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Symbols, safety



Important information



Observe directions for disposal



Observe directions for disposal



Maintenance



Note! Failure to observe this safety instruction can result in material damage



Warning! Failure to observe this safety instruction can result in material damage, serious injury or death



Caution! Failure to observe this safety instruction can result in material damage, serious injury or death



Caution! Failure to observe this safety instruction can result in material damage or injury

General safety information

The details and information in this installation guide are provided for the purposes of describing the product and its assembly only. This information does not discharge users from the obligation to conduct their own assessments and checks. It is also important to bear in mind that our products are subject to a natural process of wear and ageing. This guide contains important information that will enable you to use the product safely and appropriately. When this product is sold, rented out or otherwise passed on to another party, it must be handed over with this installation guide. When installing, operating and maintaining Lift Module 70x70 GH, it is important to ensure that all moving elements are secured to prevent unintentional movement. Moving parts can cause serious injury! You must therefore read and follow the safety instructions set out below.

All work carried out with and on Lift Module 70x70 GH must be performed with “safety first” in mind.

Do not place your hand within the operating range of the height-adjustable Lift Module’s moving parts. Observe the regulations pertaining to accident prevention and environmental protection that apply in the country and workplace where the product is being used.

Use only item products that are in perfect working order. Failure to use original spare parts will invalidate the product warranty!

Check the product for obvious defects. Use the product only within the performance range described in the technical data.

Ensure all the safety equipment associated with the product is present, properly installed and in full working order. Do not alter the position of safety equipment, circumvent it or render it ineffective.

- Keep clear of suspended loads.
- Use lifting gear with sufficient load-bearing capacity (see delivery paperwork for product weight).
- Carefully secure lifting gear.
- Attach lifting gear to the product only at sufficiently stable points.
- Observe environmental conditions.

During installation

Avoid areas that pose slip, trip, fall and jamming hazards. Secure the working area.

During commissioning

Allow the product to acclimatise for a few hours before starting to use it. Ensure that the application satisfies internal company requirements. Only start using a product that has been installed in full.

During operation

Ensure that only persons who have been authorised by the operator have access to the immediate operating area of the height-adjustable column. This also applies when the system is not in operation. It must not be possible to actuate moving parts unintentionally. Prevent access below the working area of the Lift Module. The height-adjustable Lift Module is not suitable for lifting people.

During cleaning

Close all openings with suitable covers to ensure that cleaning agents cannot penetrate the system. Do not use aggressive cleaning substances. Do not use a high-pressure cleaner for cleaning.

During maintenance and servicing work

Carry out the prescribed maintenance work at the intervals stipulated in the installation guide. Ensure no cables, connections or components are detached or removed. Secure the height-adjustable application to prevent uncontrolled movement.

During disposal

Dispose of the product in accordance with the national and international regulations that apply in your country.

Correct use

Lift Module 70x70 GH is a partly completed machine as defined in the Machinery Directive (2006/42/EC). Height-adjustable Lift Module 70x70 GH must be used only in accordance with the technical data and safety requirements set out in this document. Lift Module 70x70 GH is a technical item of factory equipment and is not intended for private use. If major modifications are made, the documentation will need to be renewed or supplemented in accordance with the Machinery Directive.

Lift Module 70x70 GH is a lifting device designed to permit simple manual ergonomic adjustment. The product is used in industrial environments to convert pressure into linear movement and/or force. Internal company requirements and the regulations that apply in the country where the product is being used must be observed. You must not make any design modifications to Lift Module 70x70 GH yourself. We will assume no liability for any resulting damage or injury.

The declaration of incorporation pursuant to Machinery Directive 2006/42/EC Annex II 1. B for partly completed machinery can be found on the relevant product page in our Online Shop.

You may only install, operate and maintain the height-adjustable Lift Module if:

- You integrate Lift Module 70x70 GH into its surroundings in a proper and safe manner.
- You operate the Lift Module in a vertical and upright alignment.
- The range of use falls within the performance limits described in the technical data.
- You use the Lift Module in the manner described in the installation guide.
- You have carefully read and understood the installation guide.
- You are appropriately qualified.
- You are mentally and physically capable of doing so.
- You are authorised to do so by your company.
- You are using only original equipment from the manufacturer.
- You comply with the maintenance intervals.



Unsafe or inappropriate use of the height-adjustable Lift Module runs a risk of serious injury and bruising caused by crushing and cuts.

Improper use

Improper use is defined as any use of the product for purposes other than those authorised in the installation guide and under the definition of correct use. We will assume no liability for any resulting damage or injury.

The following foreseeable types of misuse are expressly classed as improper:

- The attachment or integration of third-party products must trigger a new risk assessment.
- The Lift Module must not be subjected to tensile loads.
- The Lift Module is not suitable for transporting people.
- The Lift Module is not suitable for lifting people.
- The Lift Module is not suitable for private use.
- The intended fastening elements on the preconfigured components must not be replaced.
- Any modification made to the preassembled and preconfigured components shall invalidate the warranty.
- Usage on pallets or tool tables in primary forming and reforming machines.
- When physical/chemical effects (vibration, welding currents and similar) could damage the product or its seals.
- Usage on pallets or tool tables that are used to change material properties (magnetisation, radiation, photochemical processes, etc.).

Take note of working areas where separate guidelines apply, particularly with regard to equipment and machinery:

- For use at funfairs and amusement parks.
- In food preparation or where special hygiene stipulations apply.
- For military purposes.
- In mining.
- In potentially explosive and aggressive environments (e.g. ATEX).
- In medical technology.
- In aerospace applications.

Personnel qualifications

Assembly, commissioning, operation, disassembly and maintenance work (including servicing and care) require an adequate knowledge of mechanical engineering and an understanding of the relevant technical terminology. To ensure operational safety, these activities must therefore be carried out only by a qualified person or by trained personnel under the direction of a qualified person. Qualified persons are individuals who – by virtue of their specialist training, know-how, experience and knowledge of pertinent provisions – are able to assess the work that is assigned to them, identify potential hazards and put in place appropriate safety measures. Such qualified persons must comply with the applicable specialist regulations.

Safety instructions

Observe the safety instructions and handling descriptions in this installation guide to avoid personal injury and damage to property.



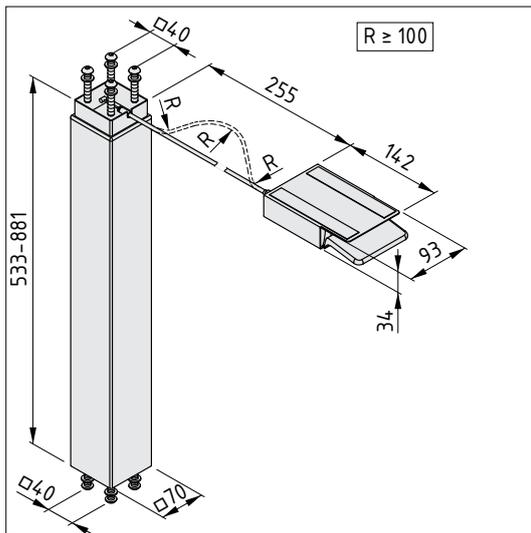
- Keep this installation guide in a place where it can be accessed by all users at any time.
- Observe the regulations pertaining to safety, accident prevention and environmental protection that are applicable in the country where the product is being used.
- Use the item product only when in perfect working order.
- Follow all directions on the product.
- To exclude any risks to people caused by unsuitable spare parts, use only accessories and spare parts that have been approved by the manufacturer.
- Always ensure the product is used correctly.
- Opening the pressurized gas spring is prohibited to prevent personal injury or damage to property. Warranty claims become invalid.
- You may start up the product only when it has been ascertained that the partly completed machine into which the product is to be installed satisfies the local provisions, safety regulations and technical standards.
- Conduct a risk assessment for the newly formed partly completed machine or machine.
- Interplay between the product on the one hand and the machine/fixture and surroundings on the other can result in risks that only the user is able to identify and minimise, e.g.:
 - Forces generated,
 - Movement generated,
 - Influence of hydraulic and electrical controls,
 - etc.

Personal protective equipment

Wear safety footwear when working on and with the product!

Product description, use and accessories

The preassembled Lift Module is compatible with Line 8 and, in terms of its operating data, can be adapted to all working processes to improve the speed and flexibility of production systems. The gas pressure Lift Module is especially compact. The single central column is height-adjustable. A lightweight, height-adjustable transport system or ergonomic storage surface can be used to get spare parts and working materials directly to the place of work.



CAUTION! The permissible minimum bending radius of the wire-sheathed cable of 100 mm must not be exceeded and the cable must never be kinked.

Operating data

Lift Module 70x70 GH

Lift:	348 mm
Empty weight:	7 kg
Max. pressure loading capacity of the Lift Module:	30 kg
Max. bending load for the Lift Module:	100 Nm

The gas spring generates a force of 200 N to help with lift

Application-specific influences such as side loads, temperatures, soiling and canting have a negative impact on the anticipated service life.

Ambient conditions:

Operating temperature range:	+5°C to +40°C
Storage temperature:	-20°C to +70°C
Relative humidity:	5% to 85%

Height-adjustable Lift Module 70x70 GH is intended for use in an area that is protected from the weather.

- The area should be free from mould and fungus and show no traces of rodents or other pests.
- Do not install or use in close proximity to industrial plants that produce chemical emissions.
- Do not install or use near sources of sand or dust.
- Do not install or use in an area that is regularly exposed to high-energy surges such as those caused by presses or heavy machinery, for example.

- The product is resistant to many of the substances usually encountered in the production area, such as water, mineral oil, grease and detergents. In case of doubt regarding resistance to certain chemicals such as test oil, alloyed oils, aggressive cleaning substances, solvents or brake fluid, we advise that you contact your local item branch or distribution partner.
- Avoid long periods of contact with highly acidic or alkaline substances.
- Consult the manufacturer if using in very salty air.



We recommend consulting item Industrietechnik GmbH or a distribution partner before using this product in critical areas.

Installation and set-up

Checklist	✓
Do not subject the height-adjustable Lift Module to tensile loads.	
When operating the height-adjustment mechanism, ensure no objects (e.g. furniture) or body parts can become trapped.	
To prevent crushing and cuts, nearby objects should be kept at least 80 mm away from the mechanism.	
The travel range and possible collision area around and under the Lift Module must be kept clear, as the structure could otherwise be damaged or tip over.	
Load values must not be exceeded.	
Any unintentional loosening of the connections must be prevented.	
The components must not be exposed to any aggressive chemicals.	
Do not expose the Lift Module to heat, corrosive influences, sharp edges or direct UV radiation (consult your local item GmbH branch or distribution partner if necessary).	

Installing Lift Module 70x70 GH

Lift Module 70x70 GH must be incorporated into a stable frame. Install Lift Module 70x70 GH vertically and upright. This ensures it functions correctly and will prevent premature wear. Install the holding plate for the manual switch where it can be easily accessed. Use the self-adhesive strips on the holding plate to stick it to a surface that is free of dust and grease. Next, insert the manual switch into the holding plate and locked in place.



Factor in the length of the Bowden cable during installation.

Ensure the Bowden cable cannot become caught during operation and thus cause an imbalance.

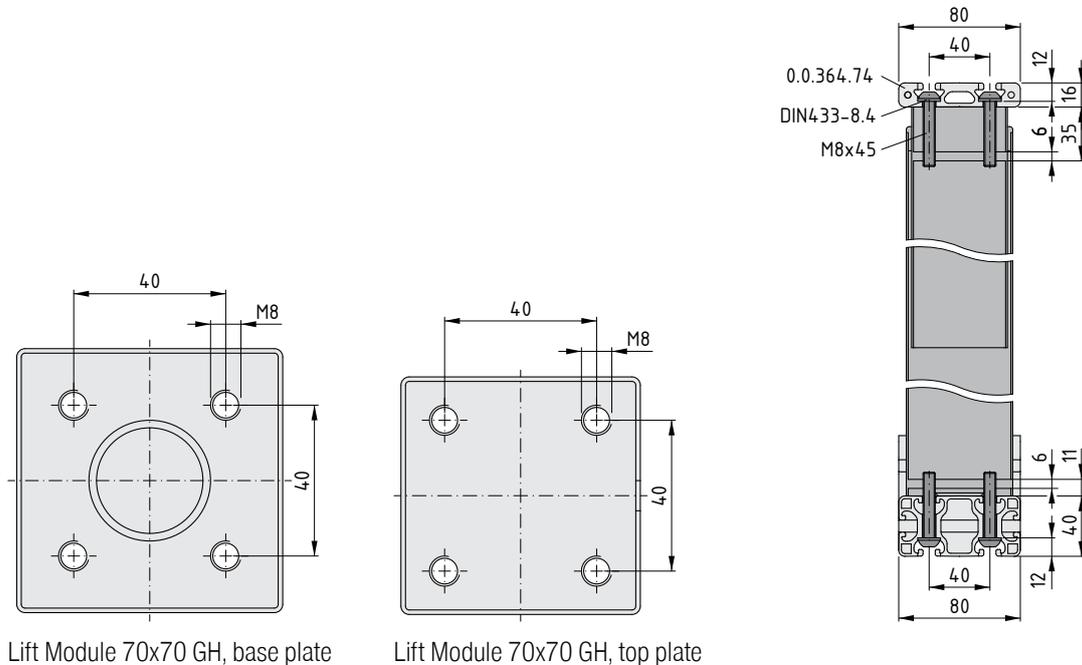
Ensure that the positioning of the manual switch does not create areas where crushing and cuts can occur.

Faults may occur as a result of incorrect commissioning and the service life may be shortened.

- Do not load the telescopic column to the point that it starts to bend.
- When operating the height-adjustment mechanism, ensure no objects (e.g. furniture) or body parts become trapped!
- To prevent crushing and cuts, nearby objects should be kept at a minimum distance of 80 mm.
- Load values must not be exceeded.
- Safety instructions must be followed.
- Inappropriate use of the system can pose hazards to people and equipment.
- The product warranty is valid only when the product is used as intended.
- The system must be inspected for stability and made stable.

M8 bolts are to be used to firmly screw the product's base plate to the customer's connecting structure as appropriate to the anticipated loads. The length of the screws varies depending on how the Lift Module is being fastened to the frame.

The M8 screws included in the scope of supply (tightening torque: $M = 25 \text{ Nm}$) are prepared for fastening the base plate to a Profile 8 80x40 and the top plate to a Profile 8 40x16. To do this, screw the Hexagon Socket Head Cap Screws into the threads on the base and top plates with the aid of a stepped bore in the profiles.



Lift Module 70x70 GH, base plate

Lift Module 70x70 GH, top plate



The column profiles (outer/inner) must not be mechanically altered or fitted with additional guides. Overdetermination of the guide leads to premature wear.



Caution: Mechanical synchronisation of two Lift Modules is strictly prohibited.

Caution: A lack of fixings or incorrect fastenings will cause the product to fall over!

Caution: Injury caused by falling product!

Caution: Product may fall over due to eccentric load caused by user application!

The customer must take design steps to prevent any hazards caused by the customer's connecting structure, such as crushing points.

Caution: Take note of permissible loading. The product must only be subjected to compressive loads.

Commissioning and operation

Visually inspect all components before and after installation to identify potential damage caused during transport and/or installation. Individuals without the proper authorisation are not permitted to disassemble system components.

If components are found to be damaged, please contact your local item GmbH branch or distribution partner.



Caution: Failure to observe instructions in the installation guide can result in injury.

Users are permitted to operate the product only after they have read and understood the installation guide, particularly the "Safety instructions" section.

Caution: Injury caused by crushing! Elements of this product move during use.

Caution: Injury caused by improper use, incorrect use and misuse!



Injuries can occur if the product is not used correctly or within its technical performance parameters. If any changes occur to the product that compromise its safety, the user is obligated to report them immediately to the safety officer or the person who is responsible for safety and stop using the product.

Reaching into the travel range while the product is raising or lowering is prohibited.

Raising

The raising motion is released by operating the manual switch. The Lift Module is under gas pressure and rises up when released, lifting the top plate of the column with a force of 200 N.



Caution! Accidental or uncontrolled actuation of the hand switch with insufficient load leads to an accelerated upward movement of the telescope, which could cause damage to property and personal injury.

Lowering

The telescope can be lowered carefully by releasing the hand control and applying controlled pressure to the lifting module.



Caution! Accidental or uncontrolled operation of the manual switch. If the load is insufficient, the user must apply this force manually to ensure controlled lowering. If the load is too high, the user must assist the lowering process. Depending on the load, there is a risk of property damage or personal injury.



Ship the product only in its fully extended state.

Maintenance and servicing work

Warning notice for maintenance work.



Before commencing maintenance work on the system, ensure that it is unloaded. Stabilise the application into which the system has been integrated. This avoids the risk of potential personal injury and material damage during maintenance work.



This information does not discharge users from the obligation to carry out their own assessments and checks. It is also important to bear in mind that our products are subject to a natural process of wear and ageing.

When maintaining the Lift Module, it is important to ensure that all moving elements are secured so that they cannot be moved. Rotating and moving parts can cause serious injury! All work carried out with and on Lift Module 70x70 GH must be performed with "safety first" in mind.

Visual checks and functional tests should be performed regularly according to the level of utilisation and environmental conditions. Due to the way the gas pressure-operated cylinder works, the entire Lift Module will need to be replaced if it stops functioning properly and is no longer able to complete its task.

Please contact your local item GmbH branch or distribution partner.

Take note of the following maintenance instructions:

Maintenance work	Frequency	Person responsible
Cleaning, visually inspecting the Lift Module and checking the guide unit	Daily	User
Checking the fastening screws, retightening them if necessary Checking the guide unit	Half-yearly inspections	Expert

Maintenance work	Frequency	Person responsible
Checking for smooth operation over the entire travel range when under a light load. Operate the hand switch and apply pressure to the column and approach both end positions of the telescope.	Yearly	Expert
Checking for smooth operation over the entire travel range when under load	Yearly	Expert
<p>Checking the gas spring system for leaks</p> <p>Caution: If the product's top plate sinks down on its own, stop using the product!</p> <ul style="list-style-type: none"> ▪ Move the Lift Module to its highest position. • Secure the test weight to the top plate (20 kg). ▪ Check the position after 24 hours. 	Yearly	Expert
<p>Functionality of the Bowden cable</p> <p>If the manual switch stops actuating the system, the Bowden cable can be reset.</p> <ul style="list-style-type: none"> ▪ Remove the manual switch from the holding plate ▪ The internal square nut acts as a counterpart and is normally concealed ▪ Turn the 8 A/F hexagon nut to tighten or loosen the Bowden cable 	Yearly	Expert
Inspection by the manufacturer (recommended)	After 50000 cycles (raising and lowering)	item GmbH branch/distribution partner
<p>Repair</p> <p>Repair work must be carried out only by item GmbH.</p>	In the event of damage	item GmbH branch/distribution partner

The following cleaning work is to be carried out on the mechanical components on a daily basis:

- Cleaning using cleaning cloths or rags.
- Lightly greasing the metallic components (e.g. plates, guides, etc.)

Disposal



The product can be recycled or re-used (after any necessary refurbishment and replacement of parts). The use of appropriate materials and easy dismantling ensure the product can be recycled.



Improper disposal of this height-adjustable application can pollute the environment.

Please dispose of your height-adjustable work bench in full accordance with the laws of your country.

Caution: The disposal of individual components must be handled by an approved specialist company due to the potential for environmental pollution.

Special attention must be given to the disposal of components that contain residues of hydraulic fluids. The disposal instructions in the safety data sheet must be observed. Always follow the local statutory regulations and provisions when disposing of electrical and electronic components (e.g. travel measuring systems, sensors, etc.).

Warranty

Warranty: 12 months. The warranty covers free delivery of parts or complete units ex-works. However, this is conditional on receipt of a written notice from the customer that includes a description of the fault. The replaced parts must be returned to item Industrietechnik GmbH within six weeks for inspection, otherwise the cost of the replacements and their shipping will be charged.

Start of warranty:

Day of delivery!

Documentation and development

A process of continuous product development ensures that products from item Industrietechnik GmbH always exhibit a high standard of innovation. Consequently, there could be inconsistencies between this guide and the product you have acquired. item Industrietechnik GmbH can also not exclude the possibility of errors. We therefore ask for your understanding that the information, illustrations and descriptions provided here cannot constitute an entitlement to any claims. You can find the latest version of this user guide at item24.com.

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04/2025

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