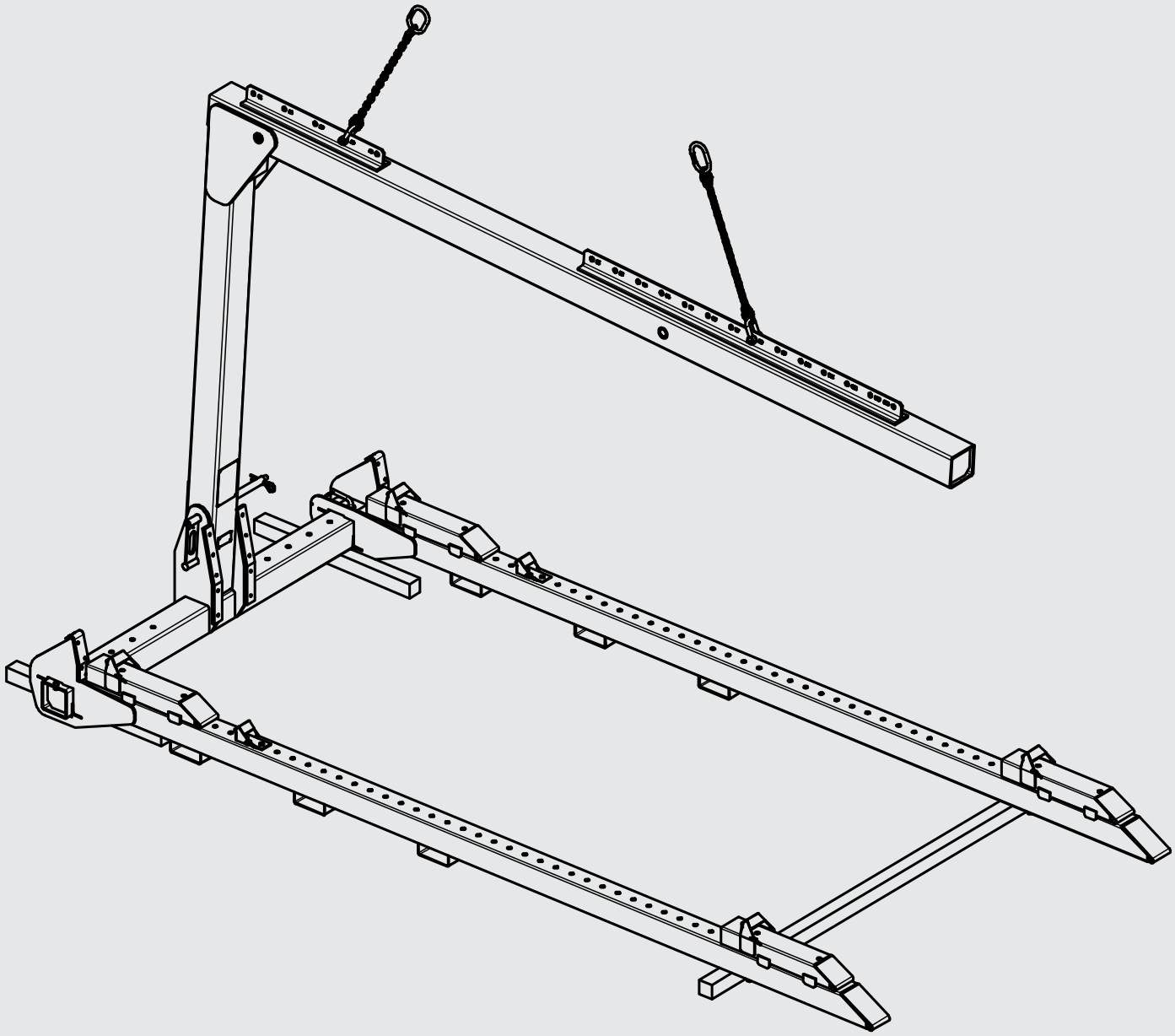
TOPMAX
Lifting Fork

Operating Instructions



HÜNNEBECK
BY BRANDSAFWAY

Content

1 Product description

1.1 Introduction

The TOPMAX Lifting Fork can be used to simultaneously lift and move 2no. TOPMAX Table Forms or 2no. H 20 Table Forms with a crane. The Table Form props do not need to be removed when transporting by crane. This means that, after stripping, the Table Forms can be be quickly transported e.g. to the next-higher level and formwork assembly can begin immediately.

The maximum working load of the TOPMAX Lifting Fork is 1250 kg. The maximum size of single H 20 Table Forms that can be lifted is 6.00 m long and 3.00 m wide.

The TOPMAX Lifting Fork can be easily folded up for transport and storage. Time-consuming disassembly is not required. The TOPMAX Lifting Fork is hot-dip galvanised. It can be used at ambient temperatures between -20 °C and +60 °C.

The maximum opening of 2.25 m allows the device to be used even with parapets, beams and installed edge protection.

1.2 Intended use

The TOPMAX Lifting Fork is a load suspension device with a maximum working load of 1250 kg. It is intended to be used only to simultaneously transport by crane 2no. HÜNNEBECK TOPMAX Table Forms or 2no. H 20 Table Forms up to 6.00 m in length and 3.00 m in width. Transporting other table sizes requires separate verification. Transporting table forms made by other manufacturers is not permitted.

The device may be used only with a double-strand suspension with a length of ≥ 5.0 m. The double-strand suspension should be attached to the chain sling. The slinging points can be found in the tables on page 31 and page 32.

The opening angle of the lifting gear on the crane hook may not exceed 60°.

2 General information

2.1 About these instructions

These original instructions describe the assembly and use of the TOPMAX Lifting Fork.

2.2 Safety instructions

- The contractor may assign only persons properly trained and familiar with the required tasks as described in the risk assessment and the operating instructions to use the load suspension equipment.The operating instructions must be readily available at all times.
- Never stand or walk under suspended loads. Operate the TOPMAX Lifting Fork such that persons within the swivel range of the crane are not in danger.
- Always wear suitable personal protective equipment (PPE) when working with or near the Lifting Fork.
- Never transport persons on the Lifting Fork or on the load lifted with the Lifting Fork.
- The TOPMAX Lifting Fork may not be used for loads heavier than the stated load-bearing capacity.
- Attach formwork elements such that they are symmetrical to their centre of gravity.
- Do not transport formwork elements with loose items on them.

General information

- Lift, transport and set down loads in a manner that prevents them from unintentionally tipping over, falling apart or slipping.
- Loads may not be transported at wind speeds greater than 5 Bft (8.0 to ≤ 10.8 m/s). The load must be able to be transported safely.
- All loads must be lifted, transported and set down without damaging the TOPMAX Lifting Fork.
- Lower the TOPMAX Lifting Fork to the ground such that it cannot tip over, fall or slip. When storing the TOPMAX Lifting Fork, the device must be secured to prevent any tipping, falling or slipping.
- The TOPMAX lifting fork may be attached to the integrated chain slings only with suitable lifting gear pursuant to DIN EN 818 (double-strand suspension, length ≥ 5.00 m).
- The TOPMAX Lifting Fork may not be attached directly to the integrated chain slings on the crane hook.
- The opening angle of the lifting gear may not exceed 60°. Steel wires and steel chains may not be knotted.
- Untangle twisted chains before attaching them.
- Visually inspect the TOPMAX Lifting Fork before each use and during operation, checking for faults such as deformation, cracks, breaks, incomplete labelling, etc.
- To ensure that the safety of the device is not impaired, store the TOPMAX Lifting Fork such that it is protected from weather conditions and aggressive substances.
- The contractor has to ensure that a TOPMAX Lifting Fork with deficiencies that could affect safety is no longer used.
- Repairs to the TOPMAX Lifting Fork may be performed only by the manufacturer.
- The contractor must ensure that, before operation begins, the TOPMAX Lifting Fork has been inspected by a qualified person and any detected deficiencies have been remedied. Check the inspection date before each use!
- The contractor is responsible for having the TOPMAX Lifting Fork inspected by a qualified person at least once a year.
- After repairs and when damage or other extraordinary circumstances that could affect the load-bearing capacity of the TOPMAX Lifting Fork have occurred, the contractor is responsible for having the equipment inspected by a qualified person.

Unless stated otherwise, all dimensions in mm.

2.3 Conventions in this user guide

2.3.1 Warnings and notes

DANGER	**DANGER!** DANGER indicates a hazardous situation that, if not avoided, will cause death or serious injury.
WARNING	**WARNING!** WARNING indicates a hazardous situation that, if not avoided, can cause death or serious injury.
CAUTION	**CAUTION!** CAUTION indicates a hazardous situation that, if not avoided, can cause minor or moderate injury.
NOTE	**NOTE!** NOTE indicates a hazard that can cause property damage.
	This note indicates that an additional inspection is required.
	This note shares practical experience with the user, e.g. how to perform a task more easily or quickly.
	This note indicates particularly important information, e.g. that a requirement has to be fulfilled.
	This symbol indicates that additional information from other documents is required. These documents could be user guides or operating instructions for other products.

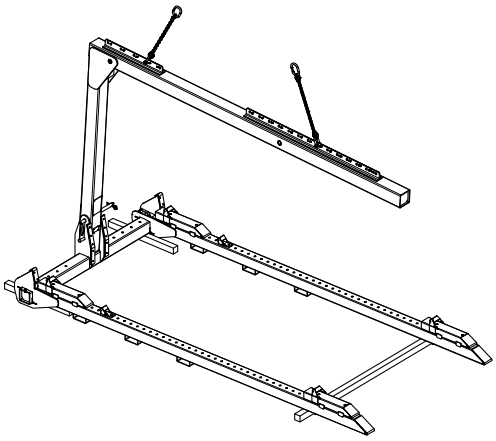
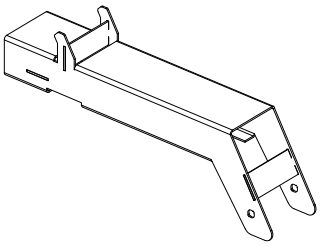
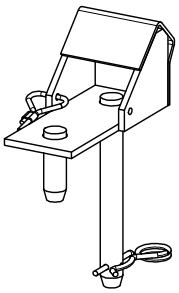
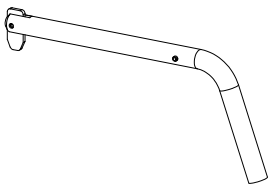
2.3.2 Instructions

In this user guide instructions are always identified with the word **Step**, e.g.

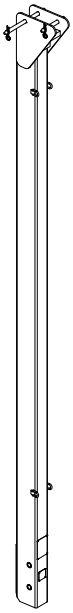
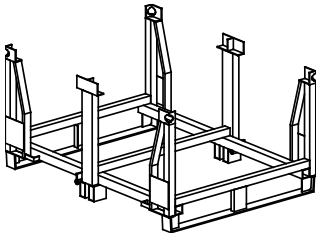
Step 1 Insert the locking bolt into the bore from the outside.

Step 2 Secure the bolt with the spring cotter pin.

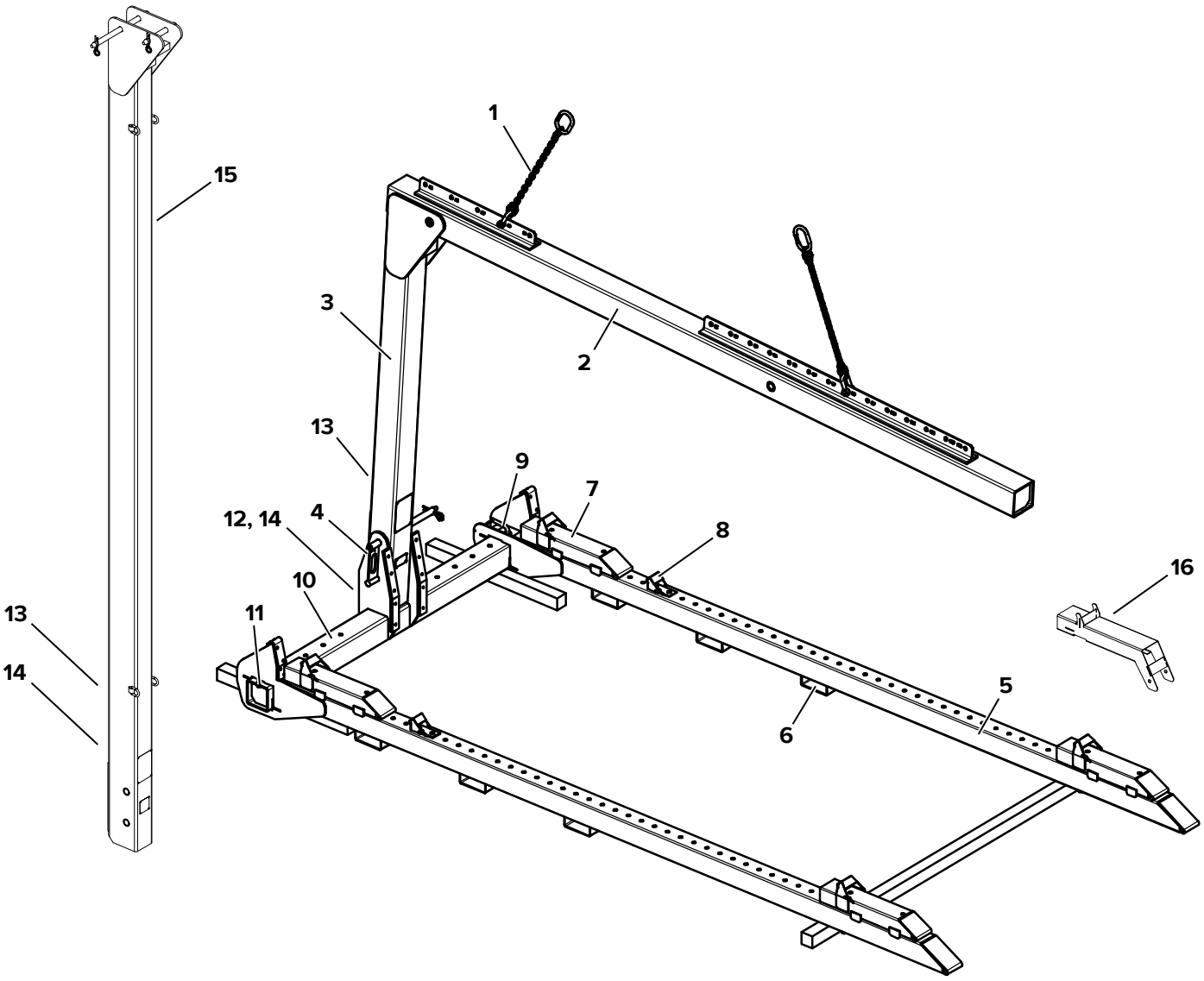
3 Components

	Component	Code	Weight [kg]
	**TOPMAX Lifting Fork**	**603074**	**961.93**
	**TOPMAX Spacer Plug Adapter** Needed for longitudinal transport of TOPMAX Table Forms 1.8 m. Refer to page 23.	**607200**	**9.82**
	**Lifting Stopend** Refer to page 24.	**603097**	**1.94**
	**TOPMAX Locking Pin** Used to attach the TOPMAX Spacer Plug Adapter. Refer to page 23.	**603067**	**0.49**

Unless stated otherwise, all dimensions in mm.

	Component	Code	Weight [kg]
	**TOPMAX Vertical Post 600** Longer vertical post used to bridge a level. Includes Lock Pin. Refer to page 15.	**603596**	**421.45**
	**Euro Stacking Frame 160/120** Refer to page 37.	**566494**	**84.02**

4 Overview



1 Chain sling
2 Traverse Beam
3 Vertical Post
4 Lock Pin (Vertical Post)
5 Adjustable fork arm
6 Forklift lug
7 Spacer Plug
8 Lifting Stopend
9 Safety Pin (fork arm)
10 Cross Bar
11 Locking Bolt
12 ID plate with code
13 Instruction plate
14 Inspection tag

Accessories

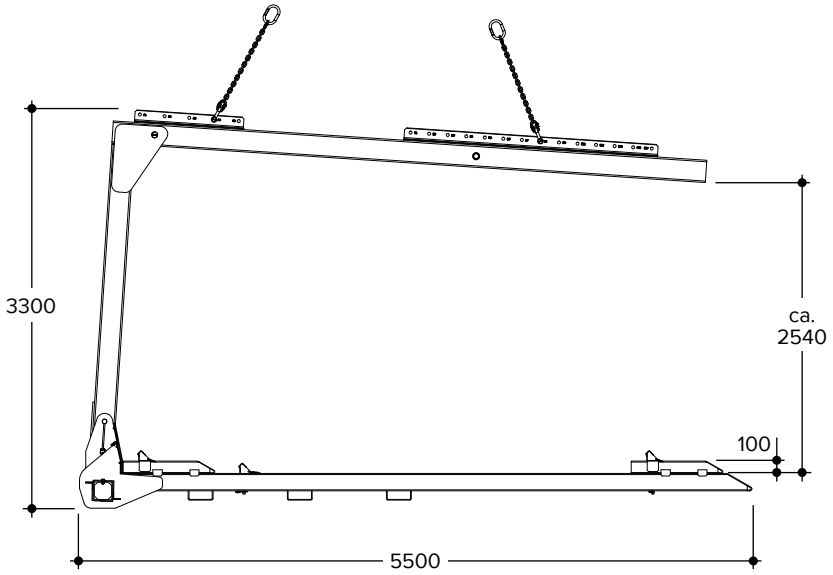
15 Vertical Post 600 (code:603596)
16 Spacer Plug Adapter (code:607200)

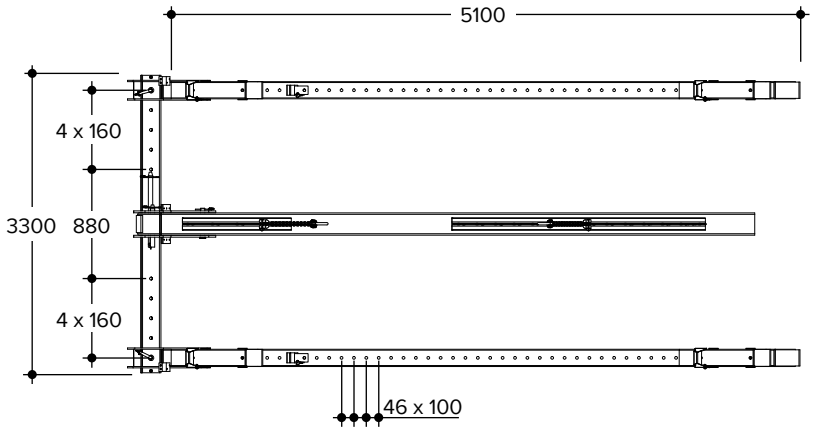
Unless stated otherwise, all dimensions in mm.

5 Dimensions and weight

TOPMAX Lifting Fork, code: 603074

Dead weight: 900 kg





6 Load-bearing capacity

Standard configuration of Lifting Fork	
Permitted load-bearing capacity p	12.50 kN
Dead weight g	9.00 kN
Maximum load for crane q	21.50 kN

Lifting Fork with Vertical Post 600	
Permitted load-bearing capacity p	12.50 kN
Dead weight g	12.00 kN
Maximum load for crane q	24.50 kN

Unless stated otherwise, all dimensions in mm.

7 Before using the equipment

Before using the TOPMAX Lifting Fork, inspect it for any visible damage.

Also verify that the ID plate (**A**) and the inspection tag (**B**) are in place and legible. The inspection tag is located below the ID plate. The inspection tag on the Vertical Post 600 is below the instruction plate (**C**).

The TOPMAX Lifting Fork may be operated only if it has been inspected within the last year.

Before using the device, read the information on the instruction plate (**C**).

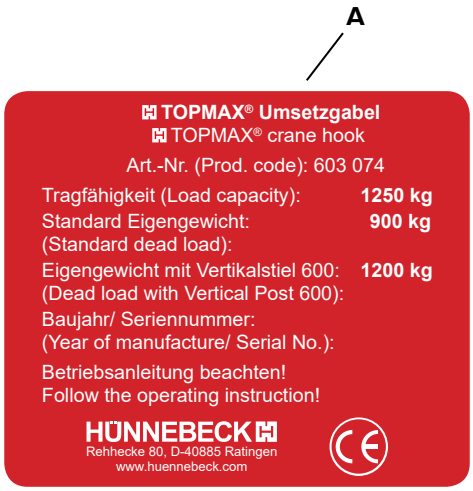
ID plate missing or illegible!

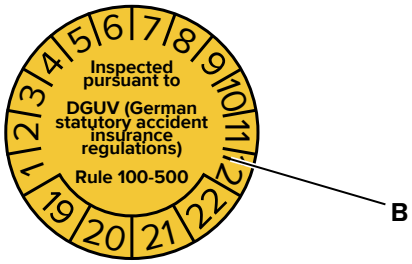
The Lifting Fork may not be used if the ID plate is missing or illegible. The manufacturer or an authorised agent must then inspect the equipment and issue a new plate.

Inspection tag missing!

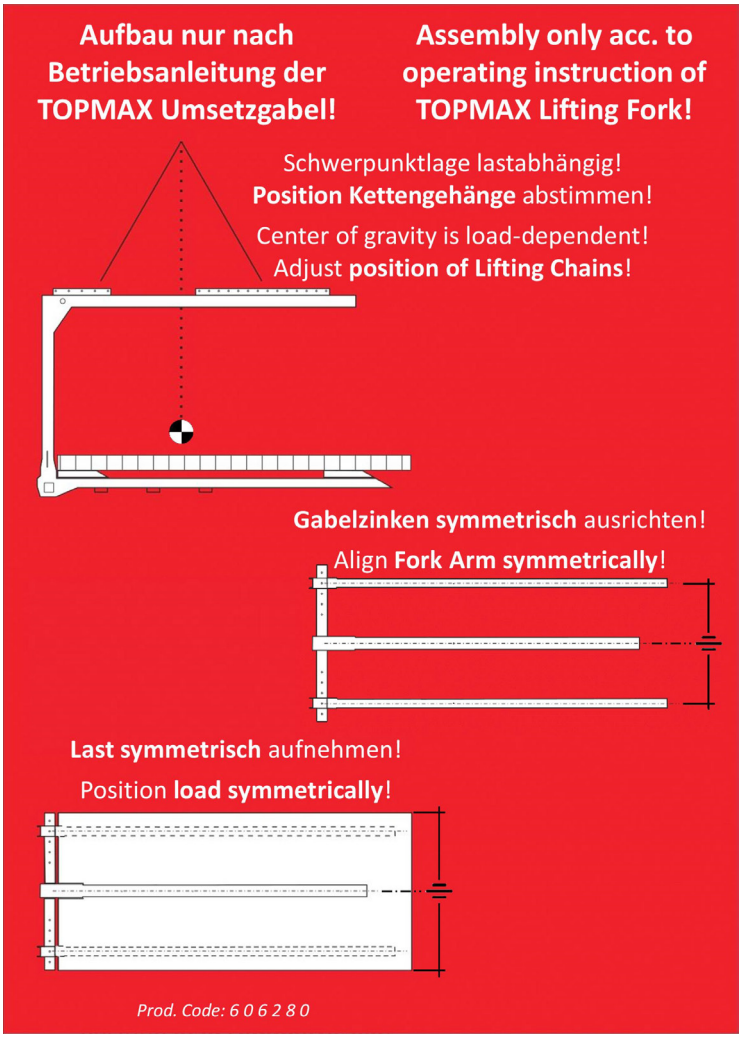
The Lifting Fork may not be used if the inspection tag is missing or illegible. The manufacturer or an authorised agent must then inspect the equipment and issue a new tag. This applies only to HÜNNEBECK rental equipment pursuant to test certification as specified by DGUV (German statutory accident insurance regulations) 100-500.

The German ordinance on industrial safety and health (BetrSichV) applies to the use of equipment that is not rented.





Unless stated otherwise, all dimensions in mm.


Aufbau nur nach Betriebsanleitung der TOPMAX Umsetzgabel!
Assembly only acc. to operating instruction of TOPMAX Lifting Fork!
Schwerpunktlage lastabhängig!
Position Kettengehänge abstimmen!
Center of gravity is load-dependent!
Adjust position of Lifting Chains!
Gabelzinken symmetrisch ausrichten!
Align Fork Arm symmetrically!
Last symmetrisch aufnehmen!
Position load symmetrically!
Prod. Code: 6 0 6 2 8 0

C

8 Assembling Lifting Fork

The TOPMAX Lifting Fork is delivered in a Stacking Frame. You need only attach the Vertical Post to the Lifting Fork and adjust the fork arm (Refer to Section 8.1 on page 12, bottom).

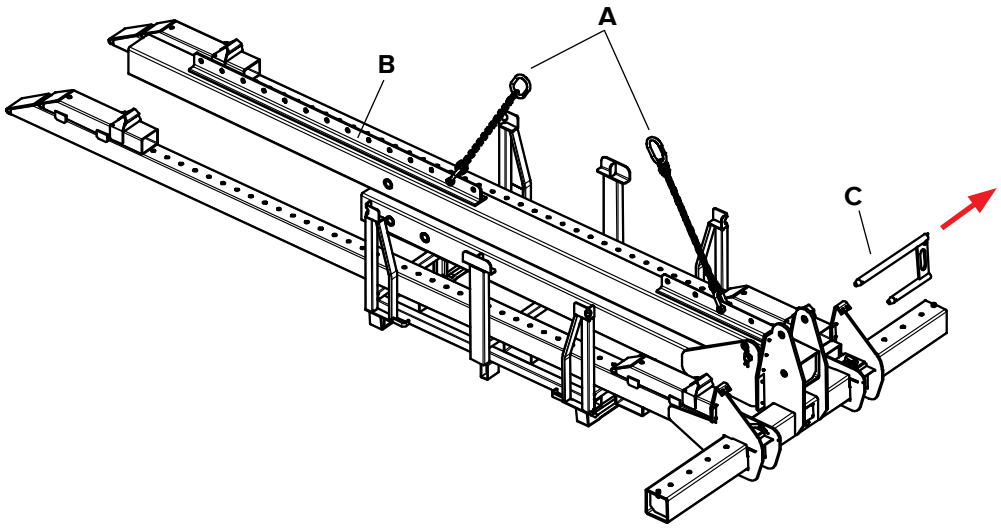
We do not recommend disassembling the Lifting Fork completely. Instead, disassemble and store it as described in Section 10.3 on page 37.

If for whatever reason it becomes necessary to assemble the Lifting Fork beginning with the individual components, follow the instructions in Section 8.2 on page 14.

8.1 Setting up Lifting Fork

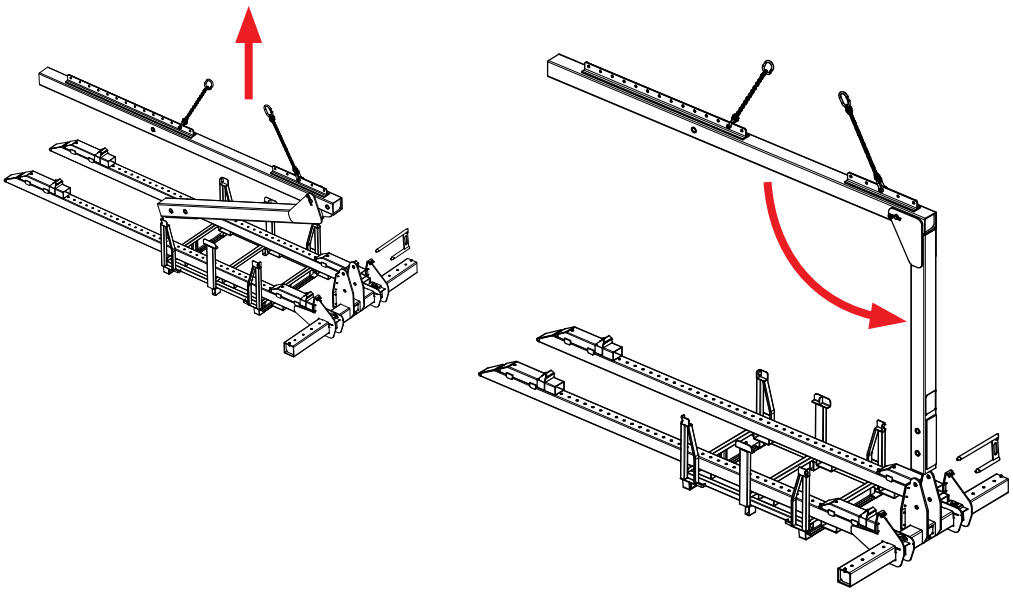
Step 1 Remove the steel bands and attach the chain slings (**A**) on the Traverse Beam (**B**) (position A3/B2) to the crane.

Step 2 Pull the Spring Cotter Pin out of the Lock Pin (**C**) and pull the Lock Pin until the Traverse Beam (**B**) in released completely.



⚠ CAUTION **Risk of injury!** The Vertical Post can swivel out! Stay out of the swivel range of the Vertical Post!

Step 3 Carefully lift the Traverse Beam and Vertical Post with the crane. The Traverse Beam and Vertical Post will unfold as they are raised.

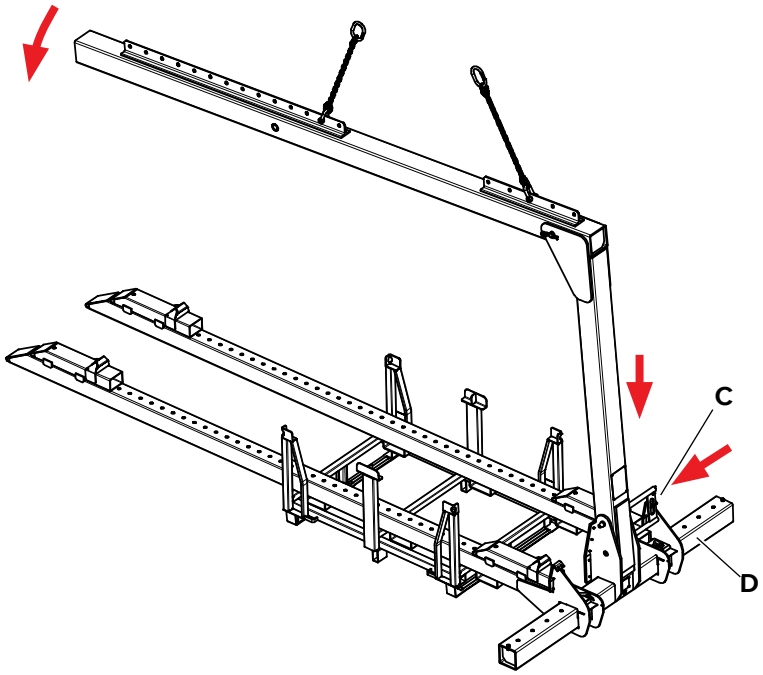


Unless stated otherwise, all dimensions in mm.

Step 4 Lower the Traverse Beam and Vertical Post, and guide the Vertical Post into the socket on the Cross Bar (**D**).

Step 5 First insert the long bolt of the Lock Pin (**C**) in the upper hole.

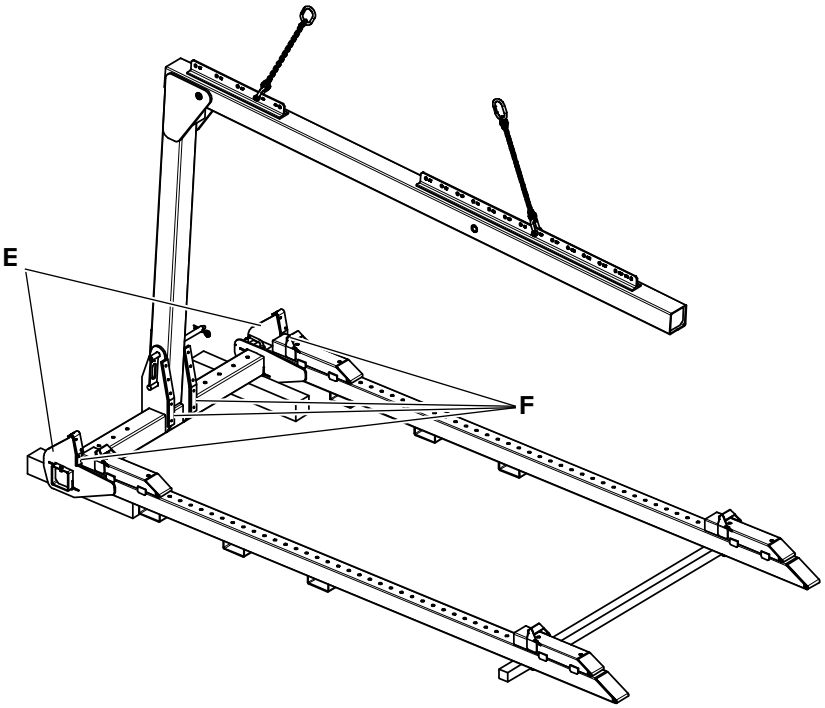
Step 6 Then carefully lower the Traverse Beam a little more until it tilts forward and the shorter bolt can be pushed into the lower hole.



Step 7 Slide the Lock Pin all the way in and secure it with the Spring Cotter Pins.

Step 8 Lift the Lifting Fork out of the stacking frame.

Step 9 Adjust the fork arms (Refer to page 25).



The reinforcement plate (**E**) must be on the outside of the fork arms. The plastic inserts (**F**) have to be on the inside. All plastic inserts should face the ends of the fork arms.

8.2 Assembling Lifting Fork from individual components

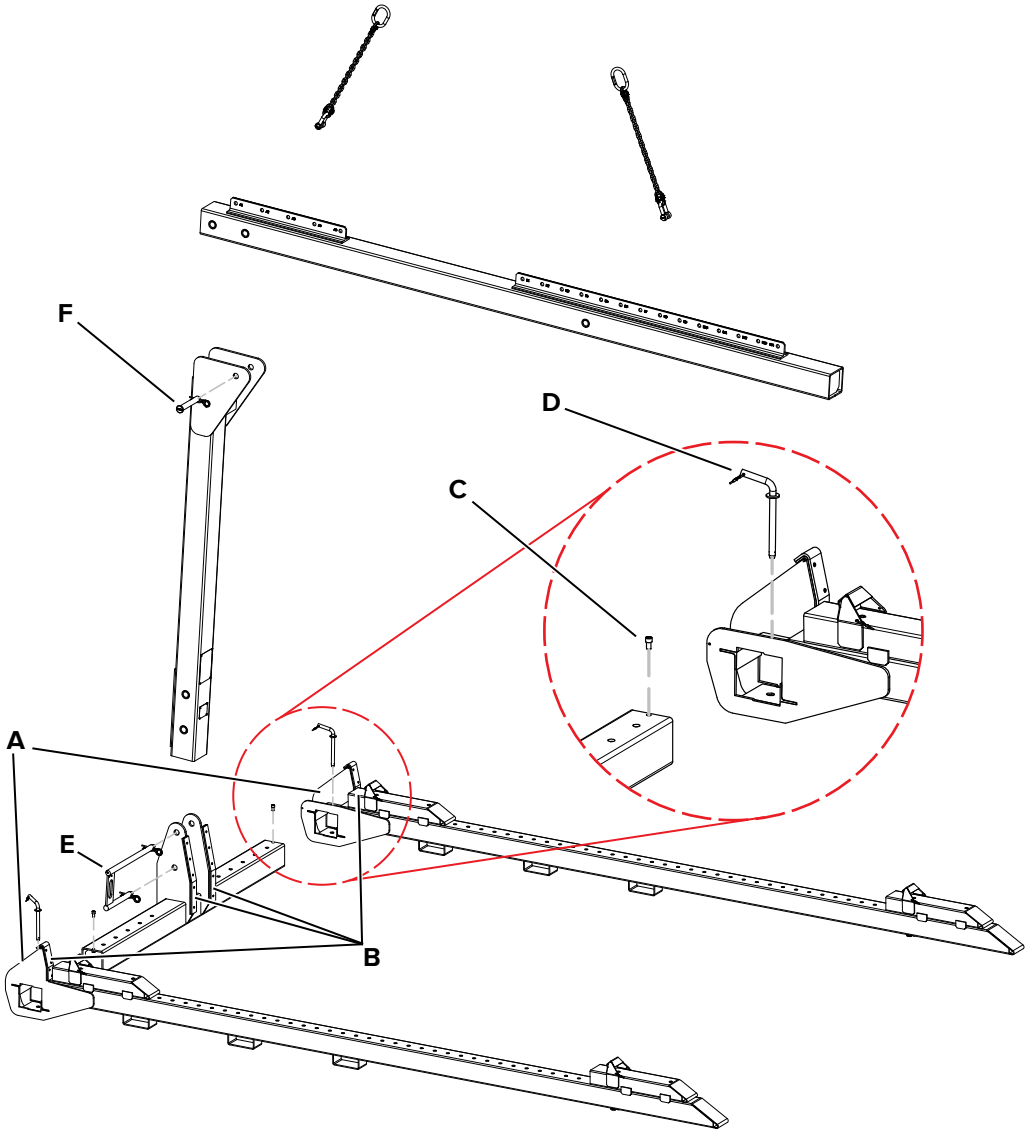
Step 1 Remove both cylinder bolts M14 × 25 (**C**) with Hexagon Nuts M14-8 from the Cross Bar. Use an Allen key 12 mm and a spanner w.a.f 21 to do this.

Step 2 Slide both fork arms onto the Cross Beam and secure with the Safety Pin (**D**) (Also refer to Section 8.10). The reinforcement plate (**A**) must be on the outside of the fork arms. The plastic inserts (**B**) have to be on the inside. All plastic inserts should face the ends of the fork arms.

Step 3 Screw both cylinder bolts M14 × 25 (**C**) with Hexagon Nuts M14-8 onto the Cross Bar.

Step 4 Use the pin (**F**) to join the Vertical Post and Traverse Beam to one another.

Step 5 Use the Lock Pin (Vertical Post) (**E**) to attach the Vertical Post to the Cross Bar.



Unless stated otherwise, all dimensions in mm.

8.3 Using Vertical Post 600 (code:603596)

The Vertical Post 600 is an accessory for the Lifting Fork. The Vertical Post 600 can be used to bridge a whole level when moving TOPMAX Table Forms. This is necessary when table forms are to be removed not from the upper most level but from a lower level.

The required Lock Pin is included with the Vertical Post 600.

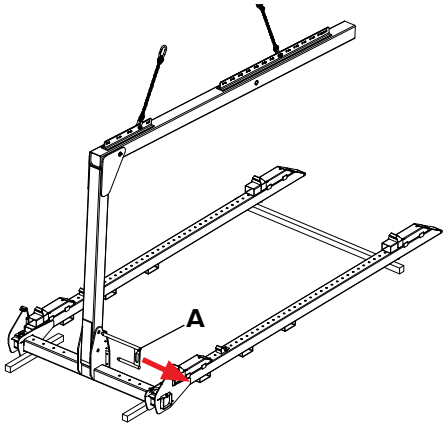
☞	The TOPMAX Lifting Fork cannot be placed in the Euro Stacking Frame when the Vertical Post 600 is attached. If the Lifting Fork is to be placed in the Stacking Frame, attach the standard Vertical Post instead.

8.3.1 Detaching standard vertical post

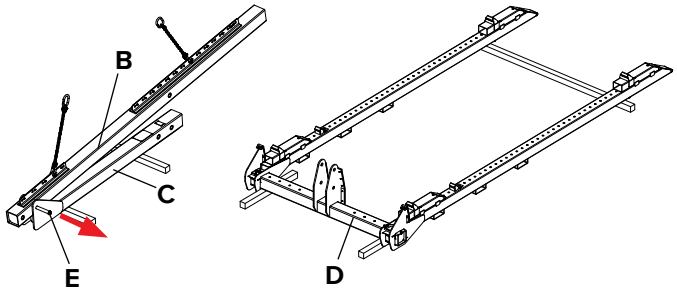
Before the Vertical Post 600 can be attached, the standard vertical post has to be removed.

⚠ CAUTION **Risk of injury!** The vertical post can swivel out! Stay out of the swivel range of the vertical post!

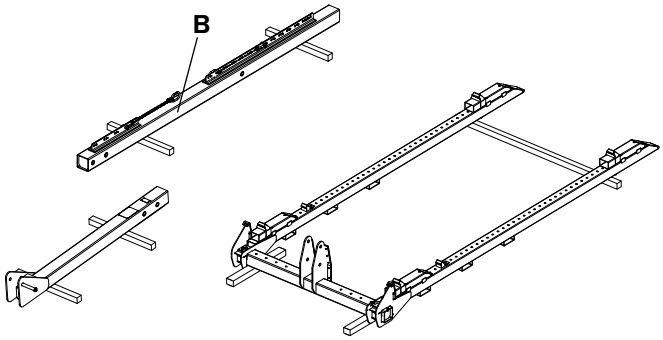
Step 1 Attach the Lifting Fork to the crane, lift is slightly and extract the Spring Cotter Pin from the Lock Pin (**A**). Remove the Lock Pin.



Step 2 Lift the Traverse Beam (**B**) and the vertical post (**C**) out of the Cross Bar (**D**) and place them aside. Extract the pin from the Traverse Beam (**E**).

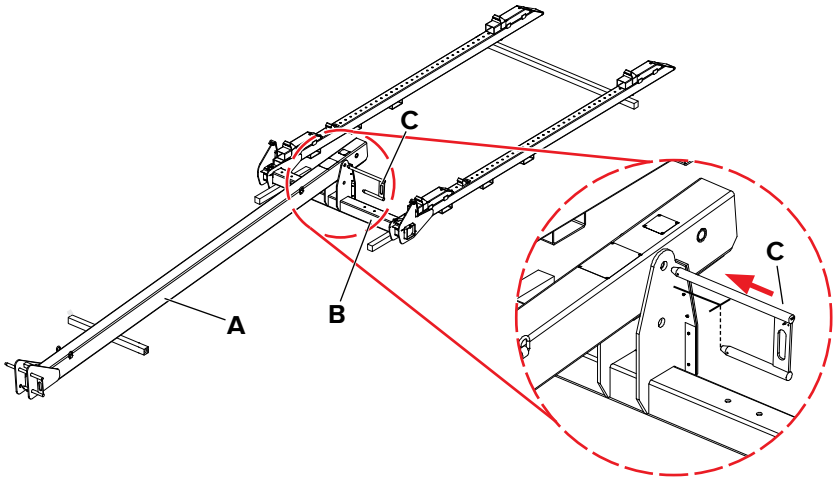


Step 3 Place the Traverse Beam (**B**) aside.

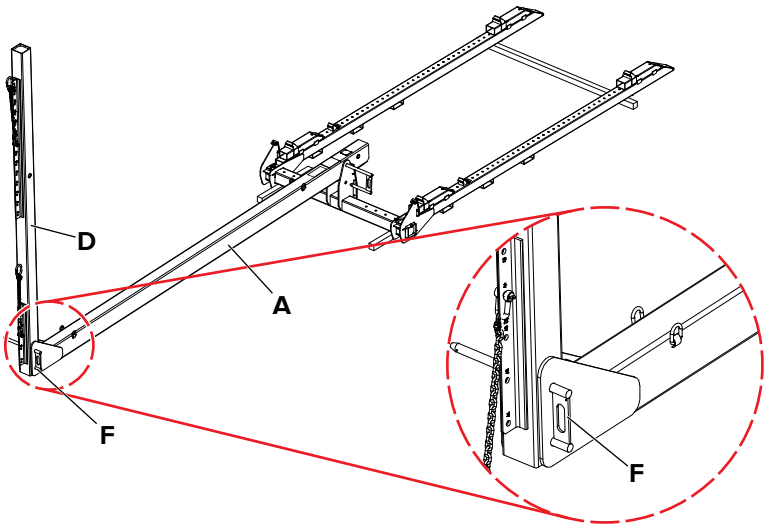


8.3.2 Attaching Vertical Post 600

Step 1 Attach the Vertical Post 600 (**A**) to the crane and place it in the seat on the Cross Bar (**B**). Insert the long pin of the Lock Pin (**C**) in the upper hole to secure it. Secure the Lock Pin with the Spring Cotter Pin (do not insert the short pin).

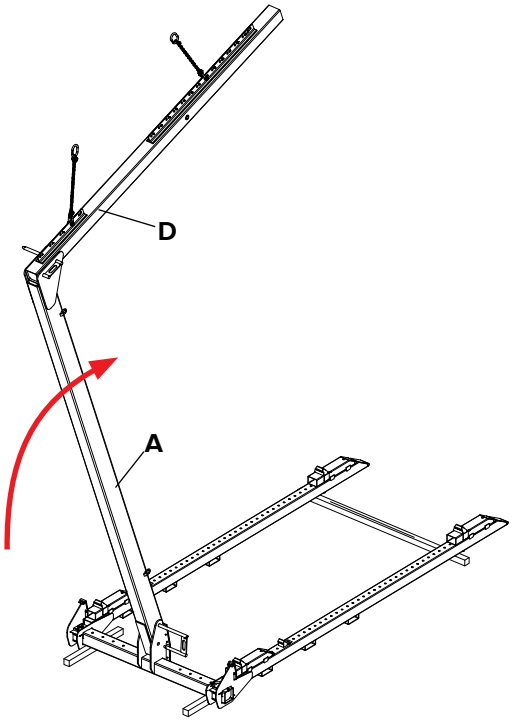


Step 2 Attach the Traverse Beam (**D**) to the crane and place it in the seat on the Vertical Post 600 (**A**). Fasten the Traverse Beam to the Vertical post 600 with the additional Lock Pin (**F**). Secure the Lock Pin with a Spring Cotter Pin.

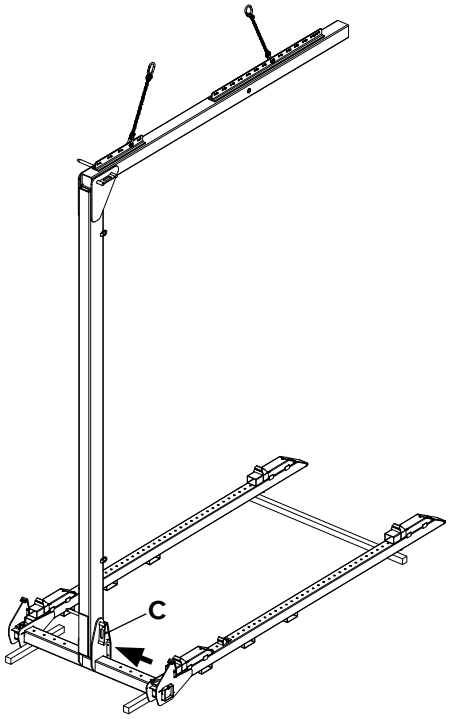


Unless stated otherwise, all dimensions in mm.

Step 3 Raise the assembly constructed of the Traverse Beam (**D**) and the Vertical Post 600 (**A**).



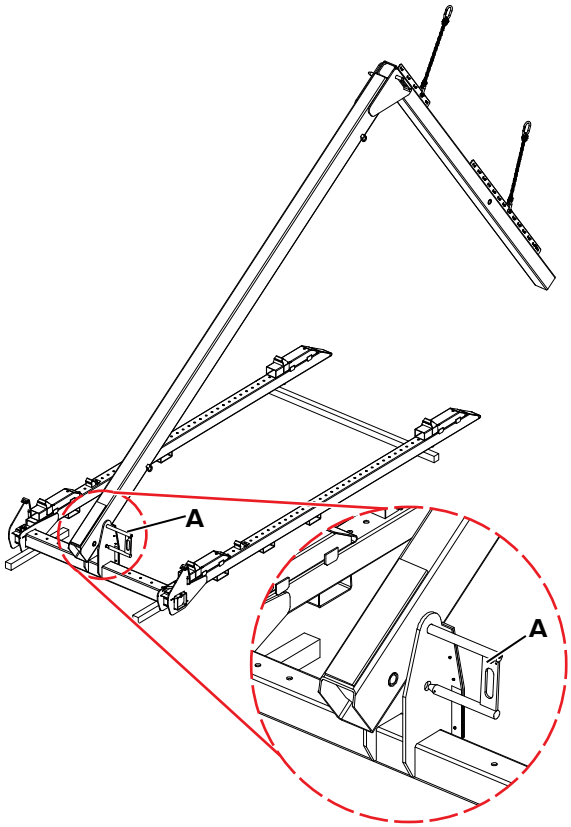
Step 4 Slide the Lock Pin (**C**) all the way in and secure with the Spring Cotter Pin. The Lifting Fork is now ready to be used.



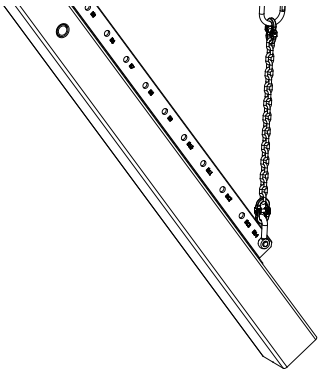
8.4 Detaching Vertical Post 600

Step 1 Place the Lifting Fork on square timbers (80 x 80 mm).

Step 2 Pull the short pin out of the Lock Pin (**A**). The long pin remains in the Lifting Fork. Lower the assembly constructed of the Traverse Beam and the Vertical Post 600 forwards until the assembly touches the ground.

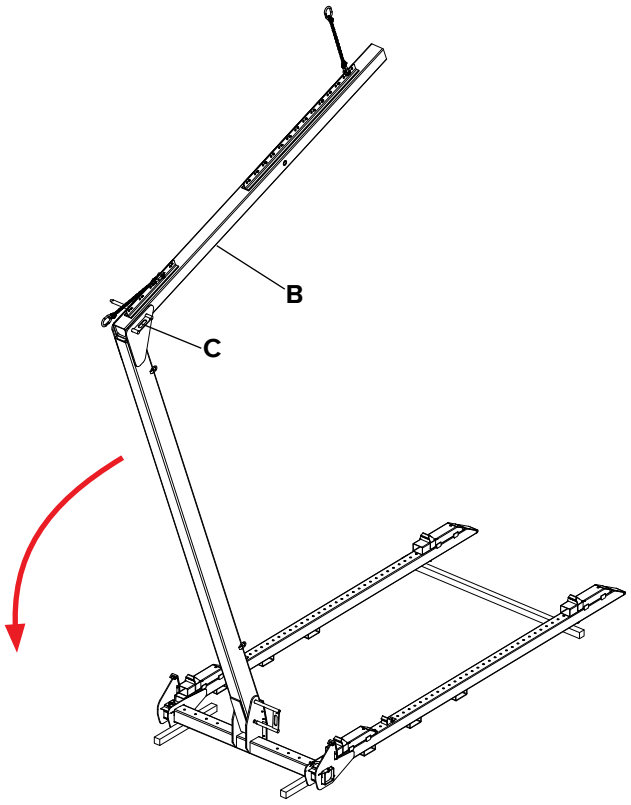


Step 3 Attach one end of the crane lifting gear to the last hole in the long suspension rail on the Traverse Beam (**B**).



Unless stated otherwise, all dimensions in mm.

Step 4 Slowly raise the assembly, allow it to descend backwards and rest it on a square timber.

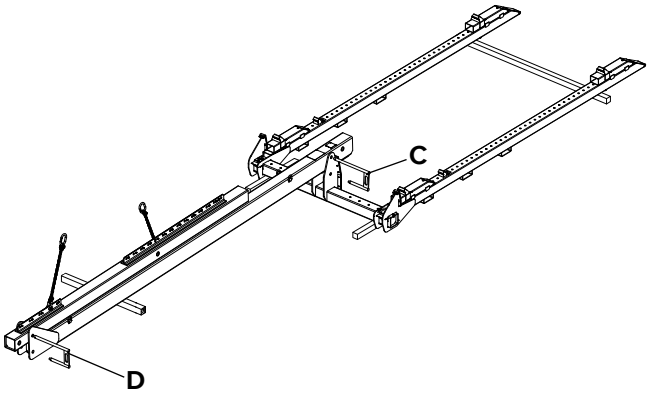


Step 5 Pull the short pin out of the additional Lock Pin (**C**). The long pin remains in the Lifting Fork.

Step 6 Lower the Traverse Beam (**B**) slowly onto the Vertical Post 600.

Step 7 Attach the other end of the crane lifting gear to the short slinging rail A.

Step 8 Pull the additional Lock Pin (**C**) all the way out.



Step 9 Lift the Traverse Beam and place it next to the Vertical Post 600.

Step 10 Pull the Lock Pin (**D**) all the way out and remove the Vertical Post 600.

8.5 Attaching supports

To be able to transport TOPMAX Table Forms, the correct support has to first be mounted to the Lifting Fork. The supports prevent the Table Forms from slipping.

Possible supports are:

- Spacer Plug
- Spacer Plug with Spacer Plug Adapter
- Lifting Stopend

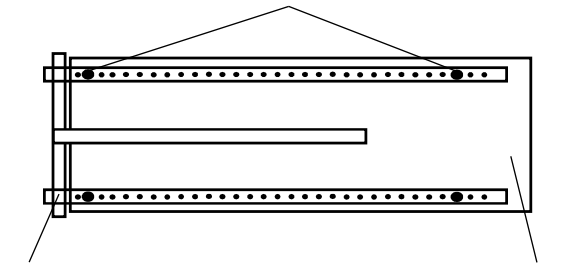
The type and position of the supports depend on the size and orientation of the Table Forms.

8.6 Determining positions

The following illustrations show the possible orientations and combinations of Table Forms. Consult the illustrations and the table on the next page to find the positions for Spacer Plugs and Lifting Stopends.

1

Position of long bolt in Spacer Plug



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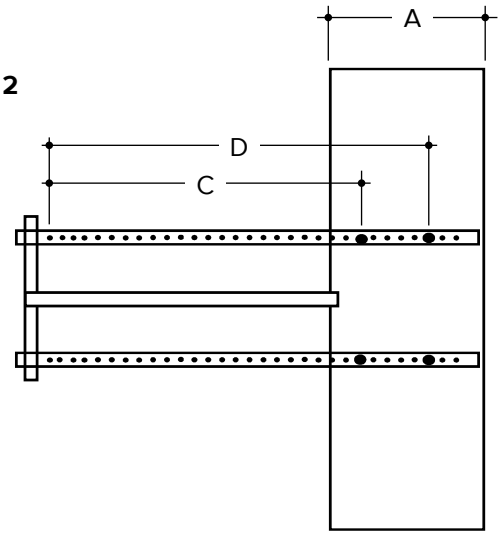

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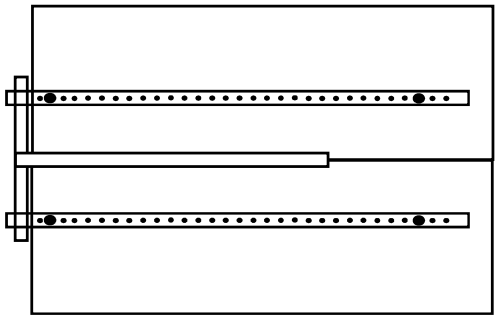
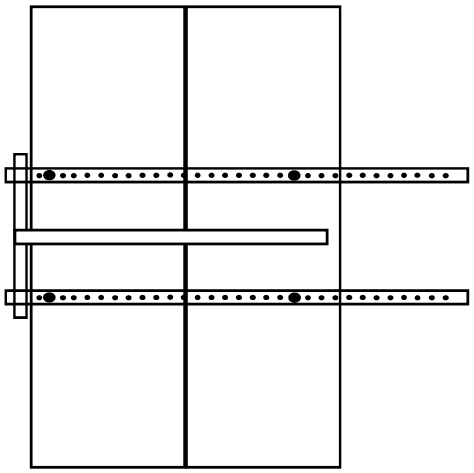


4



If two TOPMAX Table Forms are to be moved together, the Table Forms always have to be connected to one another with 4no. Centring Tension Bolts and 4no. Centring Nuts.

Unless stated otherwise, all dimensions in mm.

Figure	Width of Table Form A [m]	Support needed	Position of rear Spacer Plugs C [m]	Position of front Spacer Plugs D [m]
1	1.8	Spacer Plug with Spacer Plug Adapter	0.1	3.4
1	2.4	Spacer Plug	0.1	4.2
2	1.8	Spacer Plug	3.0	4.6 (turned 180°)
2	2.4	Spacer Plug	2.4	4.6 (turned 180°)
3	1.8	Spacer Plug	0.1	4.2
3	2.4	Spacer Plug	0.1	4.2
4	1.8	Lifting Stopend	0.1	3.4
4	2.4	Lifting Stopend	0.1	4.3

Dimensions C and D measured from the first hole in the fork arm.
Thus the long bolt for the Spacer Plug must be in the hole determined in this way.

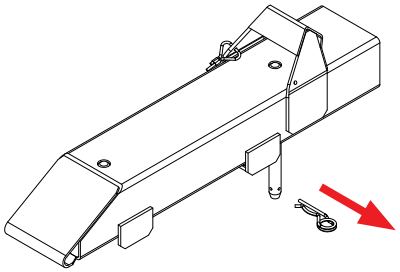
8.7 Attaching Spacer Plugs

This section explains how to attach the Spacer Plugs. Disassemble in the reverse order.

The Spacer Plug is normally installed such that the tip of the Spacer Plug points towards the tip of the fork arm.

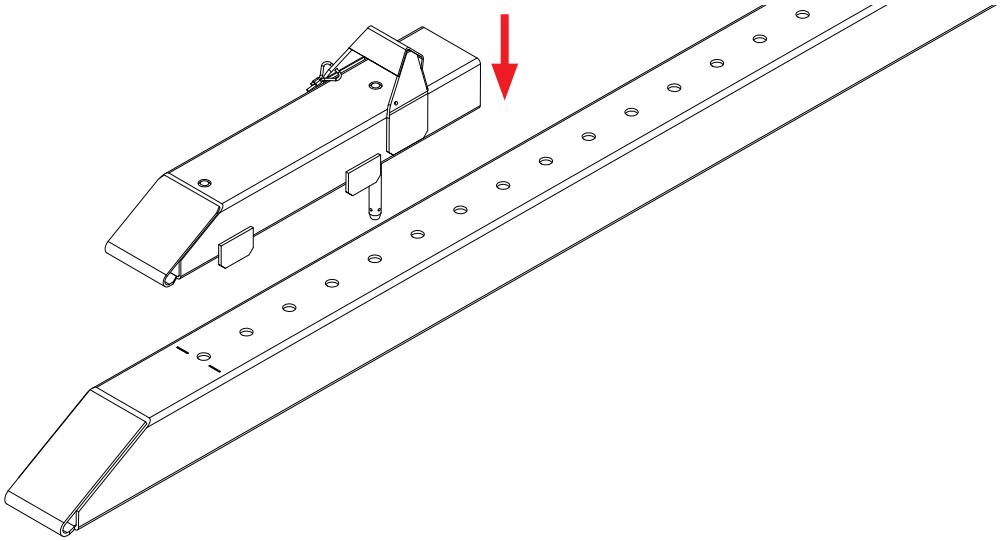
In some cases the Spacer Plug may need to be turned 180° to mount it. It is attached in the same way. Just turn the Spacer Plug such that its tip faces the cross beam of the fork arm.

Step 1 Remove the Spring Cotter Pin from the long bolt of the Spacer Plug.



Step 2 Detach the Spacer Plug from the fork arm if necessary.

Step 3 Insert the Spacer Plug into the holes in the fork arm in the desired place.



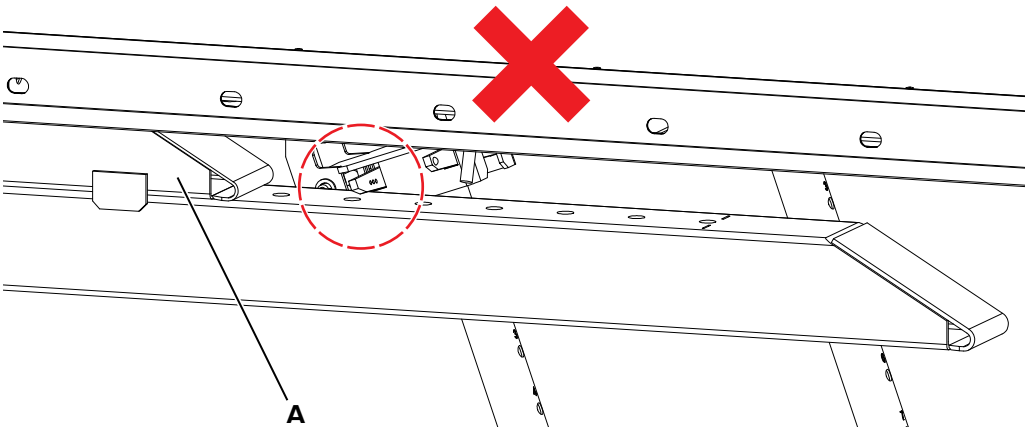
Step 4 Secure the long bolt with a Spring Cotter Pin.

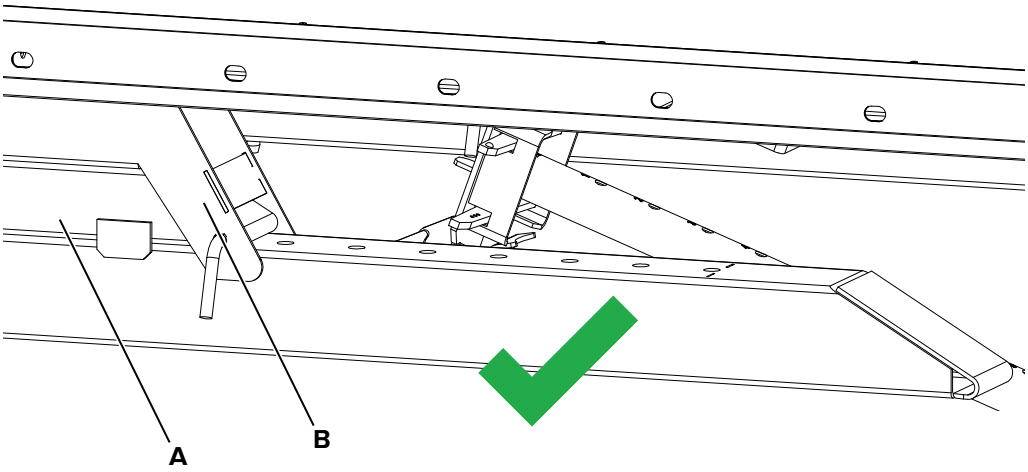
8.8 Attaching Spacer Plug Adapters

To move single TOPMAX Table Forms 1.8 m longitudinally, 4no. Spacer Plug Adapters are needed in addition to the Spacer Plugs.

Otherwise the fork arms will collide with the folding heads on the TOPMAX Table Form as it is raised.

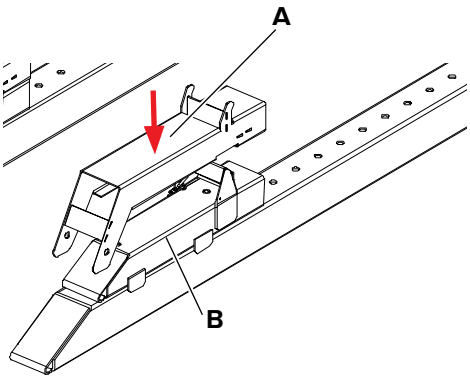
Attach the Spacer Plug Adapters (**B**) to the Spacer Plugs (**A**).



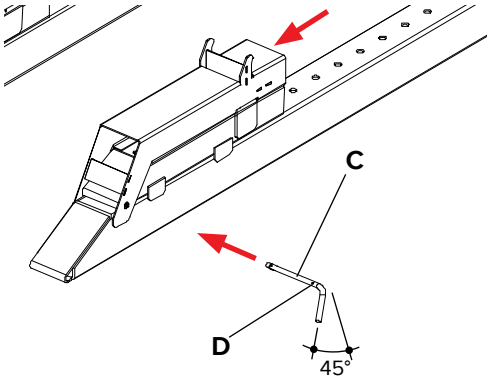


This section explains how to attach the Spacer Plug Adapters. Disassemble in the reverse order.

Step 1 Place the Spacer Plug Adapter (**A**) on the Spacer Plug (**B**).



Step 2 Slide the Spacer Plug Adapter forwards slightly, turn the Locking Pin (**C**) (code:603067) 45° and then insert it into the Spacer Plug Adapter and the Spacer Plug. Slide the small pin (**D**) in the Locking Pin through the hole in the Spacer Plug Adapter as well.



Step 3 Turn the Locking Pin grip down. The Spacer Plug Adapter is now secured to the Spacer Plug.

The Locking Pin can be pushed into the Spacer Plug Adapter from either side.

8.9 Attaching Lifting Stopends

When moving 2no. Table Forms laterally, attach the Lifting Stopends in place of the Spacer Plugs.

Lifting Stopends are also needed to move H 20 Table Forms. Where the Lifting Stopends are attached depends on the direction of H 20 tables to be transported (lengthwise or crosswise) and thus on the centre of gravity.

When positioning the Lifting Stopends, observe these requirements (only for H 20 Table Forms!):

- The H 20 Table Forms should be placed as close as possible to the Vertical Post.
- The lower chord of the H 20 Beam on the H 20 Table Form must be in interlocking contact with the stop profile of both Lifting Stopends.

Step 1 Remove the Spring Cotter Pin from the long bolt of the Spacer Plug.

Step 2 Detach the Spacer Plug from the Fork Arm if necessary.

Step 3 Insert the Spacer Plug into the holes in the fork arm in the desired place.

Step 4 Secure the long bolt with a Spring Cotter Pin.

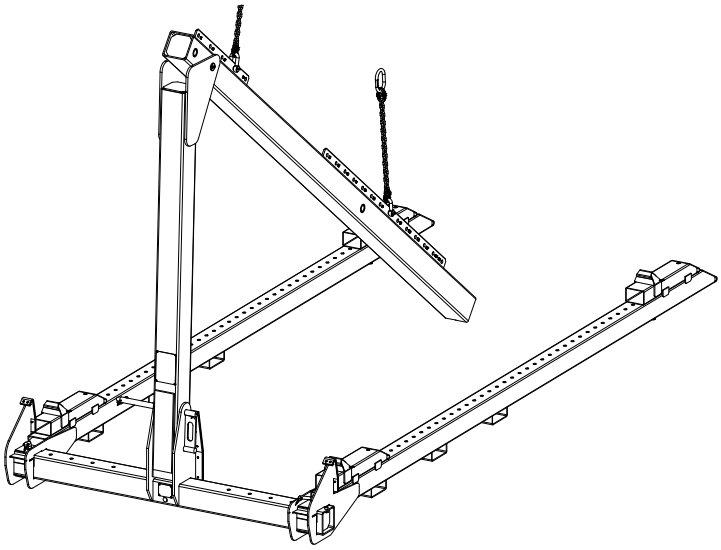
8.10 Adjusting fork arms

The spacing of the fork arms can be adjusted. This may become necessary e.g. if the standard position (fork arms at the outer edges) could lead to collision with components.

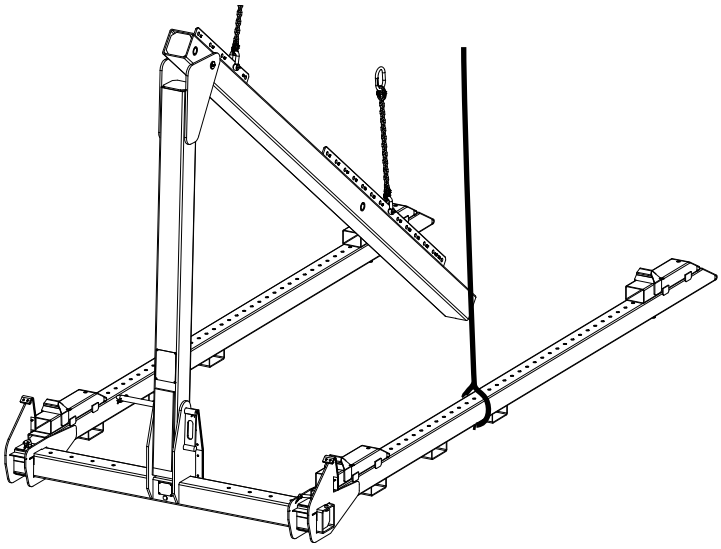
TOPMAX Table Forms can normally be moved longitudinally or laterally in the standard position.

☞	Always set the fork arms symmetrically! The fork arms always have to be spaced the same distance from the Vertical Post!

Step 1 Place the Lifting Fork on the ground. Refer to Section 10.1 on page 36 (standard vertical post) or Section 10.2 on page 36 (Vertical Post 600).



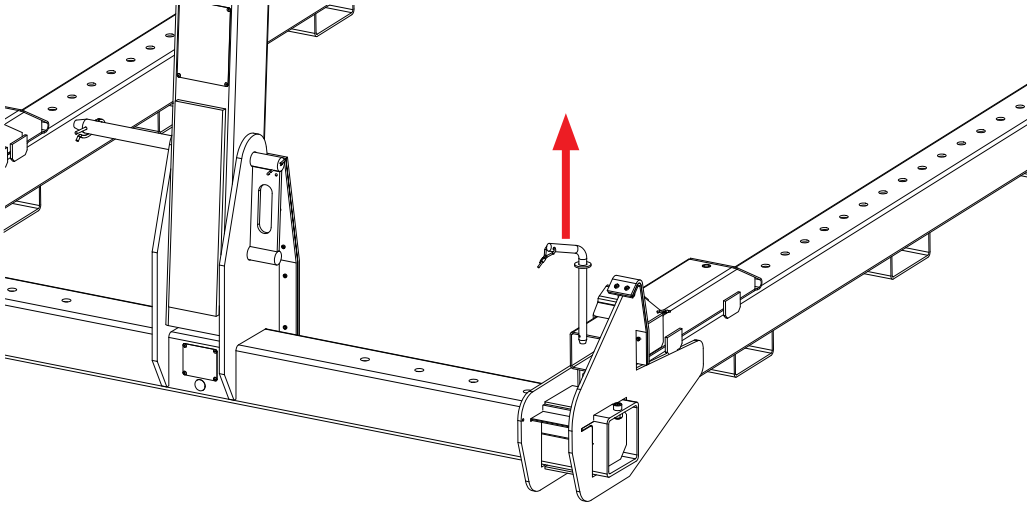
Step 2 Attach the first fork arm to the crane at the fork arm's centre of gravity. Place a textile sling around the fork arm in a choke hitch.



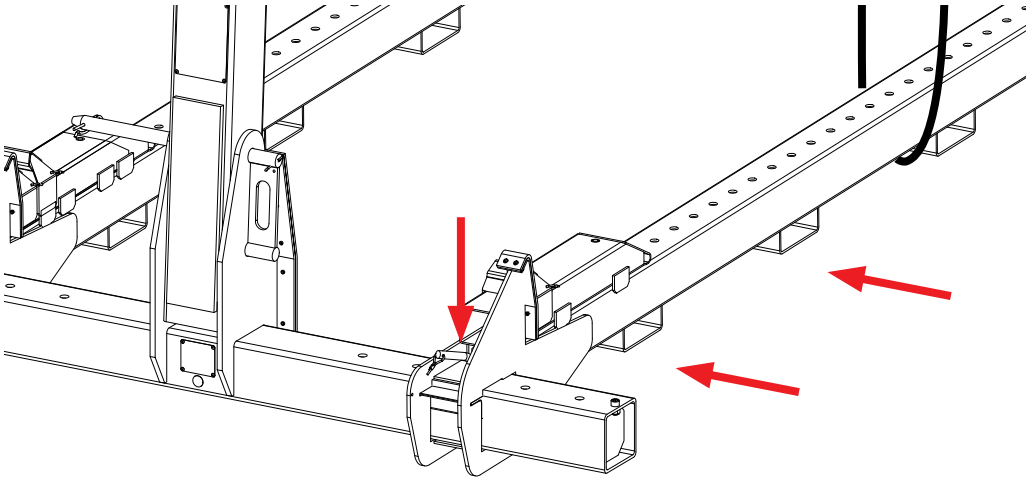
Step 3 Raise the fork arm enough that it can easily be moved along the Cross Beam.

Assembling Lifting Fork

Step 4 Pull the Spring Cotter Pin out of the Locking Bolt in the first fork arm and then remove the Locking Bolt.



Step 5 Slide the fork arm to the desired position and secure it with the Locking Bolt. Secure the Locking Bolt with the Spring Cotter Pin.



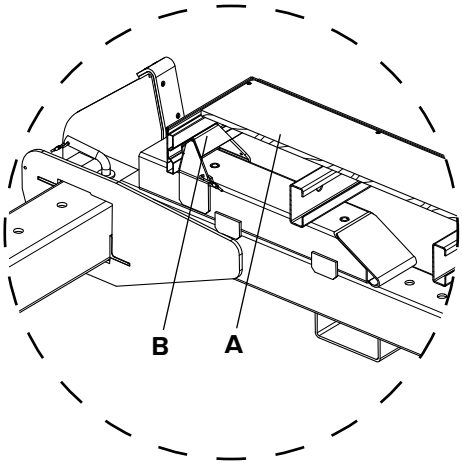
Unless stated otherwise, all dimensions in mm.

9 Moving Table Forms

9.1 Basic information

Always comply with the following when moving Table Forms:

- Never exceed the maximum load capacity of the Lifting Fork. Take into consideration the weight of the components, e.g. props.
- The slinging points on the suspension rail should be appropriate for the weight to be lifted (Refer to Section *Slinging points* on page 28).
- The 4no. Spacer Plugs (TOPMAX Table Forms) or the 2no Lifting Stopends (H 20 Table Forms) have to be selected as needed for the load (Refer to Section *Attaching supports* on page 20).
- The Spacer Plug Adapters must be attached (only for TOPMAX Table Forms 1.80 m wide; refer to Section *Attaching Spacer Plug Adapters* on page 23).
- Always place the TOPMAX Table Forms as close as possible to the Vertical Post. The surrounding frame profile or a rib profile of the TOPMAX Table Form (**A**) must be in interlocking contact with the stop profile (**B**) of at least two Spacer Plugs or Spacer Plug Adapters.

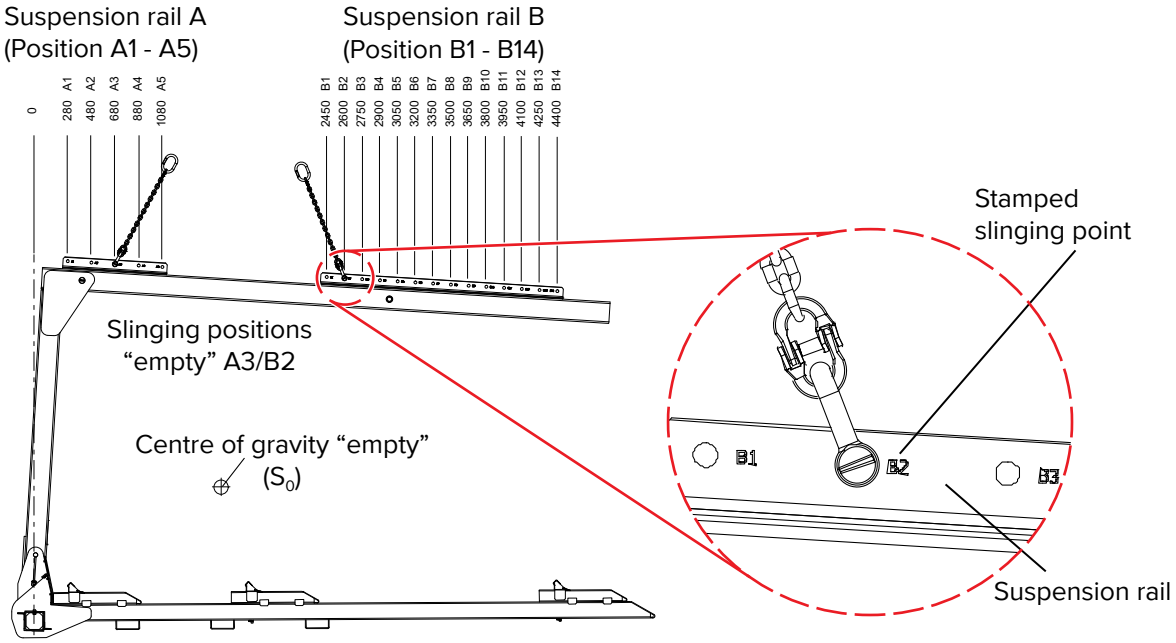


- If 2no. TOPMAX Table Forms are moved at the same time, the Table Forms have to be connected to one another with at least 4no. Centring Tension Bolts along the longer side (Refer to TOPMAX user guide).
- If there are platforms mounted on the Table Forms, the Table Forms can only be moved individually.
- When possible, use a rope to guide the TOPMEX Lifting Forks. The rope can be fastened to the recesses on the front of the fork arms.
- The opening angle of the lifting gear on the crane hook may not exceed 60°. If a double-strand suspension ≥ 5.00 m is used, the angle always has to be less than 60°.

9.1.1 Slinging points

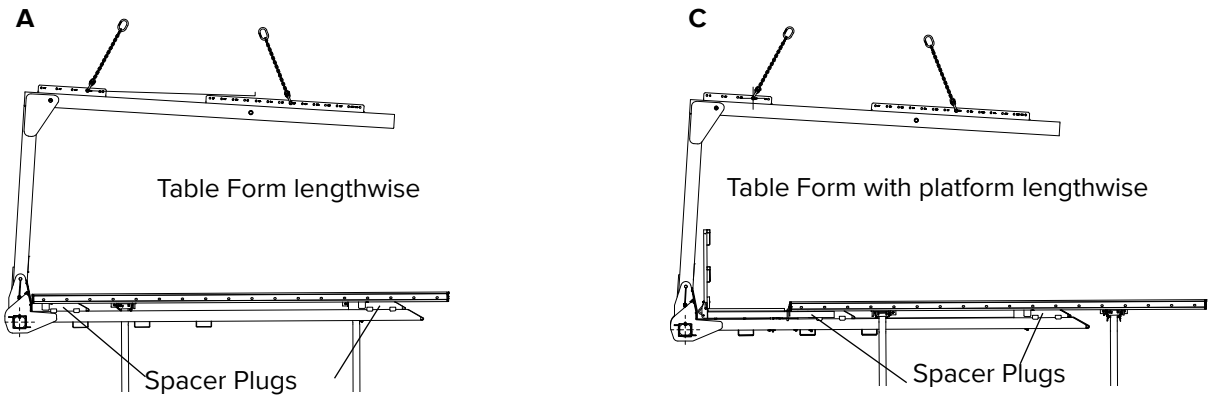
Whenever possible, the Lifting Fork and Table Forms should be horizontal when moved. The centre of gravity of the Lifting Fork and of the load change as a factor of the Table Form, orientation and components. To ensure that the Lifting Fork is still horizontal. The position of the integrated chain slings has to be adjusted on the suspension rail.

The following illustration shows the slinging points on the Lifting Fork. The tables beginning on page 31 show the slinging points for normal cases as well as other information. A separate static calculation has to be provided for special cases.

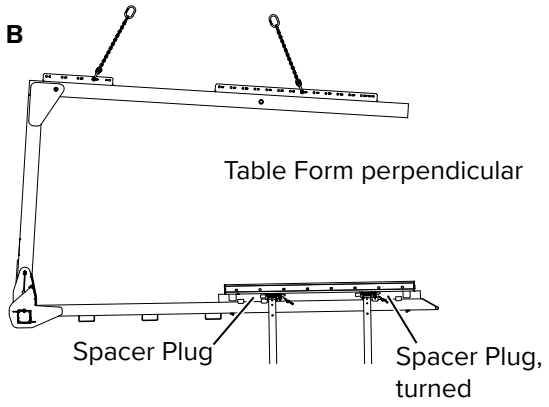


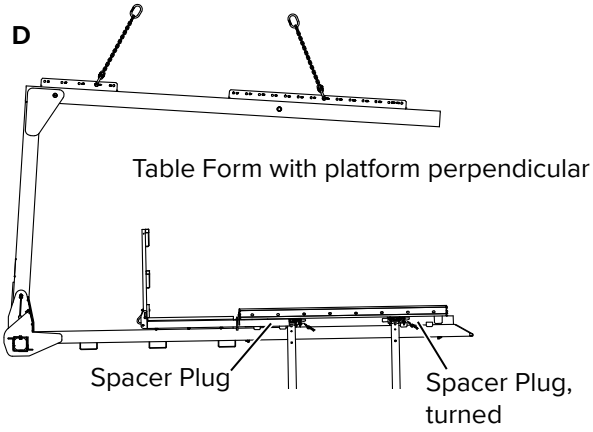
9.1.2 Orientation of TOPMAX Table Forms

Always place the TOPMAX Table Forms as close as possible to the Vertical Post. If in exceptional cases Table Forms have to be transported perpendicularly on the end of the Lifting Fork, the front Spacer Plugs have to be turned 180° (For positions, refer to Section 8.6). The Table Forms have to rest completely on the fork arms and may not protrude beyond the ends of the fork arms.

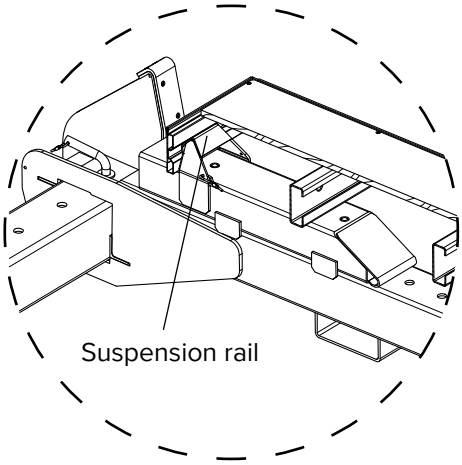


Unless stated otherwise, all dimensions in mm.

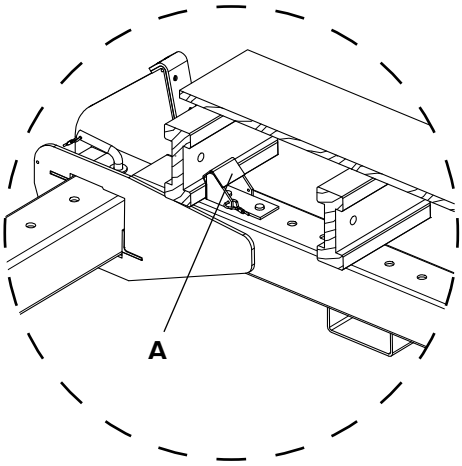




The surrounding frame profiles of the TOPMAX Table Form should be as close as possible to the stop profile on the Spacer Plug.



When transporting an H 20 Table Form, a lateral H 20 beam should be placed as close as possible to the Lifting Stopend (**A**)!



9.1.3 Combination tables (page 31 and page 32)

The following tables show different possible combinations of Table Forms and components that can be moved with the Lifting Fork.

Never exceed the maximum load bearing capacity of the Lifting Fork. Not all of the props can be used when Table Forms are connected to one another.

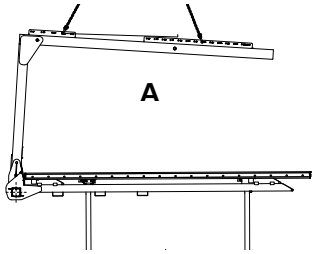
*The weight includes the Table Form(s), components and props!

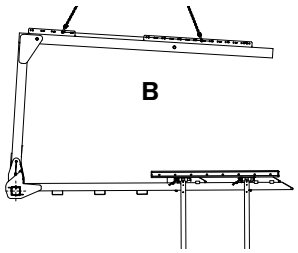
The weight varies depending on the quantity and type of Table Forms and components. It may not exceed the maximum load bearing capacity of the Lifting Fork (1250 kg)!

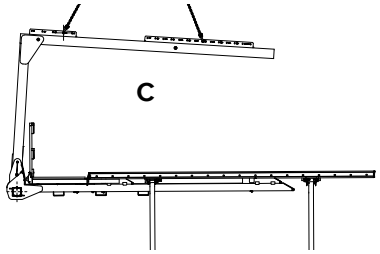
The tables apply to the use of the standard vertical post and the Vertical Post 600.

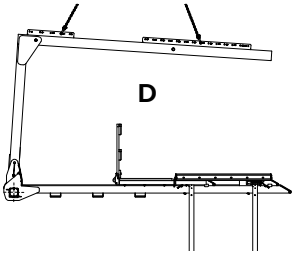
Unless stated otherwise, all dimensions in mm.

TOPMAX Table Form w/ folding head	TOPMAX Working Platform 2.4	TOPMAX Working Platform 1.8	Extension Frame (clearance +2.0 m)	PROTECTO Mesh Panel 1.80 m w/ Post	PROTECTO Mesh Panel 2.40 m w/ Post	Illustration (below or page 28)	Usable props										Weight [kg]	Suspension rail A	Suspension rail B
							1.16-1.62 m	1.59-2.62 m	1.59-2.62 m	1.84-3.12 m	1.84-3.12 m	2.10-3.62 m	2.10-3.62 m	2.36-4.12 m	2.36-4.12 m	3.15-5.62 m			
							Clearance:	Clearance:	Clearance:	Clearance:	Clearance:	Clearance:	Clearance:	Clearance:	Clearance:	Clearance:			
							EUROPLUS*new* 30-150	EUROPLUS*new* 20-250	EUROPLUS*new* 30-250	EUROPLUS*new* 20-300	EUROPLUS*new* 30-300	EUROPLUS*new* 20-350	EUROPLUS*new* 30-350	EUROPLUS*new* 20-400	EUROPLUS*new* 30-400	EUROPLUS*new* 20-550			
Combination table for Table Form 2.4 x 5.4																			
1	-	-	-	-	-	A	4	4	4	4	4	4	4	4	4	4	592-694	4	8
1	-	-	-	-	-	B	4	4	4	4	4	4	4	4	4	4	592-694	4	11
1	-	-	1	-	-	A	4	4	4	4	4	4	4	4	4	4	758-859	4	9
1	1	-	-	-	-	C	4	4	4	4	4	4	4	4	4	4	725-929	4	9
1	1	-	1	-	-	C	4	4	4	4	4	4	4	4	4	4	848-950	4	12
1	-	3	-	-	-	D	4	4	4	4	4	4	4	4	4	4	870-1073	4	11
1	-	3	1	-	-	D	4	4	4	4	4	4	4	4	4	4	1035-1238	4	11
1	-	-	-	-	1	A	4	4	4	4	4	4	4	4	4	4	661-864	4	8
1	-	-	1	-	1	A	4	4	4	4	4	4	4	4	4	4	783-856	4	7
1	-	-	-	3	-	B	4	4	4	4	4	4	4	4	4	4	656-758	4	11
1	-	-	-	3	1	B	4	4	4	4	4	4	4	4	4	4	682-784	4	12
1	-	-	1	3	-	B	4	4	4	4	4	4	4	4	4	4	822-924	4	12
1	-	-	1	3	1	B	4	4	4	4	4	4	4	4	4	4	848-950	4	12
Combination table for Table Form 1.8 x 5.4																			
1	-	-	-	-	-	A	4	4	4	4	4	4	4	4	4	4	497-599	4	7
1	-	-	-	-	-	B	4	4	4	4	4	4	4	4	4	4	497-599	4	11
1	-	-	1	-	-	A	4	4	4	4	4	4	4	4	4	4	662-764	4	9
1	-	1	-	-	-	C	4	4	4	4	4	4	4	4	4	4	588-690	4	11
1	-	1	1	-	-	C	4	4	4	4	4	4	4	4	4	4	754-855	4	12
1	-	3	-	-	-	D	4	4	4	4	4	4	4	4	4	4	732-833	4	11
1	-	3	1	-	-	D	4	4	4	4	4	4	4	4	4	4	898-999	4	12
1	-	-	-	1	-	A	4	4	4	4	4	4	4	4	4	4	523-625	4	8
1	-	-	1	1	-	A	4	4	4	4	4	4	4	4	4	4	689-791	4	9
1	-	-	-	3	-	B	4	4	4	4	4	4	4	4	4	4	561-663	4	11
1	-	-	-	4	-	B	4	4	4	4	4	4	4	4	4	4	588-689	4	11
1	-	-	1	3	-	B	4	4	4	4	4	4	4	4	4	4	727-829	4	12
1	-	-	1	4	-	B	4	4	4	4	4	4	4	4	4	4	753-855	4	12







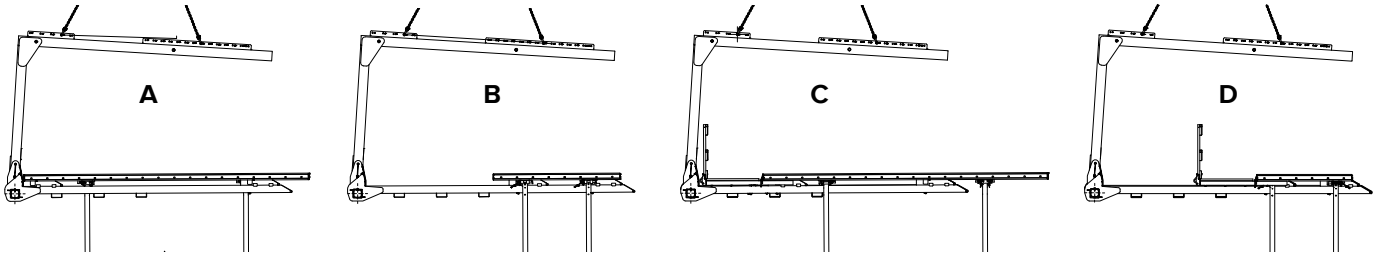


Unless stated otherwise, all dimensions in mm.

TOPMAX Table Form 2.40 m w/ folding head	TOPMAX Table Form 1.80 m w/ folding head	TOPMAX Working Platform 2.4	TOPMAX Working Platform 1.8	Extension Frame (clearance +2.0 m)	PROTECTO Mesh Panel 1.80 m w/ Post	PROTECTO Mesh Panel 2.40 m w/ Post	Illustration (below or page 28)	Usable props										Weight* [kg]	Suspension rail A	Suspension rail B
								Clearance: 1.16-1.62 m	Clearance: 1.59-2.62 m	Clearance: 1.59-2.62 m	Clearance: 1.84-3.12 m	Clearance: 1.84-3.12 m	Clearance: 2.10-3.62 m	Clearance: 2.10-3.62 m	Clearance: 2.36-4.12 m	Clearance: 2.36-4.12 m	Clearance: 3.15-5.62 m			
								EUROPLUS*new* 30-150	EUROPLUS*new* 20-250	EUROPLUS*new* 30-250	EUROPLUS*new* 20-300	EUROPLUS*new* 30-300	EUROPLUS*new* 20-350	EUROPLUS*new* 30-350	EUROPLUS*new* 20-400	EUROPLUS*new* 30-400	EUROPLUS*new* 20-550			
Combination table for double table forms																				
2	-	-	-	-	-	-	A	8	8	8	8	8	-*	-*	-*	-*	-*	1184-1253	4	11
2	-	-	-	-	-	1	A	8	8	8	-*	-*	-*	-*	-*	-*	-*	1210-1254	4	11
-	2	-	-	-	-	-	A	8	8	8	8	8	8	8	8	8	8	994-1197	4	11
-	2	-	-	-	1	-	A	8	8	8	8	8	8	8	8	8	8	1016-1219	4	11
-	2	-	-	-	4	-	A	8	8	8	8	8	8	8	8	8	-*	1080-1225	4	11
1	1	-	-	-	-	-	A	8	8	8	8	8	8	8	8	8	-*	1089-1234	4	11
1	1	-	-	-	1	1	A	8	8	8	8	8	8	8	8	-*	-*	1137-1245	4	11

* Using the props would exceed the maximum load capacity of the TOPMAX Lifting Fork

H 20 Table Form 2.50 x 5.00	H 20 Table Form 2.50 x 4.00	PROTECTO Mesh Panel 2.40 m w/ Post	Illustration (below or page 28)	Usable props										Weight* [kg]	Suspension rail A	Suspension rail B
				Clearance: 1.54-2.00 m	Clearance: 1.97-3.00 m	Clearance: 1.97-3.00 m	Clearance: 2.22-3.50 m	Clearance: 2.22-3.50 m	Clearance: 2.48-4.00 m	Clearance: 2.48-4.00 m	Clearance: 2.74-4.50 m	Clearance: 2.74-4.50 m	Clearance: 3.53-6.00 m			
				EUROPLUS*new* 30-150	EUROPLUS*new* 20-250	EUROPLUS*new* 30-250	EUROPLUS*new* 20-300	EUROPLUS*new* 30-300	EUROPLUS*new* 20-350	EUROPLUS*new* 30-350	EUROPLUS*new* 20-400	EUROPLUS*new* 30-400	EUROPLUS*new* 20-550			
Combination table for H 20 Table Form																
1	-	-	A	4	4	4	4	4	4	4	4	4	4	460-561	3	3
-	1	-	A	4	4	4	4	4	4	4	4	4	4	389-490	4	8
1	-	1	A	4	4	4	4	4	4	4	4	4	4	486-588	3	3
-	1	1	A	4	4	4	4	4	4	4	4	4	4	414-516	4	8



Unless stated otherwise, all dimensions in mm.

9.2 Operating procedure

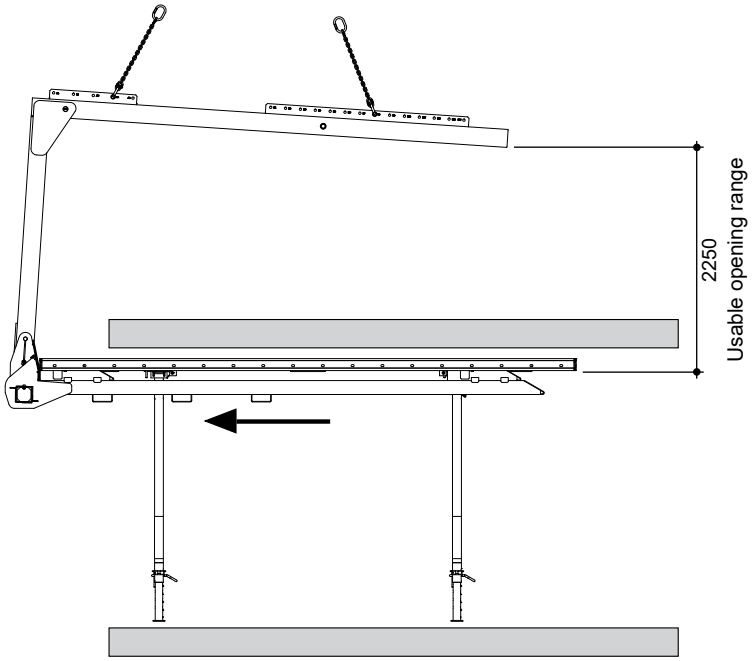
The images in this section are for illustration purposes. For a clearer view, any edge protection that may be needed is not shown. All safety requirements must be met at all times at the construction site!

Step 1 Lower the Table Form at least 10 cm, e.g. with the aid of the Multi Mover or a TOPMAX Positioning Unit.

Step 2 Move the TOPMAX Lifting Fork under the Table Form.

Step 3 Carefully raise the TOPMAX Lifting Fork with the Table Form.

Step 4 Carefully move the Table Form away from the structure and to the new location.



Use EUROPLUS*new* Props, which are suitable for every level of the structure (length, working load). This saves having to exchange the props later.

9.3 Operating procedure with existing parapets and beams

WARNING	**WARNING!** If the folding heads do not lock into place properly when the props swing back, the Table Form can tip over when it is set down! This can cause personal injury or death! Verify that all of the folding heads are locked into place before setting down the Table Form!

☞	The images in this section are for illustration purposes. For a clearer view, any edge protection that may be needed is not shown. All safety requirements must be met at all times at the construction site!

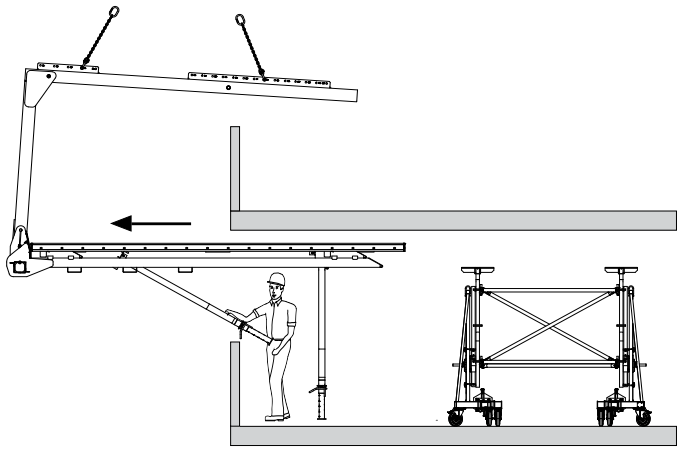
Step 1 Move the Table Form on the Positioning Unit to a place that is accessible to the Lifting Fork. Verify that the mounted props are folded in the right position.

Step 2 Release the folding heads (Refer to TOPMAX user guide).

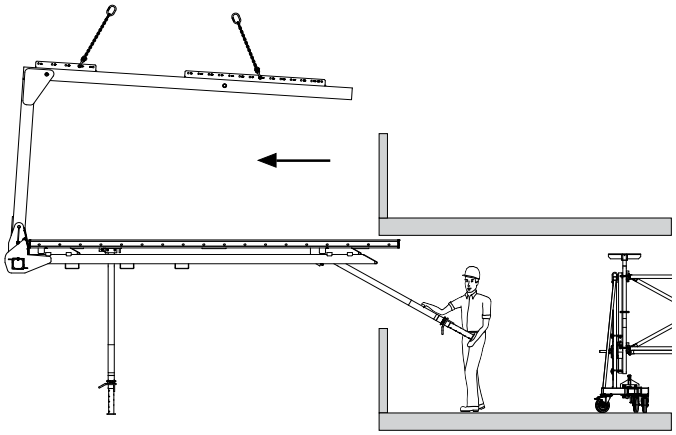
Step 3 Move the TOPMAX Lifting Fork under the Table Form.

Step 4 Carefully raise the TOPMAX Lifting Fork with the Table Form. Fold up the props by hand far enough that they do not catch on the parapet.

Step 5 Move the TOPMAX Lifting Fork with the Table Form over the parapet.



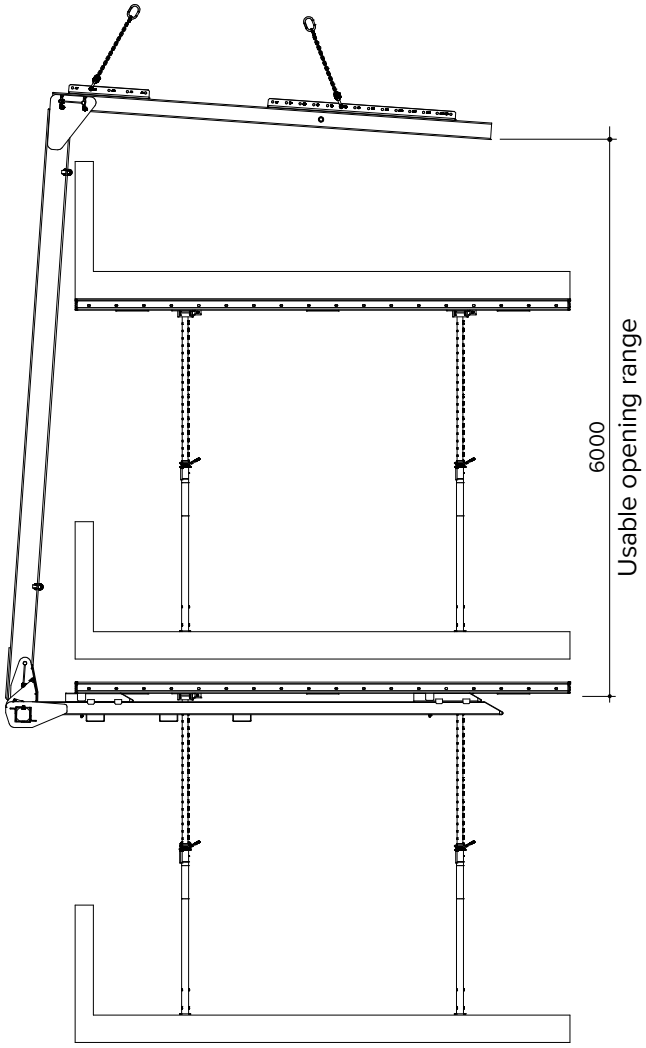
Step 6 Release the props. The props swing back and automatically lock into place.



9.4 Operating procedure bridging a complete level with the Vertical Post 600

The Vertical Post 600 has to be used to transport TOPMAX Table Forms out of the structure and bridge a level.

Refer to Section 8.3.2 on page 16 for information on how to attach the Vertical Post 600.

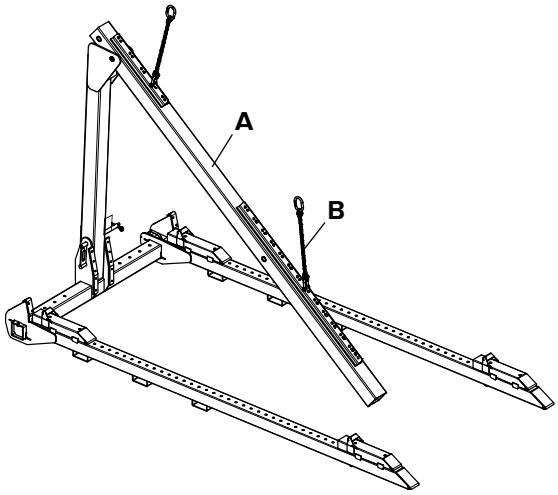


10 Storing and transporting Lifting Fork

10.1 Temporary storage on site – with standard vertical post

Step 1 Place the TOPMAX Lifting Fork on solid, level ground.

Step 2 Lower the Traverse Beam (**A**) to the resting position by crane. The lifting gear can now be detached from the chain slings (**B**).

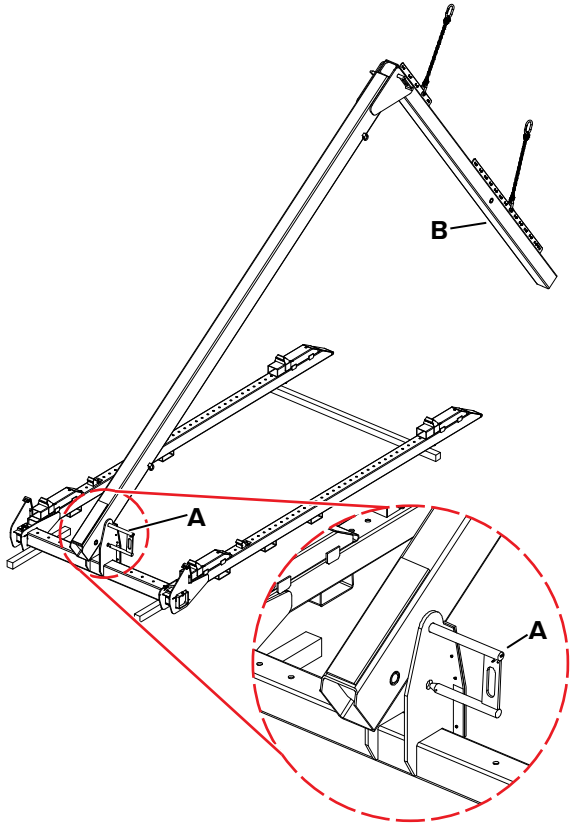


10.2 Temporary storage on site – with Vertical Post 600

Step 1 Place the Lifting Fork on square timbers (80 x 80 mm). Tense the chain slings slightly with the crane.

Step 2 Pull the short pin out of the Lock Pin (**A**). Lower the assembly constructed of the Traverse Beam and the Vertical Post 600 forwards until the assembly touches the ground.

Step 3 Release the cane from the Traverse Beam (**B**).

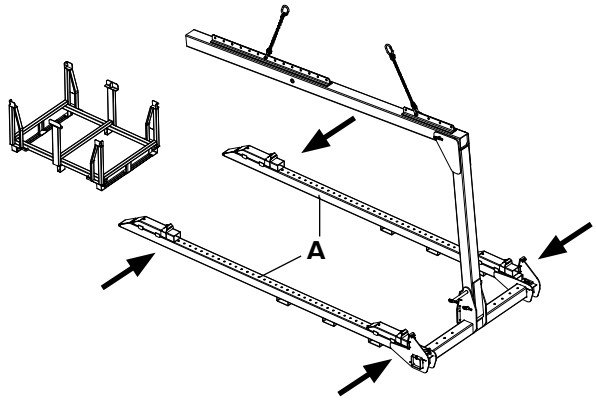


Unless stated otherwise, all dimensions in mm.

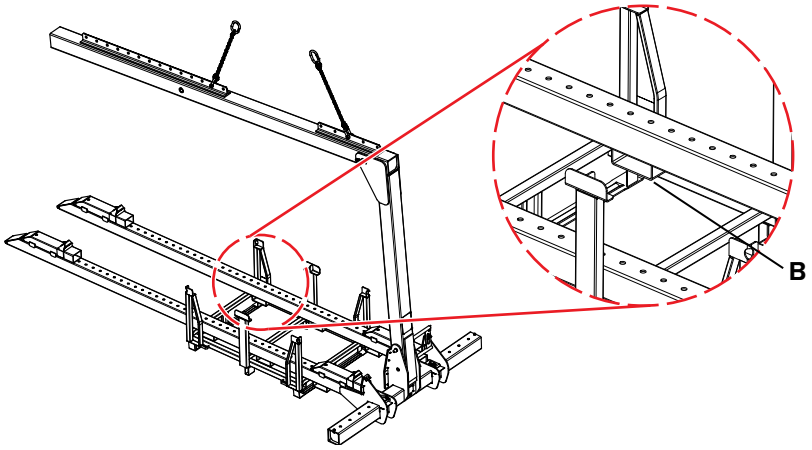
10.3 Loading Lifting Fork into Euro Stacking Frame 160/120

The Lifting Fork has to be placed in the Euro Stacking Frame 160/120 for transport and long-term storage. Always secure the Lifting Fork with steel bands before transporting it!

Step 1 Slide the fork arms (**A**) to the innermost position and secure them.



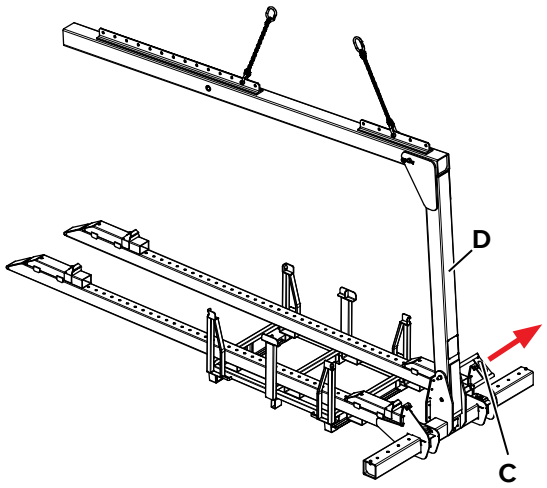
Step 2 Lift the Lifting Fork and place it in the Stacking Frame. Verify that the front forklift lugs (**B**) rest against the base frame of the Stacking Frame.



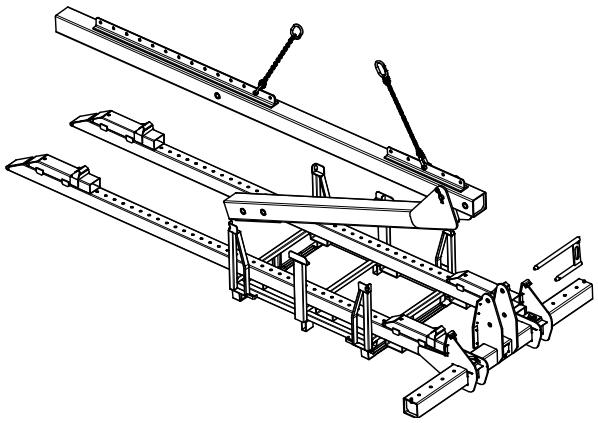
Step 3 Tense the chain slings slightly with the crane.

Step 4 Pull out the Spring Cotter Pin and pull out the Lock Pin (**C**) all the way to completely release the vertical post **D**).

⚠ CAUTION **Risk of injury!** The vertical post can swivel out! Stay out of the swivel range of the vertical post!



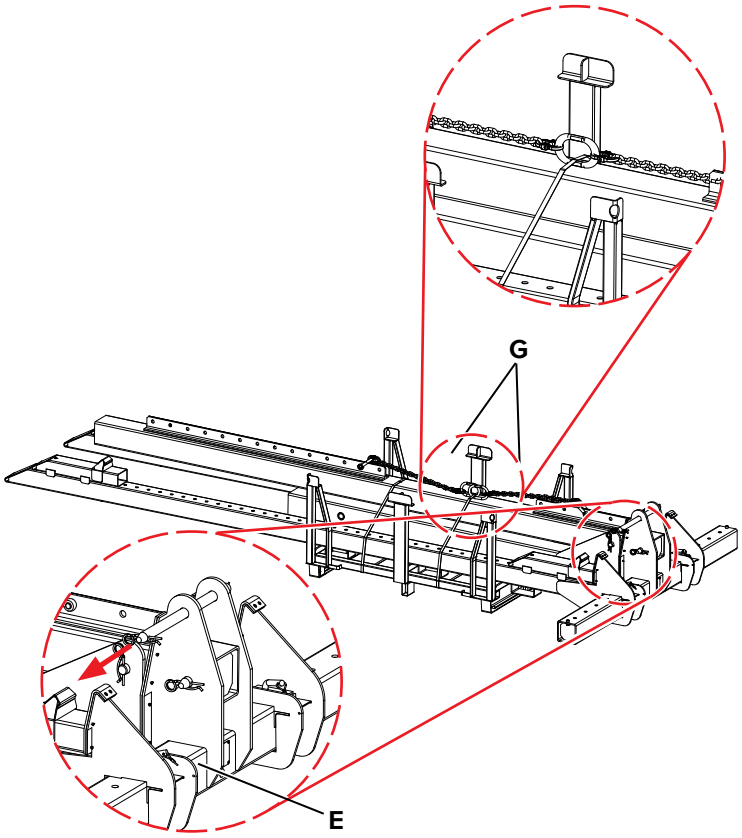
Step 5 Use the crane to place the vertical post on the ground in front of the Stacking Frame, then swing the Traverse Beam back. Place both parts on the Stacking Frame.



Step 6 Guide the Traverse Beam into the seat on the Cross Beam (**E**). Fasten the Cross Beam in the lower hole of the seat with the short bolt of the Lock Pin (**D**) and secure with the Spring Cotter Pins.

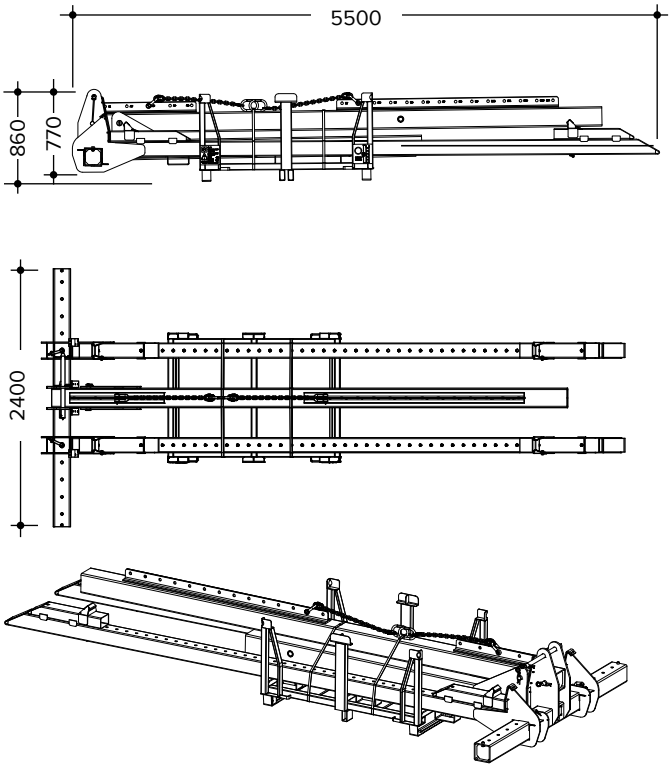
Step 7 Attach the chain slings to positions A3 and B2.

Step 8 Fasten the Lifting Fork to the Stacking Frame with steel bands (**G**) as shown in the illustration. One of the steel bands has to be passed through both suspension links of the chain slings. The steel bands should be tight.



Dimensions

Unless stated otherwise, all dimensions in mm.


5500
860
770
2400

10.4 Transporting Lifting Fork by crane

WARNING

WARNING!

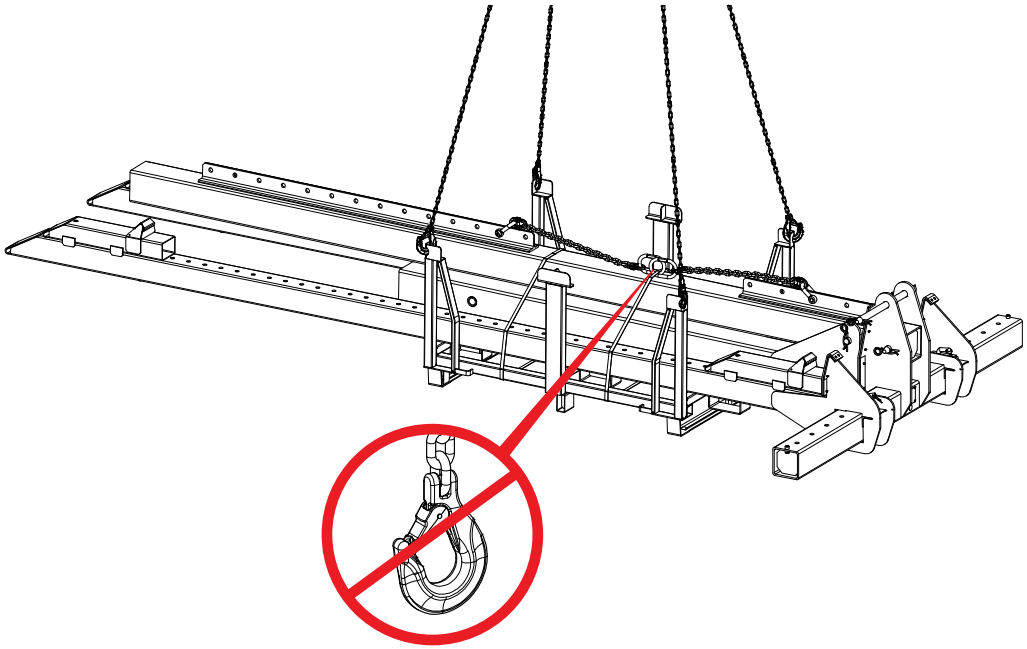
If the lifting gear is attached to the chain slings on the Lifting Fork, the steel bands can break! The Stacking Frame will fall and the Lifting Fork will open!

This can cause personal injury or death!

Attach lifting gear only to the lifting eyes on the Stacking Frame.

Step 1 Check that the Lifting Fork is secured snugly to the Stacking Frame with the steel bands.

Step 2 Attach a 4-strand suspension to the lifting eyes on the Stacking Frame and move the Stacking Frame by crane.



10.5 Transporting Lifting Fork by forklift

When transporting the Lifting Fork by forklift, the forklift lugs always have to be used. If the Lifting Fork is in a Stacking Frame, the forklift has to reach under the Stacking Frame.

Step 1 Lift the Stacking Frame with the forklift.

Step 2 When loading the TOPMAX Lifting Fork and Stacking Frame onto a lorry or a train, secure them properly to prevent slipping.

NOTE

NOTE!

When transporting by forklift, never exceed a walking pace.

11 Inspection instructions

11.1 Area of application

The German ordinance on industrial safety and health (BetrSichV), §3 sec. 3 and §10 applies to the type, scope and intervals of inspections as well as to the requirements pertaining to the persons tasked with performing the inspections. These stipulations at a minimum comply with the machinery directive 2006/42/EC, which is binding for all EU member states. The testing information and instructions stated here serve as a guideline for inspecting equipment before it is used for the first time and for regular inspections of the TOPMAX Lifting Fork.

11.2 Purpose

Inspecting the load suspension device is intended to ensure operating and functional safety of the equipment. The inspections and tests are performed to systematically detect and remedy faults relevant to safety.

Inspections should be performed at regular intervals, occurring at least once a year. If the operating conditions require otherwise, inspections can be performed more frequently. This applies e.g. when the equipment is used very frequently, when there is excessive wear or when used in a corrosive environment.

When steel chains are used as slinging gear, they must be subjected to a special crack resistance inspection every three years.

11.3 Responsibility

The user is responsible for scheduling regularly recurring safety inspections of the Lifting Device. Safety inspections of this load suspension equipment should be performed only by qualified persons (qualified person as specified by DGUV (German statutory accident insurance regulations) regulation 100-500).

11.4 TOPMAX Lifting Fork inspection instructions

Inspection includes visual and functional checking of all components, checking the reference dimension “y” pursuant to DIN 15429 and inspection of the chain sling pursuant to DIN EN 818-6.

Other inspections can be performed at the discretion of the inspector.

11.4.1 Visual inspection

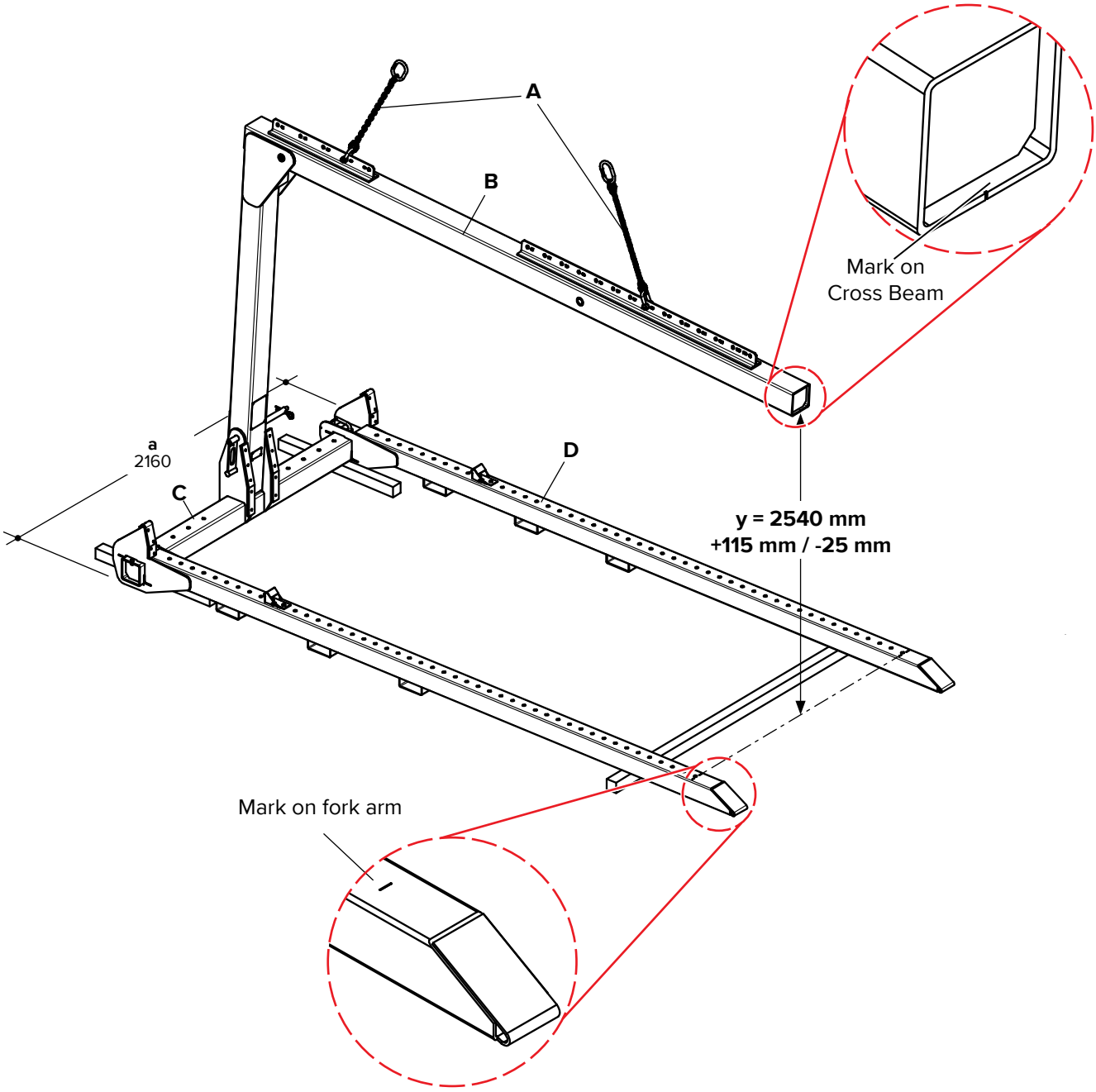
- Completeness of all parts
- Warping and wearing of all parts
- Mechanical damage
- Corrosive damage
- Cracks at welds and components

11.4.2 Functional check

- Assembly and disassembly of the Lifting Fork
- Mobility of locks and pin connections
- Mechanical damage

11.4.3 Checking dimension pursuant to DIN 15429:

Check dimension pursuant to DIN 15429:
y = 2540 mm +115 mm / −25 mm
To measure the check dimension:
The Lifting Fork has to be suspended freely from a suitable lifting device, without the Spacer Plug attached.
Position of chain slings (**A**) A3/B2.
The fork arms (**D**) are fastened to the Cross Beam (**C**), spaced a = 2.16 m.
Place a straightedge or comparable measuring device over the two fork arms at the marks [Detail 2].
The check dimension “y” is the distance at the front, from the lower edge of the Traverse Beam (**B**) (mark), straight down and to the lower edge of the straightedge.



Check dimension of chain sling (A) pursuant to DIN EN 818-6:

Chain sling with shackle

Clear opening b1 = 1010 ± 50 mm

Unless stated otherwise, all dimensions in mm.

Suspension link

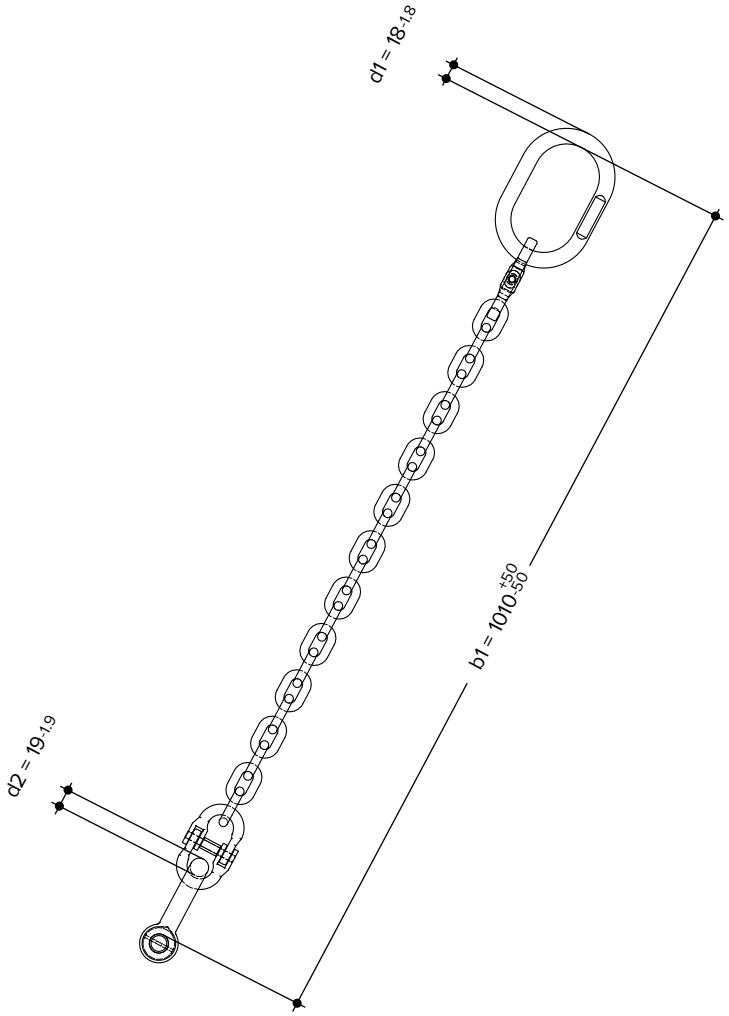
d1 = 18 - 1.8 mm

Shackle

Diameter d2 = 19 - 1.9 mm

Chain link

Check dimensions of chain sling



Corrective measures

Any defects identified during the safety inspection have to be remedied as specified by the inspector. Upon completion, another inspection has to be performed. When spare parts are needed, only original manufacturer parts may be used.

Only HÜNNEBECK may repair or overhaul the equipment.

Test certificate for TOPMAX Lifting Fork (code:603074)

Serial number:	☐☐☐☐☐	Year of manufacture:	☐☐☐☐
Inspection of Lifting Fork			
Completeness of parts:	☐		
Data bag (containing documentation) on hand and complete:	☐		
Lifting Fork free of dirt; instruction plate legible:	☐		
All connecting pieces move freely:	☐		
Reference dimension pursuant to DIN 15429: y = 2540 +115/-25 mm		Actual dimension:	☐☐☐☐
Weld seams visible, no external cracks:	☐		
Suspension rails not cracked or warped:	☐		
No visible warping:	☐		
No corrosion damage:	☐		
Inspection tag indicates date of last inspection	☐		
Document with inspection stamp	☐		
Inspection of chain sling pursuant to DIN EN 818-6:		Chain number:	☐☐☐☐
Chain with shackle: Clear opening b1 = 1010 ± 50.0 mm		Actual dimension:	☐☐,☐
Suspension link: Diameter d1 = 18 - 1.8 mm		Actual dimension:	☐☐,☐
Shackle: Diameter d2 = 19 - 1.9 mm		Actual dimension:	☐☐,☐

Repairs may be made only by the manufacturer, and only original spare parts may be used.

The German trade association dictates only visual inspection.

....

Date Inspector

Unless stated otherwise, all dimensions in mm.

11.5 Vertical Post 600 inspection instructions

Inspection includes visual and functional checking of all components as well as checking all stated dimensions pursuant to DIN 15429.

Other inspections can be performed at the discretion of the inspector.

Visual inspection

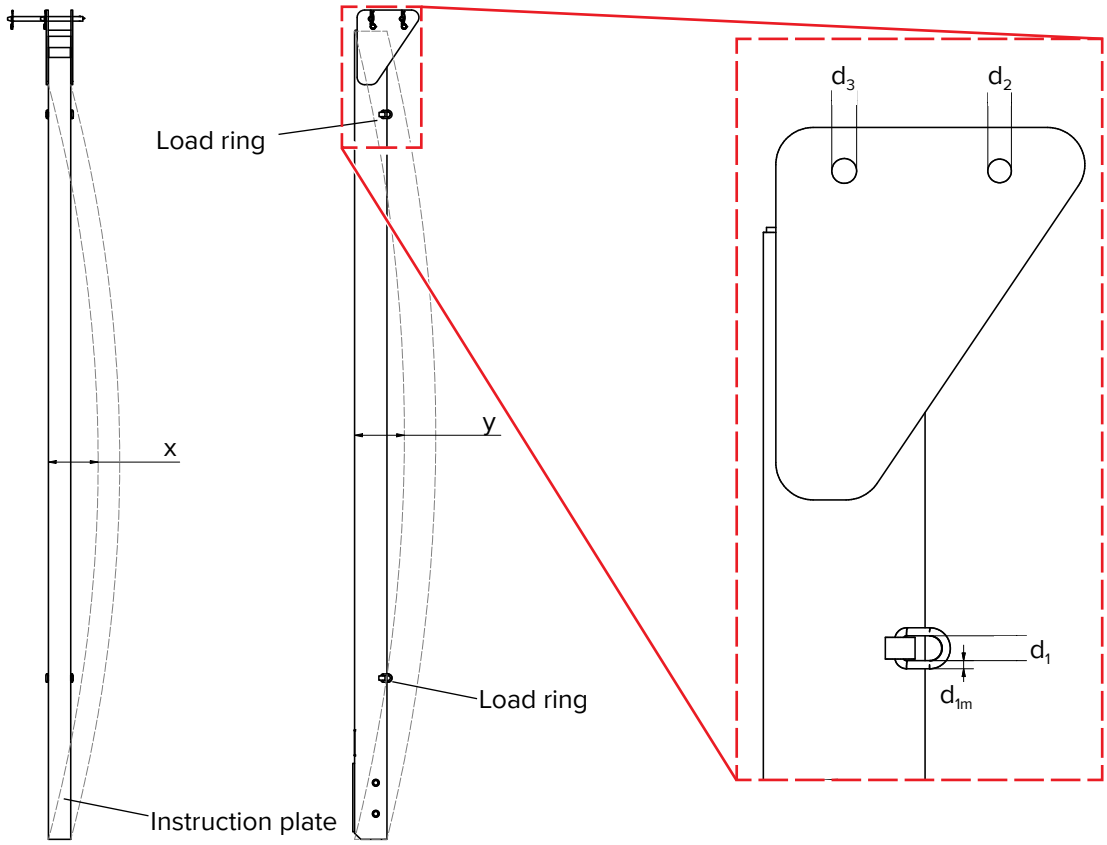
- Completeness of all parts
- Warping and wearing of all parts
- Mechanical damage
- Corrosive damage
- Cracks at welds and components

Functional check

- Assembly and disassembly of the Lifting Fork with Vertical Post 600
- Mobility of locks and pin connections
- Mechanical damage

Dimensions check

- Deflection of Vertical Post
- Suspension links on load rings



Measure deflection at the maximum deflection point! Do not measure over attached components, plates, etc.

Unless stated otherwise, all dimensions in mm.

Test certificate for Vertical Post 600 (code:603596)

Serial number:	☐☐☐☐☐	Year of manufacture:	☐☐☐☐
Inspecting Vertical Post 600			
Completeness of parts:			☐
Data bag (containing documentation) on hand and complete:			☐
Vertical Post 600 free of dirt; ID plate legible:			☐
All connecting pieces move freely:			☐
Deflection reference dimension along entire length: y = ± 20 mm		Actual dimension:	☐☐☐☐
Deflection reference dimension along entire length: x = ± 20 mm		Actual dimension:	☐☐☐☐
Bore diameter d2 reference dimension: Ø38 ± 0.8 mm; d3: Ø40 ± 0.8 mm	Actual dimension:	d2 ☐☐,☐	d3 ☐☐,☐
Weld seams visible, no external cracks			☐
No visible warping			☐
Inspection tag indicates date of last inspection			☐
Document with inspection stamp			☐
No corrosion damage			☐
Inspection of suspension links pursuant to DIN EN 818-6:			
Load ring: Clear opening d1 = 67 ± 3.0 mm		Actual dimension:	☐☐,☐
Diameter d1m = 19 ± 1.5 mm		Actual dimension:	☐☐,☐
Crack testing required		yes ☐	no ☐

Repairs may be made only by the manufacturer, and only original spare parts may be used.

The German trade association dictates only visual inspection.

....

Date Inspector

Unless stated otherwise, all dimensions in mm.

EU Declaration of conformity

HÜNNEBECK
BY BRAND SAFWAY

Manufacturer

HÜNNEBECK GmbH
Rehhecke 80
D-40885 Ratingen
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Fax: +49 (0) 2102 37651

hereby declares that the following product based on its method of construction and its design introduced by HÜNNEBECK fully complies with the relevant regulations of this directive, as well as the standards and technical specifications listed hereafter. Any modifications introduced to the product without our explicit approval shall make this declaration null and void.

Product name

TOPMAX Lifting Fork

Prod. code

603074

Function

Lifting device for crane transport of up to 2no. HÜNNEBECK TOPMAX table forms or 2no. H 20 table forms with a maximum length of up to 6.00 m and a maximum width of 3.00 m.

Guidelines

- 2006/42/EG

Harmonized standards

- DIN EN 818-1:2008-12 und DIN EN 818-4:2008-12
- EN 13889:2009-02
- DIN EN 1677-1:2009-03 und 1677-4:2009-03
- DIN EN ISO 12100:2010
- DIN EN 13155:2003+A2:2009

Ratingen, 08.07.2020
HÜNNEBECK GmbH

Signed by:

ppa. Mario Ariyoshi
Technical Director

i. V. Matthias Tolls
Project Manager Formwork

Person in charge for documentation as defined by attachment II No.1. A. No. 2, 2006/42/EC
Name: Jörg Gaudian - QA-Manager, International Supply Chain

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The illustrations contained in this document reflect normal operation at a construction site and are not always correct in regard to safety issues.

Last modified July 2020

Keep for later use!

Printing standard