



User Manual

Unloading Station

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Introduction

This manual provides instructions for the assembly of the unloading station. The unloading station is designed with the idea of having a base frame with multiple options to add on.

For a complete station there are two necessary parts, the base frame and feet set. There are different feet set heights for each unloading station. This height depends on the use of the frame, or the size of the big bag that must hang in or put under the station.

The assembly manual is attached to this document so all the information to correctly assemble the Unloading Station is available.

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.





Safety Warnings

The Frame can only be used in combination with the Indus Neva Pallets and poles. Other usage of the frame is not recommended, as they may cause damage to the structure.

General Safety Warnings

- *Maximum load Capacity (1600 kg):*
The maximum load capacity of this unloading station is 1,600 kg. Do not exceed this limit to prevent structural damage to the station and to avoid the risk of accidents or injury.
- *Supervision Required:*
Only trained and authorized personnel are permitted to operate the unloading station. It is essential that operations are always conducted under proper supervision.

Operational Warnings

- *Proper use:*
This station is specifically designed for unloading goods as outlined in the manual. Misuses, such as overloading or incorrect handling of materials, may result in damage to the equipment or injury to personnel. Do not walk or stand underneath the station.
- *Correct Loading:*
Ensure the load is evenly distributed before starting the unloading process. Uneven loading can cause instability, leading to potential accidents or damage. Do not walk or stand underneath the station.

Maintenance and Malfunctions

- *Keep the frame Clean:*
It is essential to regularly clean the frame of the unloading station to ensure proper operation and prevent the buildup of dirt, debris, or other materials that could impair its functionality. A clean frame reduces wear and tear and ensures optimal performance.
- *Check Bolts Regularly:*
Check all bolts and fasteners regularly to ensure they are secure and properly tightened. The recommended torque setting for all bolts is 50 N*m. Regular checks help prevent loose parts, which can compromise the safety and efficiency of the unloading station.
- *No Unauthorized Repairs:*
Maintenance and repairs should only be carried out by qualified and authorized personnel. Unauthorized adjustments can compromise the safety and void any guarantees.
- *Immediate Shutdown in Case of Malfunction:*
If a malfunction occurs, stop the station immediately and report the issue to INDUS BULK LOGISTICS. Do not attempt to continue operation until the problem is resolved.

Environment and Surroundings

- *Only for internal Use:*

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.





The station is designed for internal use. It is not allowed to put the Station outside.

- *Keep the Area Clear:*

Ensure the area around the station is free of obstacles or debris. A clear workspace minimizes the risk of slips, trips, and collisions.

- *Collision Protection Advice:*

It is strongly recommended to install collision protection barriers around the unloading station. These barriers will help prevent accidental impacts from vehicles such as forklifts or trucks, safeguarding both the equipment and personnel.

Assembling the frame

The assembling manuals of the Unloading Station are attached to this document.

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.



Attachment: Assembling UNLOADING STATION – LOW FRAME

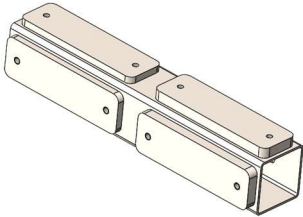
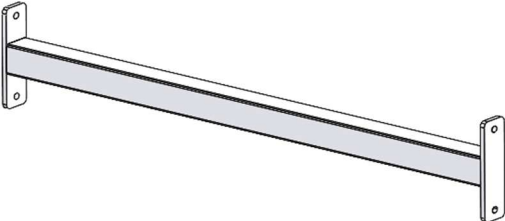
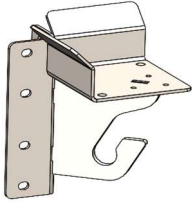
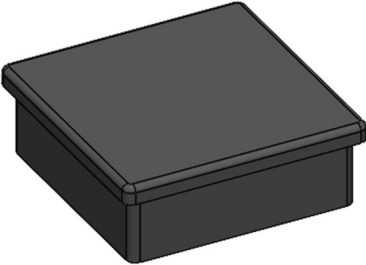
Specifications when assembled.

Length: 1380 mm

Width: 1380 mm

Weight: 109 kg

Part Overview

Image	Quantity	Part name
	4	Frame Foot
	8	Frame Crossbar
	4	Frame Neva Hand
Bolt M10x25	32	DIN 933
Ring M10	32	DIN 125
	4	End cover tube 80x80mm

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Assembling UNLOADING STATION – LOW FRAME

The assembling of the unloading frame the following steps must be followed:

NOTE: All bolts must be tightened to a torque of 50 N*m

Step 1: sides unloading station – Low Frame

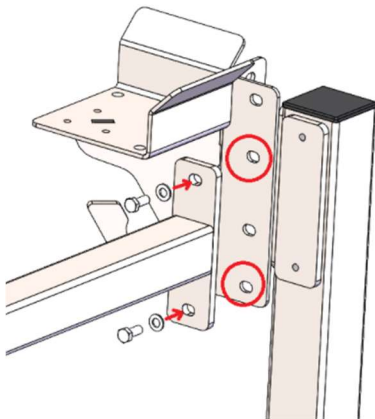
NOTE: This step must be done twice!

For this step, the following parts are needed:

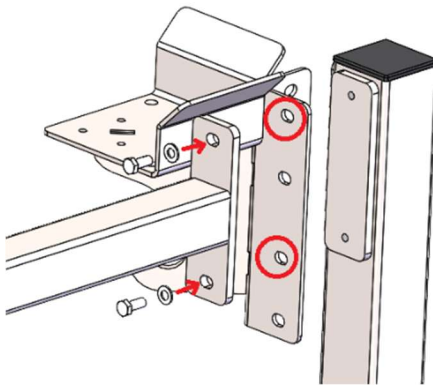
- 4x Frame Foot Low
- 4x Frame Crossbar
- 4x Frame Neva hand
- 16x Bolt M10x25 DIN 933
- 16x Ring M10 DIN 125

NOTE: When using the unloading station, there are two possible heights for the Neva Hands.

- For the higher position, use this mounting method:



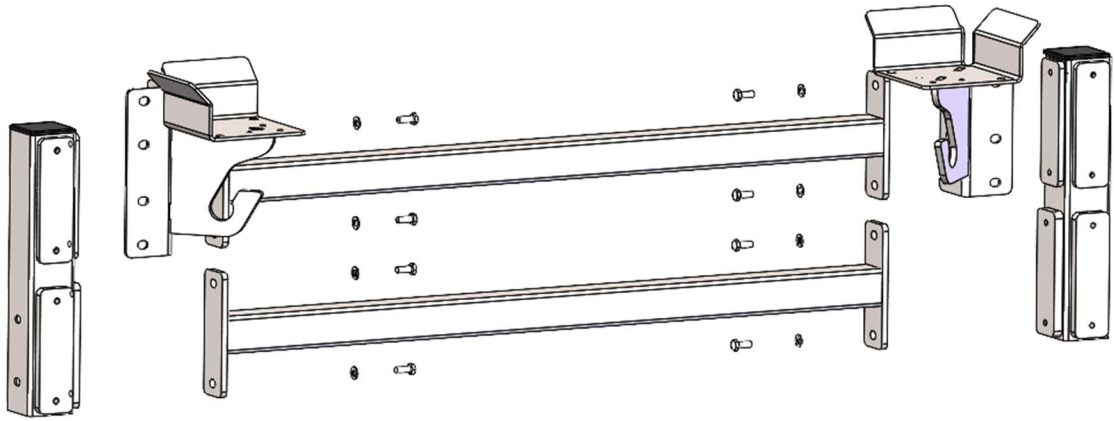
- For the lower position, use this mounting method:



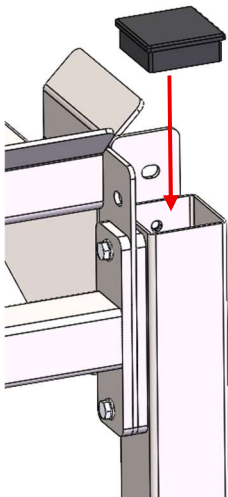
NOTE: Install all Neva Hands using the same mounting method so that all are at the same height, in order to prevent hazardous situations.

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.



Place the end cover cap into the top of the profile as shown. Push it down until it is fully seated.



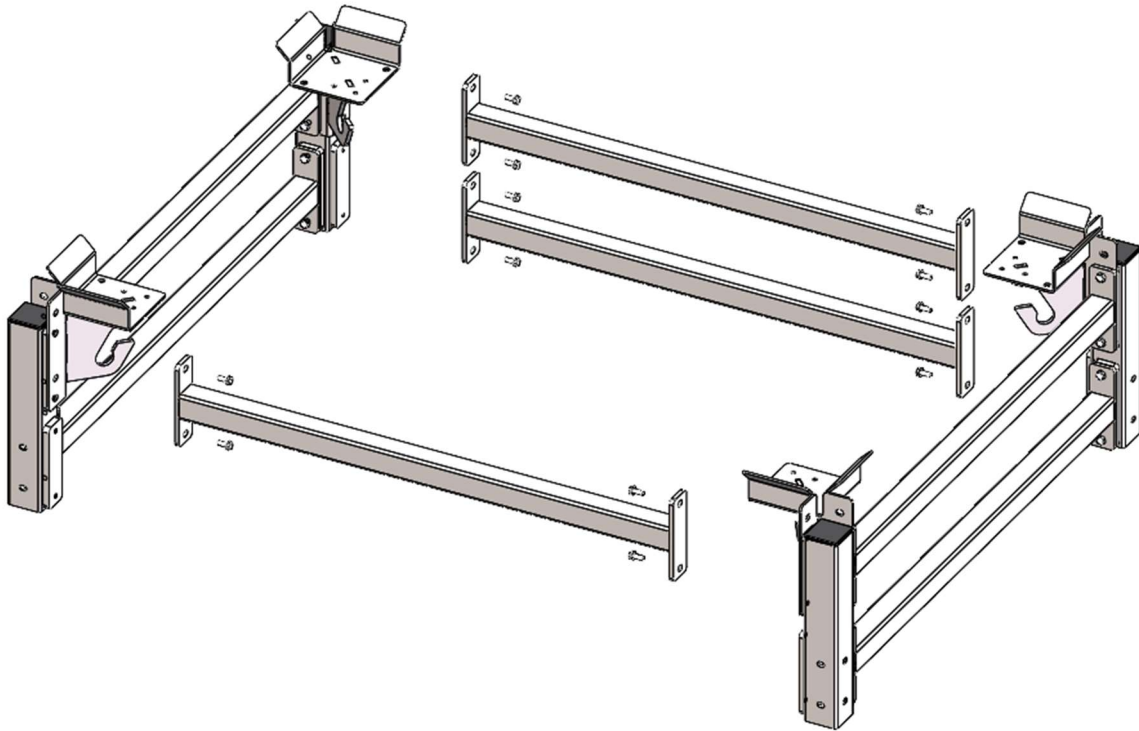
NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Step 2: completing unloading station- low frame.

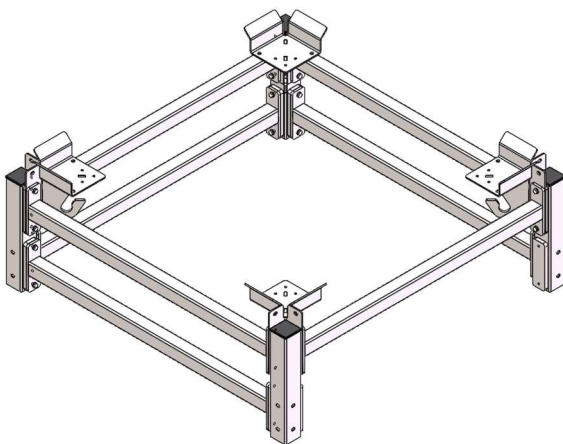
The following parts are needed:

- 2x Assembly step 1a (unloading station - low frame side)
- 3x Frame Crossbar
- 12x Bolt M10x25 DIN 933
- 12x Ring M10 DIN 125



First screw all bolts in and let them a bit loose. After all bolts are mounted all screws can be tightened.

The result of the second step:



NOTE: An additional frame crossbar can be ordered for the unloading station to close off the open side.

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Attachment: UNLOADING STATION - FRAME

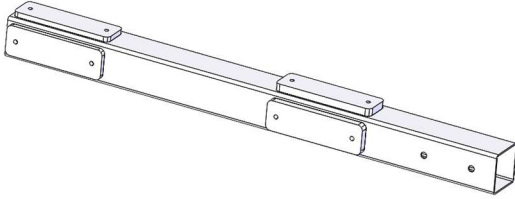
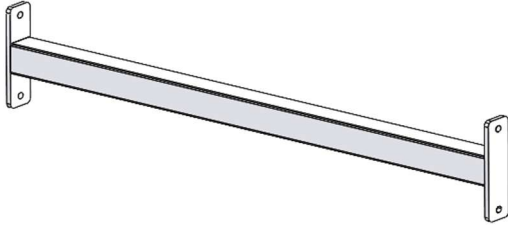
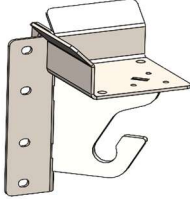
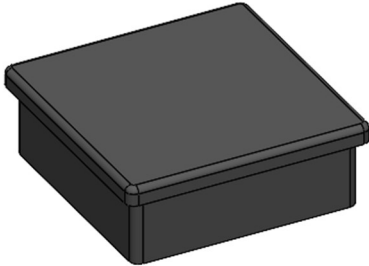
Specifications when assembled.

Length: 1380 mm

Width: 1380 mm

Weight: 123 kg

Part Overview

Image	Quantity	Part name
	4	Frame Foot
	7	Frame Crossbar
	4	Frame Neva Hand
Bolt M10x25	28	DIN 933
Ring M10	28	DIN 125
	4	End cover tube 80x80mm

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Assembling UNLOADING STATION - FRAME

The assembling of the unloading frame the following steps must be followed:

NOTE: All bolts must be tightened to a torque of 50 N*m

Step 1: sides

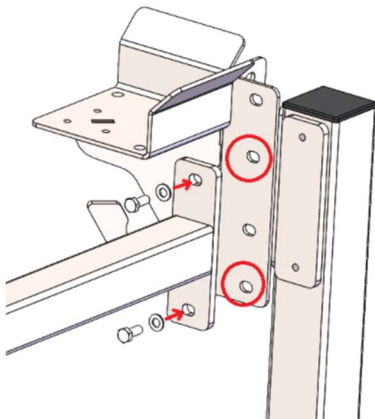
NOTE: This step must be done twice!

For this step, the following parts are needed:

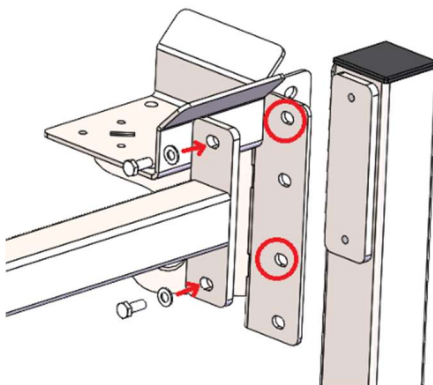
- 4x Frame Foot.
- 4x Frame Crossbar
- 4x Frame Neva hand
- 16x Bolt M10x25 DIN 933
- 16x Ring M10 DIN 125

NOTE: When using the unloading station, there are two possible heights for the Neva Hands.

- For the higher position, use this mounting method:



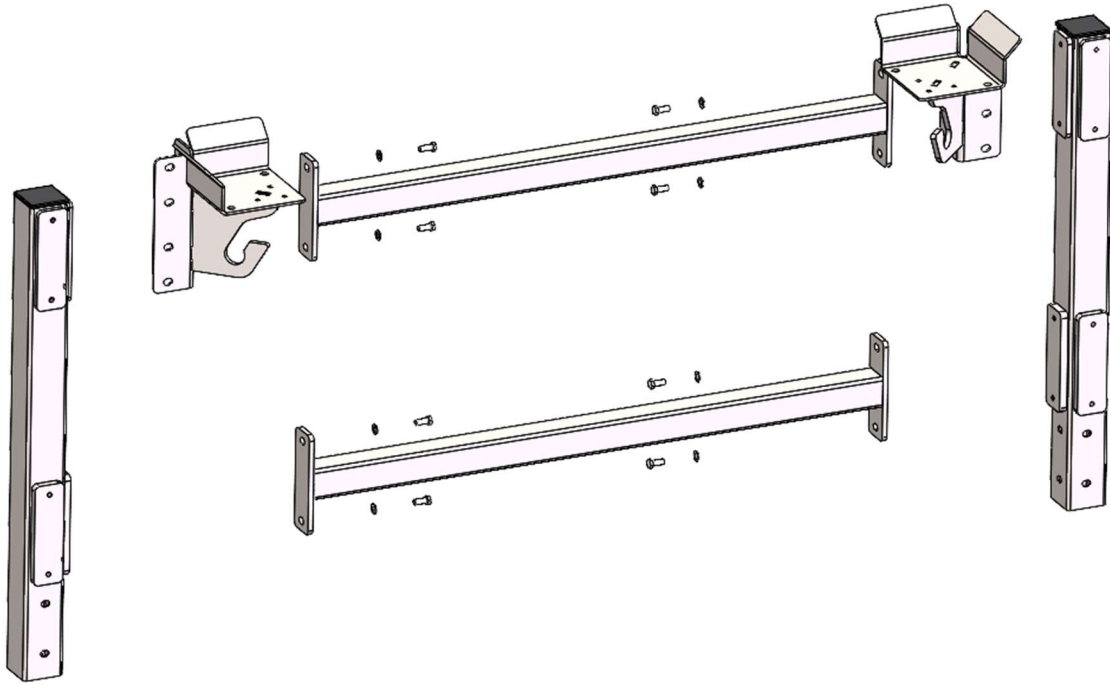
- For the lower position, use this mounting method:



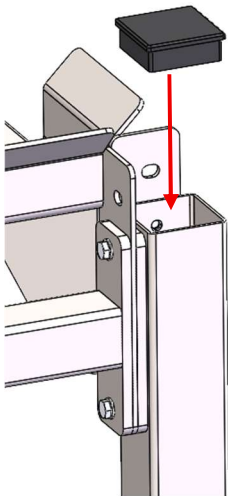
NOTE: Install all Neva Hands using the same mounting method so that all are at the same height, in order to prevent hazardous situations.

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.



Place the end cover cap into the top of the profile as shown. Push it down until it is fully seated.



NOTE: All the bolts must not be tightened before the base frame is completed

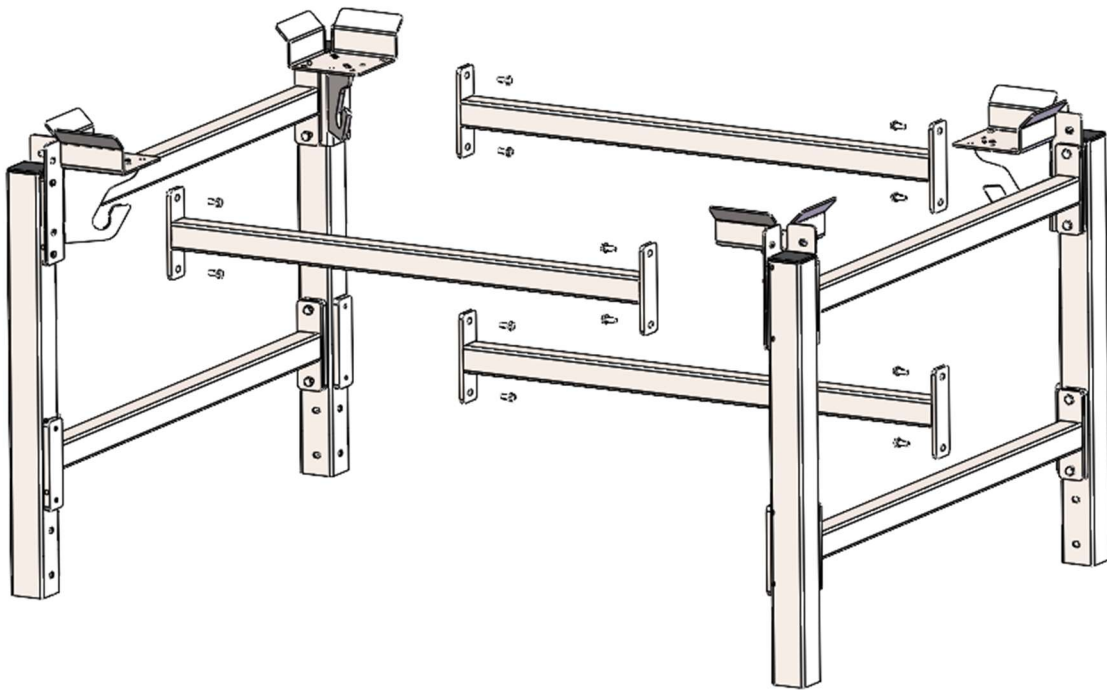
NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.



Step 2: completing base frame.

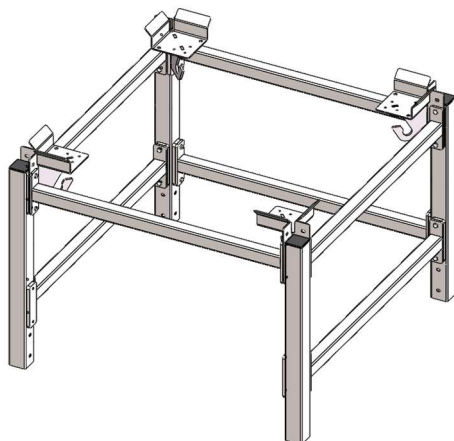
The following parts are needed:

- 2x Assembly step 1a (base frame side)
- 3x Frame Crossbar
- 12x Bolt M10x25 DIN 933
- 12x Ring M10 DIN 125



First screw all bolts in and let them a bit loose. After all bolts are mounted all screws can be tightened.

The result of the second step:



NOTE: An additional frame crossbar can be ordered for the unloading station to close off the open side.

NOTE: All the bolts must not be tightened before the base frame is completed

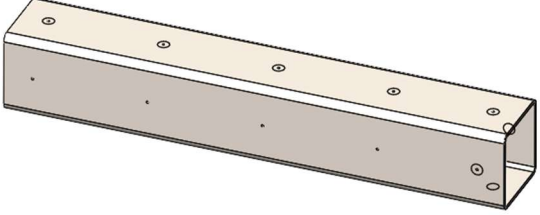
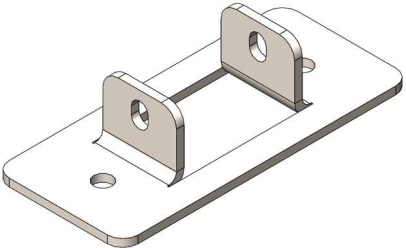
NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Attachment: Assembling Feet set XXS, XS en S

Specifications when assembled.

- XXS
Length: 1397 mm
Width: 1492 mm
Min. Height: 610 mm (incl. unloading frame)
Max. Height: 810 mm (incl. unloading frame)
Weight: 123 Kg (incl. Unloading frame)
- XS
Length: 1397 mm
Width: 1492 mm
Min. Height: 810 mm (incl. unloading frame)
Max. Height: 1010 mm (incl. unloading frame)
Weight: 128 Kg (incl. Unloading frame)
- S
Length: 1484 mm
Width: 1380 mm
Min. Height: 1110 mm (incl. unloading frame)
Max. Height: 1810 mm (incl. unloading frame)
Weight: 149 Kg (incl. Unloading frame)

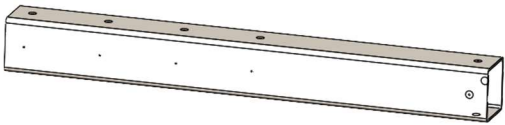
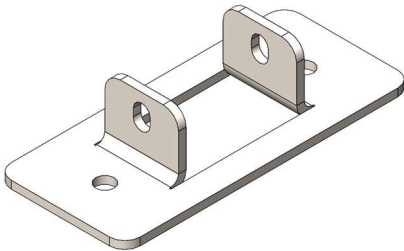
Part overview feet set XXS

Picture	Quantity	Length	Name
	4	435 mm	Tube feet XXS
	4	440 mm	Frame foot mounting option
Bolt M10x25	24		DIN 933
Ring M10	32		DIN 125
Concrete screw 8 x 100	8		FISCHER

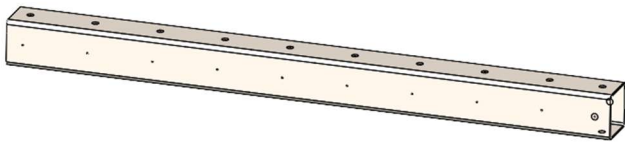
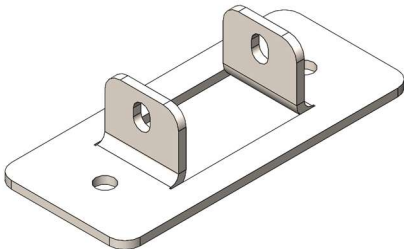
NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Part overview feet set XS

Picture	Quantity	Length	Name
	4	635 mm	Tube feet XS
	4	640 mm	Frame foot mounting option
Bolt M10x25	24		DIN 933
Ring M10	32		DIN 125
Concrete screw 8 x 100	8		FISCHER

Part overview feet set S

Picture	Quantity	Length	Name
	4	635 mm	Tube feet S
	4	640 mm	Frame foot mounting option
Bolt M10x25	24		DIN 933
Ring M10	32		DIN 125
Concrete screw 8 x 100	8		FISCHER

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

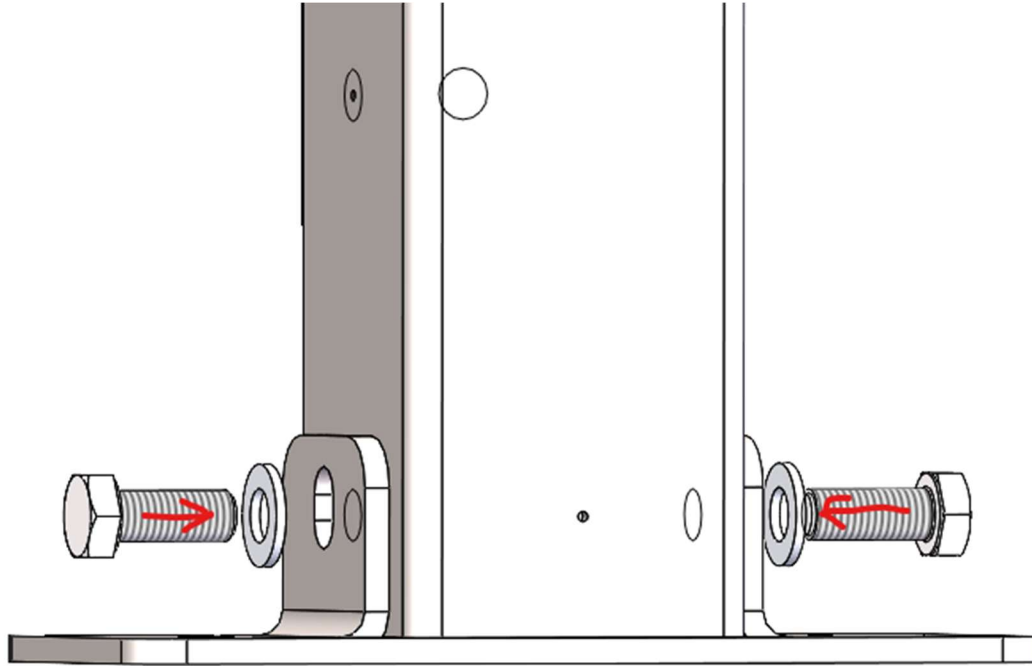
Assembling Feet set

Step 1: Mounting the Frame foot mounting option.

For this step, the following parts are needed:

- 4x Tube feet XXS/XS/S
- 4x Frame foot mounting option
- 8x Bolt M10x25
- 8x Ring M10

Mount the Frame Foot Mounting Option using the M10 bolts and washers, as shown in the image below. Do this four times.



Step 2: Mounting the feet set.

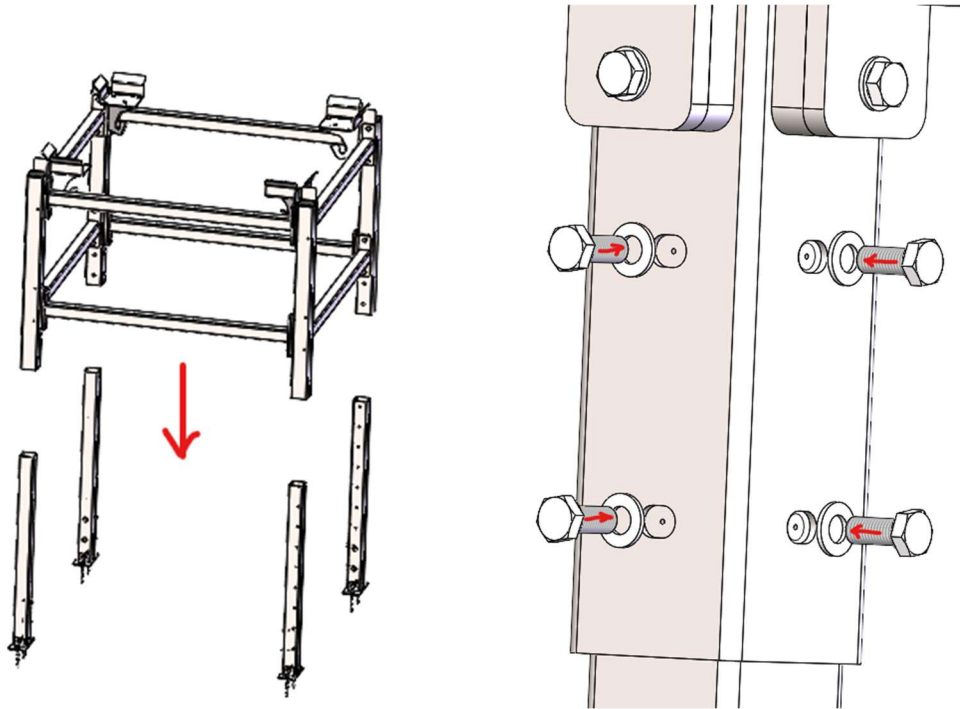
For this step, the following parts are needed:

- 4x the result of step 1
- 16x Bolt M10x25
- 16x Ring M10

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Lift the base frame so the feet can be put in from underneath. When the desired height is reached the bolts can be installed. First put all the bolts in without tightening after putting all the bolts in the right place, the frame can be lowered to the ground.

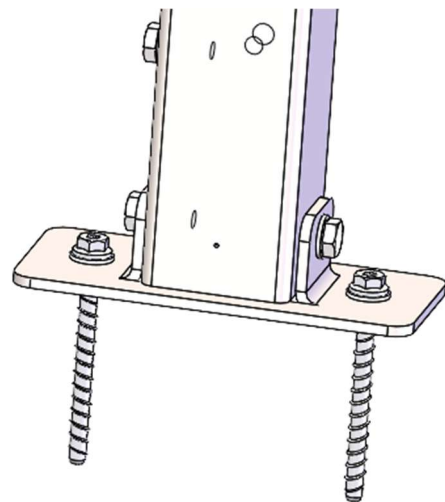


Step 3: Securing the station.

For This step, the following parts are needed

- 8x Concrete screw 8x100
- 8x Ring M10
- 1x the result of step 2

The station must be bolted into the floor to ensure its position and stability



NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Attachment: Assembling Feet set medium

Specifications when assembled.

Length: 1380 mm

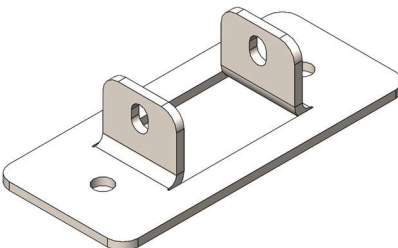
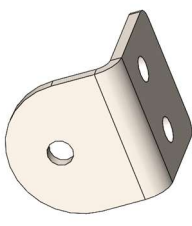
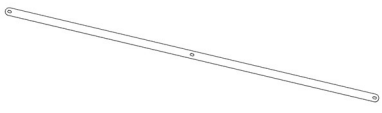
Width: 1484 mm

Min. Height: 1910 mm (Incl. Unloading station frame)

Max. Height: 2610 mm (Incl. Unloading station frame)

Weight: 185 Kg (Incl. Unloading station frame)

Part overview Feet set medium:

Picture	Quantity	Length	Name
	4	1730 mm	Tube feet M
	4	1735 mm	Frame foot mounting option
	12		Bracket Cross Member
	6		Cross Member feet M
Bolt M10x25	63		DIN 933
Ring M10	86		DIN 125
Concrete screw 8 x 100	8		FISCHER
Hexagon Nut M10	15		DIN 934

Assembling Feet set

Step 1: Mounting the Frame foot mounting option.

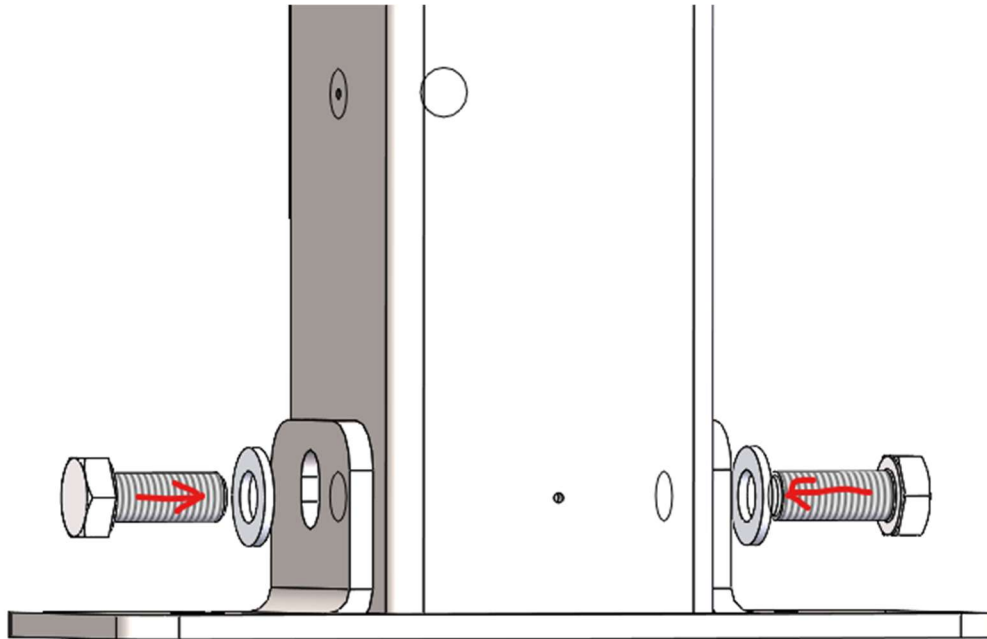
For this step, the following parts are needed:

- 4x Tube feet M
- 4x Frame foot mounting option
- 8x Bolt M10x25
- 8x Ring M10

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Mount the Frame Foot Mounting Option using the M10 bolts and washers, as shown in the image below. Do this four times.



NOTE: All the bolts must not be tightened before the base frame is completed

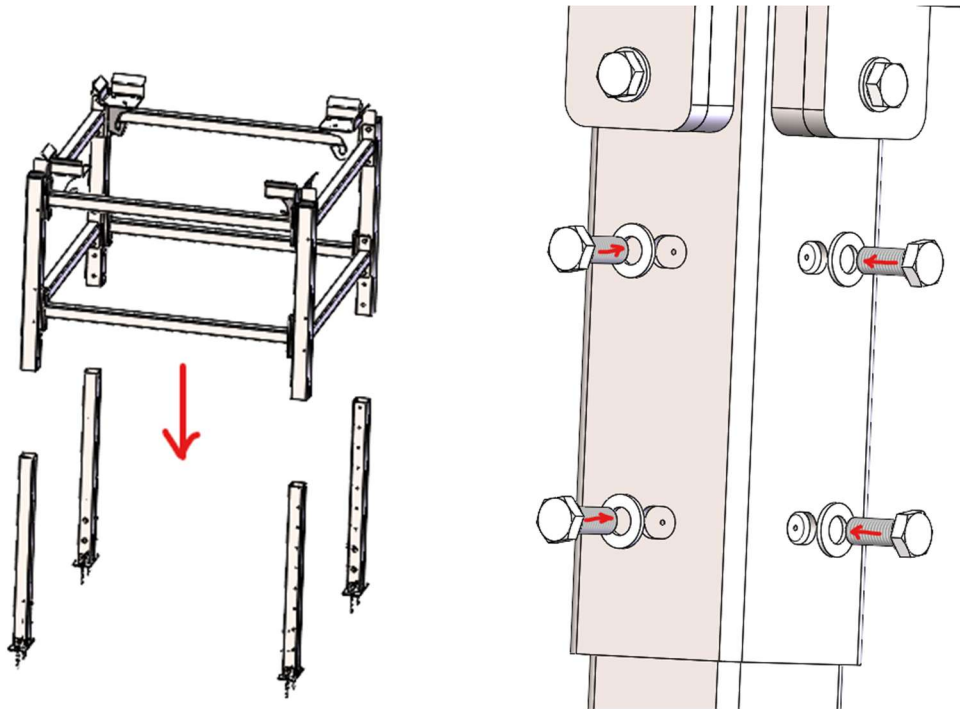
NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Step 2: Mounting the feet set.

For this step, the following parts are needed:

- 4x the result of step 1
- 16x Bolt M10x25
- 16x Ring M10

Lift the base frame so the feet can be put in from underneath. When the desired height is reached the bolts can be installed. First put all the bolts in without tightening after putting all the bolts in the right place, the frame can be lowered to the ground.



NOTE: All the bolts must not be tightened before the base frame is completed

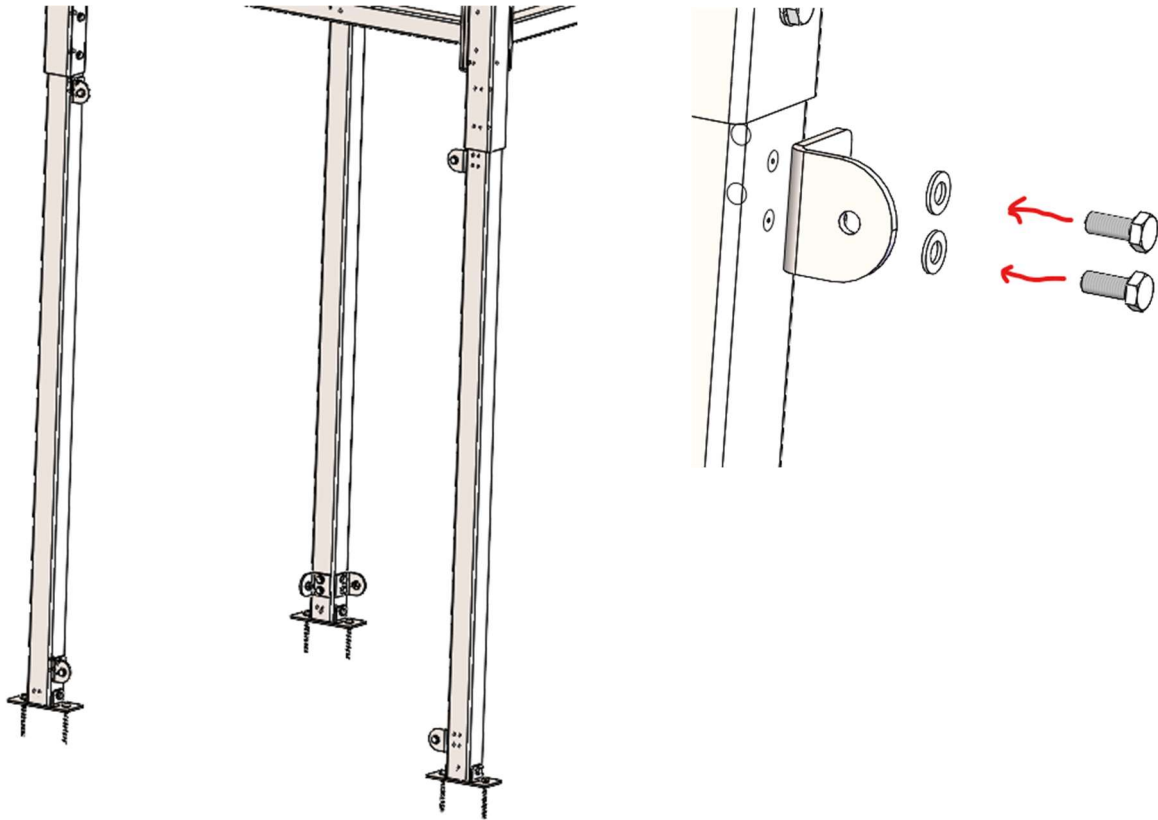
NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Step 3: Placing the cross-member brackets.

For this step, the following parts are needed

- 12x Bracket Cross Member
- 24 x Bolt M10x25
- 24x Ring M10

Mount the crossmember brackets in the lower two-hole patterns on three the sides where crossmembers are needed.



NOTE: All the bolts must not be tightened before the base frame is completed

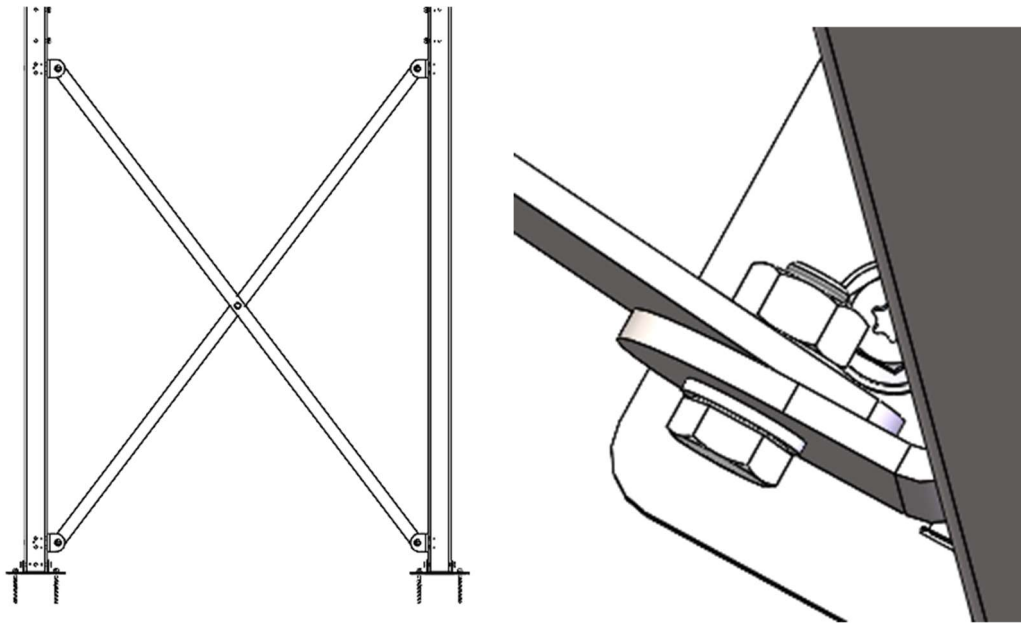
NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Step 4: placing the cross-members.

For this step, the following parts are needed

- 6x Cros member medium
- 15x Bolt M10x25
- 30x Ring M10
- 15x Hexagon Nut M10

Place the crossmembers on the brackets. Also fasten the two crossmembers together in the middle.

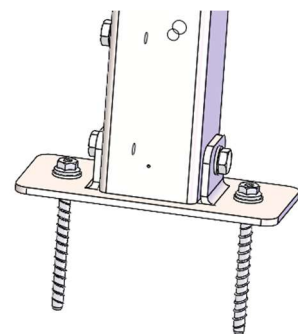


Step 5: Securing the station.

For This step, the following parts are needed

- 8x Concrete screw 8x100
- 8x Ring M10
- 1x the result of step 4

The station must be bolted into the floor to ensure its position and stability.



NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

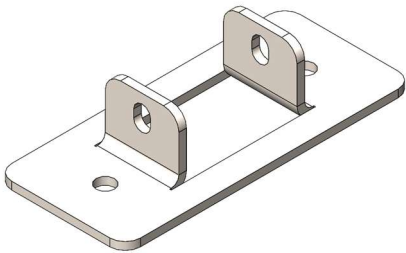
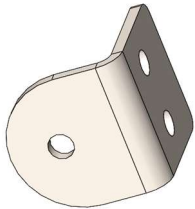
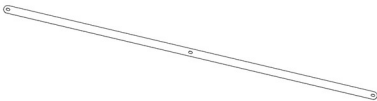
Attachment: Assembling Feet Set Large

NOTE: All bolts must be tightened to a torque of 50 N*m

Specifications when assembled.

Length:	1484 mm
Width:	1380 mm
Min. Height:	2710 mm
Max. Height:	3410 mm
Weight:	210 kg

Part overview Feet set Large.

Picture	Quantity	Length	Name
	4	1730 mm	Tube feet M
	4	1735 mm	Frame foot mounting option
	12		Bracket Cross Member
	6		Cross Member feet M
Bolt M10x25	63		DIN 933
Ring M10	86		DIN 125
Concrete screw 8 x 100	8		FISCHER
Hexagon Nut M10	15		DIN 934

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

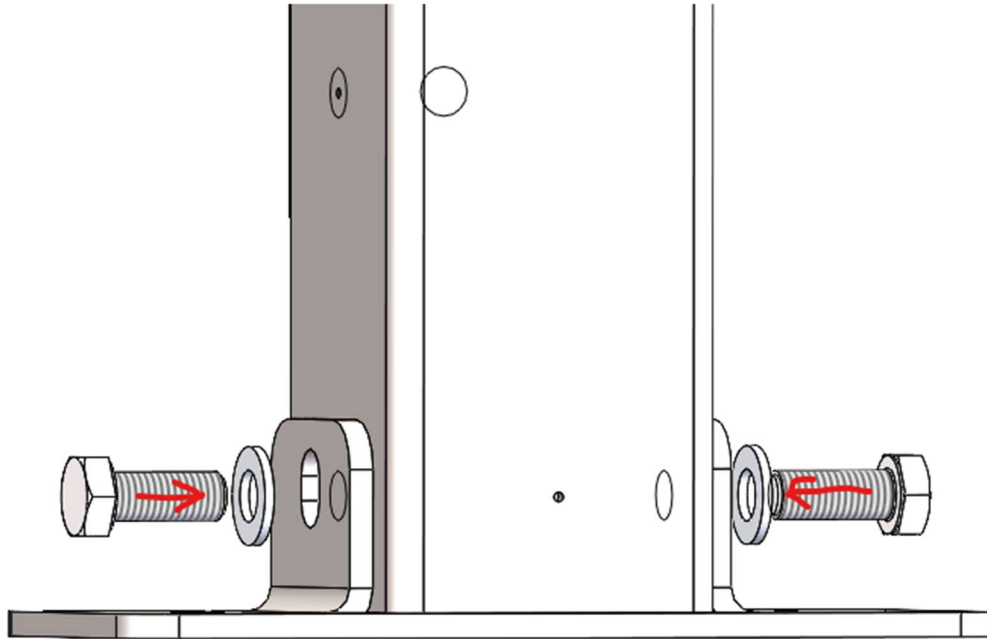
Assembling Feet set

Step 1: Mounting the Frame foot mounting option.

For this step, the following parts are needed:

- 4x Tube feet M
- 4x Frame foot mounting option
- 8x Bolt M10x25
- 8x Ring M10

Mount the Frame Foot Mounting Option using the M10 bolts and washers, as shown in the image below. Do this four times.



Step 2: Mounting the feet set.

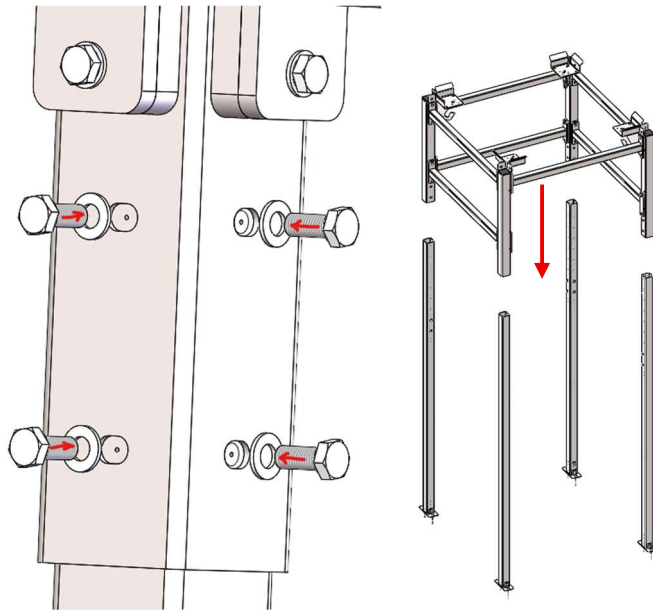
For this step, the following parts are needed:

- 4x the result of step 1
- 16x Bolt M10x25
- 16x Ring M10

Lift the base frame so the feet can be put in from underneath. When the desired height is reached the bolts can be installed. First put all the bolts in without tightening after putting all the bolts in the right place, the frame can be lowered to the ground.

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

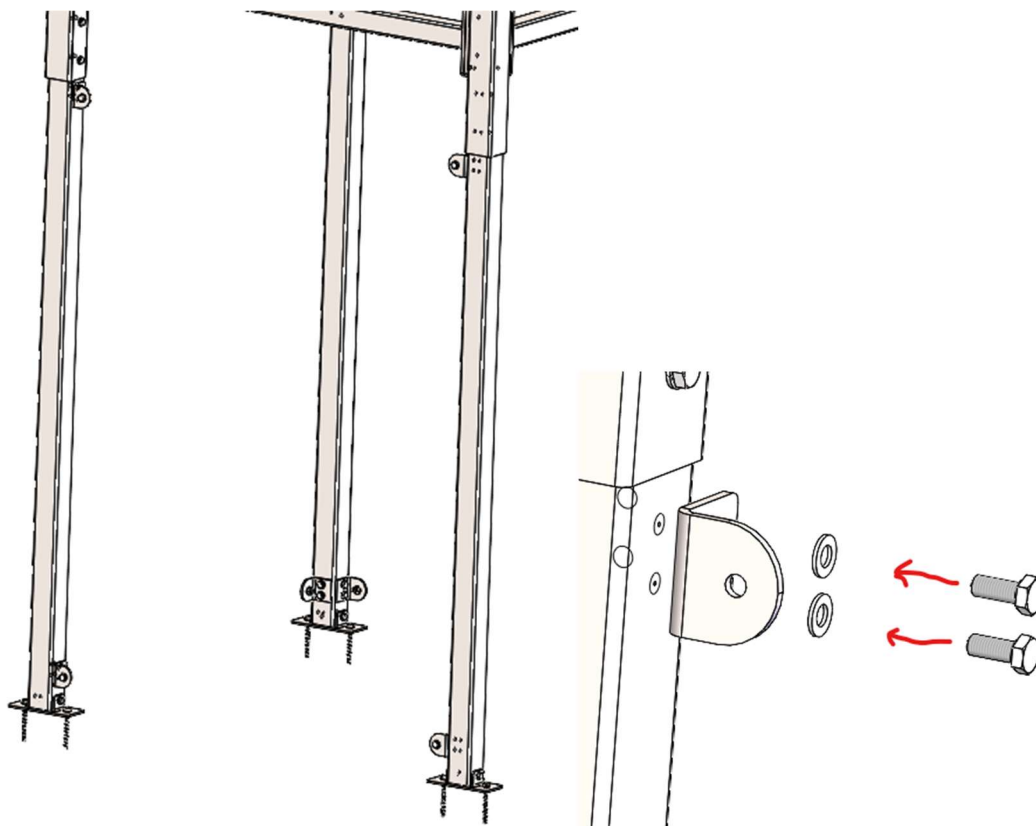


Step 3: Placing the cross-member brackets.

For this step, the following parts are needed:

- 12x Bracket Cross Member
- 24 x Bolt M10x25
- 24x Ring M10

Mount the crossmember brackets in the lower two-hole patterns on three the sides where crossmembers are needed.



NOTE: All the bolts must not be tightened before the base frame is completed

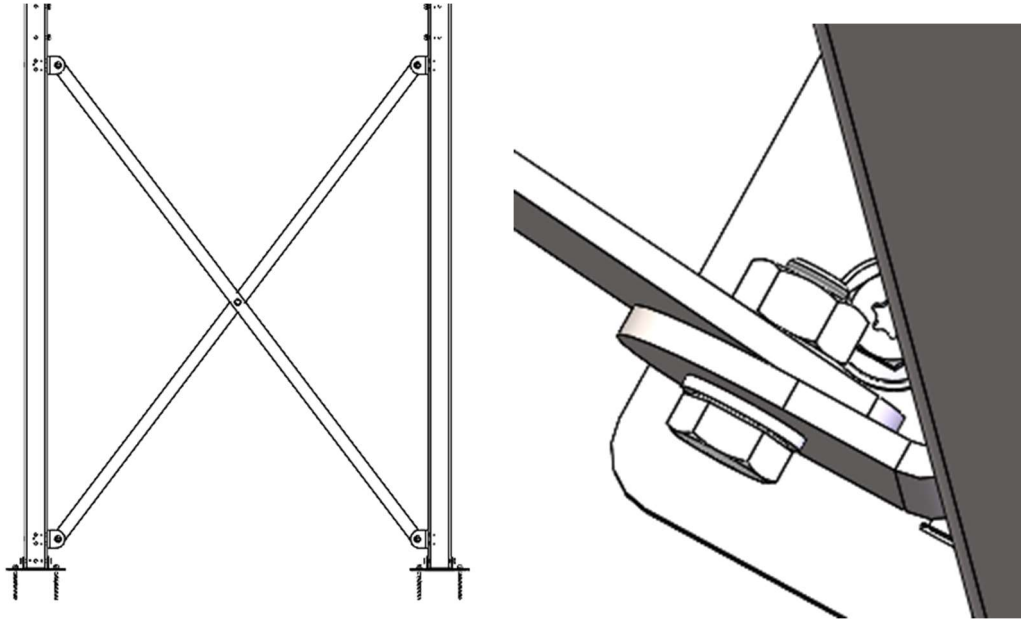
NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Step 4: placing the cross-members.

For this step, the following parts are needed:

- 6x Cros member medium
- 15x Bolt M10x25
- 30x Ring M10
- 15x Hexagon Nut M10

Place the crossmembers on the brackets. Also fasten the two crossmembers together in the middle.

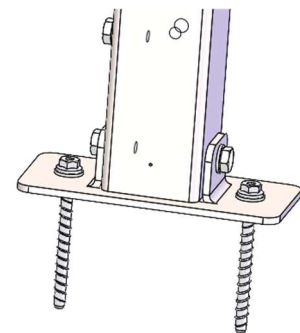


Step 5: Securing the station.

For This step, the following parts are needed:

- 8x Concrete screw 8x100
- 8x Ring M10
- 1x the result of step 4

The station must be bolted into the floor to ensure its position and stability.

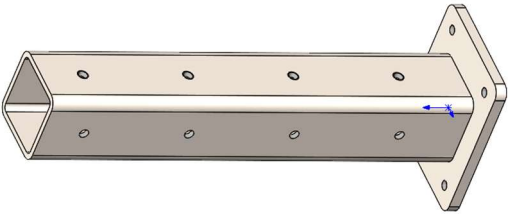
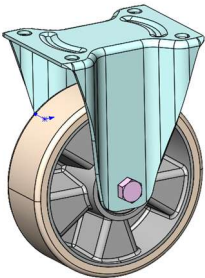
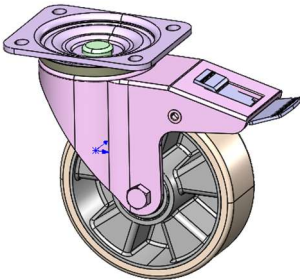


NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Attachment: Wheel set

The wheelset is a replacement for the feet sets. The wheelset standard can be mounted on Part overview

Picture	Quantity	Length	Name
	4	410 mm	Feet Wheelset
	2	205 mm	Fixed Wheel
	2	205 mm	Swivel Wheel
Bolt M10x25	16		DIN 933
Ring M10	48		DIN 125
Bolt M10x30	16		DIN 933
Nut M10	16		DIN 934

Installing the wheel set

The wheelset is in general installed the same way as the Feet set Small.

Step 1: Installing the wheels.

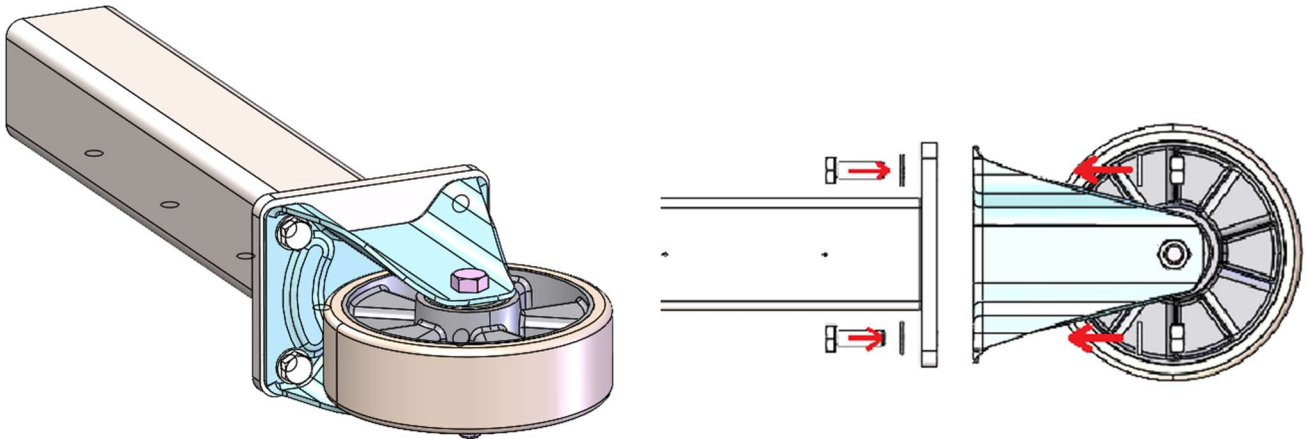
For This step, the following parts are needed:

- 4x Feet wheel set
- 2x Fixed wheel
- 2x Swivel wheel
- 16x Bolts M10x30
- 32x Ring M10
- 16x Nut M10

The wheels must be mounted on the feet as shown in the pictures below.

NOTE: All the bolts must not tightened before the base frame is completed

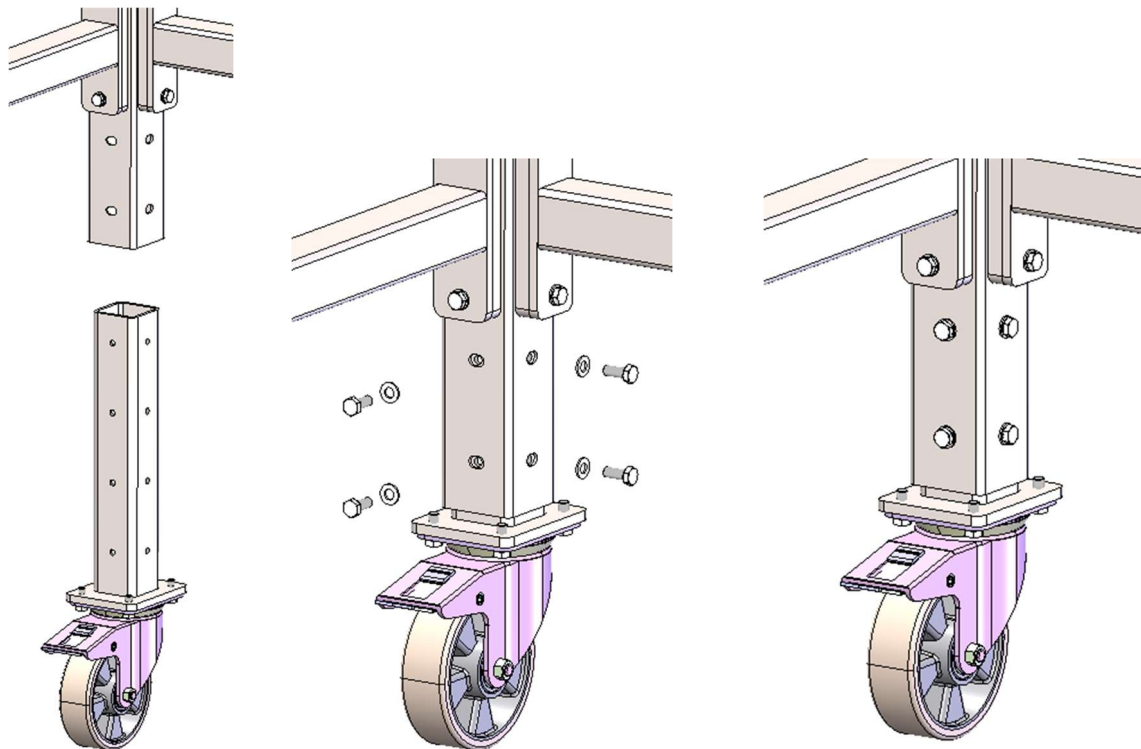
NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.



Mounting the swivel wheels works the same way as the fixed wheels.

Step 2: Installing the feet.

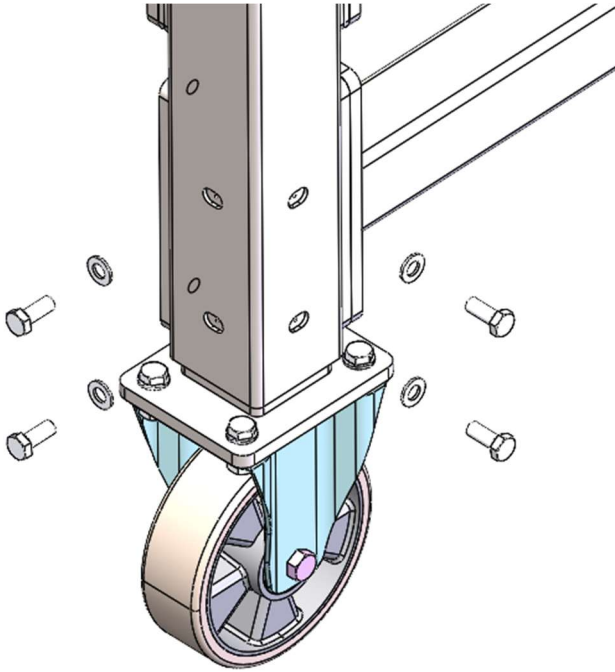
After the wheels are mounted to the foot they can be mounted under the base frame. The bolt must loosely be screwed in. After all, four bolts be screwed in the foot, the bolt and be tightened. Make sure all the feet be mounted correctly before lowering the frame to the ground.



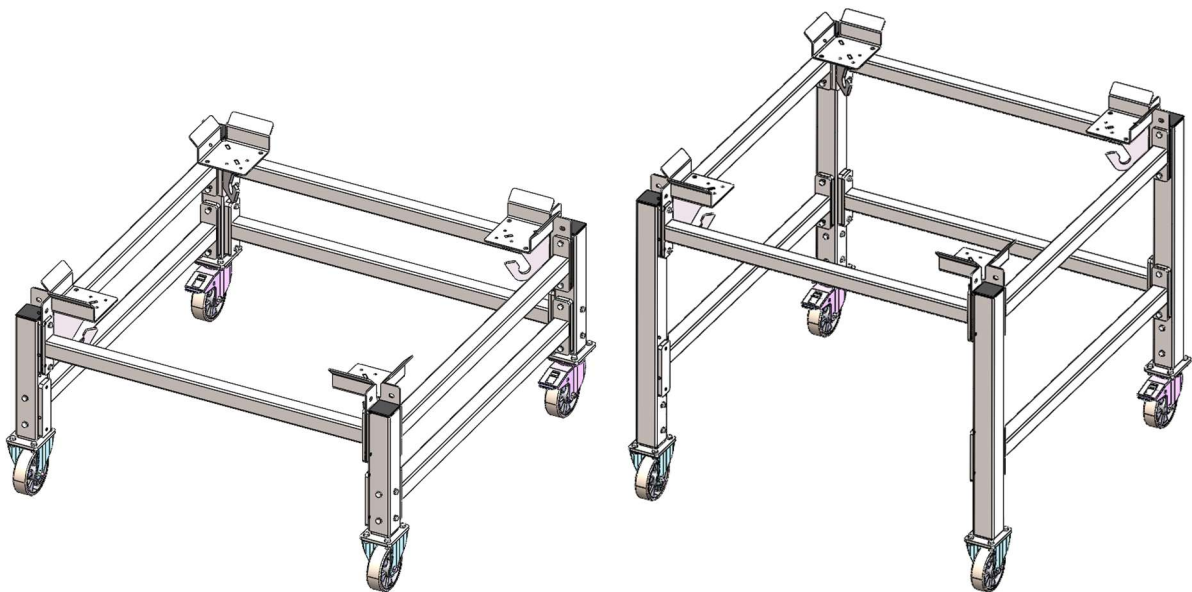
NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

For the low frame: Follow the same procedure. The only difference is that the bolts must be installed from the outside of the frame.



NOTE: Make sure that the Swivel wheels are put at the closed side of the frame and the fixed wheel at the open side.



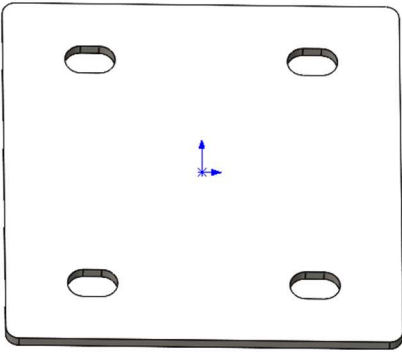
NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

Attachment: Coupling set

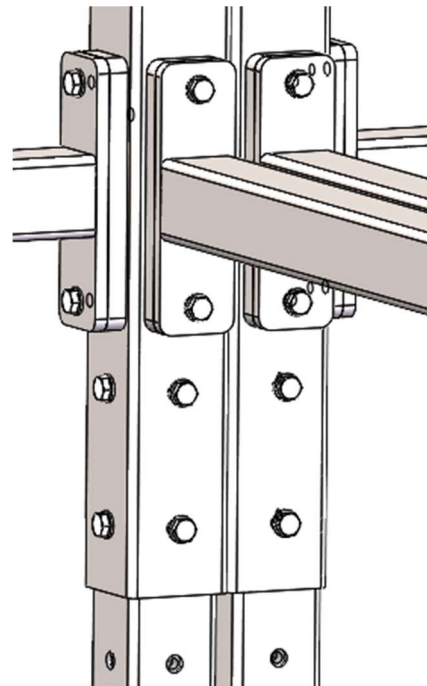
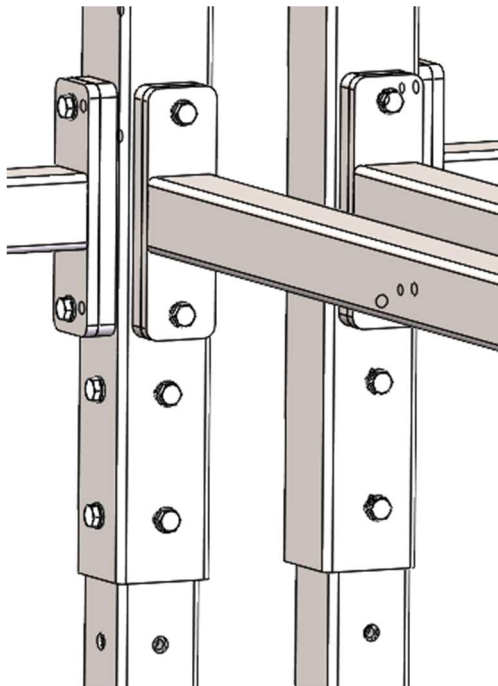
It is possible to connect two frames together with a coupling plate which has been designed for this purpose. The installation of the plate is explained in this chapter.

Part Overview

Picture	Quantity	Length	Name
	2		Coupling Plate

Installing the coupling plate

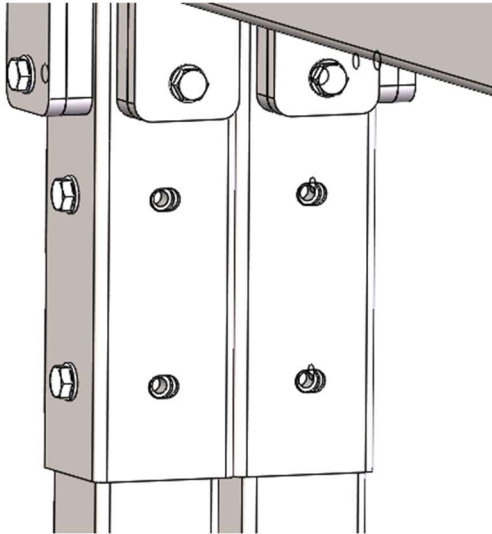
Before the coupling plate can be installed the two frames must be placed next to each other:



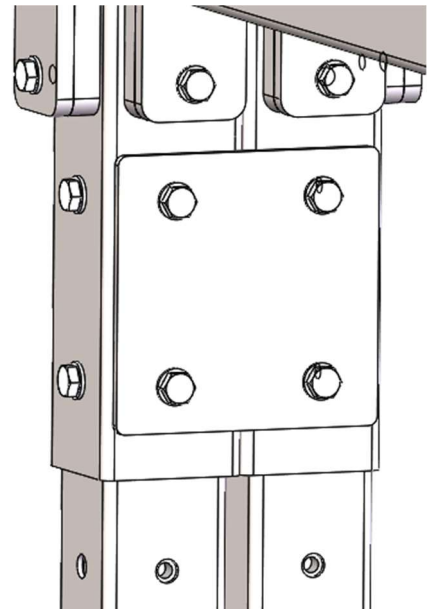
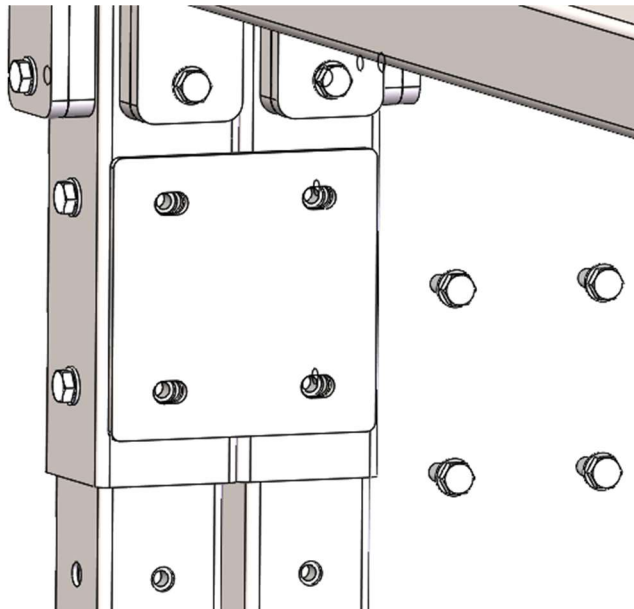
NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.

After placing the frames next to each other, the bolts on the inside must be removed and saved for later in the installation process.



When the bolts are removed the coupling plate can be placed, and the bolts can be put back in, so the coupling plate is attached to the frame.



Repeat the process on the other side of the frame to make sure the frames are coupled correctly together. When both sides are coupled the installation of the coupling plates is finished.

NOTE: All the bolts must not be tightened before the base frame is completed

NOTE: All the bolts must be lubricated with Anti-seize when the Unloading station is made of stainless steel.