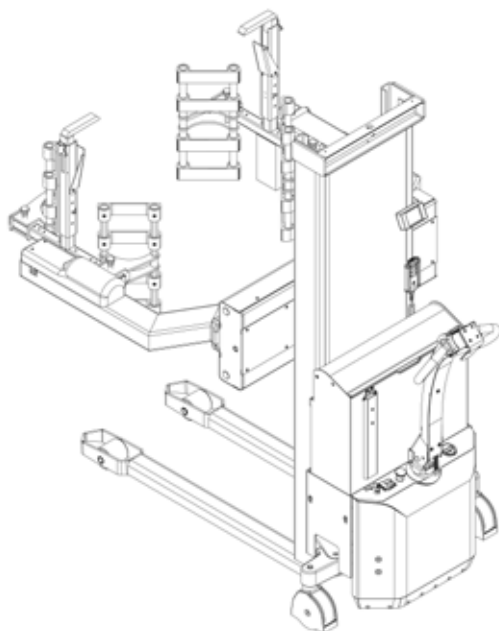
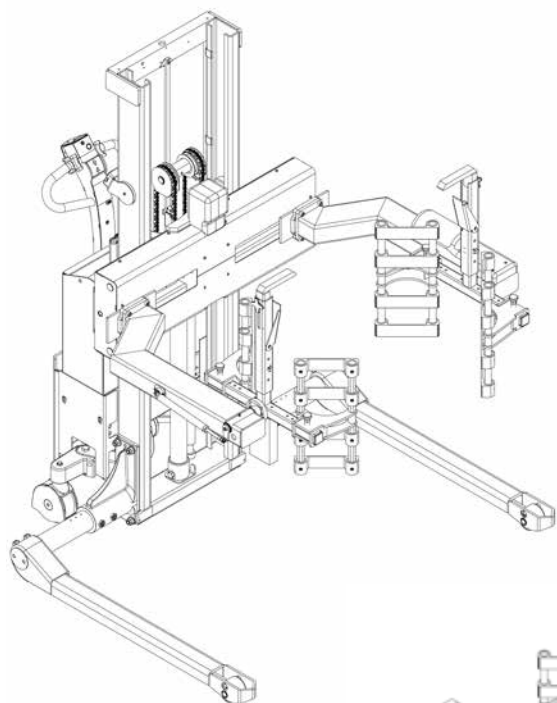


# MULTI DRUM TURNER SELFMDT, SELFSDMT



## EU DECLARATION CONFORMANCE

Manufacturer: **Logitrans A/S**  
Address: **Hillerupvej 35**  
**6760 Ribe**  
**Danmark**

hereby declares that:

machine:                      Product group:    **Multi drum turner**

Type:                              SELFMDT1002/SELFMDT1002

Production year/  
Serial no:

**a)** has been manufactured in conformance with the stipulations of the:

- **Directive no. 2006/42/EC**
- **Directive no. 2014/30/EC**
- **Directive no. 2014/35/EC**

**b)** has been manufactured in conformance with the stipulations of the standard:

- **EN ISO 3691-5**

Responsible for the technical dossier:

Name:                      **Gitte Kirkegaard**  
Address:                   **Hillerupvej 35, DK-6760 Ribe**

Signature:



Gitte Kirkegaard, CEO, Logitrans A/S

Ribe, 20.02.2020.



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## 1.0 Before the first lift...

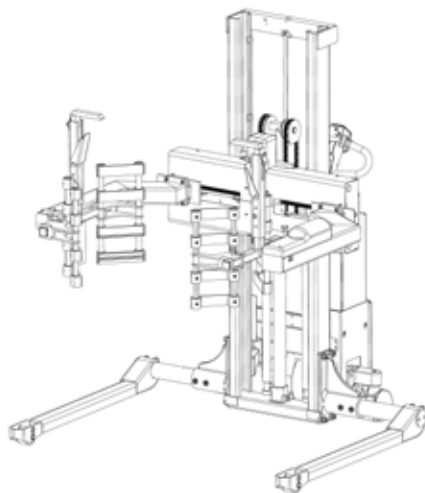
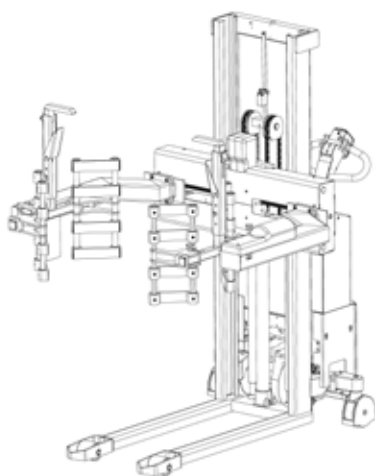
The **Multi drum turner** is manufactured in accordance with safety directives.

Among the subjects dealt with in this **Instruction Manual** are:



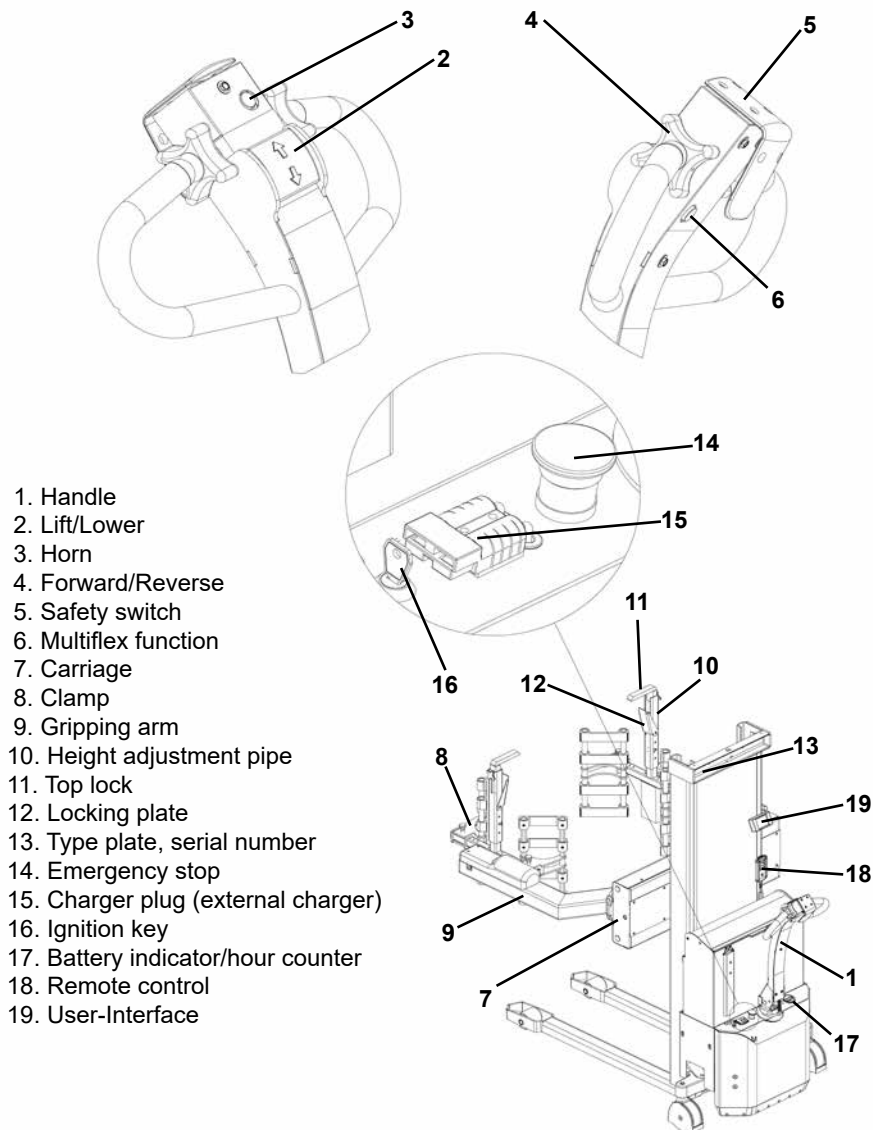
- Proper application
- Physical limitations of the product
- Risks with improper use

Therefore please read this **Instruction Manual** carefully!





## 2.0 Functions and identifications

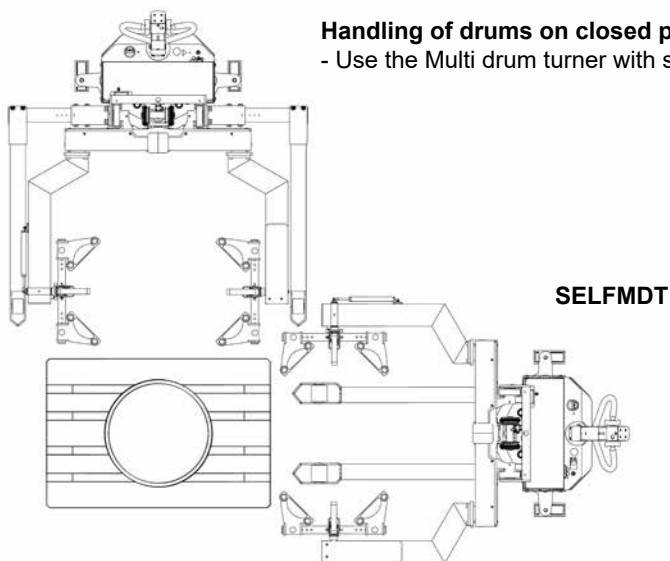




## 3.0 How to operate Multi drum turner

### 3.1 Handling of drums

**SELFSDMT**



**Handling of drums on closed pallets**

- Use the Multi drum turner with straddle legs!

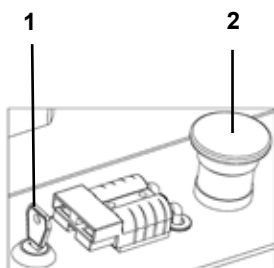
### 3.0 How to operate the Multi drum turner

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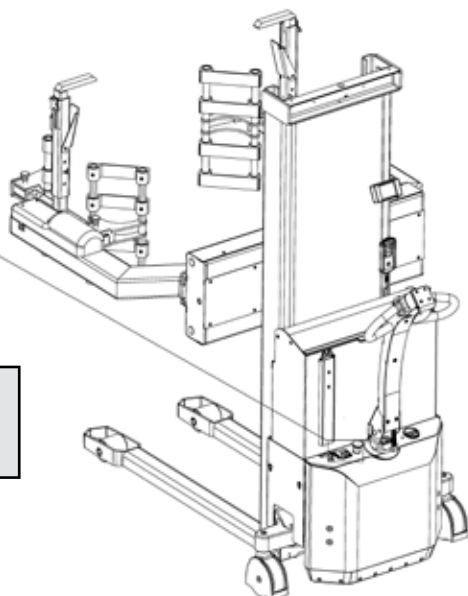
#### 3.2 Use of the Multi drum turner

**Conditions for rotation:** Center of the gripping arms is lifted at least: 430 mm  
The load can be rotated 360°.

Insert key (1) and turn clockwise to switch on control current ready for function activation.



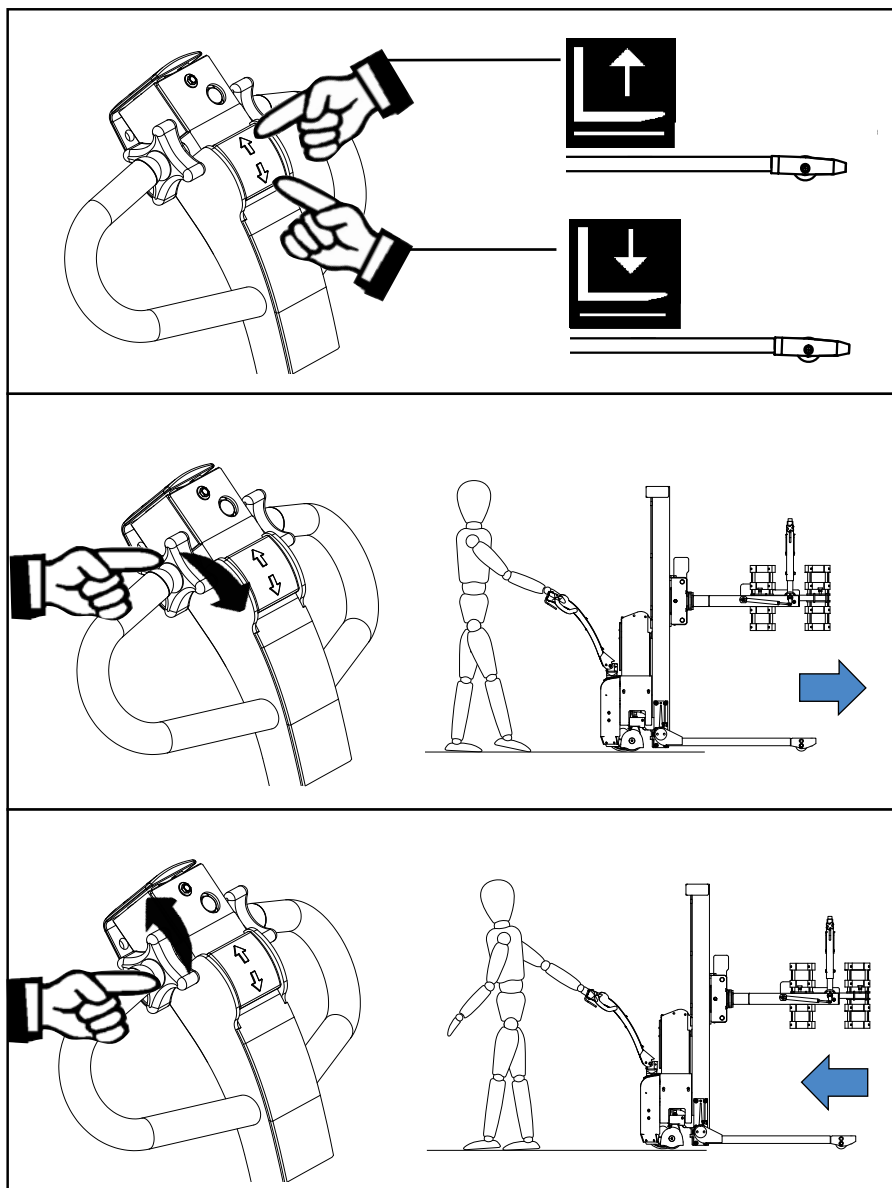
**Note!!! Emergency stop (2)  
must not be activated**



### 3.0 How to operate the Multi drum turner

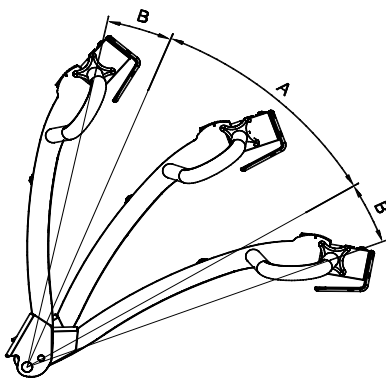
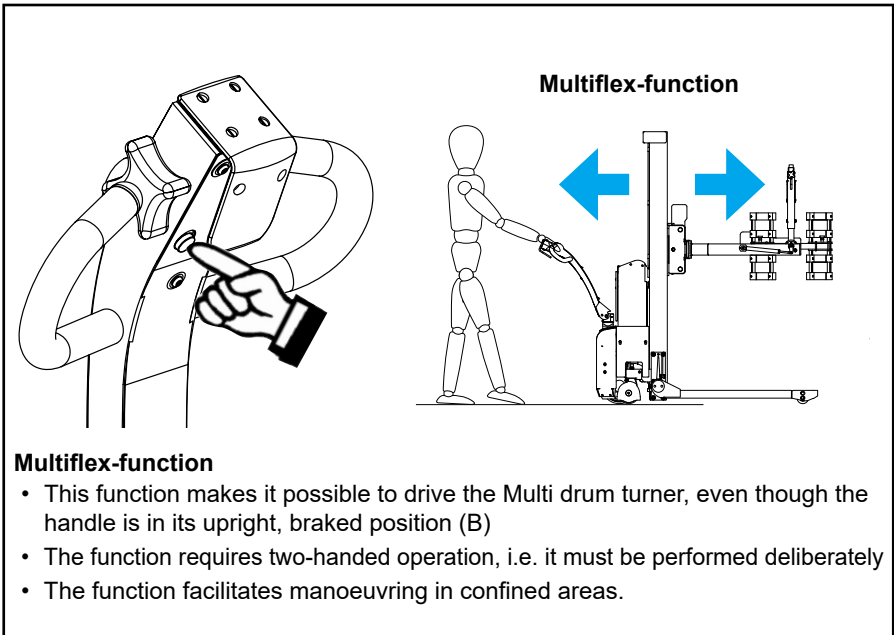
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#### 3.3 Handle functions





### 3.0 How to operate the Multi drum turner



The control functions of the Multi drum turner are located in the handle  
- The functions are dependent on the positions of the handle!

**Position A: Drive position**

Drive current on  
Brake deactivated

**Position B: Stop/Brake/ Emergency Stop**

Drive current off  
Brake activated

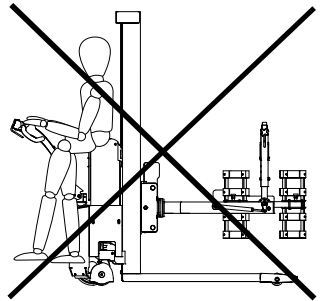
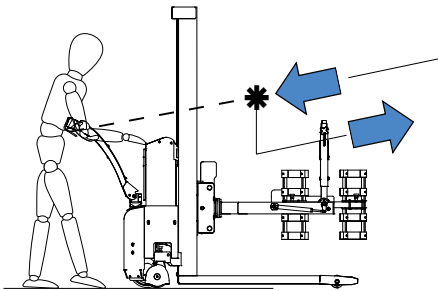
### 3.0 How to operate the Multi drum turner

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#### 3.4 Personal safety

The safety switch on the end of the handle ensures that the operator cannot be trapped when the Multi drum turner is reversed.

**When the safety switch is activated, the Multi drum turner will change direction, move forwards and stop.**



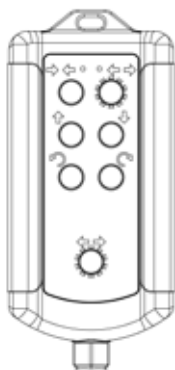
### 3.0 How to operate the Multi drum turner

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#### 3.5 Remote control MR-1 / Lifting-Lowering-Rotation-Clamping

The remote control is used for:

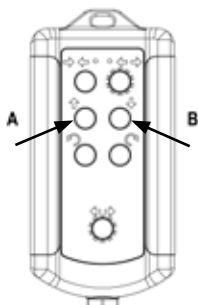
- Lifting/lowering the carriage/load
- Rotating the clamps/load
- Clamping/fixing the load
- Releasing the load
- Moving the gripping arms horizontally



## 3.0 How to operate the Multi drum turner

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### 3.6 Remote control / Lift and lower / Rotation



Press (A) to lift.  
Press (B) to lower.

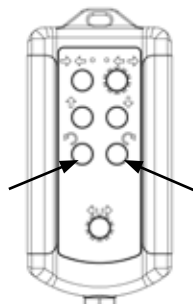


**NOTE!** The lowering height with remote control is set from factory - 430 mm to the middle of the gripping arms.

#### Rotation:



**NOTE!**  
Check that the load is placed in the load center and is properly locked before rotating.

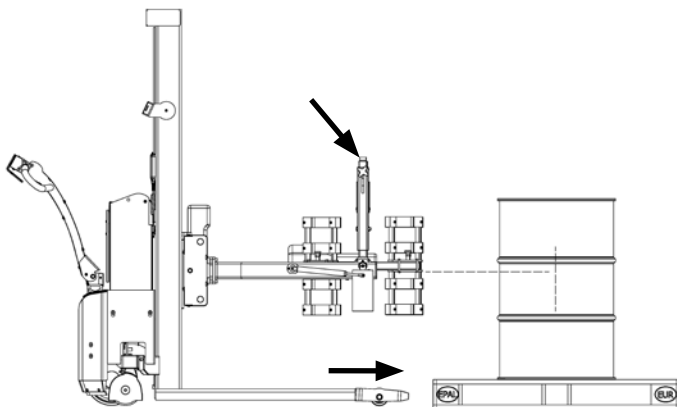


Press to rotate in the direction of the arrow  
The rotation is set to rotate continuously from the factory.  
The load can be rotated 360°.

### 3.0 How to operate the Multi drum turner

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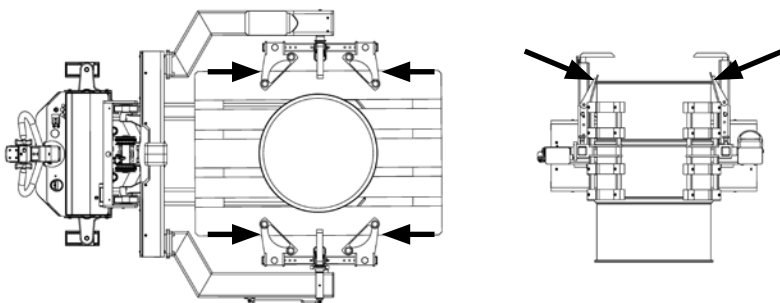
#### 3.7 Remote control / Clamping of drums



The height is adjusted, so that the clamps (8) are placed approx. 5 cm above the middle of the drum, and the top lock (11) is moved to upper position.

The clamps (8) are adjusted to the drum diameter.

The height adjustment pipe (10) is adjusted so that the locking plate (12) is placed a little above the edge of the drum.



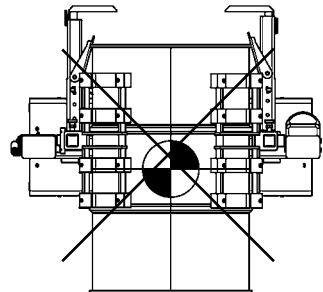
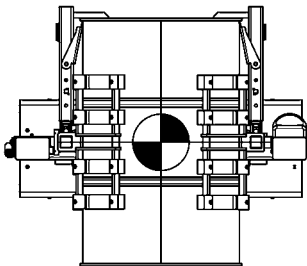
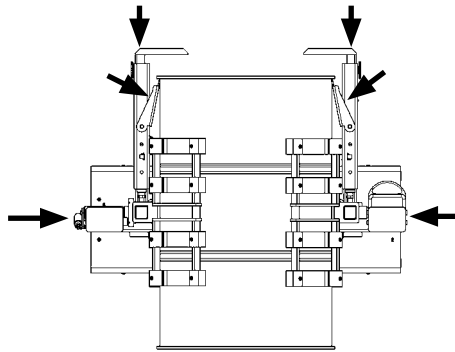
### 3.0 How to operate the Multi drum turner

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Clamp slightly around the drum, and lower the gripping arms (9), until the locking plate (12) locks at the edge of the drum.

Close the gripping arms (9) to fully and safely clamp the drum.  
The top lock (11) is adjusted to the top of the drum and is tightened.

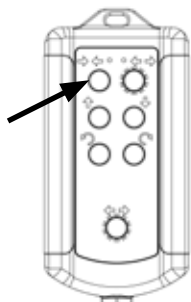
(8, 9, 10, 11, 12 - please check 2.0 Functions and Identifications.)



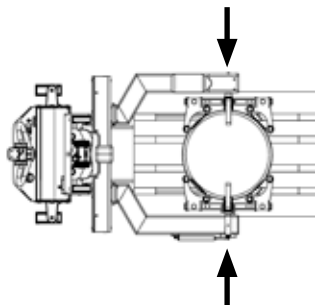
### 3.0 How to operate the Multi drum turner

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#### Clamping:

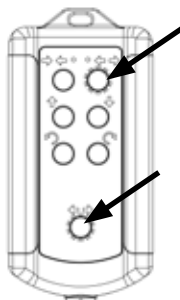


Press “Clamp” until the drum is safely fixed.

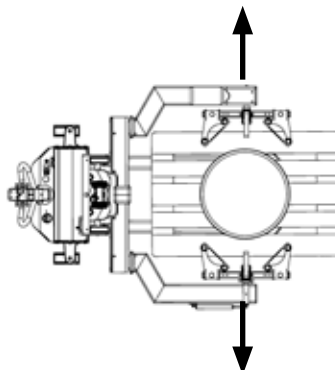


If “**soft drums**” are to be handled and a liquid to be poured out of the drum when reversed, take off the lid before clamping the drum. An overpressure may occur that might cause spraying out liquid.

#### Releasing:



Press “Release” and “Lock button” simultaneously to open the gripping arms.



### 3.0 How to operate the Multi drum turner

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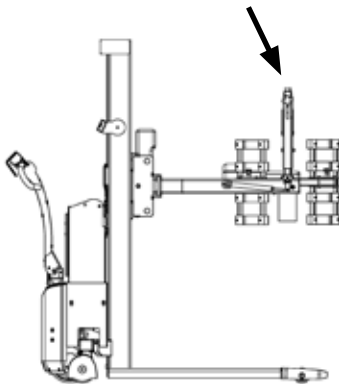


Larger drums **HAVE TO** be secured with “Drum top lock”.  
Smaller drums **SHOULD** be secured with “Drum top lock”.  
Small drums and cans are **NOT** secured with the “Drum top locks”.

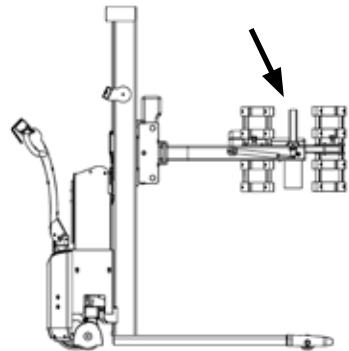


If using small drums and cans, remove “Drum top lock”.

If using larger drums



If using smaller drums and cans





### 3.0 How to operate the Multi drum turner

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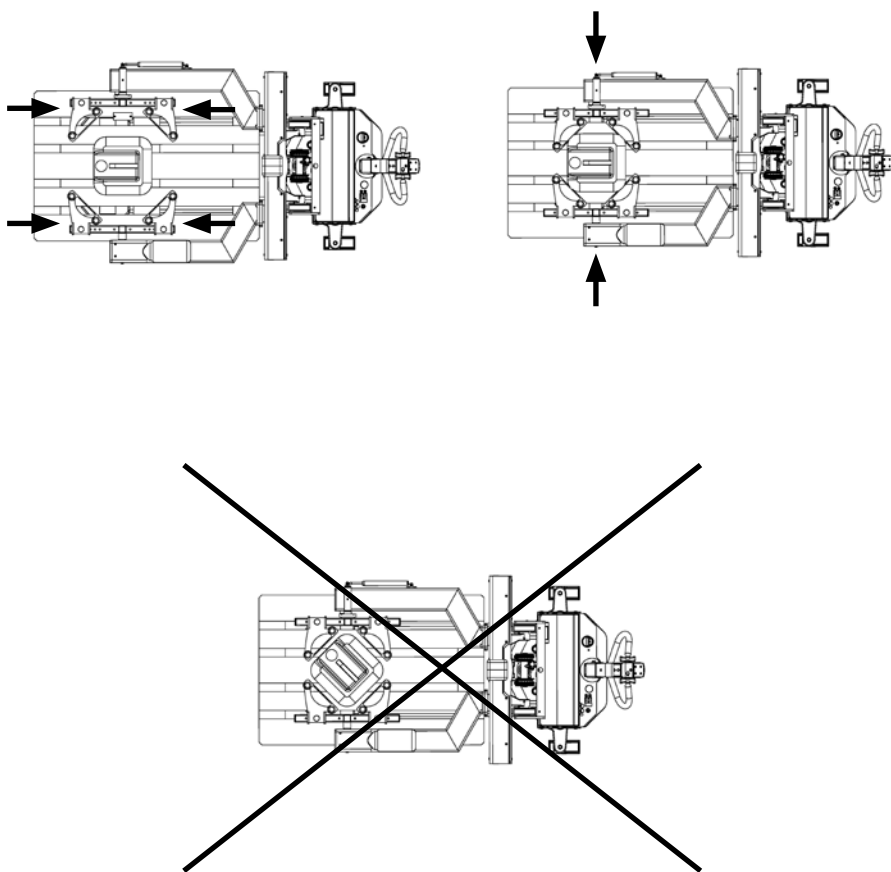
#### 3.8 Remote control / Clamping of small drums and cans

The gripping arms (9) in open position are placed around the drum/can.

The clamps (8) are adjusted to the size (diameter) of the drum/can.

Clamp around the drum/can.

(8, 9 - please check 2.0 Functions and Identifications.)



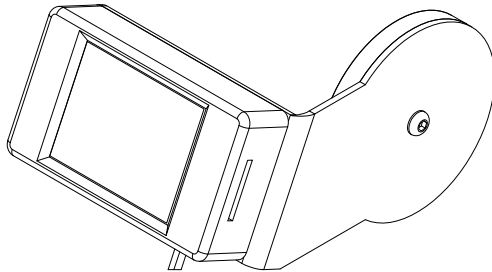
## 3.0 How to operate the Multi drum turner

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### 3.9 User-Interface LUI-1 Multi drum turner

User-Interface LUI-1 for:

- Setting speed for rotation
- Setting up to three stop position/angles in both rotation directions
- Setting end stop limit for gripping arms (inner/outer)

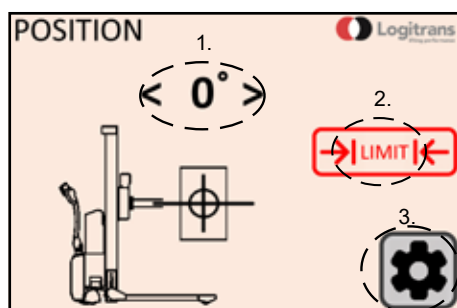


## 3.0 How to operate the Multi drum turner

### 3.10 Setting up User-Interface LUI-1 Multi drum turner

#### 3.10.1 Home display

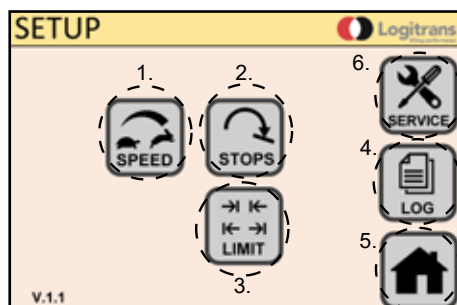
When starting the machine/deactivating of emergency stop in User-Interface LUI-1, home display is shown.



1. Position of gripping arms
  - With green arrow - horizontal (0°)
  - With red arrow - programmed angle
2. Limit
  - Shown if the gripping arms are placed in end stop limit position (inner/outer), and if the gripping arms can not be moved further.
3. Settings

#### 3.10.2 Display for Setup

At home display, press Setup and the following is shown.

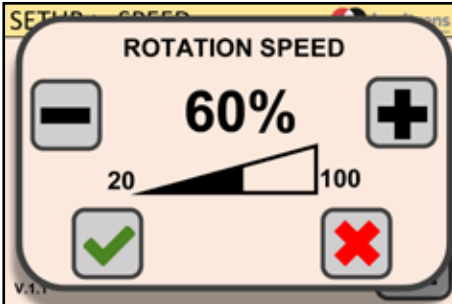


1. Speed (SPEED)
2. Angle stop (STOPS)
3. End stop limit (LIMIT)
4. Output data (LOG)
5. Home display (HOME)
6. Service (SERVICE)

### 3.0 How to operate the Multi drum turner

#### 3.10.3 Setting of rotation speed

At the Setup display, press "SPEED" and the following is shown.

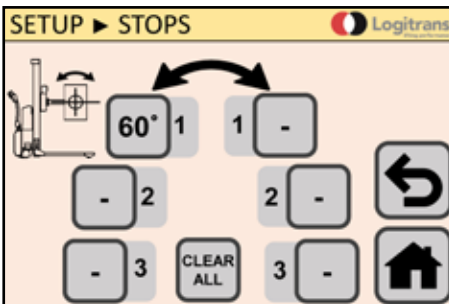


1. Use  $\pm$  to adjust the speed.
2. Use  $\checkmark$ / $\times$  to accept/cancel the choice and return to Setup display.

#### 3.10.4 Setting of stop position

From the factory, the clamps are set to rotate continuously. When the gripping arms have rotated 360°, the machine stops rotating. If you want rotation to continue, it is necessary to release/press the rotation switch on the remote control again.

It is possible to set up to three stop positions/angles for rotation in both directions. If the machine is set with one or more stop positions/angles, the machine cannot rotate further than the last set stop position/angle.

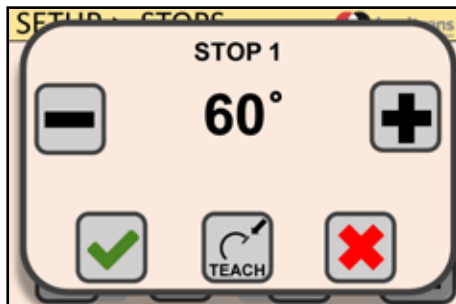


At home display, press Setup, and afterwards STOPS, and the following is shown.

### 3.0 How to operate the Multi drum turner

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At the Stops display, press on the first stop in the requested direction, and the following is shown.



1. Use  $+$ / $-$  to choose the size of the angle or use TEACH to choose actual position.
2. Use  $\checkmark$ / $\times$  to accept/cancel choice and return to Stops display.
3. At the Stops display, choose the next stop position/angle and repeat the procedure.

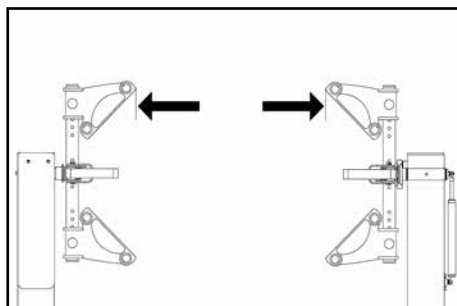
#### 3.10.5 Deleting stop positions

At the Stops display, press "CLEAR ALL" to delete all set stop positions/angles.

#### 3.10.6 Setting the end stop limit for gripping arms (inner/outer)

If a limitation of the range of movement of the gripping arms is needed, a maximum and/or a minimum gripping distance can be set.

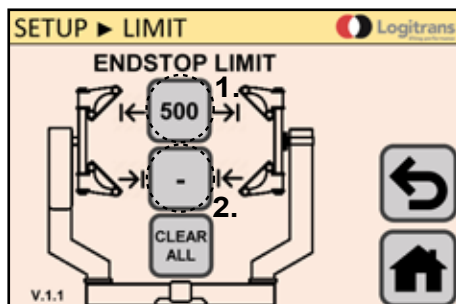
**E.g.** The minimum gripping distance or "Inside End Stop Limit" may be useful when handling plastic barrels/drums to prevent unnecessary deformation of the barrels/drums and/or to ensure accurate repeatability, when gripping the same type of barrels/drums.



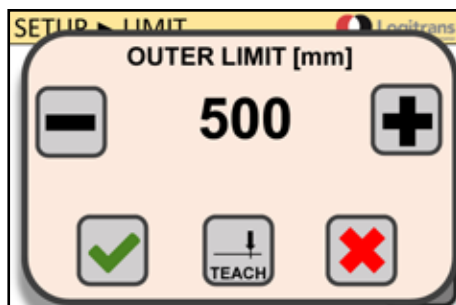
The value for the end stop limit is the distance between the gripping arms, measured in mm.

### 3.0 How to operate the Multi drum turner

At the Home display, press Setup and afterwards Endstop limit (LIMIT), and the following is shown.



At the Endstop limit display, choose outer (1) or inner (2), and the following is shown (e.g. outer).



1. Use  $+$ / $-$  to choose the distance size or use TEACH to choose actual position.
2. Use  $\checkmark$ / $\times$  to accept/cancel choice and return to End stop limit display.
3. At the End Stop limit display, choose the next end stop position or choose Home display to start.

#### 3.10.7 Deleting end stop limit positions

At the End stop limit display, press "CLEAR ALL" to delete all set end stop positions.

## 3.0 How to operate the Multi drum turner

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### 3.11 Intended use

The Multi drum turner is designed for transporting, lifting and rotating many different drums. It is only designed for the general handling of drums. Drums with liquid, powder or solid material can be handled. If the contents are to be poured out, the user has to carry through the work so calm that the contents do not suddenly fall out.

The lifting height has to be as low as possible, until the user is familiar with the machine.

If unwanted material should stick to the machine, stop the machine and activate emergency stop before trying to remove the unwanted material.

**Any use beyond this is contrary to the intended use.**

Logitrans A/S is not liable for damages because of this; the risk is the sole responsibility of the user.

### 3.12 Unintended use



- **Never** use the machine without safety and protective devices.
- **Never** use the machine as a crane, lift or stand platform.
- **Never** use the machine with defective gripping arms, bushings or bolts. Is a protection defect, replace it immediately.
- **Never** use the machine for other purposes than those described in this instruction manual. Do **NOT** use the machine to handle other items than drums.
- **Never** use the machine as a toy.



Be very careful when cleaning the machine for material residues; this area contains moving parts. Gloves and safety glasses should be used and, where possible, appropriate tools should be used to remove unwanted material to avoid direct contact with fingers and hands.

## 3.0 How to operate the Multi drum turner

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### 3.13 Unacceptable use

The operating safety of the delivered machine can only be guaranteed, if used in accordance with the intended use as described in this instruction manual. The limits given in the data sheets must under no circumstances be exceeded. Never use the machine as a crane or stand platform. Never use the machine for other purposes than those described in this instruction manual.



Minor adjustments of the gripping angle must be performed before lifting the drum. Do not stand in front of the drum opening, as material can fall out. If liquid or powder is wasted on the machine, the machine should be cleaned.



The gripping arms can freely rotate a drum 360°. If the clamping or turning function is blocked, stop the machine, activate the emergency stop and the handbrake. Wear safety glasses and good gloves, and remove the unwanted clamped material.



### **3.0 How to operate the Multi drum turner**

---

#### **Safety instructions for maintenance and inspection**

- The user must ensure that maintenance, inspection and assembly are carried through by authorised and qualified persons, who, after careful reading of this instruction manual, have sufficient knowledge.
- Work must only be carried through, when the machine is switched off. The procedure for stopping the machine as described in the instruction manual must be followed strictly.
- For maintenance with the raised carriage/equipment, secure with suitable support elements.
- Use only suitable tools and wear gloves, safety shoes, helmets and glasses.
- Proper dispose of oil and grease.
- Immediately after completed work, all safety and protective devices must be fitted and reactivated.

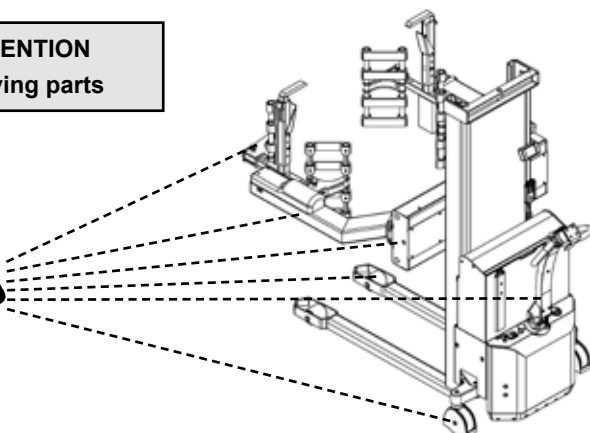
#### **Safety instructions for responsible operator/user:**

- The user has to be familiar with equipment, control elements and functions, before starting work. When the work has started, it is too late.
- The clothing of the user must be sealed (avoid loose clothes). Check the working area before starting.
- Provide an adequate view of the working area.
- Sitting/standing on the machine during transport and work is not allowed.
- Before leaving the machine, lower the carriage/equipment and remove the ignition key (if the machine has a key).
- The brake must be activated.



## 4.0 Optimum safety

The safety instructions in the instruction manual, the applicable national accident prevention regulations and internal working, operating and safety regulations, if any, must be observed.



### 4.1 Safety regulations

- Never walk under a raised load!
- Never stand between the gripping arms!
- Before lowering the carriage, make certain that no foreign elements can hinder the free lowering of the carriage.
- The Multi drum turner is designed for use on an even and level floor.
- During transport the carriage shall be raised as little as possible.
- Transport with raised carriage should be made over the shortest possible distances and at low speed.
- Check that the chains lift equally. They shall be equally tight when the carriage is loaded.
- Chains and chain bolts must not be damaged. Chains that have become permanently stretched (max. 2 % of original length) must be scrapped.



## 4.0 Optimum safety

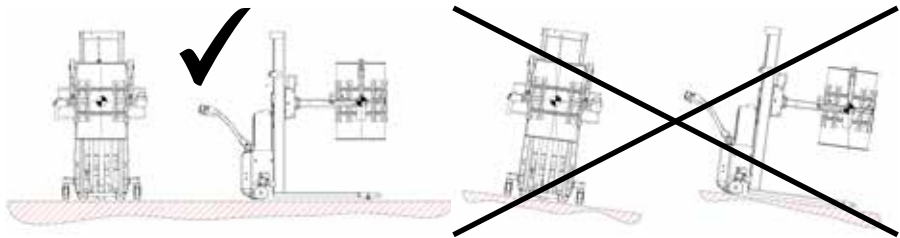
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### 4.2 Rotation range

#### Standard version

When the turning point is raised about 430mm, you can rotate. Below this area, the gripping arms can not be rotated and the carriage can not be lowered by the remote control.

### 4.3 Driving loaded



The load centre is never allowed to exceed the centre line of the wheels. During transport with load, the carriage shall be raised as little as possible. Transport should be made over the shortest possible distances at low speed.



When driving with liquid, be aware that the load center can move during braking.

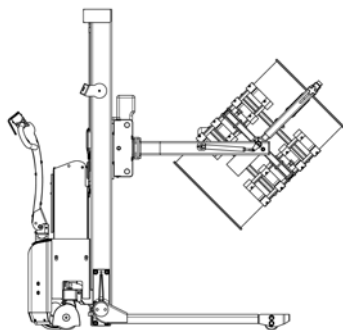
## 4.0 Optimum safety

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### 4.4 Rotation with load

**NOTE!** Rotation is only allowed to take place, if the machine is placed on an even surface.

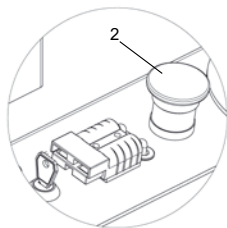
When rotating, the user needs a full overview of the whole working area, so that the rotation movement can be stopped, before the load touches floor, items or persons in the working area.



**NOTE!**

Check that the load is placed in the load center and is properly locked before rotating.

### 4.5 Emergency stop



The product has an emergency stop (2). When activating the emergency stop, the main current supply is switched off.

- The movement of the carriage stops immediately.
- Driving with the truck stops immediately.
- The emergency stop is deactivated by turning the switch to the right.

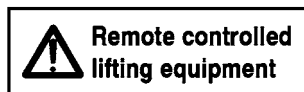
## 4.0 Optimum safety

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### 4.6 Safety labels



Do not stand on or under the carriage/forks/  
equipment



Remote control on this machine.



Clamping risk for hands and feet.



The maximum allowed load appears from the label  
on the machine. Do not exceed this capacity.



Do not step here.

## 4.0 Optimum safety

---

### 4.7 Additional safety advices

#### **Training:**

The user must be competent and fully able to perform the work with this machine in a safe and efficient way.

#### **Safety equipment:**

Required: Wear the following safety equipment when working:



Safety shoes.

#### **Please note the following risks:**

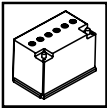
- The user can be stuck when clamping a drum.
- The user can be hit or caught by moving parts, e.g. gripping arms or spindle.
- The user can be hit by falling material or machine parts in case of machine damage.
- Accident at collision with other machines or lost items.

#### **Always do the following:**

- Make sure that the user has read this instruction manual and received instructions in the use of the machine.
- Make sure that all covers are fitted.
- Before leaving the machine, make sure that the gripping arms are lowered to the lowest position and the handbrake is activated.
- Check the working area and remove dangerous items, before starting to operate.
- Check that all warning labels are visible and that none of them is missing or unreadable.
- Follow the instructions of the manufacturer for correct operation.

#### **Never do the following:**

- Allow an inexperienced person to operate the machine unattended.
- Use the machine if the electrical or hydraulic system shows signs of damage
- Perform any maintenance or adjustment without lowering the gripping arms.
- Position in the working area of the machine (risk of injury).
- Use the machine for other purposes than those described in this instruction manual.

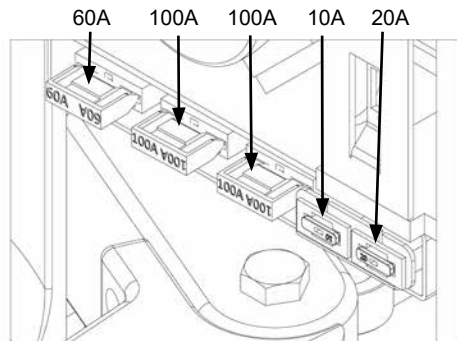


## 5.0 There must be a current supply...

### 5.1 Fuses - replacement

There are five fuses in the electrical circuit:

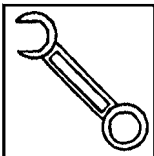
- 60 Amp** fuse for clamping/rotation
- 100 Amp** fuse for the hydraulic pump
- 100 Amp** fuse in the main supply from battery
- 10 Amp** fuse in the control current circuit
- 20 Amp** fuse for built-in charger



#### **Replacement:**

The old fuse is to be removed and replaced by a new one of the same size. Find out why the fuses blow!

### 5.2 Wiring connections



**Many operational disturbances are caused by bad connections in the electrical circuit. Make sure that the connections are in order.**

Check connections regularly for damage at insulating caps or bad connections at plugs etc. Verdigris must be removed from cable plugs. Keep all screw/nut connections tight.



## 6.0 Maintenance

The machine may only be used and maintained by persons who are familiar with the machine and are instructed in the possible hazards. Responsibilities, competence and staff monitoring must be regulated precisely by the responsible operator. The responsible operator must ensure that the contents of the instruction manual are understood.

Repair, which is not described in the instruction manual, may only be carried through by authorised persons.

Failure to observe the instructions may result in danger to persons, environment and the machine.

Work must only be carried through, when the machine is switched off.

When carrying through maintenance on the lifted gripping arms, secure with suitable support elements.

Immediately after completed work, all safety and protective devices must be fitted and reactivated.

### 6.1 Cleaning



Avoid spraying water on bearings, sealings and electrical components, when cleaning the Multi drum turner.



**Never use sharp objects or solvent cleaners when cleaning.**





## **7.0 Good service after purchase**

### **7.1 Ordering spare parts**

The correct spare parts are obtainable from your dealer.

When ordering, please state:

- Serial number of the product
- Type and width/length of the product
- Spare part no. Please find spare part no. on **www.logitrans.com**

### **7.2 Warranty/Compensation**

Spare parts delivered during the warranty period will be invoiced. A credit note will be sent immediately after we have received and tested the defective parts and found that the warranty conditions have been met.

### **7.3 Service and repair**

You should be able to make adjustments and perform minor repairs on the spot. However, major repairs should be left to the dealer who has well-trained personnel and the necessary special tools.

### **7.4 Warranty**

The warranty covers material and assembly defects which, subject to inspection by us or our representative, are deemed to be faults or deficiencies that prevent normal use of the parts concerned. Such affected parts shall be sent to your Logitrans dealer carriage paid within the warranty period in force at the time in question, together with a copy of the documentation for the service performed (B0284 - see the back page). The warranty does not cover normal wear and adjustments. The warranty period is based on singleshift working.

**The warranty shall no longer apply if:**

- the product has been used incorrectly,
- the product is used in environments for which it was not designed,
- the product has been overloaded,
- replacements of parts have been made incorrectly or original parts have not been used and consequential damages have arisen,
- if the product is changed or accessories, not being approved by Logitrans, are used.
- it can not be proved that a qualified technician has performed the service check according to the requirements stated in the instruction manual (see the back page).

### **7.5 Liability exemption**

The manufacturer accepts no responsibility for personal injury or material damage arising from deficiencies, defects or improper usage. The manufacturer accepts no responsibility for lost earnings, operating losses, lost time, lost profits or similar indirect losses incurred by the purchaser or a third party.





### **Periodic service and safety inspection**

Service inspection is required once each year, or at least for every 500 hours of operation.

Safety inspection should be performed by the dealer or other qualified persons at least once each year, unless local regulations state otherwise.

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