

# Transport, Installation, Commissioning

## INDEX MBL65.2

## Note on applicability

Illustrations in this publication may deviate from the product supplied. Errors and omissions due to technical progress expected.

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## General note



All documents and drawings (working documents) required for the operation of the machine can be found on the supplied data carrier under Chapter 1, "Instructions", or Chapter 2, "Diagrams and drawings").

Documents and drawings of add-on equipment from other manufacturers can be found in Chapter 3, "Third-party documentation".

In addition, these data/documents are stored on the controller.\*



Maschinendokumentation\_beachten.a



(\* - **iXpanel** installation required)

## Explanation of symbols

Explanation of the symbols used in the user documentation:

1



**This symbol warns against a direct, imminent danger to the life and health of individuals. Failure to observe this danger warning may result in severe health impairment such as perilous injury and even death.**

2



**This symbol warns against a direct, imminent danger from electricity. Failure to observe this danger warning may result in severe health impairment such as perilous injury and even death.**

3



This symbol indicates important notes for the proper operation of the machine.  
Failure to observe this caution may cause malfunctions on the machine.  
This can result in damage to entire assemblies or parts thereof.

## Safety instructions



The general safety instructions, as a separate document, are part of the **INDEX** user documentation.

The safety instructions described in this document relate exclusively to the transport, installation, and commissioning of the bar feeder.

## Information on transport, installation, commissioning

### Transporting and lifting aids



**If the door to the work area is open, the door safety switch will remain open after disconnecting the power supply line.**



**Use only an appropriate crane or a forklift with adequate load-bearing capacity for transporting the bar loading magazine.**

Failure to follow proper procedures for transport, installation and commissioning is prone to cause accidents and may induce damages to or malfunctions of the bar loading magazine for which **INDEX** rejects any liability or warranty.

The procedures for unloading, transporting to the installation site, installation, and commissioning must be carefully planned while absolutely observing the precautions below in this document.

### General hazards during on-site transport



**Danger to life!**

**Do not step under suspended loads.**

The transport must be carried out by authorized and qualified personnel only.

Act responsibly when transporting the system and always consider the consequences. Avoid dangerous and risky actions.

Slopes and gradients (driveways, ramps, etc.) are particularly dangerous. Use extra care if such passageways cannot be avoided.

Ensure secure and proper seating of the load. If necessary, use additional fixtures to ensure that the cargo is not able to slip.

The transport vehicles must be able to produce sufficient traction and braking forces for safe transport.



### Dimensions and masses

The bar loading magazine masses are indicated on the respective machine installation plan in Chapter 2, "Diagrams and drawings".



The installation plan applicable for this bar loading magazine was already submitted for approval after contract award. Upon delivery of the bar loading magazine, it is included in the working documents on the supplied documentation CD.

### Reception

After unloading, unpack the machine accessories and check them against the information on the delivery form for completeness (compare with the bill of lading or delivery form).

In case of discrepancies, contact **INDEX** or your **INDEX** representative.



## Preparations



**Damage resulting from non-compliance with the following transportation conditions cannot be lodged as warranty claims.**

This section is addressed to the persons responsible for the installation and their staff.

The information provided here allows you to prepare the installation site and its surroundings such that the bar loading magazine, when delivered, can be installed and put into operation immediately.

Be sure to carefully plan the delivery, unloading, and transporting of the bar loading magazine from the unloading site to the installation site.

Take the size (dimensions) and masses of each unit into consideration.

Suitable transporting and lifting means must be available when the bar loading magazine is delivered.

Any obstacles along the transport route from the unloading site to the installation site must be eliminated before the bar loading magazine is delivered.

Check the transport route for load capacity, levelness, damaged pavement, traverse grooves, slopes, gradients, etc.

Is the width and height of entrances and gates sufficient?

If elevators are to be used, do they have sufficient capacities?

Proper planning will pay off!

### Suitable transporting and lifting aids

- Forklift
- Transport rollers
- Crane

## Space requirements

The following must be ensured:

- Sufficient free space around the bar loading magazine.
- Sufficient movement space for the operator.
- Sufficient space for maintenance and repair.
- It must be possible to open all doors of the bar loading magazine completely.
- Space for placing blank and workpiece pallets, workpiece collectors, chip trolleys, tool trolleys, etc.



Use the machine installation plan in Chapter 2, “Drawings and diagrams”, to determine the required space.

## Subsoil, foundation

A special foundation is not necessary. Only the load capacity and strength of the floor must be suitable for the weight of the bar loading magazine based on constructional aspects.

There must be no expansion joints in the area of the footprint.



The bar loading magazine must be anchored in the foundation. For the distances between the anchoring holes, see the machine installation plan in Chapter 2, “Drawings and diagrams”.

If a bar loader or bar loading magazine is used, **INDEX** also recommends anchoring the machine in the foundation.

## Ambient conditions

See Ambient Conditions in the document “Safety instructions”



**If the actual conditions at the installation site differ from these specifications, be sure to contact INDEX or an INDEX representative.**



## Power supply



**The bar loading magazine is supplied with power and protected through a machine-installed electrical interface. See the information in the wiring diagrams and the working documents.**

The bar loading magazine can be controlled by an integrated PLC.



The guidelines and regulations applicable in the country of use must be followed.

## **Delivery**

The bar loading magazine will be delivered by a truck.

### **Other separate units**

Loose parts, such as keys, tools, and fittings, are supplied in a separate box, which may be included with a separate unit.

Have the carrier confirm any damages or missing parts on the bill of lading or delivery form.

In case of damages during transport, it is recommended to take photos of the damages for evidence.

Inform **INDEX** or the **INDEX** representative.

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# INDEX

## Transporting the bar loading magazine

Kunde: \_\_\_\_\_

Projekt.-Nr.: \_\_\_\_\_ Masch. Nr.: \_\_\_\_\_

**Mass of the MBL65.2**

**3200/4200**

max. 2400/2900 kg

## Transport

### ... by a crane



**Transport the bar loading magazine only in a horizontal position. Angled pulling > 45° is not permitted. (Fig.: 1)**

**Angled pulling at 45° results in a rope force of 20,000 N (2,000 kg) per strand.**

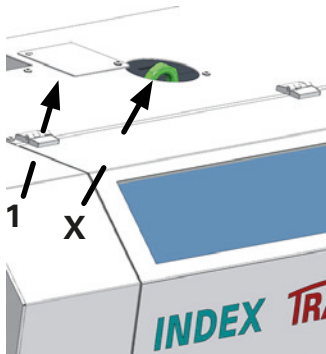
For transporting the bar loading magazine MBL65.2 with a crane, install 2 high-strength, rotating eyebolts **X** (Fig.: 1+2) on the top of the bar loading magazine. The eyebolts can be used to attach ropes, slings or chains. Check the proper seating of the ropes/chains in the transport hooks before lifting the bar loading magazine.



**After completing the crane transport, always remove the eyebolts (X) on both sides and close the transport openings with the attached cover sheets (1 in Figs.: 2+3).**

**Operation with installed eyebolts is not permitted!**

**Risk of injury due to fast-moving parts. Destruction of the energy chains and shutdown of the bar loading magazine would be additional consequences.**



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Fig.: 2

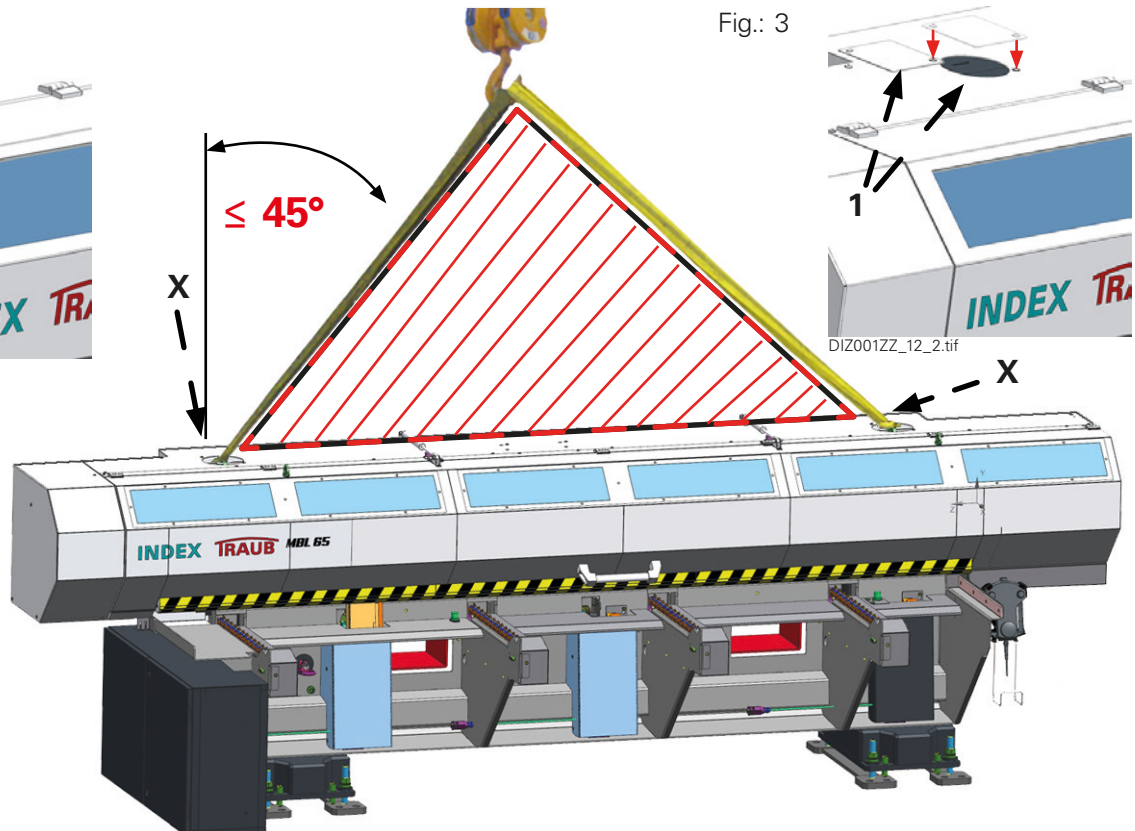
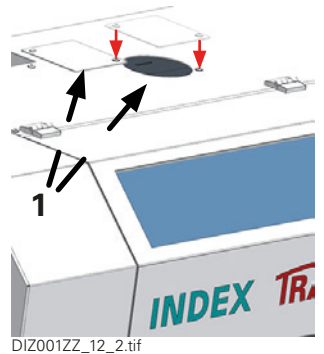


Fig.: 3



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Fig. 1:  
Lifting points for  
crane transport

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	Item	pcs.	Name
Transport gear	1	2	Eyebolt M20 high-strength, swivel
		2	Round sling <b>min.</b> 1700 mm

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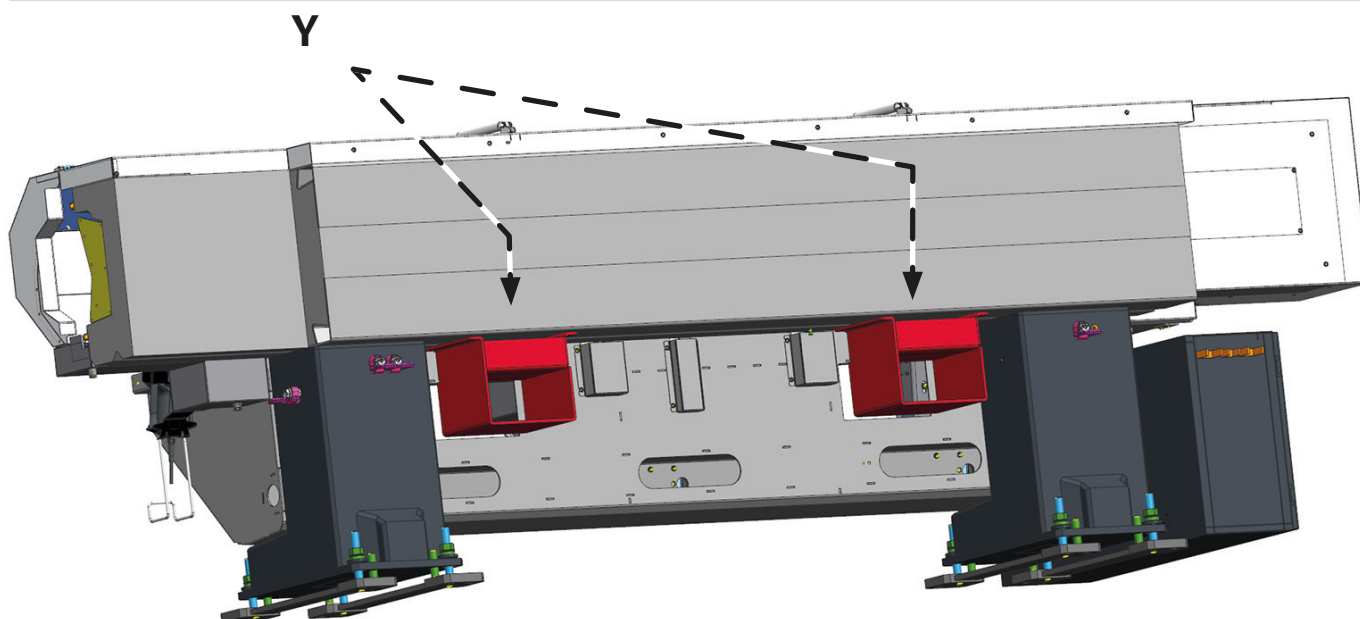
## ... by a forklift



Transporting with a forklift is done only from the rear of the bar loading magazine. Fig.: 4 and 5.



When lifting with a forklift truck, the transport lugs (Y Fig.: 4) must be mounted on the bottom of the bar loading magazine and anti-slip mats be placed on the forks. Always lift the MBL as closely as possible to the mast of the forklift and be sure to incline the mast **(risk of tipping - top-heavy)** see Fig.: 5.



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Fig.: 4 View with transport lugs for forklift transport



For transporting the bar loading magazine on a truck or other means of transport, always place the control cabinet in the direction of travel. Always place on the edge of the loading platform to allow access for the forklift.

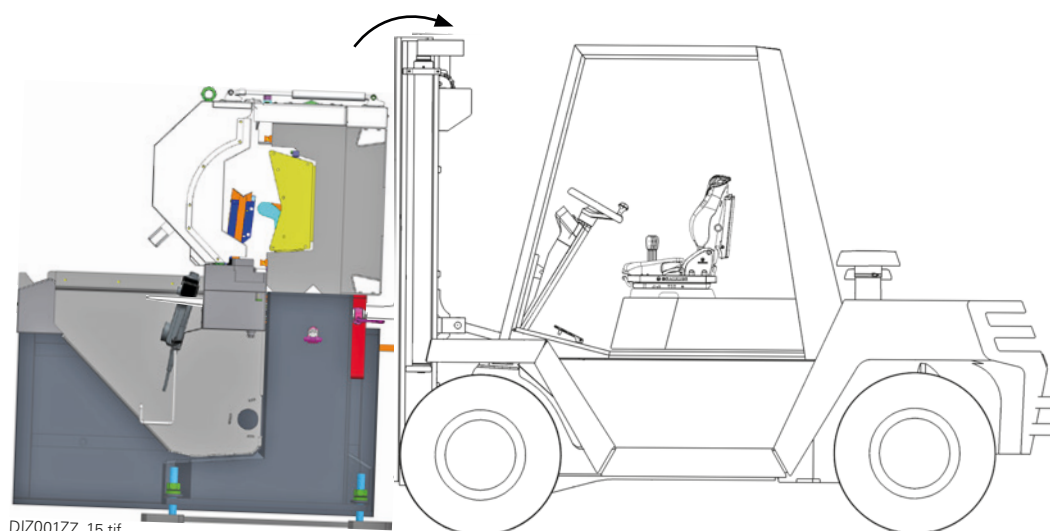


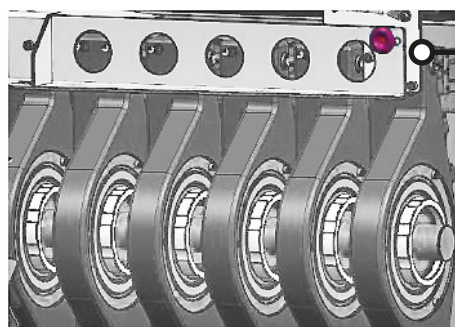
Fig.: 5  
Overall view with  
forklift

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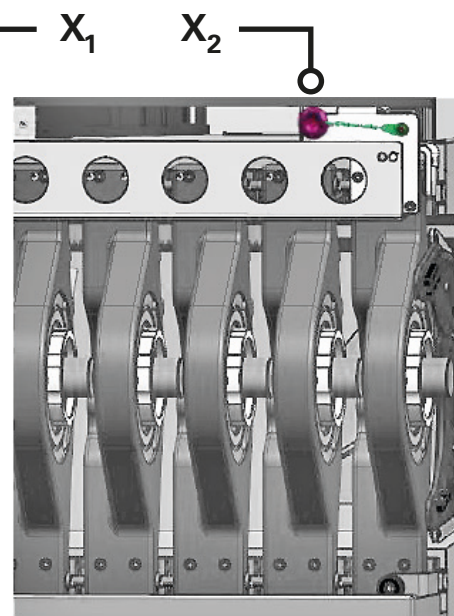
## Removing the transport locks

**(Also observe the transport instructions attached to the MBL65.2)**

For transport, the bearing plates were secured with a pin ( $X_1$ ).  
After transport, lock the bearing plates again in the end position ( $X_2$ )



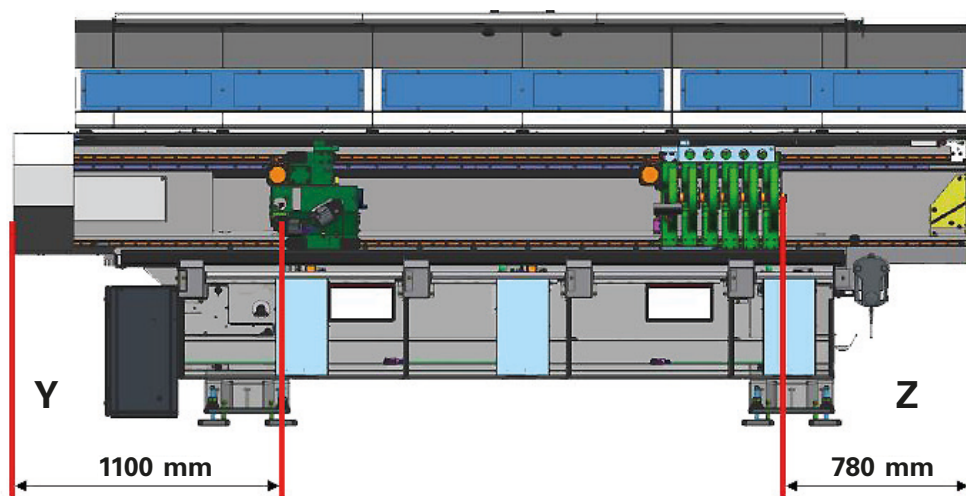
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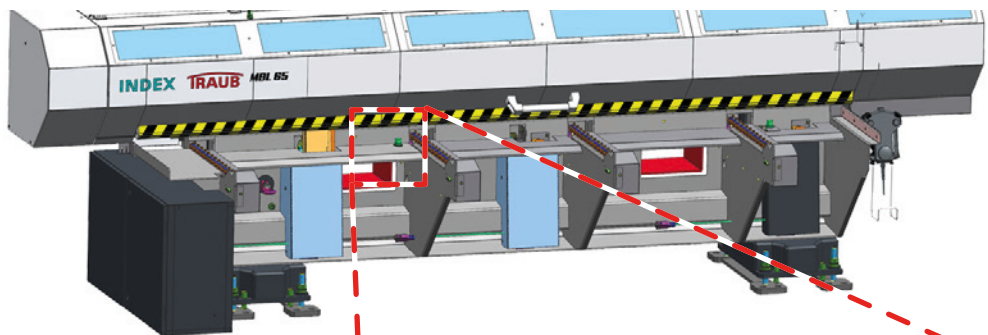
## Important when transporting by a forklift

For transport, the feed cart ( $Y$ ) and the bearing plates ( $Z$ ) were moved to a certain position and secured.



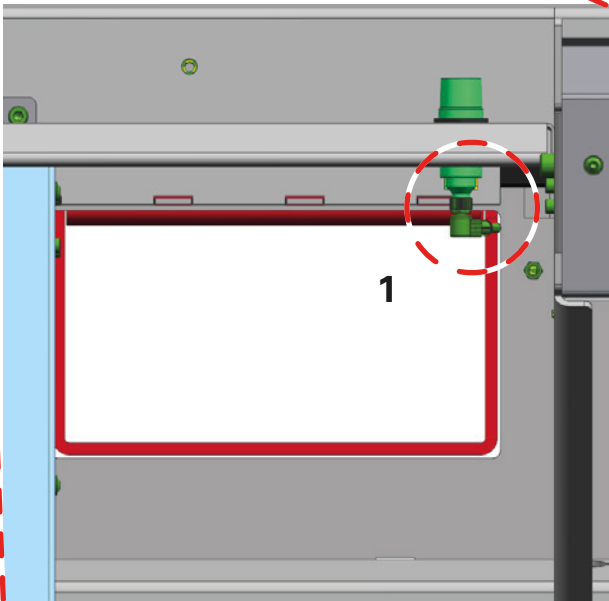
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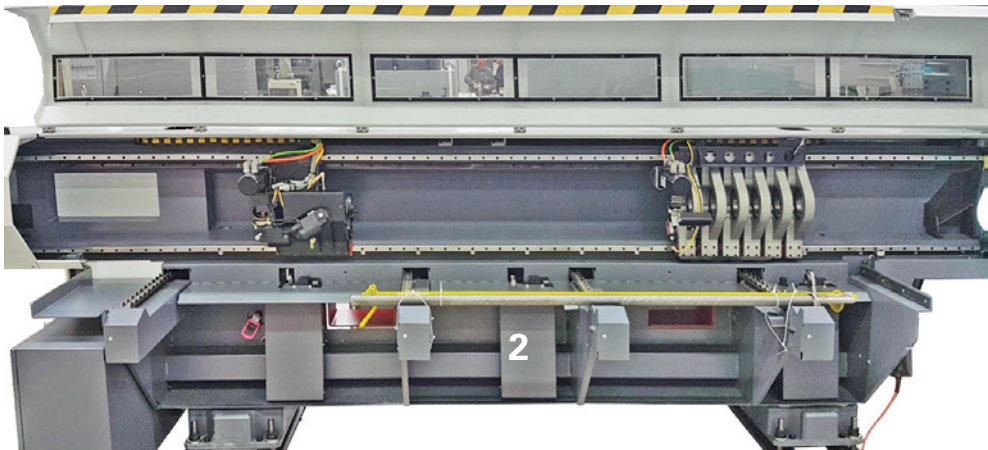


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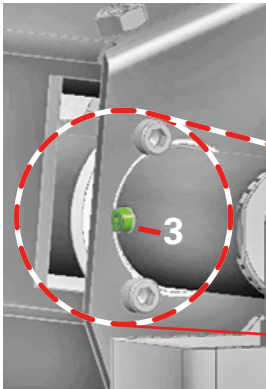
The capacitive sensor (1) was removed to prevent damage during transport with a forklift. Before commissioning the MBL65.2 sensor, it is imperative to reinstall it.



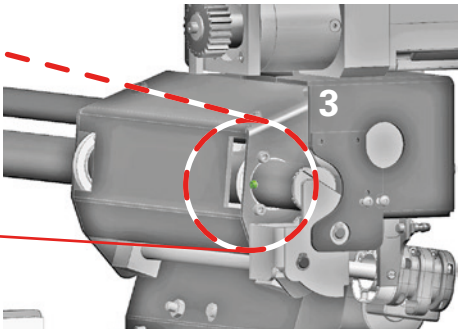
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Before commissioning the MBL65.2, mount the sync bar and push rod (2) placed on the conveyor chain again. Secure the synchronizer rod in the feed cart with the supplied screw (3).




## Suspension and lashing points

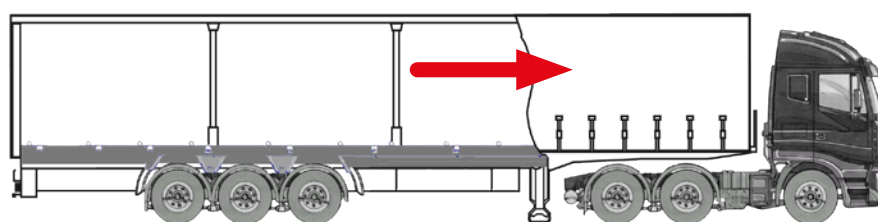
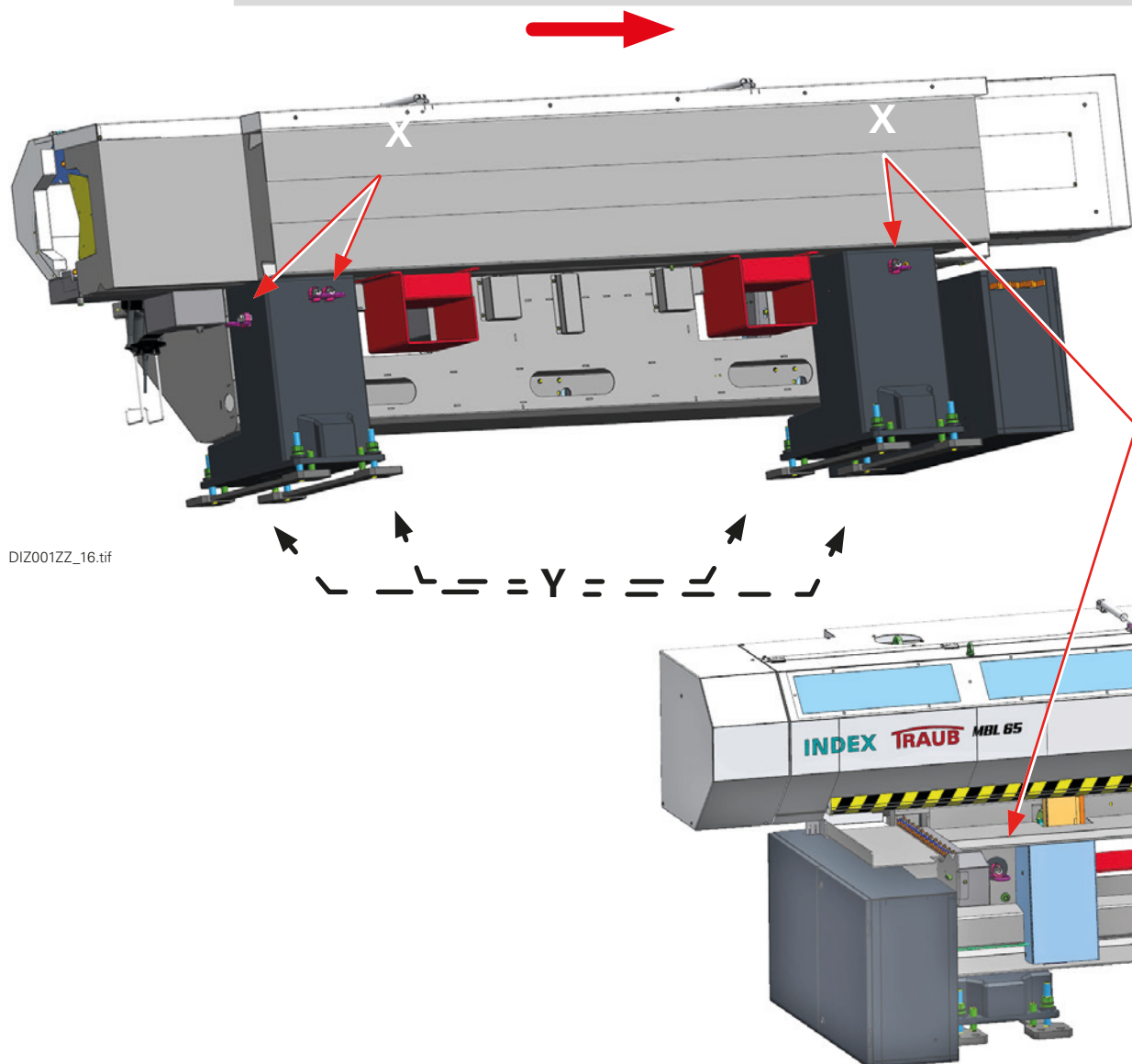
Suspension and lashing points (**X** in Fig.) are used to secure the load (inclined/diagonal lashing) on the truck or other means of transport.



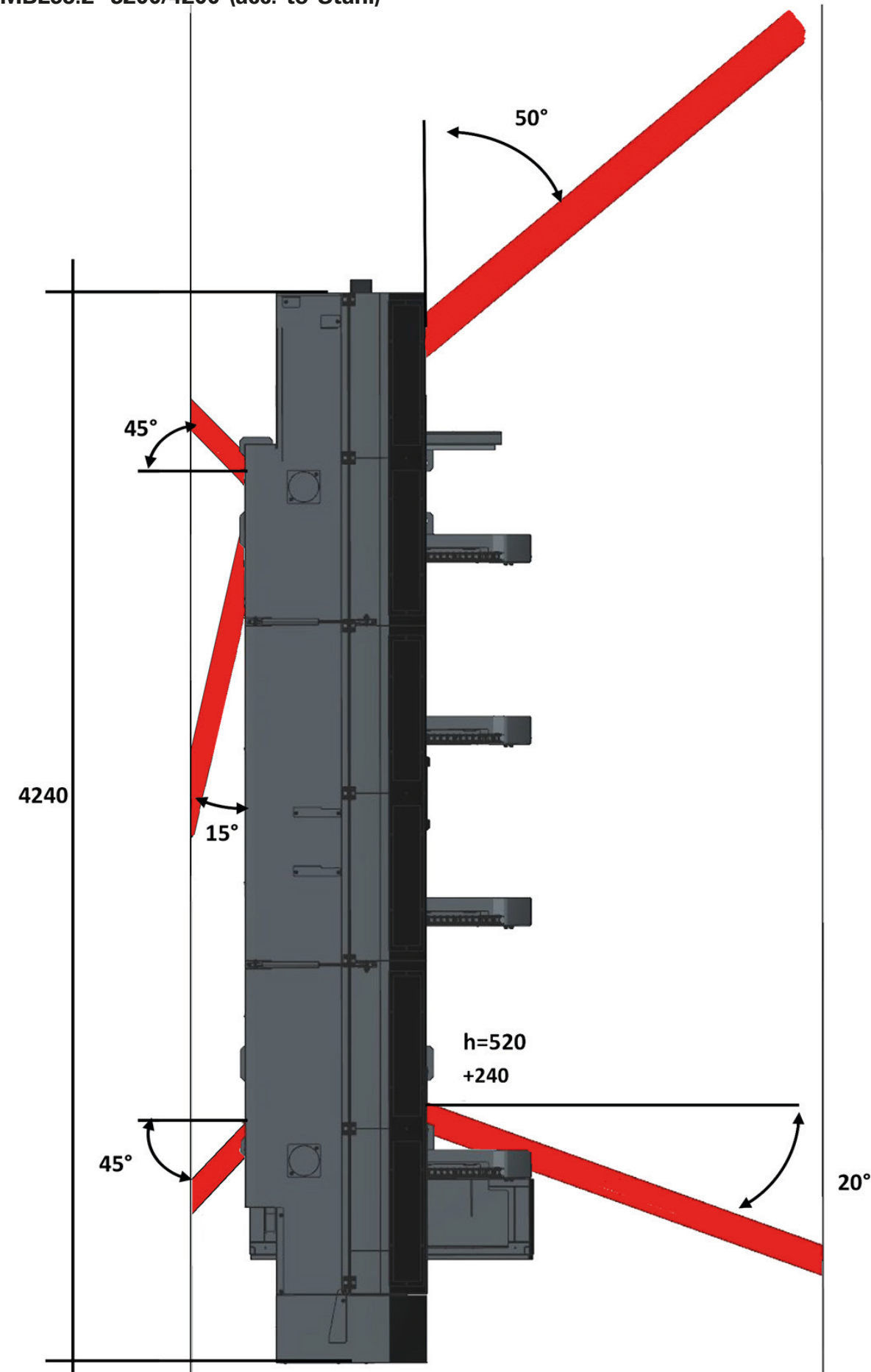
The load must be secured to prevent slipping on the loading platform using the lashing points (**X**).

In addition, anti-slip mats must be used between the loading platform and the alignment bars (**Y**) of the adjustable feet.

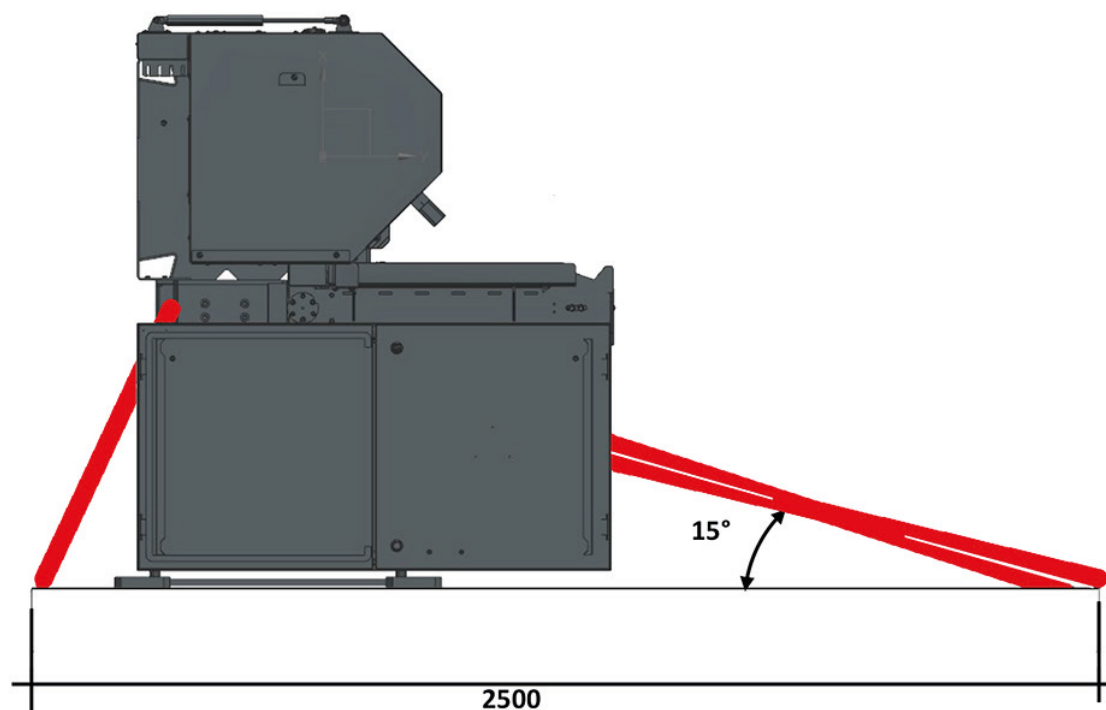
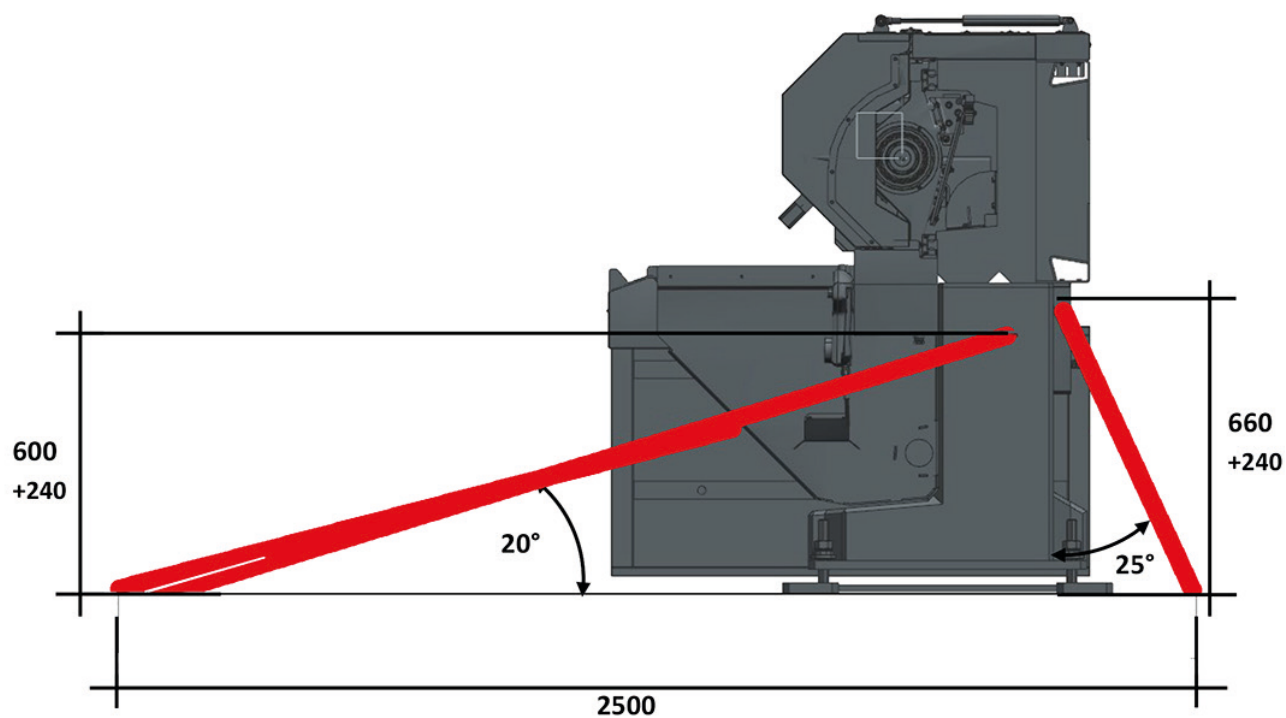
The MBL must always be transported with the control cabinet  the direction of travel.



Lashing MBL65.2 -3200/4200 (acc. to Stahl)



## Lashing MBL65.2 -3200/4200 (acc. to Stahl)



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## Transporting the bar loading magazine

### Transport with rotary trolleys



The preparation, use of the transport consoles, and the rotary trolleys for transport must be carried out exactly as described in the illustrations on the following pages.

Fig.: 1

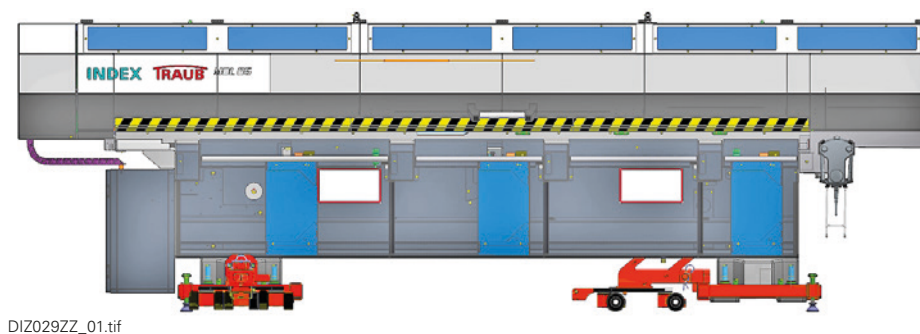
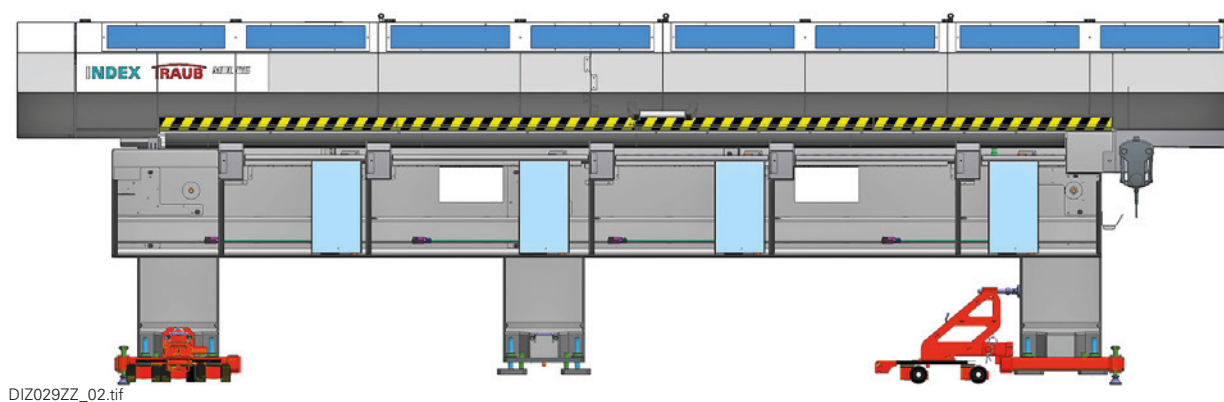


Fig.: 2



**Preparation:**

When mounting the transport devices, be sure to insert the device (X) between the foot (1) and the bar (2). See Fig.:

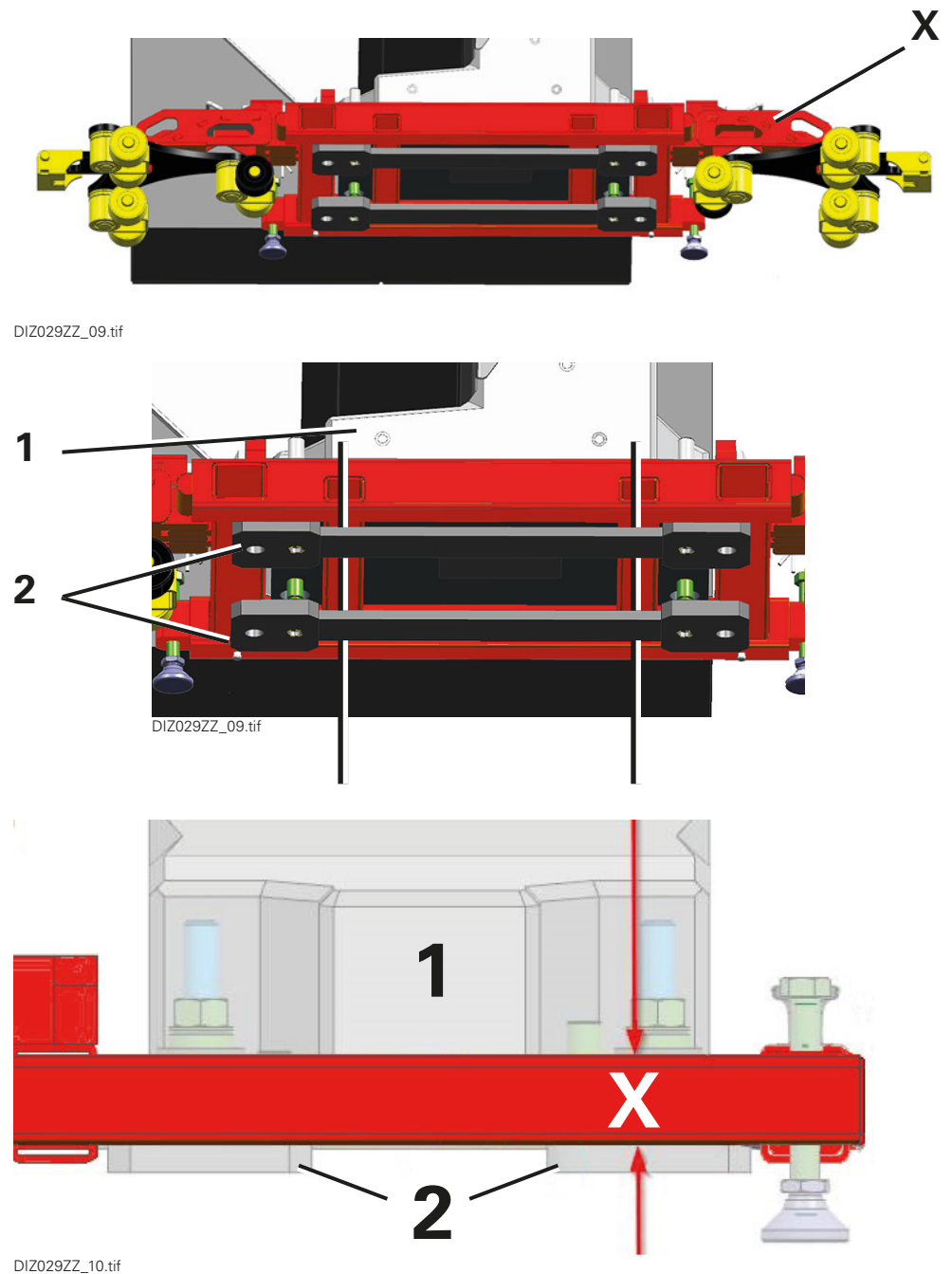


Fig.:  
Arrangement of the transport device (X) between foot (1) and bar (2)

## ... on the control cabinet side

- Prepare the locking pin/screw (**a**) for securing the rotary trolleys.
- Prepare the locking pins (**b**) for securing the two transport devices for each other.
- Back off the adjusting screws (**c**) if necessary

Fig.: 3

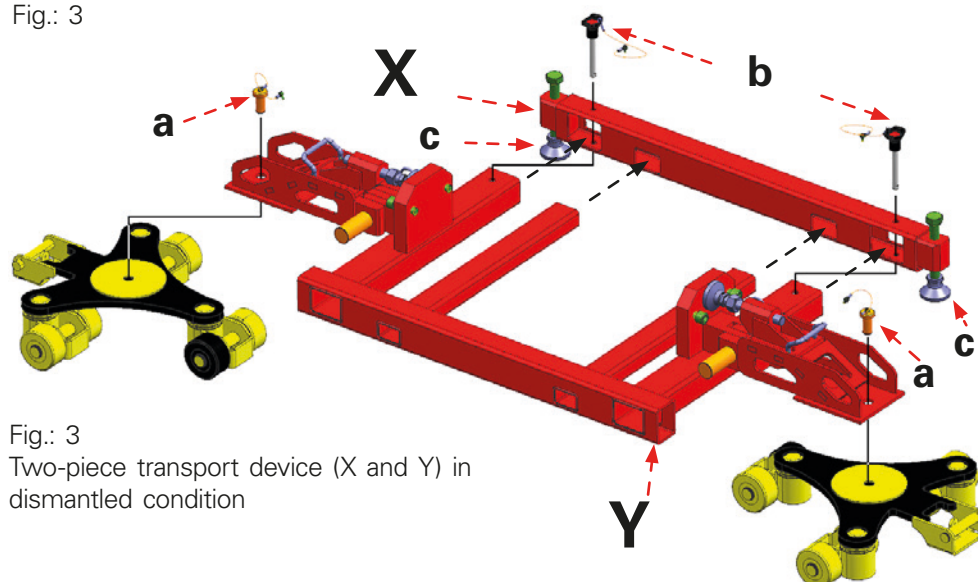
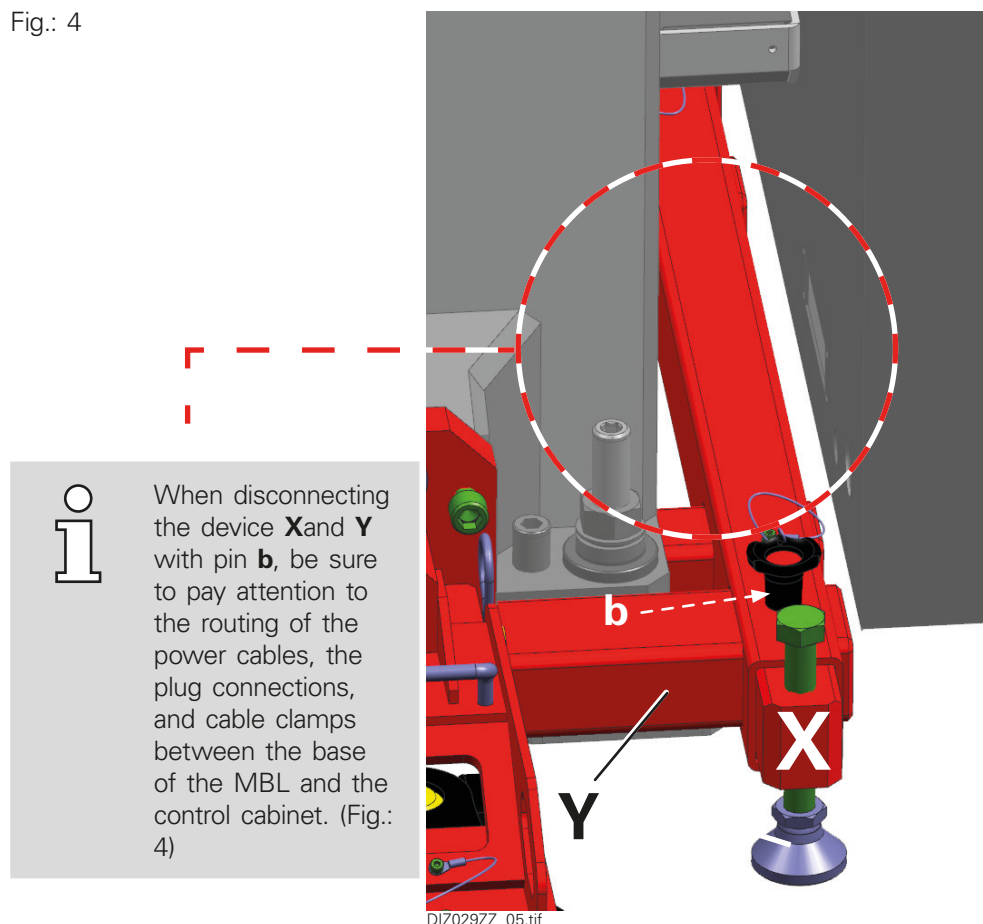


Fig.: 3  
Two-piece transport device (X and Y) in dismantled condition

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Fig.: 4

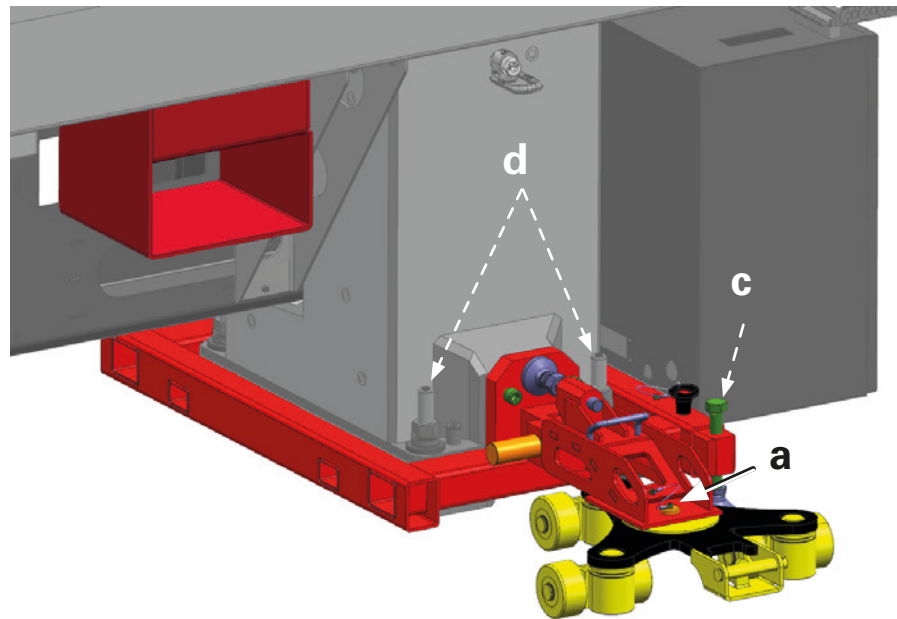


When disconnecting the device **X** and **Y** with pin **b**, be sure to pay attention to the routing of the power cables, the plug connections, and cable clamps between the base of the MBL and the control cabinet. (Fig.: 4)

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Fig.: 5

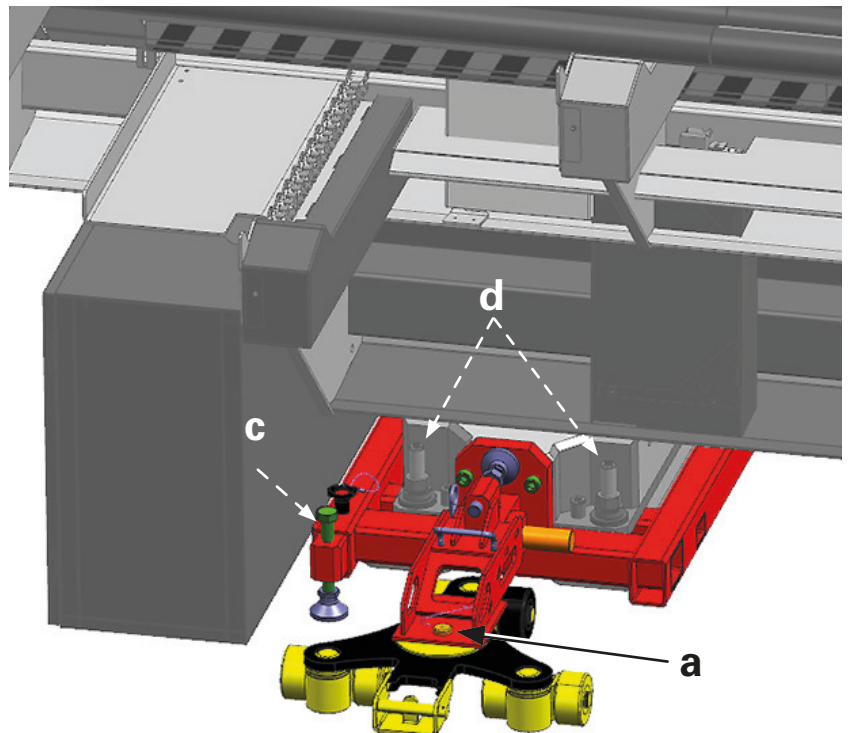


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Raise the transport device with the adjusting screws **c** (Figs. 5 and 6) until the rotary trolleys can be pushed under the device without any problems.

Disconnect the rotary trolleys with pin/screw **a** and turn back the adjusting screws **c**.

Fig.: 6

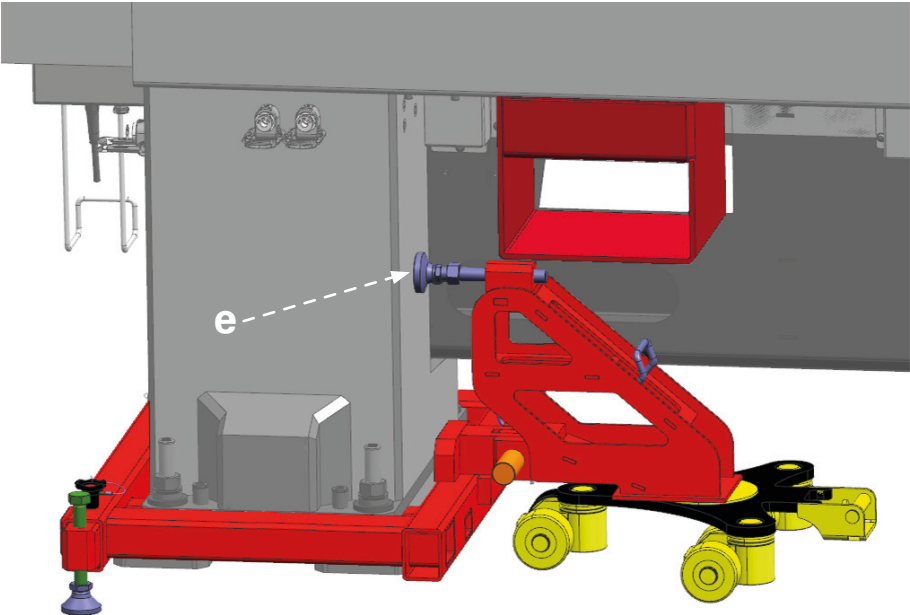


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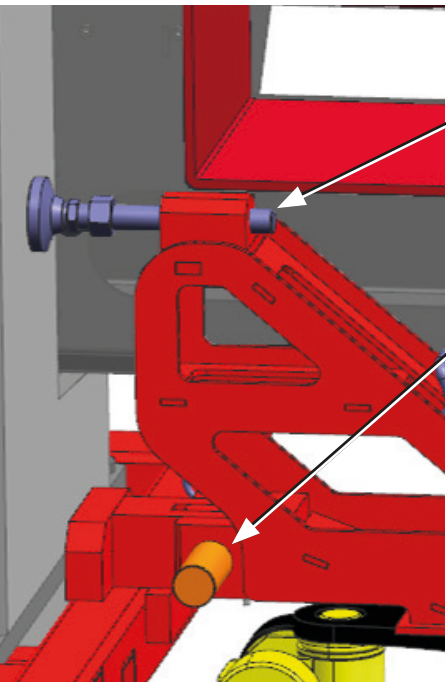
Then also turn back the adjusting screws **d** on the loading magazine until the loading magazine is fully seated on the transport device or the rotary trolleys. (Figs.: 5 and 6)

... on the spindle side

The procedure is the same for the device on the opposite side of the MBL. Only the support screw **e** at the foot of the MBL is lightly tightened before the MBL is lowered onto the device.



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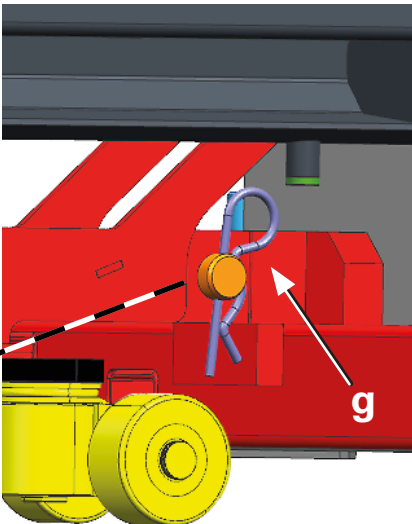


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**i** The pin (**f**) inserted for securing must additionally be secured with a split pin (**g**).



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DIZ029ZZ\_07.tif



## Installation

### Connecting to the machine

The bar loading magazine is connected with the machine through a Profibus interface.

The bar loading magazine is installed on the left front side of the machine. The distance between the outer panel of the machine and the bar loading magazine should be <10 mm.



The installation plan for the bar loading magazine can be found in Chapter 2, "Drawings and diagrams" of the machine's operating instructions, but it can also be obtained separately.

The height is adjusted using the adjusting screws in the column base plate.

### Aligning the bar loading magazine

The bar loading magazine must be aligned such that the bearing plate center is exactly aligned with the work spindle axis.

#### Measuring points:

1. Front edge of magazine.
2. At a distance of 2.0 m to 2.5 m from the front edge of the magazine.

This alignment must be carried out with utmost care, because the precision of the alignment not only determines the speeds that can be reached, but also influences vibrations, noise, surface finish, and tolerance of the workpieces.

#### Alignment options:

- with mechanical alignment parts.
- with an accurately straight circular bar stock.
- using appropriate optical, analog or digital devices

After finishing the alignment, anchor the machine and bar loading magazine firmly on the floor using fasteners that are suitable for the specific ground.

## Fastening to the floor



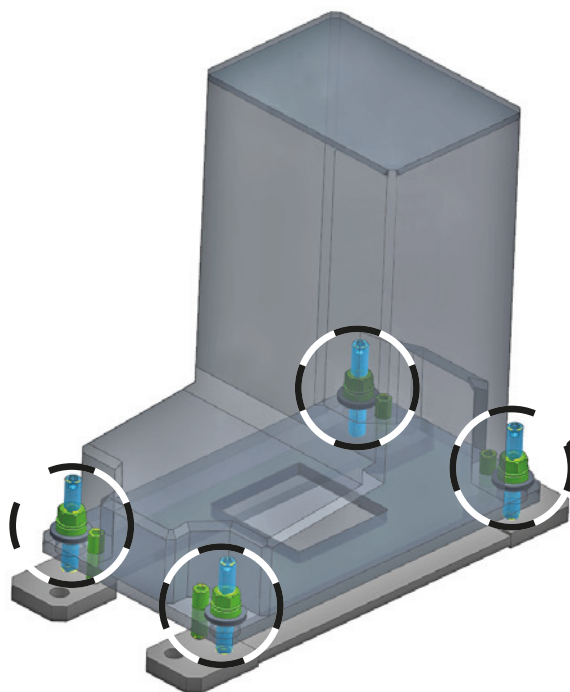
The bar loading magazine and the machine must be firmly anchored to the floor.

Before installing the machine, drill the holes and insert dowels according to the machine installation plan.

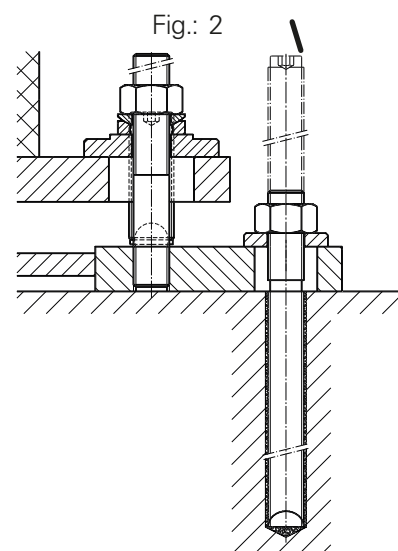
The bar loading magazine can be drilled and fastened through the alignment bars after it has been aligned. (4x per foot Figs.: 1 + 2)

The length of the mounting screws depends on the floor condition and may require some adjustment.

Fig.: 1



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## Commissioning

Before commissioning the MBL65.2, it must be connected to the machine via the electrical interface.



The guidelines and regulations applicable in the country of use must be followed.

## External data transfer



**Data lines must not be routed directly next to power lines.**

For data transfer to/from external computers or storage devices, suitable metal conduits must be installed for the data lines.



# INDEX

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