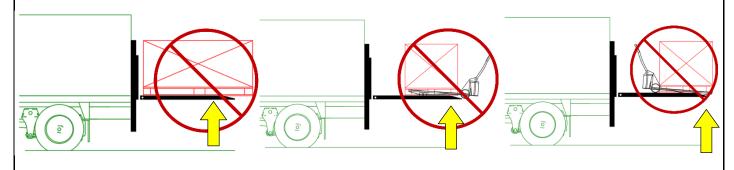






WARNING

- Overloading and improper loading and unloading of the tail lift will put the operator and bystanders at great risk of serious bodily injury or death. Such conditions will also cause premature wear and damage to the tail lift, or failure of the tail lift.
- Pay attention to avoid certain overload situations as shown in examples below. Serious bodily injury or death may result from failure to abide by these warnings.





OVERLOAD

 NEVER let the load extend beyond the outboard edge or side edges of the platform.



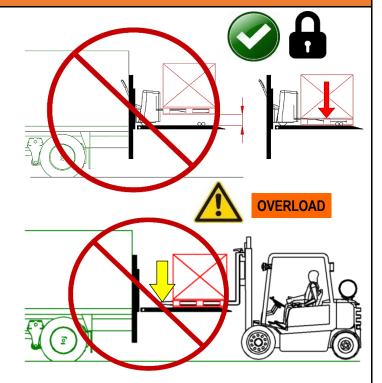
OVERLOAD

NEVER let the wheels of a pallet jack extend or drop down beyond the outboard or side edges of the platform. Keep the pallet jack and its load on the platform surface, as close as possible to the inboard platform edge. Lower and rest the pallet or load on the platform surface to prevent it from shifting position while lifting and lowering.

WARNING

 Lower and rest the pallet or load on the platform surface to prevent it from shifting position while lifting and lowering.

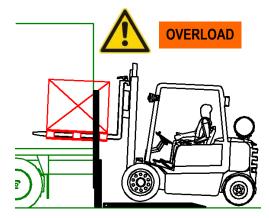
 NEVER drop any load on the platform (ex. by means of a forklift, gantry crane, etc...). The impact of dropping a load is far greater than the nominal weight of the load and can cause severe damage to the tail lift.



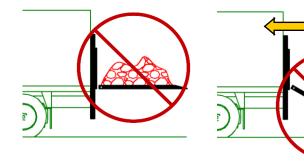
 Forklift access is allowed only when the platform is in full contact with the ground. The combined weight of the forklift plus load must not exceed 1.5 x the maximum rated capacity.

WARNING

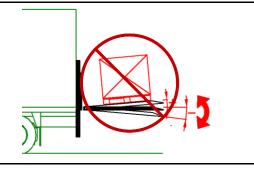
Driving loads that are too heavy onto the platform can cause severe structural damage, potentially invisible to the operator at first glance. Further use of an overloaded or damaged platform can put the operator and bystanders at great risk of serious bodily injury and death.



 NEVER try to scoop loose material (ex. sand, gravel, rocks, etc...) from the ground, to attempt to move it by means of the platform, or to lift / lower it on the platform.



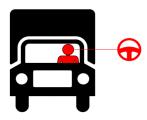
- NEVER use the platform to level the ground surface, or to push or pull loads or material by means of the platform. NEVER use the platform to move snow or other debris.
- Never adjust the angle of the platform when it is loaded. Do so only when the platform is empty.



9 OPERATING INSTRUCTIONS - PRINCIPLES AND PROCEDURES

9.1 MAIN EXTERNAL BOXES

- All images, pictograms and decals in this manual represent the version for left hand drive vehicles, with the main external control box mounted on the right side of the vehicle.
- DHOLLANDIA offers various control boxes, delivered per customer specification. Contact your national DHOLLANDIA distributor for more information, prior to ordering your tail lift. See contact info on page 3.
- All standard external control systems are equipped with mandatory 2-hand operation, and are mounted at the side of the vehicle body in order to:
 - 1. prevent the operator from standing behind the platform when opening the platform which could result in serious injury or death by crushing.
 - 2. prevent the operator from crushing his / her limbs, upper body or head between the platform and the rear frame of the vehicle when closing the platform.
- The most popular models are outlined below. Contact your national DHOLLANDIA distributor for operation instructions on other models, or models with different options, prior to operating the tail lift. See contact info on page 3.





Joystick control box (ref. OAE030.BT)



Turn clockwise and hold to activate joystick



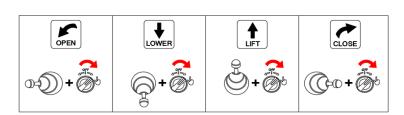
Turn counter-clockwise to enable auxiliary control

Turn clockwise to switch battery power ON

Turn counter-clockwise to switch battery power OFF

1	Joystick operating the functions OPEN - LOWER - LIFT – CLOSE.	
2	Rotary safety switch to activate the joystick, or to switch over to the auxiliary control.	
3	Main battery disconnect switch (optional) to switch the main power from the battery to the pump unit of the tail lift on / or	
	 Will stop the tail lift in case of emergency involving hazard to operator or bystander. Will stop the tail lift and reduce the risk of a pump unit burn-out if the motor solenoid is stuck and the motor runs continuously (control button or contact damaged, motor solenoid short circuited by low voltage.) 	

Operation:



Arctic control box (ref. OAE041.BP)

- The option OAE041.BP is an arctic control box, where the 4 functions LIFT, LOWER, CLOSE & OPEN, performed by a joystick in the standard control box are taken over by push buttons with IP67 rated electric contacts.
- This arctic control box is designed to operate in the harshest winter conditions and hostile environment applications.
- The compulsory 2-handed control is controlled with a push-button as safety switch.



Push and hold to activate push buttons of main external control box Release to enable auxiliary control

Turn clockwise to switch battery power ON

Turn counter-clockwise to switch battery power OFF

Push buttons commanding the functions OPEN - LOWER - LIFT – CLOSE.

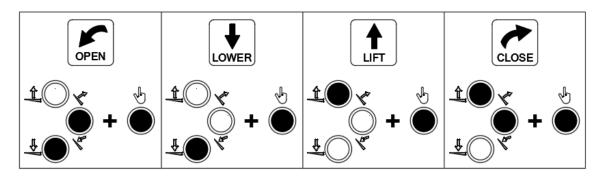
Safety switch to enable the push buttons, or to switch over to the auxiliary control.

Main battery disconnect switch (optional) to switch the main power from the battery to the pump unit of the tail lift on / off.

Will stop the tail lift in case of emergency involving hazard to operator or bystander.

Will stop the tail lift and reduce the risk of a pump unit burn-out if the motor solenoid is stuck and the motor runs continuously (control button or contact damaged, motor solenoid short circuited by low voltage.)

Operation:



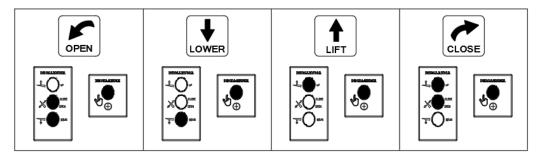
Flush mount control unit (ref. OAE031.ZP)



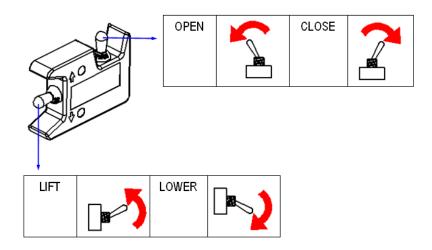
Push and hold to activate push buttons of flush mount control Release to activate auxiliary control

Push buttons commanding the functions OPEN - LOWER - LIFT – CLOSE.
 Safety switch to enable the push buttons, or to switch over to the auxiliary control.

Operation:



Toggle switch control (ref. OAE017.PR)



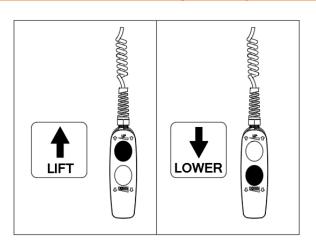
9.2 THE MOST POPULAR AUXILIARY CONTROLS

- DHOLLANDIA offers various types of auxiliary controls, delivered to customer specification. Contact your national DHOLLANDIA distributor for more information, prior to ordering your tail lift. See contact info on page 3.
- The most popular options are outlined below. Contact your national DHOLLANDIA distributor for operation instructions on other models, or models with different configurations, prior to operating the tail lift. See contact info on page 3.

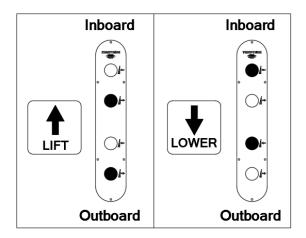
WARNING

- To reduce the risk of injury to the operator or any bystanders, the auxiliary controls must only be used from a safe operator position on or beside the platform, conforming with the safety precautions described in section 7.
- Any operator on the platform must stand clear of the crushing zone between the lifting platform and the rear of the vehicle floor.
- Any operator on the ground must stand clear of the crushing zone between the lowering platform and the ground.
- Keep head, hands and feet clear of pinch points and moving parts. Beware of hand, foot and head traps at all times.
- NEVER wear loose fitting clothing when operating or standing near the tail lift as it increases the risk of serious bodily injury and death.
- ALWAYS be aware of vehicular traffic when using controls to operate the tail lift.
- Failure to abide by these warnings may result in serious bodily injury or death to the operator or any bystanders.

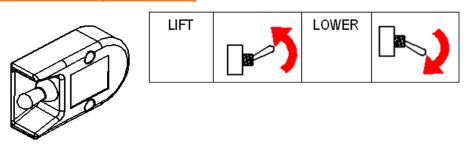
2-button handheld control with spiral cable (ref. OAE001)



4-button foot controls on platform (ref. OAE060 / OAE064)



Toggle switch control (ref. OAE015.PR)



WARNING



- Handheld 3-button or 4-button controls, enabling the operator to OPEN and CLOSE the platform, can be operated from an unsafe operator position.
- If used from an unsafe operator position, the use of such handheld controls will put the operator at great risk of serious bodily injury and death. To prevent these risks:
 - → NEVER OPEN the platform while standing behind or in the range of motion of the platform.
 - → NEVER CLOSE the platform, while standing close to the crushing zone between the closing platform and the rear frame of the vehicle body.
 - → Only use the handheld 3-button or 4-button controls with extreme caution.
- DHOLLANDIA strongly discourages the use of handheld 3-button or 4-button controls. They should
 only be used after adequate risk analysis by the vehicle owner or their authorized occupational
 health and safety manager, and under guidance of safe work practices issued by them.

9.3 SWITCHING THE MAIN POWER ON/OFF

 Depending on configuration, the power to the tail lift can be switched ON / OFF by means of a cabin switch, a main battery disconnect switch, or a combination of both.



Main battery disconnect switch



Turn clockwise to switch battery power ON
Turn counter-clockwise to switch battery power OFF

Push button to switch tail lift power ON (indicator light on)
Push button to switch tail lift power OFF (indicator light off)

If platform is equipped with a tilt sensor, indicator light can be configured to switch on if platform is not closed in its travel position.

NOTICE

In case of combined system, (main battery disconnect and cabin switch) both must be switched on to activate the tail lift. Switching off only one of two will deactivate the tail lift, but it is strongly recommended to switch-off both. NEVER leave the main battery disconnect switch on while tail lift is not is use.

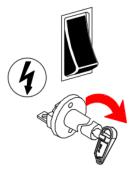
9.4 OPERATION

- Section 9.1 and 9.2 above explain how each of the functions OPEN LOWER LIFT CLOSE are activated via the various types
 of controls. This section explains in which sequence the DH-VHT must be operated, and which steps must be followed.
- The images shown refer to instruction decal ref. EF0582, usually affixed to the side of the vehicle body. See also section 10.

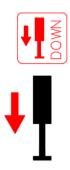
Opening the platform



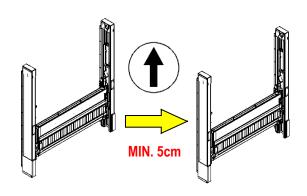
Consult the operation manual before getting started. Follow **ALL** safety and operation instructions.



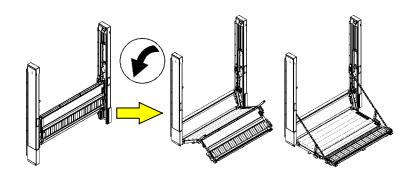
Switch on the electrical power to the tail lift (cabin switch or main battery disconnect switch in the external control box, or both if both are available).



If so equipped, LOWER the mechanical or hydraulic stabilizing legs into work position.



LIFT the platform approx. 5 to 10 cm to raise it out of the stowage hooks.



Whilst standing beside the platform (not under!), OPEN the platform 90° into the horizontal work position. Ensure the platform is fully opened to horizontal position prior to putting weight on the platform.

If applicable, raise flip ramp in vertical position (as load restraint); or open fully (as access ramp).

Loading and unloading



Pivot both lift height stops OUTBOARD to stop lifting movement at vehicle floor level.



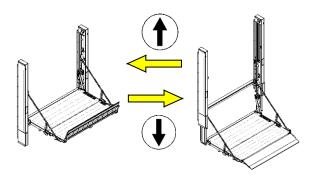
Pivot both lift height stops INBOARD to lift above and beyond vehicle floor level.



When riding on the platform, make sure you stand min. 250mm away from the inboard platform edge, make sure your footing is solid, and ALWAYS maintain 3 points of contact. [see §7.4 on page 21].



NEVER pull the load from the vehicle onto the platform. ALWAYS push it out. Pulling the load from the vehicle can result in a fall from the platform and cause serious injury or death.

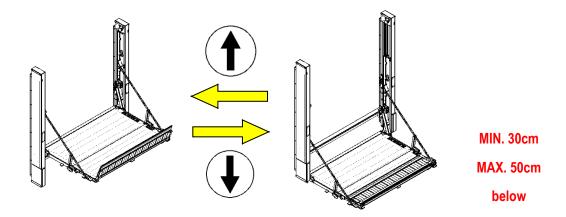


Use one of the LOWER controls to LOWER the platform to the ground.

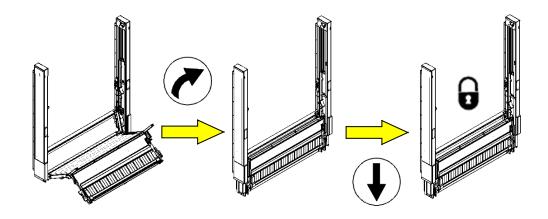
Use one of the LIFT functions to LIFT the platform to the floor, or above the floor to loading dock level.



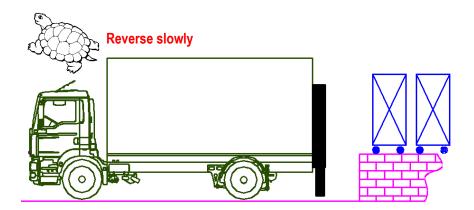
Make sure you comply with load charts and instructions at all times.



• Close the flip ramp and / or any roll-stop flaps. LIFT or LOWER platform to approx. 12-20" (30–50cm) BELOW floor level.



- CLOSE the platform until it reaches the closed vertical position and you hear the hydraulic system turn in overpressure.
- LOWER the platform until platform hooks hook lock into the deck hooks.

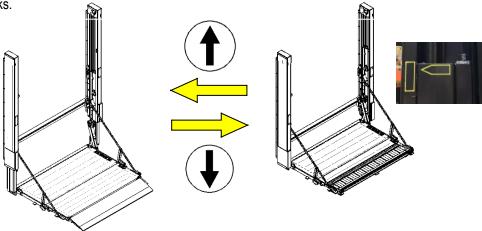


Lift is now in best possible position to reverse vehicle into loading docks. Operator must reverse slowly and avoid impact
of columns against loading dock as much as possible.

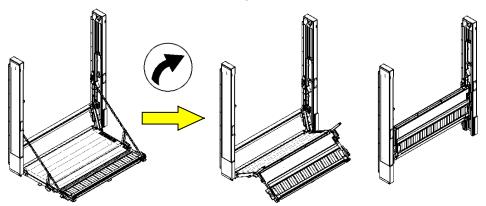




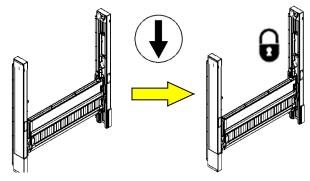
Platform can only be closed in its travel position in a limited range indicated by arrows on the lift columns. Within this range, the platform hook will lift up the pivot latch of the column mounted stowage hooks, and the platform can then lowered into the hooks.



• LIFT or LOWER platform until arrow on lift column falls within range indicated on lift column.



• CLOSE the platform until it reaches the closed vertical position and you hear the hydraulic system turn in overpressure.



• LOWER the platform until platform hooks lock into the column mounted stowage hooks.

Closing up in travel position



If so equipped, raise the mechanical or hydraulic stabilizing legs into travel position.



Switch off the electrical power to the tail lift (cabin switch or main battery disconnect switch in the external control box, or both if both are available). Close the cover of the control box.



At any time during the operation, release the activated button(s) to stop the platform from moving. Additionally, turning the main battery disconnect switch (if so equipped) counter-clockwise will switch off electrical power to the tail lift.



 Consult the DHOLLANDIA website to view the operation video on the DHVHT column tail lift, or scan the QR code on the decal affixed above the control box.



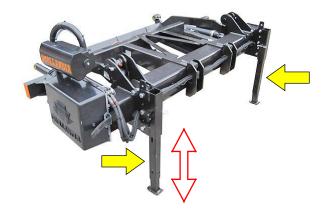
NOTICE

OPEN and CLOSE the platform at vehicle floor level only. Opening and closing the platform at a lower level can cause serious damage to the hydraulic cylinders of the tail lift.

9.5 THE USE OF STABILIZING LEGS

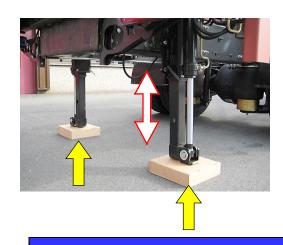
- DHOLLANDIA tail lifts are available with 2 types of stabilizing legs:
 - → Mechanical stabilizing legs which are deployed and stowed manually by the operator. They are only suitable for light commercial vehicles up to 3.5 tons gross vehicle weight, and support maximum 3 tons total weight.
 - → Hydraulic stabilizing legs which are operated via the main external control box. They are available in capacities of 2.5 tons, 4 tons and 10 tons, and are therefore suitable for a wide range of commercial vans and trucks.

Mechanical stabilizing legs



 The purpose of the stabilizing legs is to prevent the vehicle from tipping over, and to support the chassis of the vehicle during loading and unloading (e.g. vehicles with very long overhang, soft suspension, with relatively weak chassis, or in case of extreme lift capacities).

Hydraulic stabilizing legs



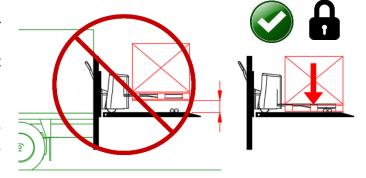
NOTICE

The use of stabilizing legs is mandatory on certain vehicles. Consult the operation manual and / or the Fitting and Body Building Instructions from the vehicle manufacturer.

- When using the stabilizing legs, the operator should observe following points:
 - → Ensure that the stabilizing legs are positioned on solid even ground. In case of soft terrain (sand, gravel), solid support blocks must be used under the stabilizing legs.
 - → Use the stabilizing legs upon every loading / unloading activity.
 - → Ensure the stabilizing legs are completely raised and stowed in travel position before moving the vehicle.
 - → The stabilizing legs should be used to stabilize the vehicle only. They are not suitable to lift the vehicle.
 - → The height of the stabilizing legs should be adjusted during loading and unloading, to adapt them to the variation in the vehicle suspension. Failure to properly adjust height of stabilizing legs increases the risk of serious injury or death to the operator and any bystanders.
 - → When using mechanical legs, be very careful when releasing the mechanical lock to store the legs in travel position. If the vehicle is loaded, the extra weight in the vehicle body could apply load to the sliding foot of the leg, and its locking mechanism. To reduce the risk of finger pinching and serious bodily injury, keep fingers away from the sliding parts of the legs.

A WARNING

- If the load is not properly secured on the platform while lifting or lowering, it could shift position, destabilize the operator riding on the platform, and cause him / her to fall. The load could also fall off the edge and hit the operator or bystanders.
- Improperly secured cargo can put the operator and any bystanders at great risk of serious bodily injury and death.
- Therefore, all cargo must be properly secured on the platform, before lifting or lowering.
- Before lifting or lowering loads, ALWAYS apply all brakes or stops available to secure the load. Engage the wheel brakes of carts, trolleys or machinery (if available). When using pallet jacks, lower and rest the pallet or load onto the platform surface.
- DHOLLANDIA offers various cart-stop options, delivered to customer specification. Contact your regional DHOLLANDIA distributor for more information, prior to ordering your tail lift. See page 3 for contact info.



The most popular cart-stop models are discussed below. Contact your regional DHOLLANDIA distributor for operational instructions on other models or models with different options, prior to operating the tail lift. See page 3 for contact info.

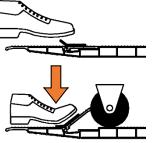


 Consult the DHOLLANDIA website to view operation videos on the various types of cart-stop systems http://www.dhollandia.com/US/en-us/101/#/cat/0

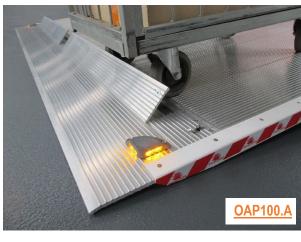
www.dhollandia.com \rightarrow Videos \rightarrow General \rightarrow Roll-stop systems

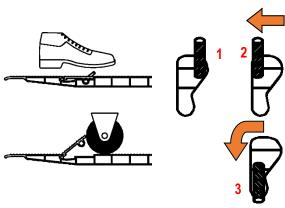
OAP100.M = Manual cart-stops, operated by springs		
OPEN	Press the lever on the side of the cart-stop flap.	
CLOSE	Step on the cart-stop flap.	
	When driving a load from the ground onto the platform, the cart-stop will automatically close.	





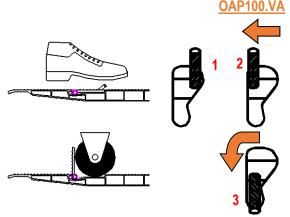
OAP100.A = Automatic cart-stops, operated by springs.					
Cart-stop flap opens	art-stop flap opens to 40°.				
OPEN MANUAL MODE	Kick the lever on the side of the cart-stop flap sideways from position 1 to position 2. The cart-stop will now function as a manual cart-stop OAP100.M. When stepping on the cart-stop flap, or when driving a load from the ground onto the platform, the cart-stop will automatically close.				
OPEN AUTOMATICMODE	Kick the lever on the side of the cart-stop flap sideways + rearward, from position 1 to position 3. System will now function as automatic cart-stop. When stepping on the cart-stop flap, or when driving a load from the ground onto the platform, the flap automatically jumps back to the open position after releasing it, or when the load is passed over it.				
CLOSE	Kick the lever into position 1. Step on the cart-stop flap.				





OAP100.VA = Vertical cart-stops, operated by springs.		
Cart-stop flap opens		
OPEN MANUAL MODE	Kick the lever on the side of the cart-stop flap sideways from position 1 to position 2. The cart-stop will now function as a manual cart-stop OAP100.M.	
	When stepping on the cart-stop flap, or when driving load from the ground onto the platform, the cart-stop will automatically close.	
OPEN	Kick the lever on the side of the cart-stop flap sideways + rearward, from position 1 to position 3.	
AUTOMATICMODE	System will now function as automatic cart-stop.	
	When stepping on the cart-stop flap, or when driving a load from the ground onto the platform, the flap automatically jumps back to the open position after releasing it, or when the load is passed over it.	
CLOSE	Kick the lever into position 1.	
	Step on the cart-stop flap.	





OVP120.A.R, OVP120.S.R

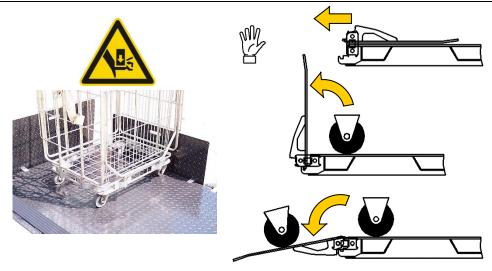
= Hinged ramps at the rear edge of the platform

OVP120.A.S, OVP120.S.S

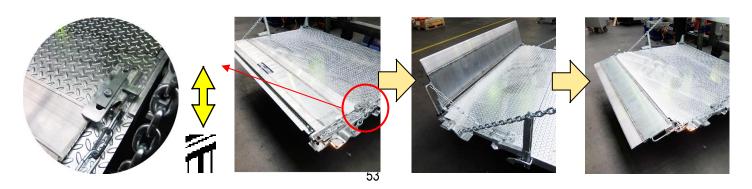
= Hinged ramps at the sides of the platform

The hinged ramps can be manually raised into 90° vertical position to serve as roll-stop device, or swung over 180° to serve as access ramp.

OPEN 90°	Pull the rear side of the ramp towards you, raise and lock it into 90° vertical position.
OPEN 180°	Lift up the ramp, and swing it further to the 180° open position, where it can service as loading / unloading ramp.
CLOSE	Lift up the ramp, fold it back onto platform surface and push away from you to lock it in its travel position

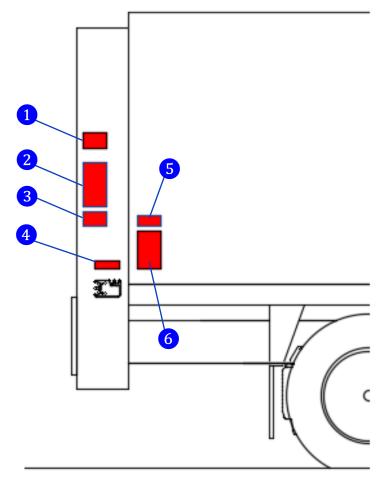


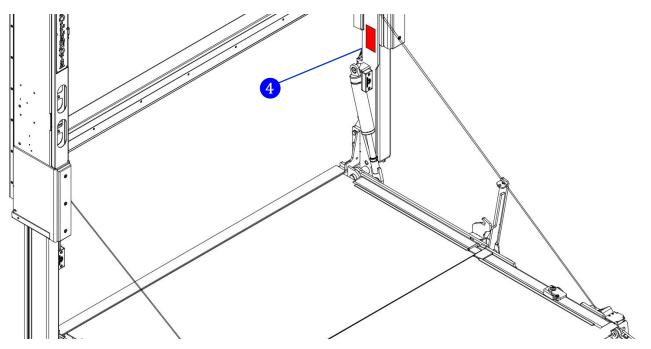
OAP215 = Flip ramp, full width				
OPEN TO	Open lock for flip ramp. Raise flip ramp to roll-stop position. Lift up chain and slide it towards ramp, to lock ramp in roll-stop position.			
ROLL-STOP				
OPEN TO ACCESS RAMP	From flip ramp in raised position, pull chain sideways and down. Drop down ramp in full open position.			
CLOSE	Lift up the ramp, fold it back onto platform surface. Close lock for flip ramp.			

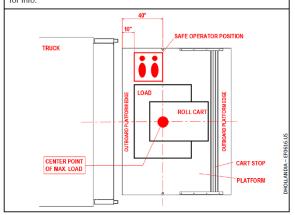


10 DECALS

- The following decals are supplied with each new tail lift and should be affixed to the vehicle body during installation in the manner set forth in the adjacent drawings.
- NEVER remove or paint over any decal. Missing, worn
 or illegible warning decals must be immediately
 replaced. Get free replacement decals from
 DHOLLANDIA. Contact your regional DHOLLANDIA
 distributor. See page 3 for contact info.
- The operator should comply with all affixed safety and instructions decals. Be aware that the decals merely summarize the main points, and that the operator must know, understand, and comply with the full contents of the operation manual.
- Note: the decals marked as "EXAMPLE" can vary in function of the maximum rated capacity of the tail lift, or the chosen type of external control box.







EF0565.EN

AWARNING - SAFETY INSTRUCTIONS



Read and understand the user's manual, all instructions and warnings before use.

$\textbf{Careless ness or ignorance will put the operator and third parties at greater the property of the property$ risk of serious injury and death.¶

- Do not use liftgate unless you have been properly trained and instructed, you have read and you understand the full operating instructions.
- 2. Wear appropriate working clothes, incl. footwear with steel toe caps and a good non-slip sole, and wear protective gloves.
- 3. Ensure the vehicle is safely parked and braked before using the liftgate
- 4. Where applicable, refer to the site's specific risk assessment, and follow the local
- Where applicable, refer to the site's specific risk assessment, and follow the kework & safety instructions.

 Always inspect the lift gate before using it. DONOT use liftgate if there are signs of badmantenance, subnormal wear or damage, or if the platform surface is slippery. DONOT attempt to repair liftgate yourself, unless you have been trained and

 authorized to do so.

 ¶
- 6. Do not overload, Observe the maximum rated capacity and load charts.
- 7. Do not stand behind or within reach of the platform.
- 8. Make sure that platform area, including the area in which loads may fall from platform, is clear of obstacles and other people at all times.
- Make sure you can see and keep visual control over the whole working area of the liftgate, the platform and its load at all times.
- 10. Beware of finger and toe traps at all times. When riding platform, stand at safe distance of minimum 10° from the inboard edge of the platformadjacent to the rear sill of the
- 11. It is prohibited for anyone other than the operator to travel on the platform
- Liftgate is intended for loading and unloading cargo only. Do not use liftgate for anything else but its intended use.
- 13. Make sure platform is clearly visible from all approach directions (by means of flashing platform lights, platform flags, traffic cones, etc...) and that the working zone is sufficiently illuminated.



EF0597.US

A CAUTION





- ALWAYS provide good ventilation.
- ALWAYS remove galvanizing from the area to weld.



Welding can cause severe damage to the electronic components of the vehicle and liftgate. To prevent damage: ALWAYS follow the instructions of the vehicle manufacturer with regards to welding, disconnecting batteries and plugs.

- DO NOT weld if such is not authorized by the vehicle manufacturer.
- ALWAYS connect the ground lead directly to the component being welded and as close to the weld as possible.



EF0562.EN

WARNING

Always stand clear of platform area.

DHOLLANDIA • EF0562.EN



EF0563.EN

AWARNING



Liftgate hazards can result in crushing or falling. Keep hands and feet clear of pinch points.

If riding liftgate, make sure load is stable and footing is solid.

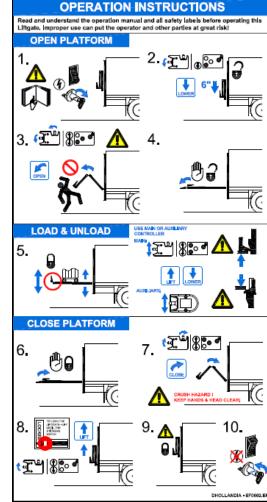


Read and understand the user's manual, all instructions and warnings before use.

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6



NOTICE

LIFT GATE SHUT-OFF

TO BE TURNED OFF WHEN LIFT IS NOT IN USE

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C SF817.ENFR

NOTICE / ATTENTION

250 AMP fuse protection for BATTERY CHARGE LINE

Fusible 250 AMP pour PROTÉGER LE CÂBLE DE RECHARGE DES BATTERIES

DHOLLANDIA • EF0817.ENFR

B EF816.ENFR

NOTICE / ATTENTION

250 AMP fuse protection for LIFTGATE POWER CABLE

Fusible 250 AMP pour PROTÉGER LE CÂBLE D'ALIMENTATION DU MONTE-CHARGE

DHOLLANDIA • EF0816.ENFR

LIFTGATE DECALS USED AND AFFIXED IN AREAS, OTHER THAN THE REAR OF THE VEHICLE:

- A Cabin switch in driver's cabin to switch electrical power to liftgate on / off (if so equipped)
- B For circuit breaker in liftgate battery compartment
- C For main fuse in liftgate battery compartment

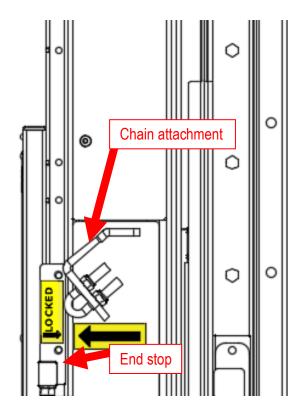
EF0614

These decals serve to show if the liftgate is in locked position for transport.

The arrows should ALWAYS match when closing the liftgate.

A WARNING

- Moving the vehicle while the locked decals don't match and thus the liftgate is unlocked, can result in damage and/or put the operator at great risk of serious bodily injury and death.
- Therefore these locking decals should always be present on the same location and should match before moving the vehicle.
- Always check if these decals are located on the right location. The stickers should always be placed under the chain attachment and above the end stop on the left beam of the VHT liftgate.



WARNING signs



Overview and keep visual control over the working area of the tail lift at all times.



General warning sign, used to alert the user to potential hazards. All messages that follow this sign shall be obeyed to avoid possible harm.



Entrapment hazard. Keep hands, limbs, loose clothes and long hair away from moving parts.



Crushing & shearing hazard. Keep hands away from moving parts.



Crushing & shearing hazard. Keep feet away from moving parts.



Slipping hazard.



Tripping hazard.



Hazard caused by tilting objects.



Hazard of falling from heights.

PROHIBITION signs



General prohibition. DO NOT do!



General prohibition. DO NOT do!



DO NOT use machine by more than 1 operator!



DO NOT step or stand here!

11 MEANING OF SAFETY AND WARNING SIGNS

MANDATORY ACTION signs Contact your regional DHOLLANDIA distributor. Consult the DHOLLANDIA website. Download from DHOLLANDIA website. Read the manual or instructions. Hold onto safety rail. Protect yourself from falling off the platform, or vehicle floor. Wear safety gloves. Wear safety-toe shoes. Wear appropriate work clothes, avoid loose-fitting clothes that might be trapped in the moving parts of the lift. Wear safety protection, eye protection and a safety hard hat. Use a safety shield.

	Other frequently used signs
	Yes do this way.
YES	Correct work procedure.
	Yes do this way.
S	Correct work procedure.
	No, DO NOT do this way.
3	Incorrect work procedure.
Ô	Position the load at the applicable centre of gravity
	or load centre.
	Follow the load instructions.
	Emergency stop.
Emergency stop Arrêt d'urgence Noodstop - Notstopp	Will cause an immediate stop of the tail lift.
200	Emergency exit.
LŢJ 🖑	Provision (lever, valve,) creating an emergency exit.
C	Unlock.
	Disengage the mechanical locking system.
\cap	Lock.
	Engage the mechanical locking system.
	Switch ON the electrical power.
	Switch ON the electrical power to the tail lift via the
	main battery disconnect switch and / or cabin switch.
	Switch OFF the electrical power.
XX	Outleb OFF the electrical and the UNIVERSE
	Switch OFF the electrical power to the tail lift via the main battery disconnect switch and / or cabin switch.



This is an operation to be executed manually (as opposed to an electrical function controlled by means of one of the control units).

12 END NOTE

NOTICE

- The most important safety and operation instructions are summarized in a product video that can be viewed online.
- Make sure you review these instructions prior to operation of the associated DHOLLANDIA tail lift.



NOTICE

- Competent and regular preventative maintenance is essential to the operational reliability, and the safety of the operator and bystanders.
- All maintenance and repair work should be performed by authorized DHOLLANDIA service agents and using only authorized OEM DHOLLANDIA replacement parts.
- Consult the separate MAINTENANCE AND REPAIR MANUAL for safety instructions, maintenance guidelines, and troubleshooting support.
- Lubricate the tail lift on a regular basis to maximize its durability and operational reliability. This is at least 3 times per year in a single shift operation; more frequently in case of very intensive use (multiple shift, 24h operation, etc.) or use in hostile environment conditions (frequent high pressure cleaning with strong detergents, etc.).