



2.30M SL 2 Post Lift - 3000kg

Operating Instructions



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Application

The automotive lift 2.30M SL is a lifting mechanism for lifting motor vehicles with a laden weight of up to 3000 kg. The maximum load distribution is 2:3 in or against drive in direction. The automotive lift is only designed for servicing vehicles. It is forbidden to carry persons with the lift. A vehicle should only be lifted using all 4 lifting pads, on the vehicle manufacturers defined points. Never lift a vehicle on only one or two of the lifting pads, serious injury or even death could occur.

It is not permissible to install the lift in a hazardous location or wash bays.

After changes to the construction and after major repairs to the component parts, the lift must re-examined and confirm the changes are safe by an expert.

E & O E. The Company reserves the right to introduce improvements in design or specification without prior notice. The sale of this product is subject to our standard terms, conditions and relevant product warranty.

TABLE OF CONTENTS

About these operating instructions.....	5
Thorough inspection.....	5
Delivery/ Transport / Storage.....	6
Handling.....	6
Storage.....	6
Delivery.....	7
Damage in transit.....	7
Unpacking.....	7
Workplace area.....	7
Operating range and appropriate use.....	7
Safety devices.....	8
Safety Instructions.....	9
Practical Safety Instructions and Signs:.....	12
General Safety Instructions for Vehicle Lifts:.....	12
General Vehicle Lift Safety Instructions:.....	14
Electrical connections:.....	16
Description of The Manual Sticker.....	17
Delivery and Installation Requirements.....	19
Standard Delivery.....	19
Moffat Delivery.....	19
Preparation for installation.....	19
Installation.....	20
Foundation.....	20
Floor fixings for lifts up to 4000kg.....	21
Foundation work for lifts up to 4000kg.....	22
Fixing specifications & power values.....	23
Concrete Quality.....	24
Important instructions for assembling the 2-Post-Lift!.....	24
Installation and initial operation.....	25
Testing of lifts.....	25
Disposal of the lift.....	26
Product description.....	27
Practical use of the 2 post-lift.....	27

TABLE OF CONTENTS CONTINUED

Technical Ratings.....	29
Dimensions 2-Post-Lift.....	30
Safety lock device (load nut failure).....	31
Changing the Bolts.....	34
Assembly wire link.....	35
Assembly wire link Original.....	36
Mechanical gyrating masses regulation.....	38
CPU board – Connection and initial operation.....	39
Control unit black box.....	40
Emergency lowering.....	41
Maintenance and service.....	42
Maintenance Schedule.....	42
Cleaning, care and maintenance.....	44
Ribbed drive belt.....	47
Pick up supports with attachable sleeve.....	47
Assembly of the Lifting Arms and the Arm Locking Device.....	47
Spare parts drawing.....	47
Spare parts List.....	49
Carriage drawing.....	50
Carriage list.....	51
Swing arms.....	52
On-Site Service / Overhaul / Spare Parts.....	53
Warranty.....	53
Troubleshooting.....	54
Transit Damage report.....	55
CE Declaration of Conformity.....	56
UKCA Declaration of Conformity.....	57
Record of Installation.....	58
Electrical diagram.....	61

Foreword

Continental Lifts are the result of over 100 years experience in the automotive industry. The high quality and the superior concept ensure reliability, a long lifetime and above all, economic business solution.

About these operating instructions

The operating instructions are intended to ensure safe handling of the lift. The operating instructions must be read carefully. Compliance with the safety instructions is a prerequisite for safe handling of the lift.

- All persons working on the lift must have read and understood the operating instructions before starting any work.
- The operating instructions are an integral part of the machine. They must be kept accessible to personnel at all times.

Thorough inspection

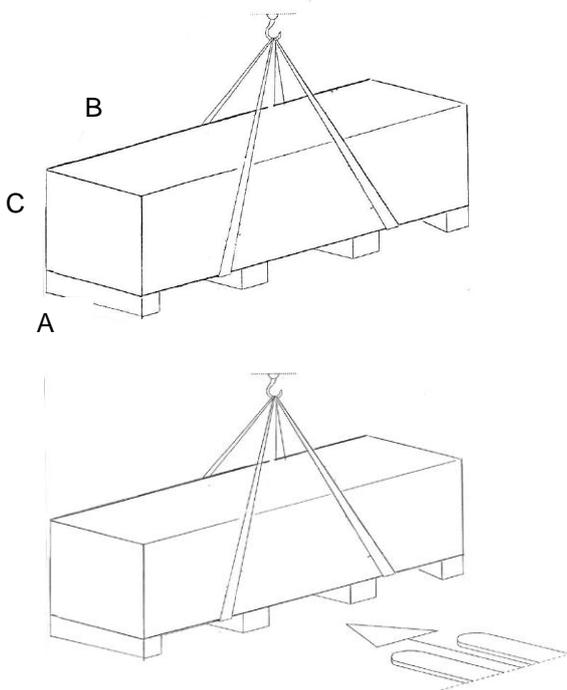
In addition to the safety instructions in this operating manual, all accident prevention and health and safety regulations apply.

Accordingly, the following applies to the operator

- An inspection book should be created and maintained for the lifting platform.
- In accordance with BS7980 the lifting platform must undergo an initial thorough inspection prior to initial start-up. This inspection cannot be carried out by the lift installer and must be arranged by the operator subsequent to the installation and prior to first use. The result of the inspection must be retained for the life of the lift.
- The lift must be inspected by an expert at regular intervals of no more than six months. The result of the inspections must be retained for 2 years.

Delivery/ Transport / Storage

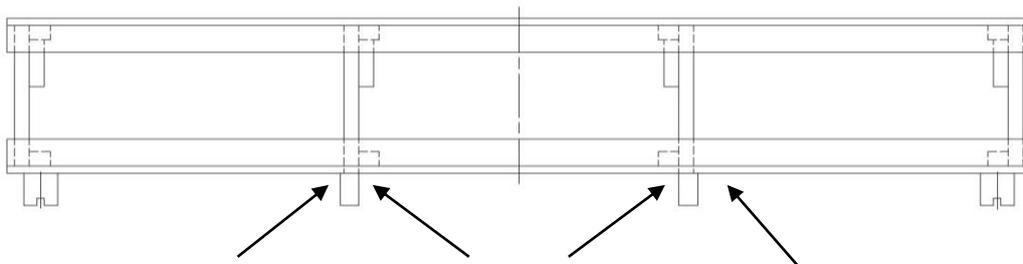
Handling



Dimensions:

Lift	A	B	C
2-post-lift	690mm	3100mm	570mm

The packed lift should only be lifted at the appropriate points. Gripping the lift from below with a fork-lift truck can lead to costly repairs.



Storage

The lift should not be stored outside.

The lift should only be unpacked at its installation place.

Take care, that the column isn't knocked or dropped, damage to the spindle could occur. Smooth running will be impossible if the spindle is damaged.

Delivery

Equipment for unloading assistance must be provided at short notice. Weight of the lifts approx. 650 – 1000 kg, depending on lift type

Damage in transit

Please check the goods immediately after delivery in the presence of the carrier. If the goods show any sign of damage in transit, the carrier must not be given a blank receipt. If necessary, note the damage on the haulage documents.

You must notify Continental immediately, the notification can be made by telephone, in writing or by e-mail and must contain the following:

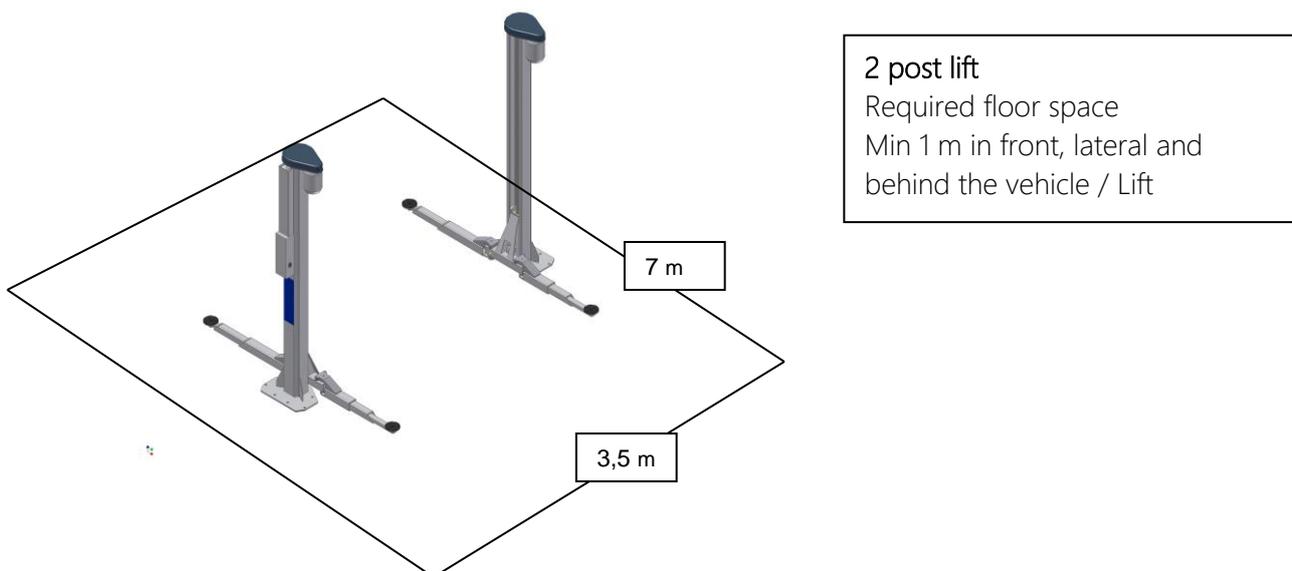
No. of assignment on the delivery note and date of delivery
Type of lift and serial number
Exact description of the damage

If necessary, use Appendix 14.1 Transit damage report.

Unpacking

When the lift and the accompanying packages are unpacked, any damage or missing items should be noted and Continental should be informed immediately. The individual parts must be laid out in such a way that nothing can be lost when the packing material is disposed of.

Workplace area



Operating range and appropriate use

The 2-column-hydraulic lift is tested for functionality and durability. It offers you best efficiency and safety. It's up to you to make use of these advantages.

Essential conditions for the right operating, an impeccable attendance and taking good care of the hydraulic lift. Please read through this manual carefully. It gives you all the required information and shows you how to always keep your hydraulic lift working.

The lift is meant to lift motor vehicles. Passenger transport is strictly forbidden. If you're using the lift in paint shops or rooms, in which large amounts of solvent-containing materials are used, please watch out for explosion hazards. The standard motor is not explosion proof.

The hydraulic lift is solely designed to lift motor vehicles who's total weight does not exceed the lifts max. lifting capacity, and whos mandatory position points lie in the positioning region of the hydraulic lift.

Installation is only to be done by experienced and trained staff.

Safety devices

Your lift is equipped with several safety devices, to ensure workers safety, if the lift is used according to this manual. Please take care of these safety devices, check subsequent to installation and again after any repairs.

Only trained service people are allowed to repair this lift.

Only original parts are to be used for repair. If third parts are used for repair, the CE certificate of conformity will be voided.

In accordance with the regulations regarding the operation of lifts, lift devices must be checked for their operational safety by an expert in accordance with LOLER. Records must be kept of these inspections.

In this respect please pay attention to ensuring that only authorized experts, who have been instructed in the functions and maintenance, check and maintain your lift.

Safety Instructions

Owner's Responsibility:

The vehicle lift is constructed and built to legal standards and further technical specifications. It therefore corresponds to current technology and guarantees the highest degree of safety in operation.

Please note, that the machine is only safe in action when all necessary measures have been met. It is the responsibility of the vehicle lift owner/operator to plan and check that the regulations are adhered to.

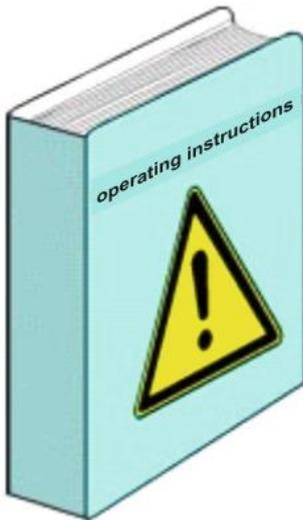
The owner is responsible for the following safety aspects:

- The vehicle lift must only be used for its intended purpose
- The vehicle lift must be kept in good functioning condition and especially the safety equipment must be checked regularly to ensure that it is functioning reliably.
- Operating, maintenance and repair staff must be supplied with the necessary protective gear and it is essential that this is worn.
- The operating instructions must be kept in a legible condition and must be available where the machine is used.
- Only qualified and authorised personnel should operate, maintain and repair the machine.
- The personnel must be regularly informed about relevant operational safety and environmental protection issues and must know the operating instructions and above all the safety regulations contained therein.
- Any safety labels and warnings attached to the vehicle lift must not be removed and must be legible.

Additional safety regulations:

The following regulations are particularly important:

- The laden weight of the lifted vehicle must not exceed 3000 kg for the automotive lift.
- The automotive lift must be in its lowest position (fully collapsed), before the vehicle can be driven onto the lift. Only then can the vehicle be lifted.
- While working with the lift the operating instructions must be followed.
- Vehicles with low clearance or vehicles that are specially equipped should be pre tested to ensure that they clear the lift ramp to avoid damage.
- Only trained personnel over the age of 18 years old are to operate this lift.
- No one is to stand within the working area (danger zone) during lifting and lowering
- No one is to be raised or lowered either directly or in a vehicle by the automotive lift.
- No one is to climb onto the automotive lift or onto an already raised vehicle.
- The automotive column lift must be checked by an expert after changes in the construction have been made.
- The main switch must be switched off and locked before work on the vehicle can commence. This is a safety precaution to ensure that the lift does not move during work.
- The main switch must be switched off and locked before any maintenance or repair work on the automotive lift itself can be carried out.
- During lifting or lowering the operator must observe the vehicle to ensure that the vehicle and the lift are functioning correctly.
- Installation of the lift in hazardous or dangerous locations such as washing bays is dangerous and is not allowed.
- Check the centre of gravity of the vehicle if heavy parts (eg the engine) are removed.
- If heavy parts must be removed (engine) the centre of gravity will change. Secure the vehicle before removing parts to avoid the possibility of the vehicle becoming insecure.



Basic Safety Measures during Normal Operation:

The vehicle lift may only be operated by authorised personnel who have received training, knows the operating instructions and is able to adhere to them.

Before switching on the lift, the following must be checked and ensured:

- that only authorised persons are present in the working area of the lift.
- that nobody can be injured when the lift is set in motion.
- Before each use, the lift must be checked for visible damage and it must be ensured that it is only operated in good condition.
- Faults must immediately be reported to the responsible member of staff
- Before starting to operate the machine, it must be checked and ensured that all safety equipment is in good functioning condition.
- Inspection and maintenance intervals stipulated in the operating instructions must be observed.

Basic Safety Measures during Maintenance and Repair:



Before maintenance or repair work is carried out, the working area of the lift must be made inaccessible for unauthorised persons. A sign should show clearly that maintenance or repair work is in progress!



Before maintenance or repair work is carried out, unplug the power supply or, if this is not possible, switch off at the main switch and secure it with a padlock. The key to this padlock should be kept by the person who carries out the maintenance or repair work. If heavy machine parts are to be exchanged, the load bearing equipment and buffer should be appropriate and in good condition.



Any lubricants, coolants or cleaning agents which might endanger the environment, should be disposed of properly.

Electrical Work:

Repair work on the electrical system of the lift should only be carried out by a qualified electrician.



Electrical installations should be checked regularly.

Loose connections should be tightened.

Damaged leads / cables must be exchanged immediately.

Keep housing of electrical installations closed at all times. Access is only permitted to authorised persons in charge of the key / tools.

Housing of electrical installations must never be cleaned with a hose pipe.

Protection of the Environment:



During all work with and on the vehicle lift the statutory regulations regarding the avoidance of waste and proper waste disposal must be adhered to.

In particular during installation, repair and maintenance work, water contaminating materials must not be allowed to seep into the soil or into the sewage system. These include:

- grease and oils
- oils for hydraulic systems
- coolants
- detergents containing solvents

Such materials must be kept, transported and collected in suitable containers and disposed of.

Practical Safety Instructions and Signs:

The following operating instructions contain practical safety instructions in order to draw attention to any unavoidable remaining risks which might occur while the vehicle lift is in operation. Such remaining risks endanger

- people
- products
- the environment

The signs used in the operating instructions are there mainly to draw attention to the safety directions.



The sign points to danger for persons (peril of death or injuries)



This sign points to danger for machines, materials and the environment.



Danger – general sign



This sign is a reminder that the power supply to the housing must be switched off and locked so that it is secured against accidental switching on.

The most important aim of the safety instructions is to prevent injury to people.

The respective applied sign cannot replace the text of the safety instructions. The text must always be read in full.



This sign does not relate to safety but gives information which should lead to a better understanding of the machine processes.

General Safety Instructions for Vehicle Lifts:



The vehicle lift must only be used for lifting vehicles in accordance with the technical data.



Only trained personnel may operate the system.



Safety devices must not be replaced.



Necessary repair work may only be carried out by approved engineers. Unauthorised alterations of the equipment exclude any liability by the manufacturer for any resulting damages and void the warranty.



Work on electrical installations may only be carried out by qualified electricians.



The vehicle lift must not be operated in environments liable to explosions.

General Vehicle Lift Safety Instructions:



An uneven distribution of load on the front and back pick-up platforms should not exceed the listed ratio of the types:

2.30M SL at a capacity of 3000 kg 3 to 2 and 2 to 3

The vehicle must always rest on all 4 supporting pads.



The vehicle must be picked up at the points stipulated by the manufacturer.



The vehicle and the lift must be observed during all vertical movements.



While the lift is operated, the danger zone must be kept free. Travelling on or climbing up on the lift is not permitted. Persons under the age of 18 must not operate the lift.



The safety devices must not be changed in their position or function.



Repairs should only be carried out by approved engineers.



The statutory accident prevention rules must be adhered to.



No work must be carried out on the vehicle during vertical movements.



The nominal load shown on the lift must not be exceeded.



After a brief lifting of the vehicle it should be checked that all lifting arms are securely bolted. If necessary, the vehicle should be lowered again and by a slight swinging movement of the lifting arm the bolt should slip into place.



During assembly and dismantling of vehicle parts the shift of the centre of gravity must be taken into account



*Take care when vehicles are loaded!
(other total weight and weight displacement)*



If electrical welding on the vehicle or on the lift have to be done, please turn the main switch on position O



Danger

If the safety instructions are not observed there is a danger of injury!

Remaining Risks:



During vertical movements of the lift, no person is permitted to stand underneath a lifted vehicle or in the danger area. If this prohibition is not adhered to, there may be the danger of injury. The operator must be expressly instructed to activate the up and down switch only if no person is standing in the danger area.



The foot protection corresponds to statutory regulations, but this does not exclude all imaginable possibilities of injury, but only those which are probable according to experience. The operator must be instructed to activate the up and down switch only if no person is standing in the danger area.

Before each use, the protective device of the lift must be checked for its perfect functionality.



If a vehicle has been picked up correctly onto the lift according to instructions, there will be no danger of accidents. If, however, the vehicle has not been picked up according to instructions, there is the danger of injury. Special care must be taken with loaded vehicles or in cases of shift of centre of gravity through mounting or dismantling of heavy parts. The operator has to be instructed to check the correct pick up of the vehicle before work commences.

Electrical connections:



Danger

A lift operated by electrical power must have a fixed device at an easily accessible place, so that the lift can be safeguarded against unauthorised use when it is no longer in legitimate use (lockable switch to power supply).

Drive power: 2x 2,5 kW (without 230 V sockets)

Power supply: 3 Ph, N, PE - 400 V; 50 Hz

Cable: 5x 2,5 mm²

Safety valve: 3x 20 A slow for type (2.30M SL)
(on site)



Notice

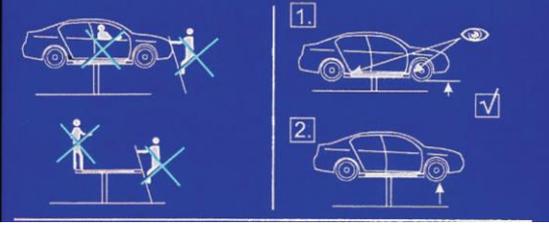
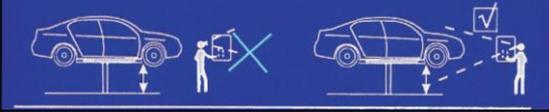
The supply cables can be lead directly to the column head of the control column or through a power channel in the foundation directly under the base plate of the control column.



Notice

If power sockets are installed on the lift or the control cabinet, these must be secured separately by the operator via an FI switch.

Description of The Manual Sticker

Picture	Description
	<p>Before using the lift, read the instruction manual carefully. Only qualified personal are permitted to operate the lift! Age restrictions may also be relevant, check for specific regulations prior to first use.</p>
	<p>The carrying of people is not permitted.</p> <ol style="list-style-type: none"> 1. Raise the vehicle only by the manufacturers designated lifting points. Raise the vehicle a short distance and check the lifting points again. Then raise the vehicle
	<p>During the movement of the lift, the load must be observed!</p>
	<p>During the movement of the load, no persons are in the vehicle loading area!</p>
	<p>Before lifting or lowering a vehicle check that nobody is in danger, that nothing is leaning against the vehicle and no obstacles are underneath it.</p>
	<p>Loading capacity of the Lift! Do not overload the lift!</p>
	<p>The load distribution should not exceed the ratio 3:2</p>
	<p>Danger! Electrical current-carrying parts (for example main switch, contactors „!“ Electric shock when touching of energized electrical parts Electrical power consumption!</p>
	<ol style="list-style-type: none"> 1 - Please read the manual and the inspection logbook. 2 - Visual check 3 - Grease with multi purpose grease 4 - Lubricate with Oil - for this lift use grease 5 - Keep clean and greaseless! 6 - ph-neutral detergent only <p>A - Maintenance period monthly! B - Maintenance period quarterly! C - Maintenance period half-yearly!</p>

<p>Please keep the pick up support clean and greaseless</p>		<p>See chapter Ribbed drive belt</p>
<p>Please keep the lifting arms clean and greaseless</p>		<p>Lubricate the lifting spindle monthly with Spindle-Oil!</p>
<p>Please grease the functional areas of the lifting arm retainer periodical!</p>		<p>Lubricate the rollers and the running surface with multi purpose grease at least twice a year!</p>
		<p>See chapter Safety lock device! (load nut failure)</p>
		<p>See chapter "Cleaning, care and maintenance instruction"</p>

Delivery and Installation Requirements

Standard Delivery

Invoiced with standard freight charge: A forklift must be made available at short notice. Weight of the lifts: approx. 650 – 2700 kg, depending on lift type.

Moffat Delivery

A truck with off loading equipment invoiced with increased freight charge.

Preparation for installation

Prior to installation the following must be arranged by the owner/operator:

- ◆ Preparation of the groundwork (see foundation).
- ◆ Laying of electrical connection to place of setting up.
- ◆ Laying of compressed air connection to place of setting up (if necessary).
- ◆ Transport of lift to place of setting up.

Minimum foundation requirements

The foundation surface must be flat and horizontal for all lifts. The foundation must correspond to the general guidelines for foundations (DIN 1054 or equivalent). Lifts can be anchored with anchor bolts, chemical bolts or through bolts, minimum strength 8.8 and washers.

Installation by Approved Installer

Continental Technical services will arrange installation for the following subsequent to purchase from new:

- Fixing to the floor.
- Assembly of the lift. For setting-up of the lift, additional personnel, and/ or auxiliary lifting means may be required and must be provided at short notice.
- Electrical functional check and trial run (final mains connection that must be carried out by an electrician arranged by the owner/operator).
- Permanent connection of cables between posts on lifts only if the cable bridge is used.
- Safety acceptance.
- Short instruction.

Average time for installation (providing the conditions above are met):

2-Post-Lifts - approx. 4 hours working time (with base frame approx. 3 hours)

With the 2-Post-Lift 2.30M SL, the electrical connection cables are only assembled permanently with the use of a cable bridge (optional accessory). Otherwise these cables must be fixed by the operator.

Assembly cost rates and invoicing

The performances of the customer service stated are invoiced in accordance with the respectively applicable terms and conditions of assembly, hourly rates and lump-sum travelling amounts. Fixing material is not included in the scope of delivery of lifts.

LOLER checks

In addition to the check prior to the initial commissioning of the lift, Loler regulations demand regular safety inspection per year by experts.

Attention!

Installation

Before installation of the lift, secure the area preventing access to unauthorized persons.

The customer is responsible for preparing the ground ready for installation and the condition of the local site (for example: the ground under the foundation). Concrete with a minimum quality of C20/25 and a depth according to Floor Fixing section.

Foundation

Most Continental 2 post lifts are of a “baseless” design, therefore the floor fixing is critical. The entire load (dead weight of lift and moving weight of vehicle) are transferred to the floor through the anchor bolts.

Before setting the lift up, it is imperative to be certain about the existing base. For 2-post lifts one test drilling for each post and a foundation check should be undertaken prior to full installation.

When installing the lift on a suspended floor, the floor’s suitability must be verified by a structural engineer, or other competent person.

Only after checking of the available ground, a decision can be made about the corresponding fixing system!

The penetration depths of the anchors (anchors are **not** supplied) have to be followed (see instructions of the anchor manufacturers). Otherwise the safety of the lift may be compromised.

The correct length (L) of the active part of the anchor bolt is obtained by adding the measurements „h“ + thickness of the floorcover and height of the files and the height of the installation base. Drill size and the tightening torque are in accordance to the bolt manufacturers instructions.

To achieve a perfect installation, the unbreakable concrete floor should be flat and level (min. C20/25, frost proof) with the corresponding load capacity.

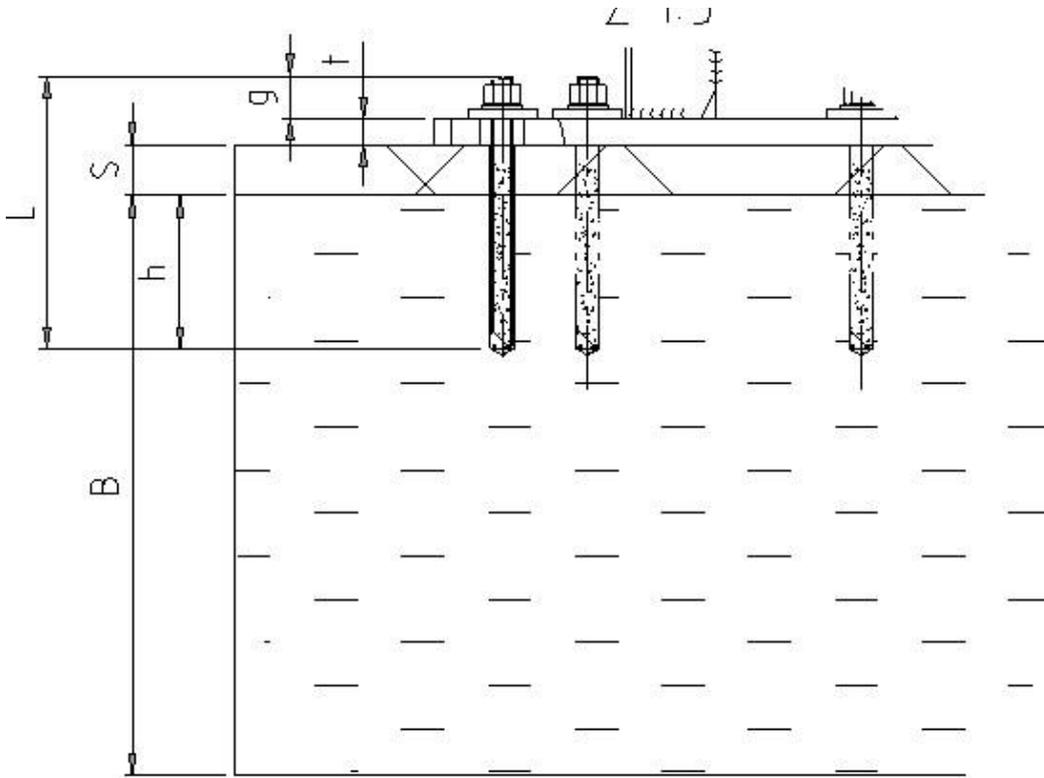
According to the type of anchor used for the 21⁺¹ mm hole in the base plate, the washers must be of sufficient size!

Floor fixings for lifts up to 4000kg

- B = floor thickness (210 mm)
 - H = anchoring depth of anchors
 - s = thickness of ground covering til concrete C20/25
 - t = thickness of component (E.G. Tiles)
 - g = threaded length
 - L = length of anchors
 - X = according to indications of manufacturer
- Length of dowels: $L = h + s + t + g$

Depending on the type of anchoring, use appropriately sized washers for 21+1 mm drill holes in the baseplate!

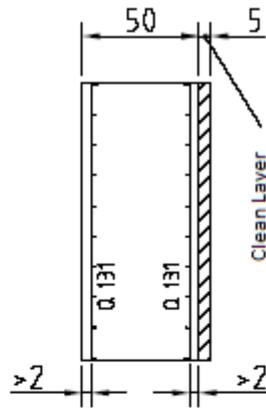
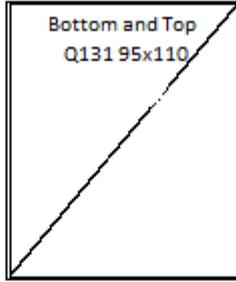
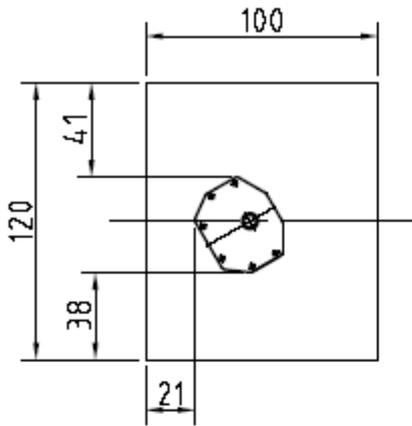
Dimensions in mm



Foundation work for lifts up to 4000kg

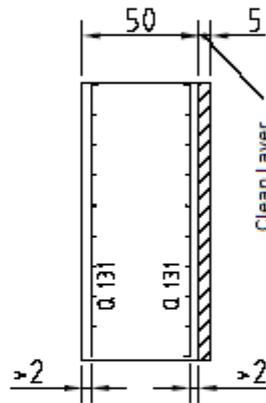
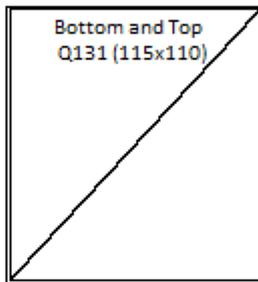
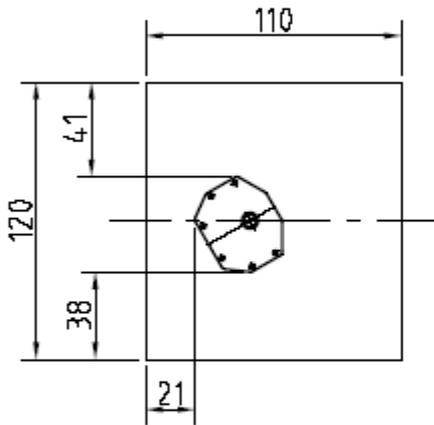
Single Foundation

Reinforcement



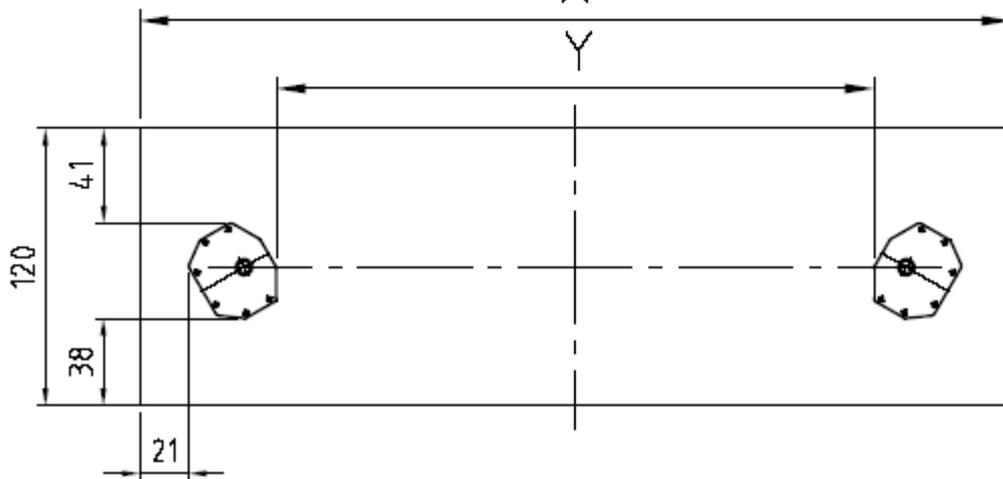
Underground concrete without damage
 Permissible $\sigma_b = 200 \text{ kN/m}^2$
 C20 /25, BST 500 M
 Concrete floor > 2,0 cm

Formwork



Permissible $\sigma_b = 150 \text{ kN/m}^2$

Stip Foundation



2.30M SL
 X = 3740 mm
 Y = 2570 mm

Thickness: $d \geq 21$ cm

Necessary a_{sx} = 2,57 cm²/m - lower reinforcement BST 500 M

Necessary a_{sxy} = 3,77 cm²/m - upper reinforcement BST 500 M

Column fixing: e.g. Hilti HVA/HAS-M12x110 mm or equivalent (not supplied)

Important:

- Always follow the assembly instructions and keep to the min. anchoring depths specified by the dowel manufacturers!
- Tests on existing concrete floor are necessary for anchoring!

Fixing specifications & power values

Lifts:	Type:	Manufacturer: Description of type:	Torque	Individual fundaments Fundament dimensions:	Concrete floor (hall floor) Fundament- characteristics	Power values			
2.30M SL	2 Post	For example: Shear connector Hilti HVA/HAS- M12x110 (12)	Anchoring depth see manufacturer 40 Nm	Length In direction of travel 120c m	Width in direction of travel 100c m	Min. thickness Without floor covering 21 cm	Quality of concrete C 20/25	Anchoring depth dowels see manufacturer 11 cm	Important: all fuses, „slow acting” 400 V/ 50 Hz/ 3x20 A

The setting up of lifts is only acceptable, and will only be carried out if the minimum requirements are fulfilled at the place of installation.

The bolt manufacturers instructions must be followed!

Concrete Quality

All groundwork must have concrete of C20/25

Important instructions for assembling the 2-Post-Lift!

1. The assembly should be carried out by qualified staff in accordance with the construction and operating instructions (otherwise the guarantee will be invalidated).
2. Check that all parts have been delivered before commencing assembly.
3. Final installation checks must be carried out according to BS 7980.
4. Test instructions are to be complied with.
5. Instructions for the foundations of the lift must be strictly observed.
6. Ensure that the motor axis is hanging parallel to the spindle axis. For any adjustment please loosen the screws from baseplate and re-tighten them.
7. Check the locking mechanism of the swing arm, then ensure that the bolt is vertical and parallel to the front of the column.
8. The lift is preprogrammed in the factory and must be adjusted to local conditions. Check that the foot protection facility is at the correct height (compulsory stop and signal tone).
9. Be aware of the alignment (outward lean) of the columns.
10. Check the gap between the steering frame and the tension band (correct and grease the back of the tension band when necessary).
11. The self-securing swing arm screws only reach complete tightness after 24 hours (check for a gap of 1 to 2 mm between the screw head and the swing arm bearing)
12. Observe maintenance schedule (swing arms, spindles, bearings of turntable).
13. For lifting, use all 4 swing arms only at permitted lifting points by the manufacturer.

Thorough examination is required subsequent to installation and prior to first use. This cannot be undertaken by the lift installer as specified in BS 7980.

Installation and initial operation

In order to install a lift correctly the concrete must be flat and horizontal and have the required load strength (minimum C20/25). First of all the posts are set up on their positions. The distance dimensions of the posts base plates are shown in the relevant sketch of dimensions.

In accordance with EN1493 there must be a safety margin of 500 mm minimum between the lift columns and any other obstacle (wall, etc) and, similarly, between any load to be raised and another obstacle.

After repeated checking of the set-up situation, the baseplate is dowelled through the existing drilled holes (the base plates must lie on their entire surface!). According to the chapter "Foundation", 12 anchor bolts M12 are required. Other anchor bolts can also be used. Dowels are not supplied.

The lift columns should be vertical, they should never lean inwards. A slight outward lean (up to 10 mm) is desirable. If necessary, extra shims can be placed between the column base plates and the floor for levelling purposes.

In the slave post there are the cables which are connected to the main post. These cables will be passed through an empty tube (install on site) to the main column. A cable bridge can also be used for this connection. When installing the cables it is important to ensure that the wires are not mixed up! Before commencing the electrical work, please read and observe the instructions regarding initial installation (following pages) carefully!

The electrical installation for the lift must be carried out by a qualified electrician according to the circuit diagram and local regulations. The lift should operate in accordance with the travel direction symbols when the main drive switch is activated. If necessary, change the direction of turn by swapping around the 2 phases.



Important:
Electrical checks must be carried out following the initial installation and after repairs. Also alterations to the installation as described in BS 7980.

Grease the take-up bolts thoroughly. After attaching the support arms is necessary to consider that the pawl engages the teeth on the support arm.

The lift has to be lubricated at the column according to the lubrication schedule (following pages).

Securing of the lift apparatus (eg. swing arms) against being disconnected:

Secure the eye bearing with a hexagonal safety screw on the take-up bolt so that there remains a gap of 1 to 2 mm between the eye and the screw head.

Attention: The self-securing screws only reach complete turning security after 24 hours.

The guide brackets for the flexible cover must be sufficiently spaced from the column so that the flexible cover does not catch and get damaged. The guide brackets may need to be adjusted. The spindles must be greased.

Should there be a noise from the flexible covers when the lift is in drive then multi-purpose grease can be applied to the back of the cover. By doing a test run, check or reprogramme the limits and safety stop. After examination of the function of the lift by experts, the start-up can take place.

Testing of lifts

The examination of lifts must only take place according to BS 7980 and the standards and specifications listed therein.

Attention!

When loading/unloading, moving, installing, assembling or dimishing the lift all precautionary measures are specified by rules for the prevention of accidents (safety helmets, gloves, shoes) are to be obeyed. These rules are in accordance with the laws of the appropriate country.

Disposal of the lift

The lift should only be disassembled and be disposed only through an authorised engineer. The same regulations must be considered, as when the assembling of the lift. For the case of scrapping, all materials must be disposed in accordance with the WEEE directive in addition to any other local laws or regulations.

Call Continental technical services for details of local service agents.

Product description

The lift consists of the main column and a slave column. In both columns are to be found the lifting spindles and the lifting carriages with load bearing apparatus.

The drive turns the lifting spindle. On the spindles are nuts which are attached to the lifting carriage which, according to the turning direction of the drive, moves up or down and thus performs the raising and lowering operation. The lifting carriage is borne on maintenance free roller bearings within the column.

In each column is a motor driven belt which turns the spindles. The even running of the lifting carriages is ensured via an electronic synchronizing governor. Any lack of synchronization in the lifting carriages (eg, because of an uneven load, lack of lubrication, etc) is regulated by the synchronization control to within a distance of approximately 10 mm. The advancing lifting carriage is briefly stopped until the slower carriage reaches the same height. This check may be observed several times in the course of the lift.

By shifting the main drive switch at the control box the lifting motion corresponding to the movement symbols is switched on. Similarly, it is stopped again by its release and via a programmable electronic device in the upper and lower position. For safety reasons, the downward movement can be programmed to automatically stop at a height of 200 mm (between the floor and the underside of the lifting apparatus). By releasing and the re-engaging, the main drive switch the carriages continue lowering to the sound of a warning tone.

The main drive switch goes automatically to the stop position when released and the movement of the lift is stopped in the corresponding position of the load bearers. In addition, the lift is equipped with a variety of both passive and active safety devices. An example of this would be the safety device for broken load bearing nuts which transfers the load to a reserve safety nut in the event of a worn thread. At the same time, a mechanical blocking system is engaged which prevents continued movement to the lowered position in the event of worn threads. In this way, unintentional travel on the safety nuts is avoided.

The swing arm lock stops the load arms moving after travelling upward a short distance from the lowered position. This is to prevent the lifting apparatus slipping from the jacking points on the vehicle being raised. Operating safety is paramount!

The heat sensors in the drive motors stop the lift in the event of overheating and only allow the lift to restart after a cooling down period (approximately 10 - 15 min).

The lift Continental 2.30M SL is supplied with asymmetrical brackets. It has a load capacity of 3000 kg and can operate with a max. permissible load distribution of 3:2.

If using the asymmetrical version of the arms, the swing arms have different lengths. The vehicle has to be placed in drive-on direction with the short-double extendable pick up arms in front and the long arms, only single extendable, backwards.

The vehicle to be lifted is positioned so that the front door hinges are close to the lift columns in order to facilitate a wide opening of the doors. It is desirable that the vehicle's engine is towards the short swing arm (the centre of gravity of the vehicle as close as possible to the centre of the lift)! All 4 lifting points are positioned at the jacking points laid down by the vehicle manufacturer!

Practical use of the 2 post-lift

Switch the main switch to the "On" position. Turn the control knob to move the lift in the direction indicated by the arrows. On release of the control knob it returns automatically to the "off" position.

Operating of the lift is only permitted by authorised persons!

The lift is designed only as a vehicle lift, it should not be used for other purposes.

If there are any faults with the lift, turn off electricity, make safe, secure against unauthorised use and contact technical services or an authorized engineer.

See the operation label on the lift column!

Before lifting or lowering a vehicle check that nobody is in danger, that nothing is leaning against the vehicle and no obstacles are underneath it.

Attention:

With some vehicles, higher lifting apparatus is necessary. As an accessory, a set (4) spacing bushes is available. This ensures safe lifting of the vehicle.

When using a drive-on chassis, the chassis must be fully lowered before driving on to the lift.



The total vehicle weight **must not** exceed the authorised capacity and load dispatching.

Only original accessories may be used as load supporting devices (type tested parts), wooden blocks or other devices for load lifting are not permitted. It is advisable that the vehicle should be driven on so that the centre of gravity is between the lift columns (especially with the asymmetric swing arms).

Pay attention to the centre of gravity when working with heavy parts as it can cause the vehicle being raised to fall. Only use the lift as intended: for lifting vehicles. Other, apparently practical uses are not among its intended purposes.

It is forbidden to use the lifts to raise heavy vehicle parts, eg, engines. The swing arms are fitted with automatic blocking devices which work automatically. They will stop the moving of the swing arms after a short lifting distance and release again when lowered by 15 mm.

If the arms have to be swung to a greater height, eg, in order to place a vehicle on a bench, then a hand bolt can be installed.

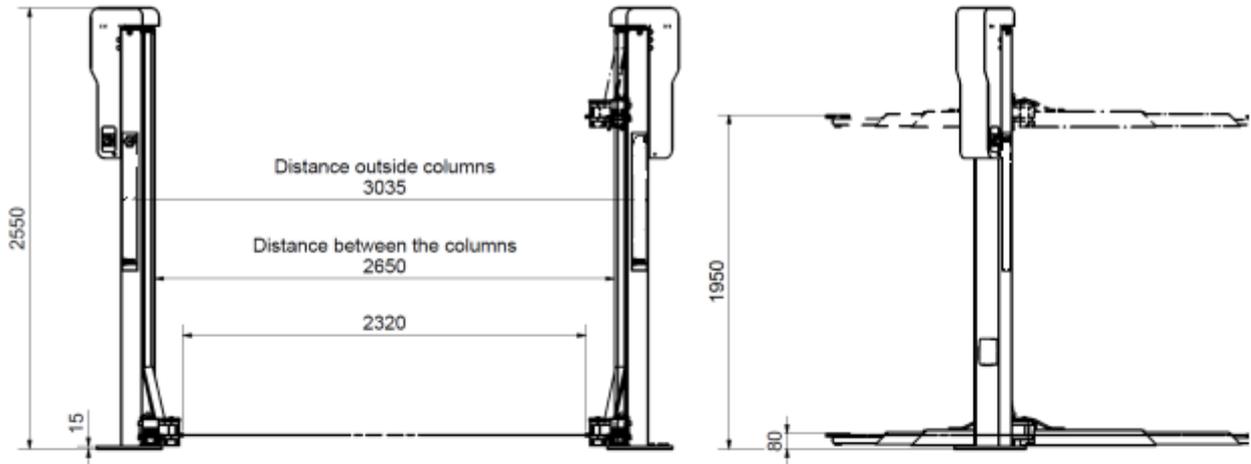
In order to guarantee a safe lift, the vehicle must be lifted at all 4 lifting points as defined by the vehicle manufacturer.
Check the safety and stability of the vehicle after having raised up a little.

Technical Ratings

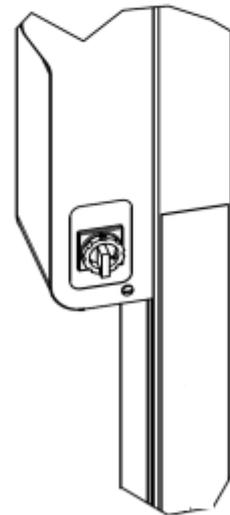
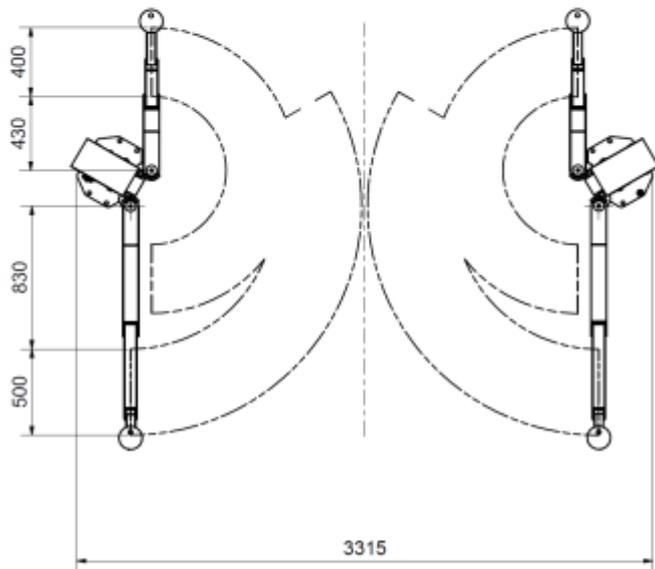
Type:	2.30M SL
Remark:	with asymmetric swing arms
Width (mm):	3315
Height (mm) ca.:	2550
Max. vehicle width (mm):	2320
Range (mm):	1.920
Lifting height (mm):	2005
Min. arm clearance (mm):	85
Lifting time (sec):	35
Net weight (kg):	500
Capacity (kg): *	3000
Motor power (kW):	2 x 2,5
Voltage (V):	400
ED-power:	S3 - 10 %
Current (A):	16
Fuse rating (A gl):	20
Noise level (dB(A)):	78

* The load distribution should not exceed the ratio 3:2!

Dimensions 2-Post-Lift
Continental 2.30M SL



B (1 : 5)



Safety lock device (load nut failure)

Your lift is equipped with a safety lock that stops the operation if a nut has failed. For explanation of the function of the safety lock device, please check the following sketch.

Fig. 2 and 3 shows the position of load nut and respectively safety nut with the angled safety catch between nuts on the driving angles. The load carrying device are enclosed within the lifting carriage and cannot be accessed from outside.

When using the lift in normal operation, there is a clearance between safety nut and carriage which allows the safety nut to run without load.

If the thread of the load nut is worn out, the load nut will fail. In this case the carriage falls on the safety nut and activates the safety lock which presses against the back wall of the column (see fig. 3).

If the lift is running on the safety nut once, it can be lowered. If the carriage is moved upwards again, the safety lock catches on the back wall of the lift stops the lift rising.

The locking mechanism must not be disconnected under no circumstances.

If the lift stops about 10 mm above the ground level, the safety catch is engaged.

Load nut failures can only be repaired by qualified lift engineers!

To prevent load nut failure, the following check should be carried out periodically:

Faulty or improper repairs be a danger to people remain below the lift!!!

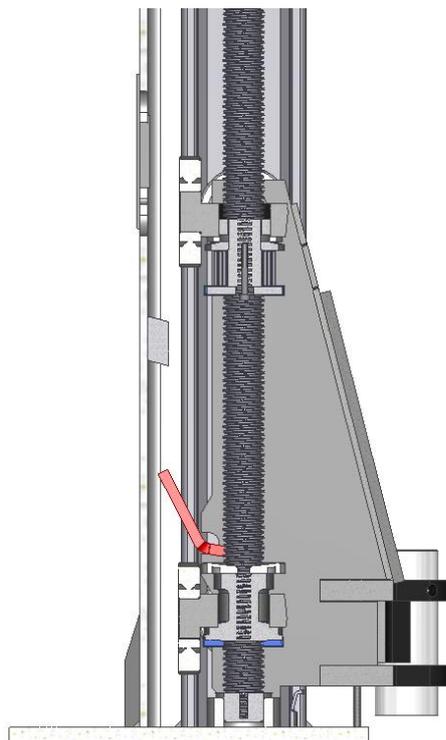
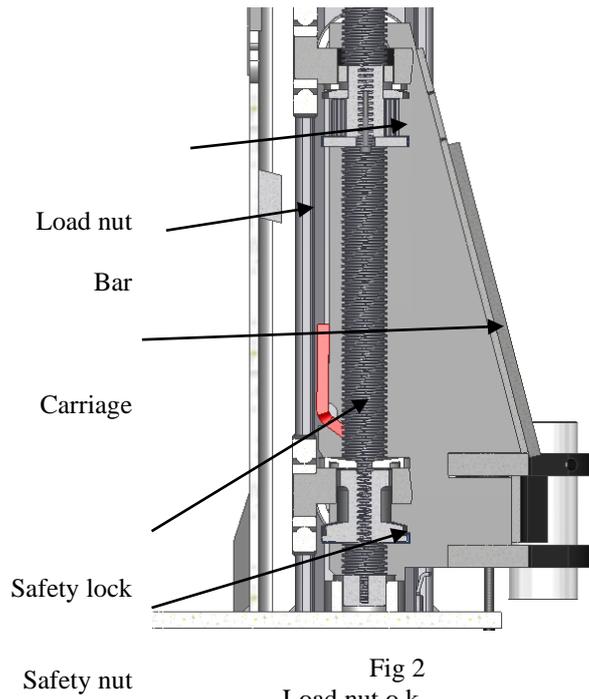
Load nut testing

With inspection nut „trapezoidal thread Tr 40x5”, available as special accessory (Ident-Nr.: 49053.2).

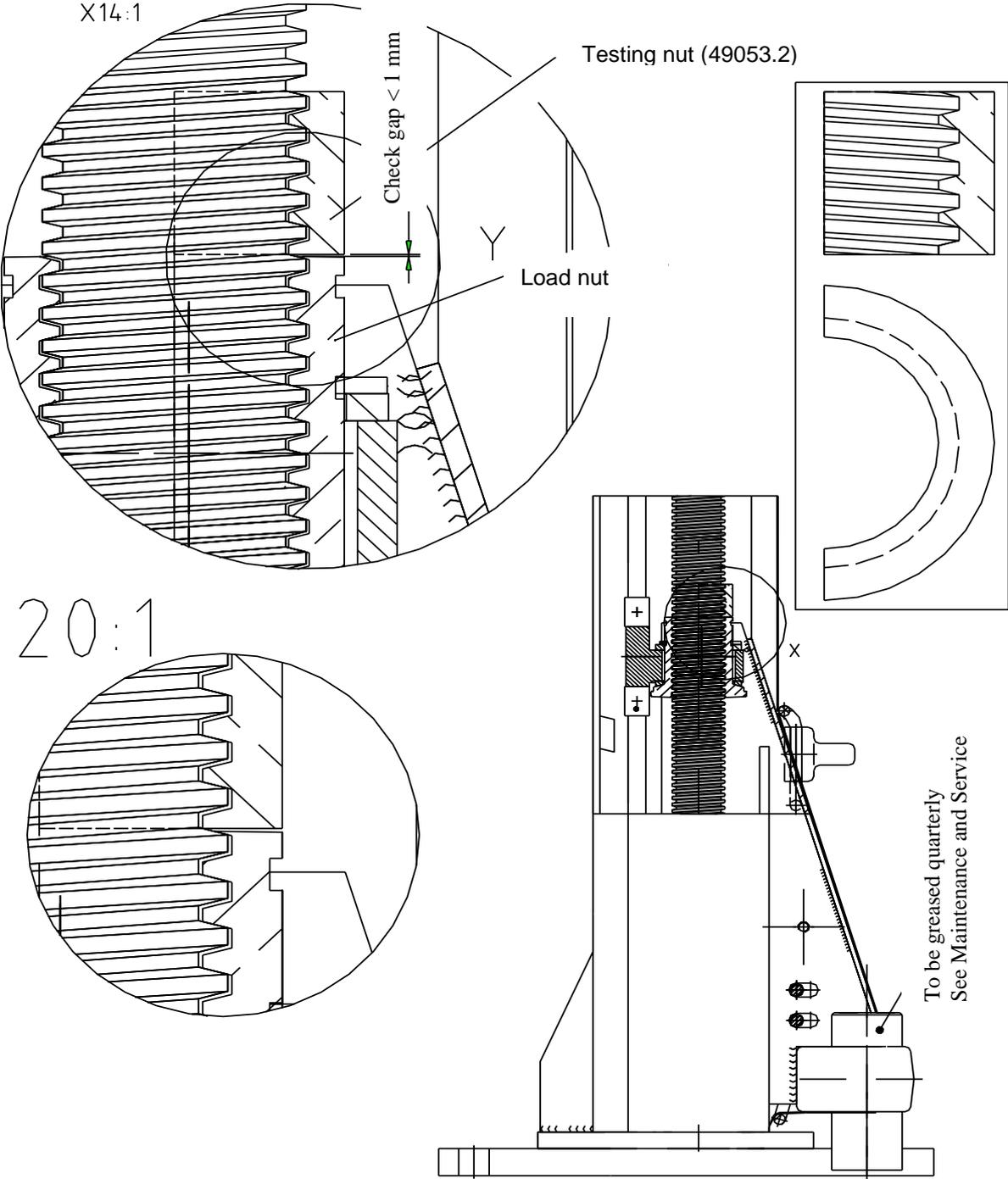
1. Remove the flexible cover so that the load nut can be seen in the carriage.
2. Using a bar, lift the carriage as and hold.
3. Fix the testing nut on the spindle, turn anti-clockwise until it touches the load nut
4. Lower the carriage
5. Measure the gap between the load nut and the testing nut with a gauge or vernier.

If the wear is over 1mm, the load nut must be replaced!

Load nut Failure

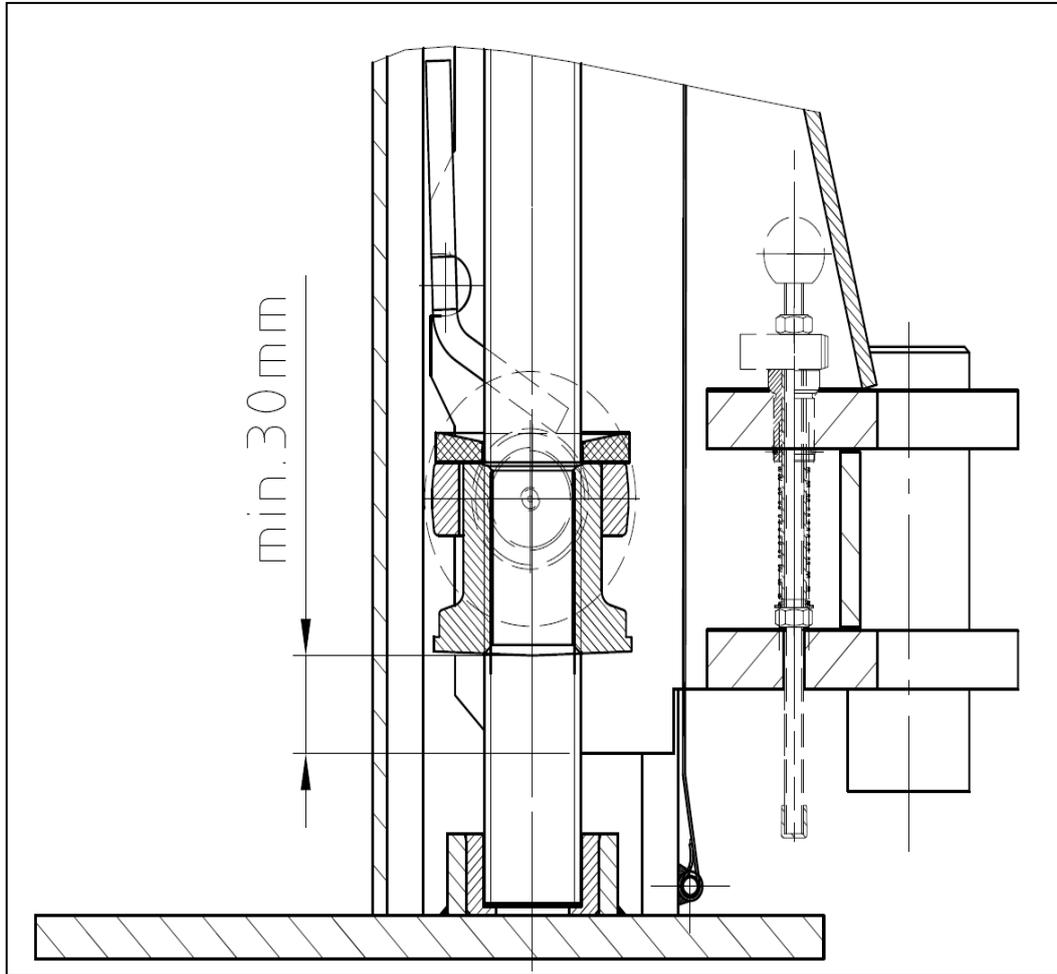


Load bearing nut testing



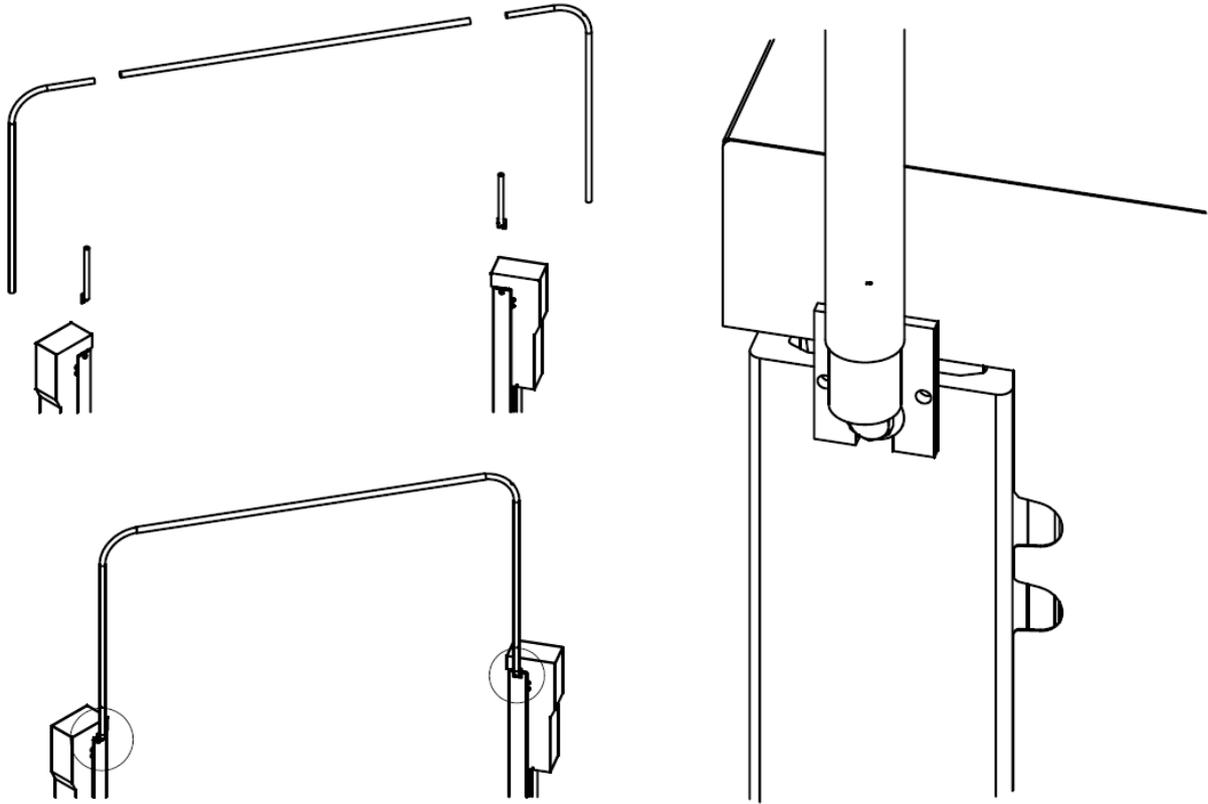
Changing the Bolts

By changing the bolts please take care of the distance between the bottom line of the carriage and the bottom line of the lock nut to be minimum 30mm.



Assembly wire link

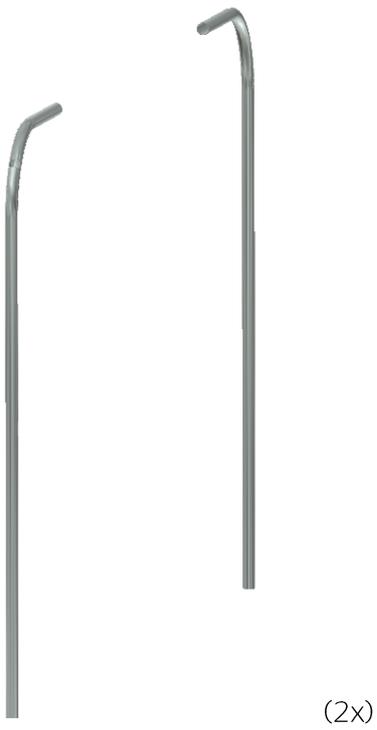
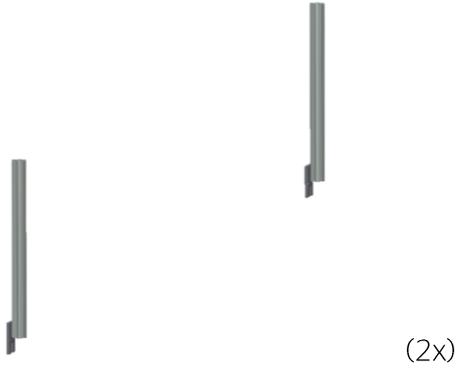
According to the following representation, first, the screws and washers of the motor holder have to be unscrewed. Now the angle support is fixed to the main and auxiliary post as represented.



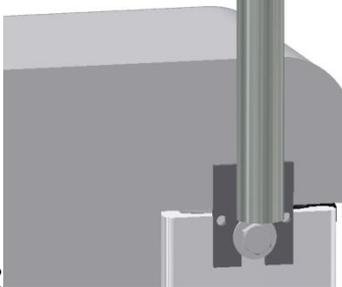
If a control panel is planned at the auxiliary post, the cables for the main switch, the supply, the potentiometers and sockets must be pushed through the pipe of the wire link altogether, starting from the auxiliary post. Then the two halves of the motor cover have to be mounted. Finally, the halves of the motor cover are fixed with pipe clips at the pipe of the wire link.

Assembly wire link Original
Order-No.: 2910002833600

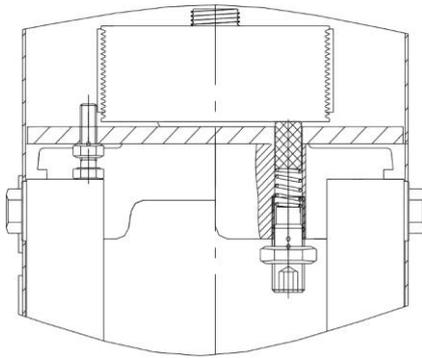
Delivery:



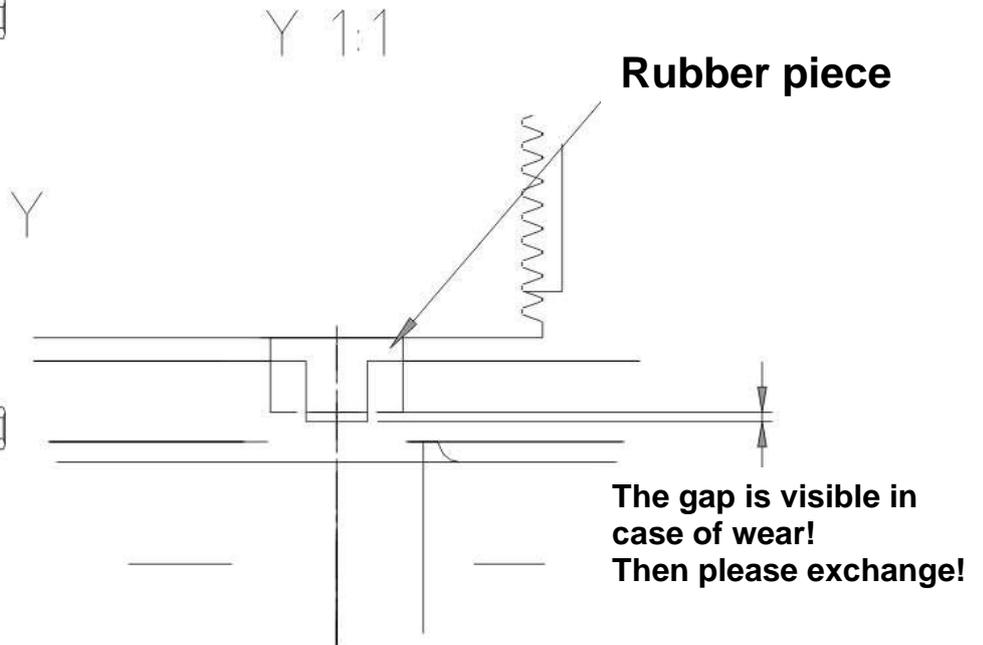
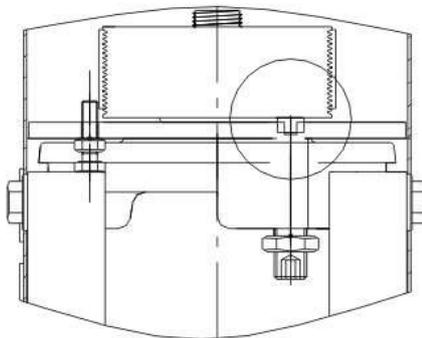
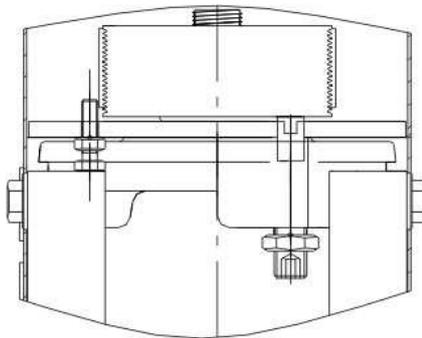
Tool: Wrench SW19 and SW18 and Screwdriver (for clamp)

Description of the steps:	Pictorial representation:
<ol style="list-style-type: none"> 1. Loosen the appropriate tool so that the mounting plate fits between the disc and the column. 2. Mount the fastening tab on the operation column as well as on the secondary column and tighten the screws with the washers. 3. Connect pipes 92° to mounted pipes 4. Intermediate the intermediate pipe (connection pipe (2505mm long)). 5. Use pipe clamps to secure the intermediate pipe. 6. Insert the cable grommets into the corresponding holes in the connecting pipes. 	 <p>Image 1</p>  <p>Image 2</p>  <p>Image3</p>  <p>Image4</p>

Mechanical gyrating masses regulation

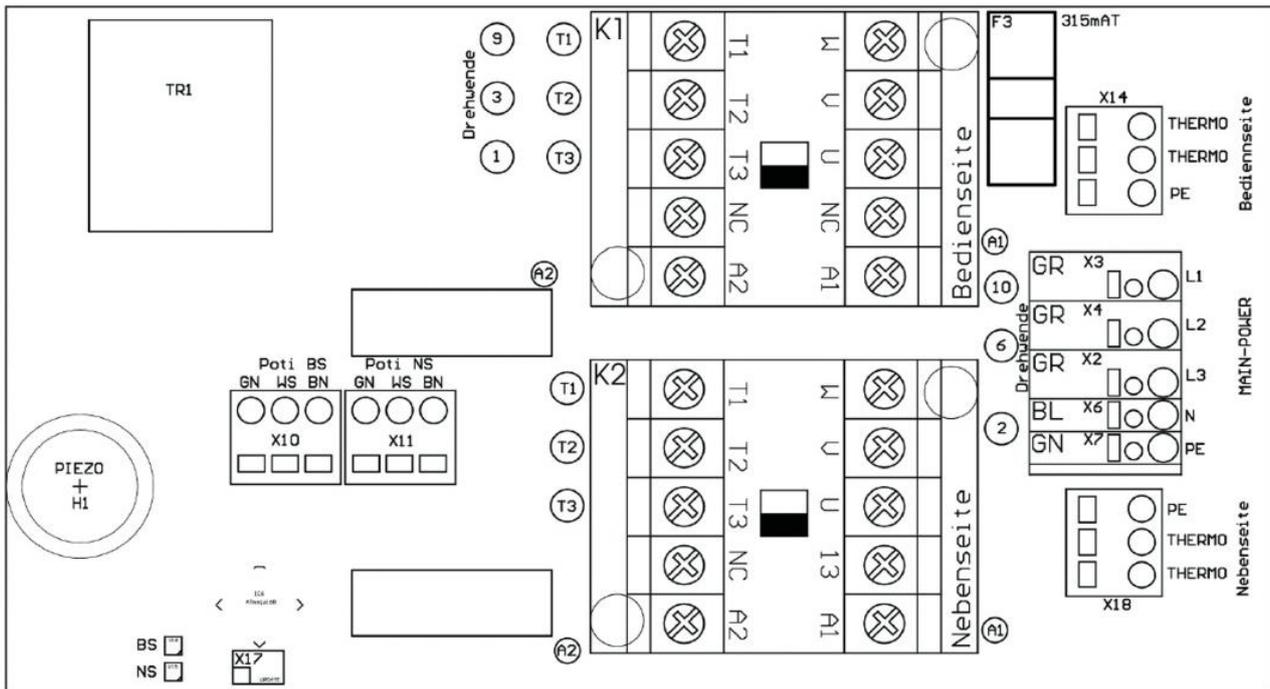


The rubber piece pad at the motor holder plate must be tensioned by the hexagon screw, in such a manner that the spindle on the big v-ribbed belt pulley can be turned with approx 10-12 Nm (types 2.35, and 2.40 - with the lifting arms hung in! This corresponds approximately to the force required to turn the pulley with one hand. (Attention: Please loosen the spindle guide before adjusting the mechanical synchronisation device!)



When the motor cover is removed and the lift is without load then the big belt pulley should be rotatable by hand (rough-running). The correct tension of the belt is 194 – 224 Hz.

CPU board – Connection and initial operation



1. Connection of supply – right rotary field.
X3 - L1 ; X4 - L2 ; X2 - L3 ; X6 - N ; X7 - PE
 2. Connection motor slave column on K2 – slave column
wire 1 – U ; wire 2 – V ; wire 3 - W
 3. Connection of thermo motor slave side and PE.
wire 4 - THERMO ; wire 5 - THERMO ; PE - PE
Attention: take care about correct connection of PE!!!
 4. Connection of potentiometer slave column.
GREEN – X11 - 6 ; WHITE – X11 - 7 ; BROWN – X11 - 8
 5. 400V AC POWER „ON“ – Drive mode.
Lift is moving upwards.
- Attention:** Please observe sequence!!
6. Turn switch „UP“ – slave side moves downwards.
Interchange supply L1 and L2.
 7. Turn switch „UP“ – slave side moves downwards.
Interchange wire 1 - U and wire 2 - W on contactor K2- slave side.

Control unit black box



Item-No.:	description:
2910002823400	PCB CPL with contactors
2910002823400	operating turn switch

Emergency lowering

Important:

During emergency lowering procedure, the automatic end limits are switched off. If lowering the lift onto mechanical limit stops the lift might be damaged

Notes:

The procedure described below, for lowering in an emergency case may only be executed by authorised and trained personnel. A second person should watch this procedure from outside the operating area to ensure the safety of the operator and vehicle.

The emergency lowering procedure must be terminated immediately, if any danger should arise. Restarting the emergency lowering procedure should restart when cause of the danger has been removed. It is only possible to lower the lift once, making sure that the arms do not touch the floor.

Operation of emergency lowering procedure:

An emergency lowering by using the motors can be necessary if the electronic controls fail. If other elements fail, then the lift should be lowered manually (by turning the bolt on the large pulley). The main switch must be on position "0" or off. Both contactors can be used for any emergency lowering once turn switch 0 to 1. Position of main switch must be 1.

If both carriages are not at the same height, there is the possibility by locking only one contactor from „0“position to „1“position and the arms can be brought on the same level. This levelling should be done in small steps and with increased attention.

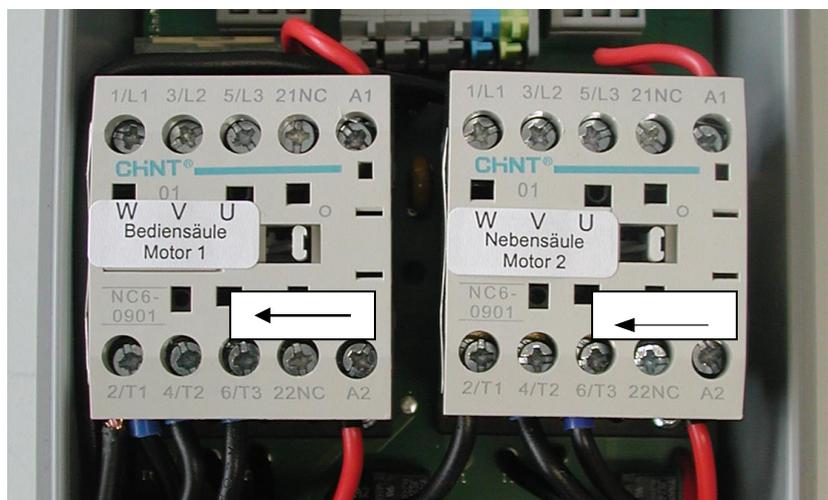
Locking the contactors

Through mechanical locking of the contactor, the emergency lowering can be carried out.

Warning:

No automatic end switching-off

When the maximum necessary lower position of the load carrying equipment has been reached, the emergency lowering can be stopped immediately. The lift can be used again, only after removing of all defects by authorised personnel.



K1 – Contactor main column Motor 1
K2 – Contactor slave column Motor 2

You may use different contactors.

ABB contactor
Colour: black

Condor contactor
Colour: grey

Maintenance and service

Before doing any servicing or maintenance the lift should be isolated from the electricity supply and protected from any unauthorised use!

For a long lift cycle and constant readiness of the lift the maintenance is the key. In certain conditions (e.g. increased use, low temperature, etc.) the spindle must be greased separately. At least once a month you should check that the oil provision is sufficient.

After installation and commissioning there may be some stretching of the power transmission elements, depending on the type of lift. For example, stretching of the drive belt, chains or cables, (consequential adjustments may be required), adjustments to the safety systems, etc. These changes do not constitute wear and tear of the parts. They are routine aspects of running in and must form part of the customer's maintenance and care. With lack of care break downs can occur which are not covered by the guarantee. In this case, any costs arising are the responsibility of the owner/operator.

The swing arm joints must be greased when necessary and at least quarterly (oil underneath the safety screws). Where lifts are exposed to the weather, the lubrication programme should be doubled (see the lubrication instructions on the main column).

The load bearing apparatus must always be kept in working condition. The buffer points must be kept clean and grease-free. The spindles of the turntables must be greased. They must not be able to unscrew themselves completely.

Maintenance Schedule

Abstract from „operation label“

	1	12x /ann	A
	2	4x /ann	B
	3	2x /ann	C
	4		
	5		
	6		

Ident-Nr.: 529321

See chapter Ribbed drive belt

Lubricate the lifting spindle monthly with Spindle oil!

Lubricate the rollers and the running surface with multi purpose grease twice a year!

See chapter Safety lock device! (load nut failure)

Please keep the pick up support clean and greaseless!

Please keep the lifting arms clean and greaseless!

Please grease the functional areas of the lifting arm retainer periodical!

When the lift is used heavy-duty, please shorten the maintenance period!

Icon	Meaning	Icon	Meaning
 1	Please read the manual and the inspection logbook.	 5	Keep clean and greaseless!
 2	Visual check	 C	Maintenance period half-yearly!
 3	Grease with multi purpose grease	 A	Maintenance period monthly!
 4	Lubricate with Oil	 B	Maintenance period quarterly!

Cleaning, care and maintenance

Workshops have to endure a lot in the way of wear and tear, starting from the floor up to the installed equipment. The valuable equipment that helps you earn revenue should last a long time, this requires comprehensive protection from dirt and aggressive substances that may lead to corrosion.

Damage to external surfaces, must be immediately repaired. If these repairs are not made immediately, permanent damage to the coated surface may result. Repair and clean damaged areas with an abrasive paper (grain 120). After this is complete, use a suitable paint to touch up the repaired area. (Observing the correct RAL Number).

If the equipment has any zinc surfaces, use abrasive paper (grain 280). White rust can result from moisture lying in certain areas for long periods of time. Poor aerating can also result in rust formation.

Rust may result from mechanical damage or wear in addition to aggressive sediments (de-icing salt, liquids) or insufficient cleaning in particularly where two metal surfaces are in contact.

The lift is only to be cleaned using water with small additives of neutral or slightly alkaline detergent. Parts can be scrubbed with cloths or sponges. Please avoid hard scrubbing. The maximum application time of the detergent should not take longer than one hour.

The water temperature should not rise above 25°C. Immediately rinse off the parts with clear water after the cleaning process.

A preservation e.g. with commercially available body-cavity sealing (transparent) can offer additional protection to the coating. Capillaries, that can be found on every surface coating can be closed off by these preservatives. The preservation should be applied to each and every spot that has open edges or shows wetness. Except for the topside of the driving rail.

Attention!

- Don't use solvents that contain ester, ketone, alcohol or alkyl halides.
- Don't use any scratching abrasives.
- Don't use any acidic or strong alkaline detergents and surface-active.
- The detergents can only show 25°C max. Don't use steam cleaner.
- The surface temperature of the parts being cleaned should not go above 25°C.

The time intervals for cleaning and preservation are dependent on the environmental stress.

We recommend cleaning of critical parts (drip edges, heavy contamination or wetness) over a period of 4 to 6 weeks with preservation afterwards. It is the responsibility of the owner/operator undertake this maintenance or ensure it is completed.

Ultimately preservation and cleaning preserves the visual appearance of the lift and both measures contribute to saving consequential costs.

Within the scope of the regular inspection the following has to be checked:

Regular safety check and maintenance Date of inspection..... Serial number:				
Type of Check	OK	Defective or Missing	Verification	Comments
Type plate/label				
Short operating instructions				
Sticker “max. capacity”				
Sticker lubrication / maintenance plan				
Condition of automotive-lift				
Function button/switch for lifting				
Function button/switch for lowering				
Emergency cut out/lowering system				
Function CE stop + acoustic signal				
Condition lockable main switch				
Condition of rubber pads and threads				
Condition function foot protection				
Condition bolts and bearings				
Condition of the paint or coating				
Construction (deformation, cracks)				
Torque of the dowels (bolts)				
Condition of Poly V-belt and pulleys				
Tension of Poly V-belt				
Function/condition of spindle				
Function locking system of lifting arms				
Function moveable lifting arms				
Condition crossbeam and cable channel				
Condition of the covers				
Condition spindle and load carrying nut				
Condition load carrying nut wear pin				

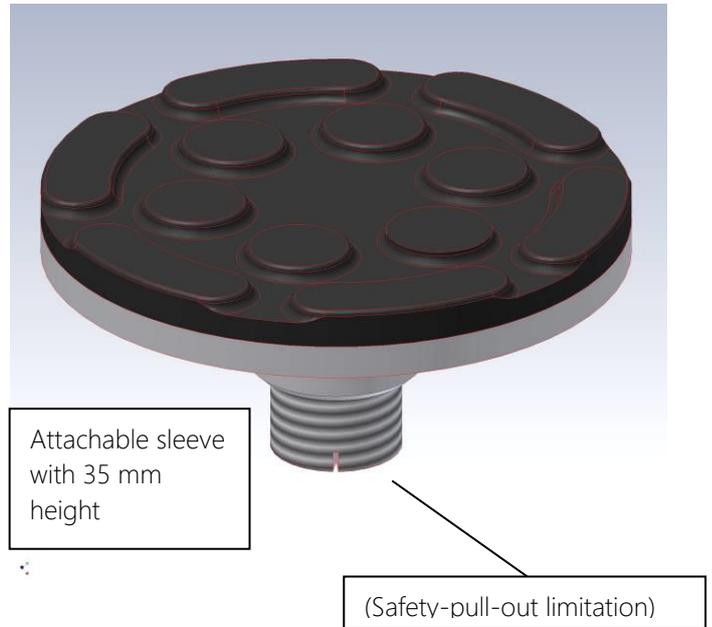
Condition safety pin of the pads				
Stability of the lift				
Condition of the concrete				
Condition of the electrical cables				
Function test with vehicle				
Function test full range, stop to stop				
Function equalization of the lift				
Safety ring at lifting arm bolts				
<p>Completed document should remain with the manual for the life of the equipment. Compliance with BS 7980 takes precedence where there is any conflict with this document. Additional Comments (<i>use additional sheet if required</i>)</p> <p>Safety check carried out by:</p> <p>Name of company:</p> <p>Name and address of the competent person:</p> <p>Result of the Check:</p> <p>5 Continued use not permitted, verification necessary</p> <p>5 Continue to use, repair failures by</p> <p>5 No faults, continue to use.</p> <p>Signature of the expert.....</p> <p>If failures must be repaired: Failures repaired on: Signature of the operator</p>				

These references do not claim for completeness and have to be adjusted to the respective lift to be checked.

Ribbed drive belt

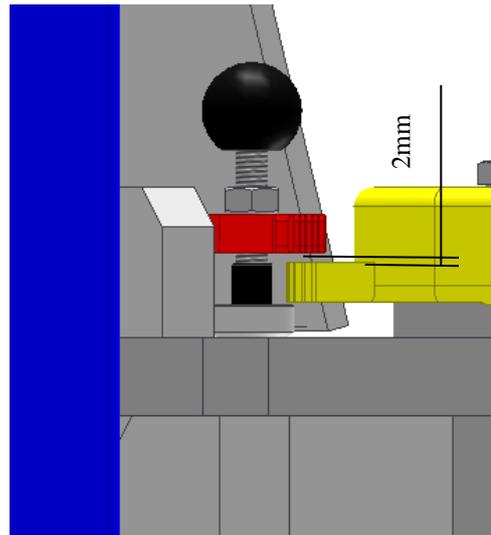
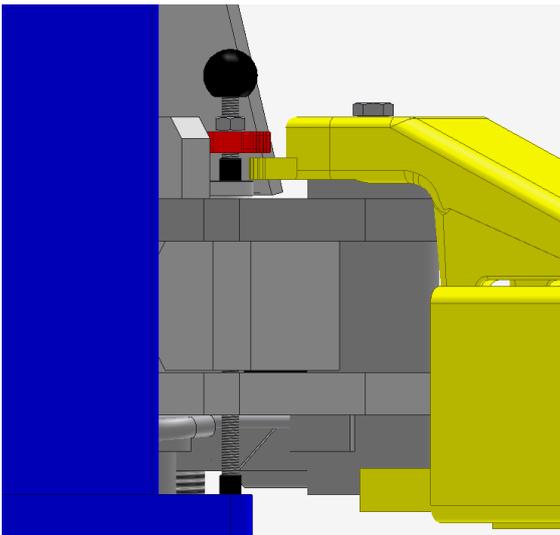
A Belt Tension Tester is required to check the correct tension of the belt. When the motor cover is removed and the lift is without load then the big belt pulley should be rotatable by hand (rough-running), 220 - 240 Hz. During operation: 195 - 220 Hz.

Pick up supports with attachable sleeve

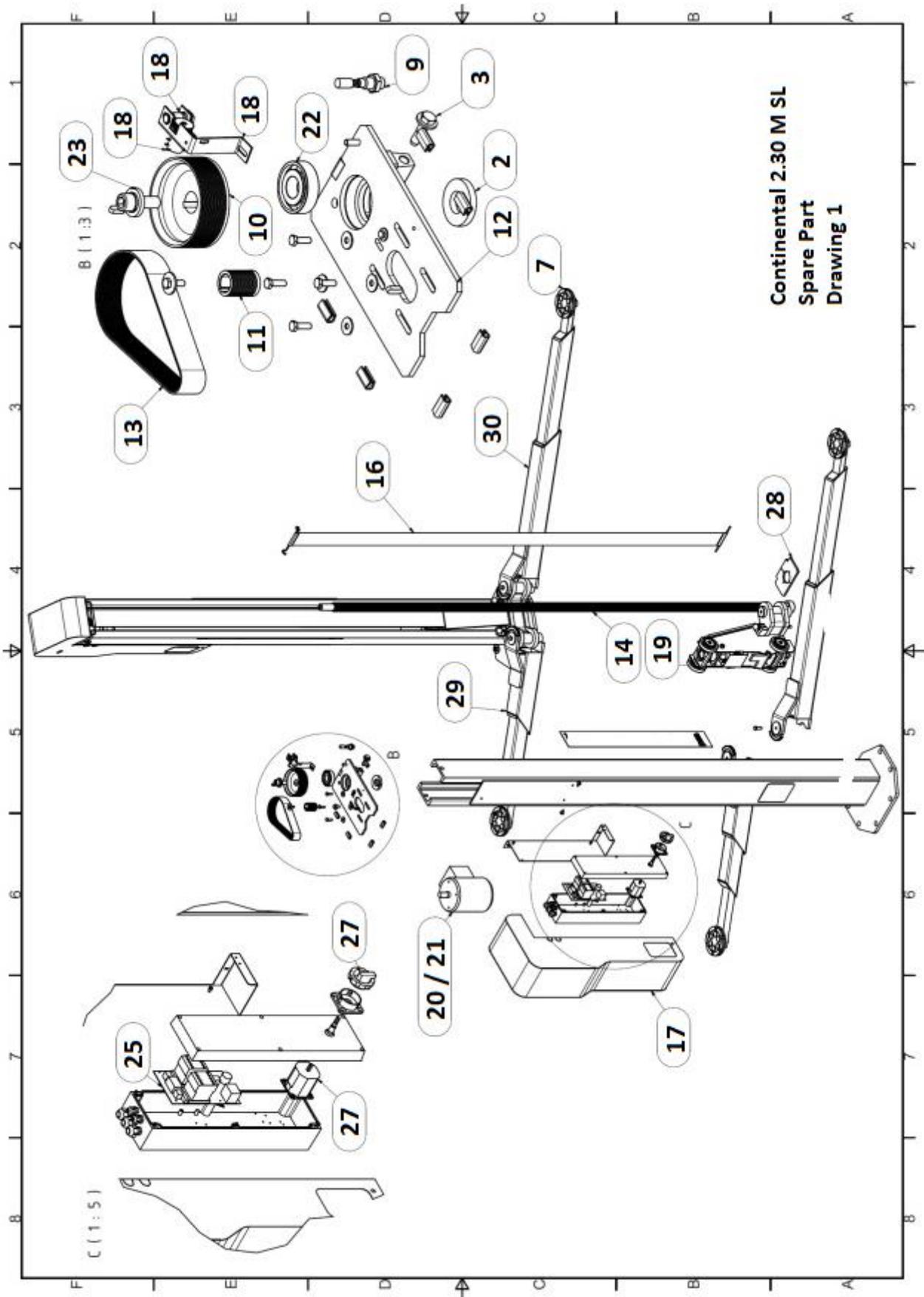


Assembly of the Lifting Arms and the Arm Locking Device

After fitting the lifting arms it is important that the tooth system of the catch, latches and unlatches easily. The threaded bolt at the catch has to be adjusted in such a way that the catch is at least 2mm above the tooth system if the carriage is completely lowered.



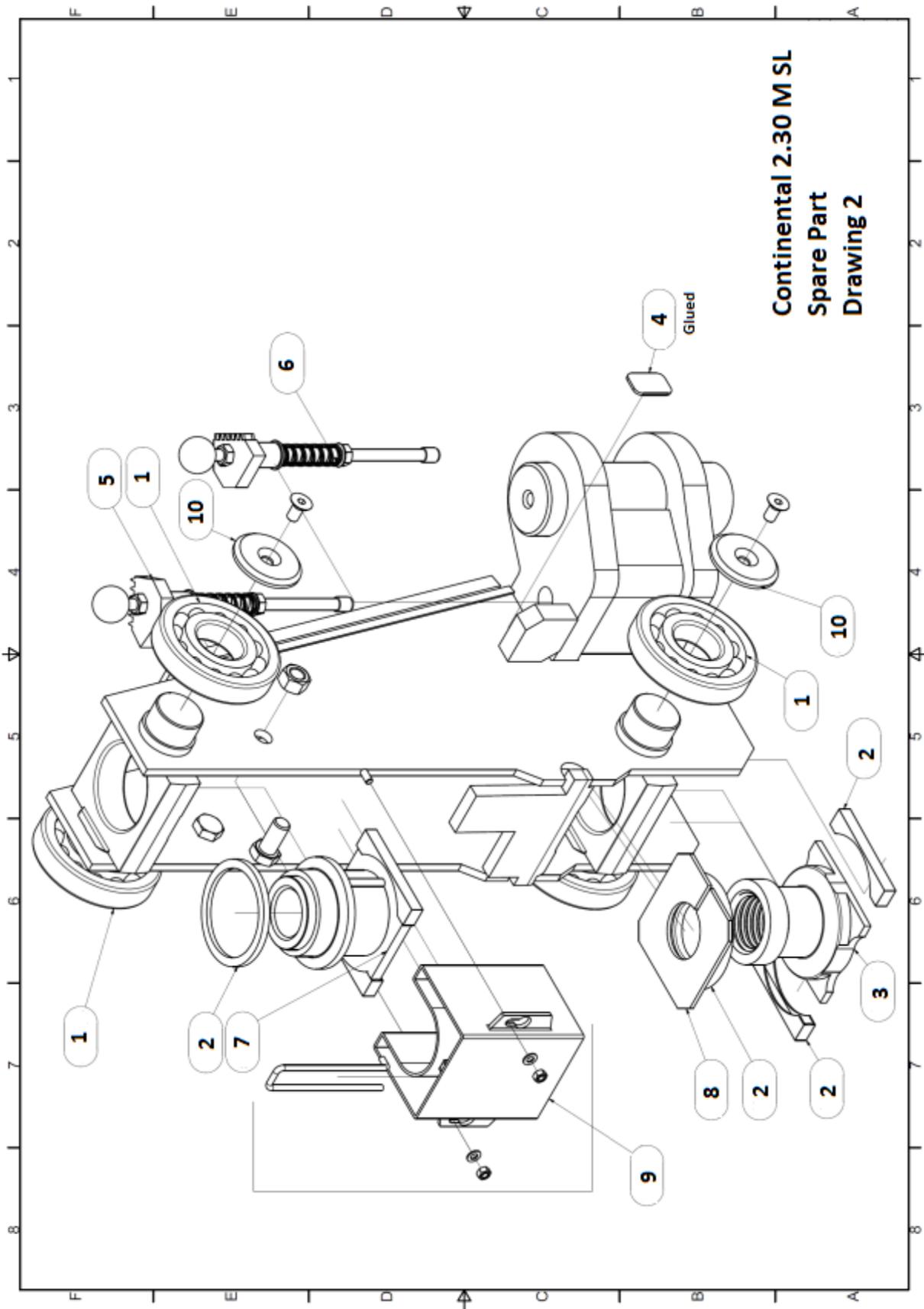
Spare parts drawing



Spare parts List

Item	Part Number	Qty	Description
1	2910002820700	1	Data plate
2	2910002820800	1	Sealing washer (top of spindle)
3	2910002820900	1	Adapter screw cpl.
4		1	Operating instructions sticker (not shown)
5	2910002821100	1	Screw Set,Fixing of arms
6		1	Potikabel-Zuschn.,10m lg,H300
7	2910002821200	1	lifting plate complete vertical adjustable
8	2910002821400	1	Potenciometer cable; main column
9	2910002821600	1	synchronisation device
10	2910002821700	1	Ripped belt pulley big
11	2910002821800	1	Ripped belt pulley small
12	2910002821900	1	Motorhalterung 3-4to lackiert
13	2910002822000	1	Ripped belt
14	2910002822100	1	Lifting spindle
15	2910002822200	1	Control box
16	2910002822300	1	Cover tape
17	2910002823700	1	cover
18	2910002822400	1	Potenciometer with gear wheel and fixing material
19	2910002824400	1	carriage
20	2910002822600	1	Motor Main column
21	2910002822700	1	Motor Slave column
22	2910002822800	1	Spindle bearing (bottom and top)
23	2910002822900	1	Spindle fixing - top
24	2910002823200	1	Door stop
25	2910002823300	1	Printed circuit board
26		1	Cartridge with special grease
27	2910002823400	1	reversing switch with rotary handle
28	2910002824100	1	Oil sunction cloth
29	2910002824700	1	Telescopic arm short
30	2910002824300	1	Telescopic arm long

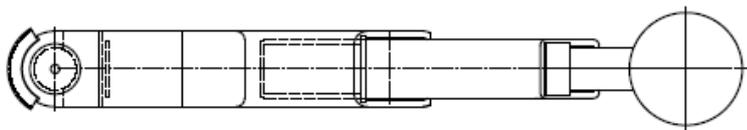
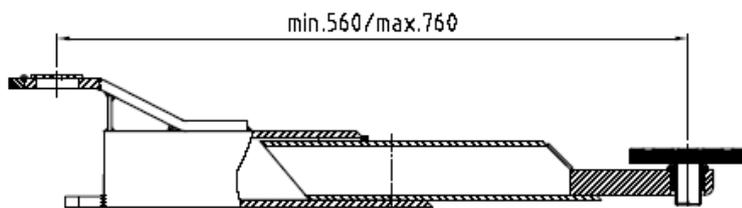
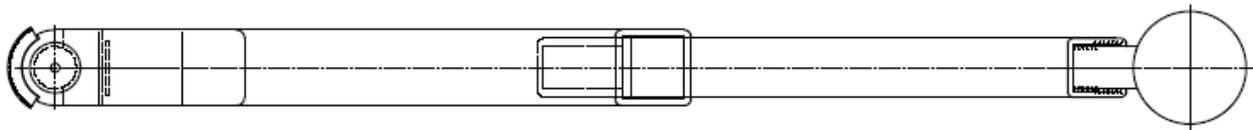
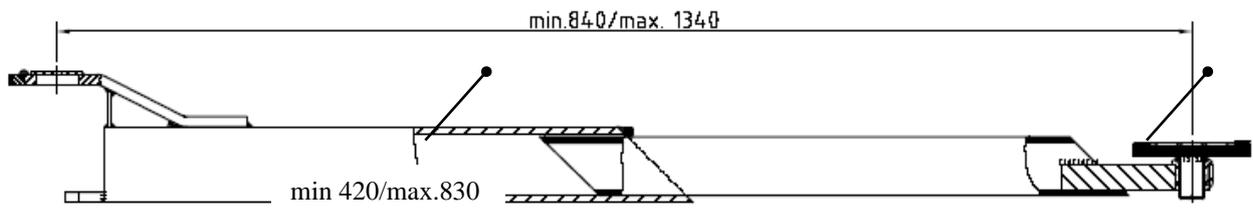
Carriage drawing



Carriage list

Item	Part Number	Qty	Description
1	2910002821300	1	Set of rollers (4 pcs)
2	2910002823000	1	lifting nuts accessories (set for 1 column)
3	2910002823100	1	Safety nut
4		1	washer 30mm lg.
5	2910002823800	1	Arm locking assembly I
6		1	Arm locking assembly II
7	2910002824000	1	Loading nut
8	2910002824200	1	Oil suction cloth
9	2910002824600	1	Oilcontainer special accessories
10		1	Washer

Swing arms



Apart from the routine maintenance and adjustments stipulated in this manual the equipment must not be tampered with in any way. All further servicing must be carried out only by an engineer from an Authorised Agent. Failure to observe these conditions will invalidate the Warranty.

On-Site Service / Overhaul / Spare Parts

If you require a Service Engineer to attend ON SITE, either due to an equipment fault, or for machine maintenance, or if you need spare parts, please contact our Technical Services Department

Warranty

On the basis that lifts must satisfy specified safety requirements for protection of persons working on them, we draw your attention to the fact that we must tie the warranty entitlement to the correct performed safety and maintenance. Always uses original Continental spare parts. The use of any other parts may invalidate the design permit (CE approval) and all claims under warranty.

Our “General conditions of selling and delivering” are enforced. There will be no guarantee or liability for incidents involving injuries , death or damage to equipment if these incidents are the result of one or more of the following reasons:

- Inappropriate use of the lift
- Inappropriate installation, initiation, operation and maintenance of the lift.
- Use of the lift while one or several safety devices do not work, do not work properly or are not installed properly.
- Failure to follow the regulations of the operating instructions regarding transport, storage, installation, initiation, operation and maintenance of the lift.
- Unauthorized changes to the structure of the lift.
- Unauthorized changes or adjustments of important components of the lift (e.g. driving elements, power rating, motor speed, etc).
- Incorrect maintenance practices.
- Catastrophes, acts of God or external reasons.

Troubleshooting

If the lift does not work properly, the reason for this might be quite simple. Please check the lift for potential reasons mentioned on the following pages. If the cause of trouble cannot be found, please call the Technical Services.

Repairs and examination of safety devices and electrical components of the lift must only be carried out by electrical experts.

Problem: The lift does not raise or lower!	
Possible causes	Remedy
No electrical power supply	Examine the power supply
The main switch is not switched on	Examine the main switch
The reversing switch is defective	Examine the reversing switch
The fuse is faulty	Examine the fuse, replace it if necessary
The feed line is cut	Examine the feed line
The motor is overheated	Let it cool down
The plug connection between the motors are loose	Examine the plugs
The lift is not in the regulation range	Equalize manually (see “manual equalization of carriage” section)
V-Belt is broken or defective	Shut off the lift. Replace the V-belt and adjust (see “adjust belt drive” section)
Motor defective	Follow “emergency lowering” section

Problem: The lift does not raise!	
Possible causes	Remedy
Only 2 phases active	Examine by an electrician
V-Belt is broken or slack	Shut off the lift. Replace the V-belt and adjust it again (see “belt drive” section)
Top limit switch is active	Only lowering procedure is possible

Appendix
Transit Damage report

Transport damage report

Lifting platform

Lifting platform type: _____

Serial number: _____

Delivery

Delivery note number: _____

Supplier: _____

Date: _____

Damage

during unpacking during delivery

Damage description:

Attach photos for better understanding.

Packing condition:

damaged not damaged

CE Declaration of Conformity – 324954 Iss A



EU Declaration of Conformity

This declaration of conformity is issued under the sole responsibility of the manufacturer.

We hereby declare that the lifting platform described below complies with the relevant basic health & safety requirements of the EC Directive by virtue of its design and construction and the version placed on the market by us. In the event of a change to the lifting platform that has not been approved by us, this declaration shall cease to be valid

Manufacturer: Continental Automotive

Details of Electrical Equipment: Continental 2 post lift 2.30M SL

Description: Continental 2 post lift 2.30M SL
Vehicle lifting equipment

Since the tested work equipment cannot be delivered ready for operation, the work equipment must be checked for operational readiness by a factory-trained fitter with a valid certificate not older than 2 years for the respective lifting platform

Conformity: product complies with the essential requirements of the following directives:

- Machines 2006/42/EC
- Electromagnetic Compatibility Directive (EMC) 2014/30/EU

and the following harmonized standards and technical specifications have been applied:

- EN 1493:2010
- EN 60204-1:2018
- EN 55014-1:2017
- EN 55014-2:2015
- EN 61000-6-3:2007 + A1:2011
- EN ISO 12100:2010

Test Specification

- German Social Accident Insurance Principle DGUV G308-003

CE Mark 1st applied: 20th October 2022

Authorized representatives:

Position - Head of Quality
Name - Darren Walker
Signature -

Position - MD, Head of CVS S2 ,UK
Name - Paul Jennings
Signature -

Date of 1st Issue 20th October 2022

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UKCA Declaration of Conformity - 324955 Iss A



UKCA Declaration of Conformity

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Manufacturer: Continental Automotive

Details of Electrical Equipment: 2 Post lift 2.30M SL

Description:

2 Post lift 2.30M SL
Vehicle lifting equipment

Conformity: product complies with the essential requirements of the following UK regulations:

- Electrical Equipment Safety Regulations:2016 No. 1101 (2014/35/EU)
- Electromagnetic Compatibility Regulations:2016 No. 1091 (2014/30/EU)
- Supply of Machinery (Safety) Regulations:2008 No. 1597 (2006/42/EG)

and the following harmonized standards and technical specifications have been applied:

- BS EN 1493:2010 - Vehicle Lifts
- BS EN 60204-1:2018 - Safety of machinery. Electrical equipment of machines. General requirements
- BS EN 12001:2012 - Conveying, Spraying & placing Machines for Concrete and Mortar. Safety Requirements.
- BS EN 55014-1:2017 - Electromagnetic Compatibility (EMC). Requirements for household appliances, electric tools, and similar apparatus. Emission
- BS EN 55014-2:2015 - Electromagnetic Compatibility (EMC). Requirements for household appliances, electric tools, and similar apparatus. Immunity. Product family standard
- BS EN 61000-6-3:2007 + A1:2011 Electromagnetic Compatibility (EMC). Generic standards - Emission standard for residential, commercial, and light-industrial environments

UKCA Mark 1st applied: August 2022

Authorized representatives:

Position - Head of Quality S2 UK

Name - Darren Walker

Signature -

Position - MD, Head of CVS S2, UK

Name - Paul Jennings

Signature -

Date of 1st Issue 30th August 2022

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Internal

Record of Installation



Vehicle Lift Installation Certificate

The equipment below has been installed by a competent engineer to meet or exceed the standards set out by BS 7980:2010.

Customer

Company Name

Address

VTS No.

Equipment

Equipment Description

Lift Serial number/SWL

Date of Installation

Authorised Installer

Company Name

Address

Engineer Name (Print)

Signature

As an employer or operator using vehicle lifts, you are responsible for ensuring that your equipment is safe and well maintained. You must comply fully with the Lifting Operations and Lifting Equipment Regulations 1998 (LOLER) and undertake regular maintenance to comply with the Provision and Use of Work Equipment Regulations 1998 (PUWER). A thorough examination must be undertaken subsequent to first installation and before first use, then every 6 months thereafter. This inspection cannot be undertaken by the same person who performs the installation/routine maintenance. It should be by someone who is independent and impartial to make objective decisions.

Installation – Service checklist		
Type:	Service Partner:	Customer Address
Serial No.:		
Year:		
Commissioning:		
A. Before the installation.		O.K. n O.K.
1	Before the installation please check for any shipping damage (e.g. control box, head plate etc.). In case of shipping damage inform the Continental immediately.	<input type="checkbox"/>
2	Check the completeness of the lift incl. Accessories.	<input type="checkbox"/>
3	Determine the required space of lift. Note here: Ceiling height, vehicle positioning, safety distances and location of control post	<input type="checkbox"/>
4	Test drilling For 2-post lifts one test drilling for each post and foundation check (anchor tensile force). foundation verification	<input type="checkbox"/>
5	Floor levelness / descent. 2.-post: L.=max 1% max. 1%	<input type="checkbox"/>
6	Energy supply on site. Electronic connection (400V / 20A gl) only made by electrician. Where required Air: 8-10 bar with maintenance unit	<input type="checkbox"/>
B. During the installation:		
Important references before and during the installation of the 2-post lift		
1	Installation only to be made by approved technical staff according to standards of the Installation manual (otherwise the warranty will be void)	<input type="checkbox"/>
2	Final electrical connections & checks must be done by a qualified electrician employed by the lift owner/operator.	<input type="checkbox"/>
3	Made aware of the test specification according to corresponding test regulations	<input type="checkbox"/>
4	Implicitly observe the references for the foundation of the lift	<input type="checkbox"/>
5	Observe mounting dimensions according to installation manual	<input type="checkbox"/>
6	Pay close attention to the parallelism of the motor axle and spindle axle. For a correction of the head plates the two head plate screws can be loosened and	<input type="checkbox"/>
7	Test function of the swivel arm locking mechanism. ATTENTION! When lowering the swivel-in height after installation the swivel arm locking mechanism	<input type="checkbox"/>
8	Implicitly fill the supporting lubrication system with original spindle oil.	<input type="checkbox"/>
9	The lift comes ex works pre-programmed and must be adjusted to the conditions on site. Check the correct height of the acoustic foot protection (forced	<input type="checkbox"/>
10	The alignment of the posts (outer tilting) must be observed, approx. 10 mm on post length	<input type="checkbox"/>
11	Check upper and lower distance on the deflection bar of the cover tape (correct if necessary and grease back side of cover tape if required).	<input type="checkbox"/>
12	Don't tighten self-tightening swivel arm safety screws approx. 1mm clearance swivel arm movement (Observe clearance between screw head and swivel arm	<input type="checkbox"/>
13	After the first test run without load another test run with the approx. nominal load must be done. Adjust setup if necessary. Afterwards adjust the running	<input type="checkbox"/>
14	Observe maintenance points! (see lubrication and maintenance plan)	<input type="checkbox"/>
15	Only lift with all 4 swivel arms at the valid pick-up points stated by the vehicles manufacturer.	<input type="checkbox"/>
16	Check all detachable connections	<input type="checkbox"/>
17	Repeated checking of all adjustments (e.g. security devices, end stop points, belt tension, running mechanics, brake)	<input type="checkbox"/>
18	Presentation and briefing of lift on function, security devices, servicing and maintenance.	<input type="checkbox"/>

C. After the installation.			
1	Completely fill out test book.	<input type="checkbox"/>	<input type="checkbox"/>
2	Extensive briefing of customer on the function of the lift. Briefing on security devices and emergency lowering. Briefing on operation and proper use of the lift (e. g. 4 arms – 4 pick-up points) Briefing on maintenance & servicing Name of briefed person: _____(person in authority)	<input type="checkbox"/>	<input type="checkbox"/>
3	Handover of test book, installation manual and the brief instruction (with indication of attention!)	<input type="checkbox"/>	<input type="checkbox"/>
D. Maintenance obligations of the operator 2-post (Maintenance intervals: daily, weekly, monthly)			
1	Arrange yearly check according to corresponding test regulations!	<input type="checkbox"/>	<input type="checkbox"/>
2	Maintenance according to operation manual	<input type="checkbox"/>	<input type="checkbox"/>
3	The lubrication applies supporting lubrication to spindle and nuts! However this lubrication does not always suffice (e.g. thick oil due to cold). Check monthly! Manual lubrication can help when faced with eventual rough running features.	<input type="checkbox"/>	<input type="checkbox"/>
4	Grease swivel arm mounting bolts.	<input type="checkbox"/>	<input type="checkbox"/>
5	Check belt tension, retighten if necessary.	<input type="checkbox"/>	<input type="checkbox"/>
6	Check castor brake, retighten if necessary.	<input type="checkbox"/>	<input type="checkbox"/>
7	Regularly check safety devices (e.g. swivel arm locking mechanism).	<input type="checkbox"/>	<input type="checkbox"/>
<p>A briefing on function, operation, servicing and the safety devices of the lift has taken place. A briefing on the MAINTENANCE OBLIGATIONS OF THE OPERATOR has also taken place. The operator has been briefed and has assured himself of the faultless function of the lift. Indication of attention of the extensive operation manual! Without properly filling out this brief instruction the warranty will expire!</p>			
Notes: _____			

_____	Signature	_____	Name in block letters operator
_____	Signature	_____	Name in block letters briefed person
_____	Signature	_____	Name in block letters briefed person
_____	Signature	_____	Name of installer / service partner

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Legal notice

The information in this brochure contains only general technical descriptions and performance characteristics, the applicability of which can depend on further factors in case of actual use. It is not meant or intended to be a specific guarantee of a particular quality or durability.

An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. We reserve the right to make changes in availability as well as technical changes.