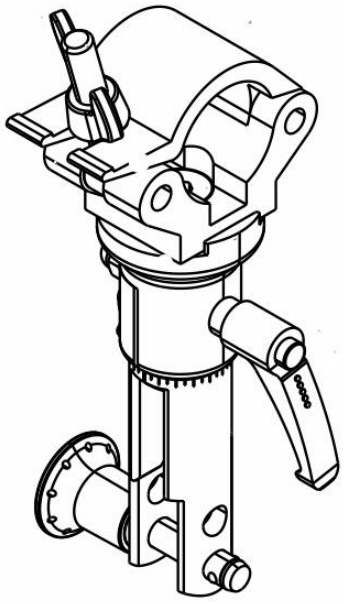
CODA

CODA AUDIO

Operation Manual

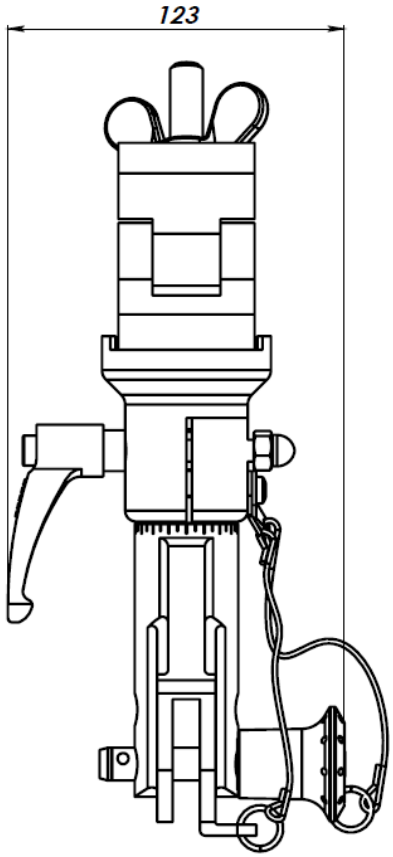
Vario Clamp

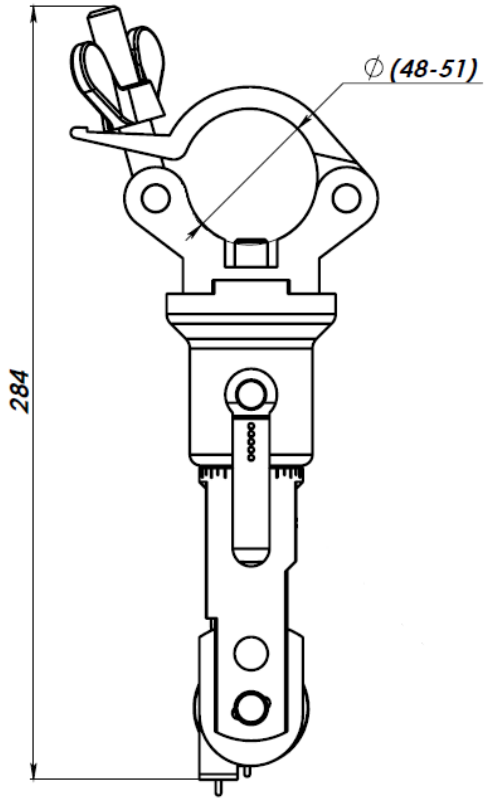


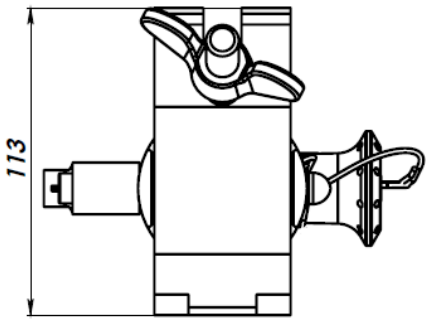
Contents

1. Description

Vario Clamp is a general truss clamp for AiRAY, CiRAY, ViRAY, N-RAY, TiRAY, APS, N-APS frames and extension bar. **WLL 500kg**!

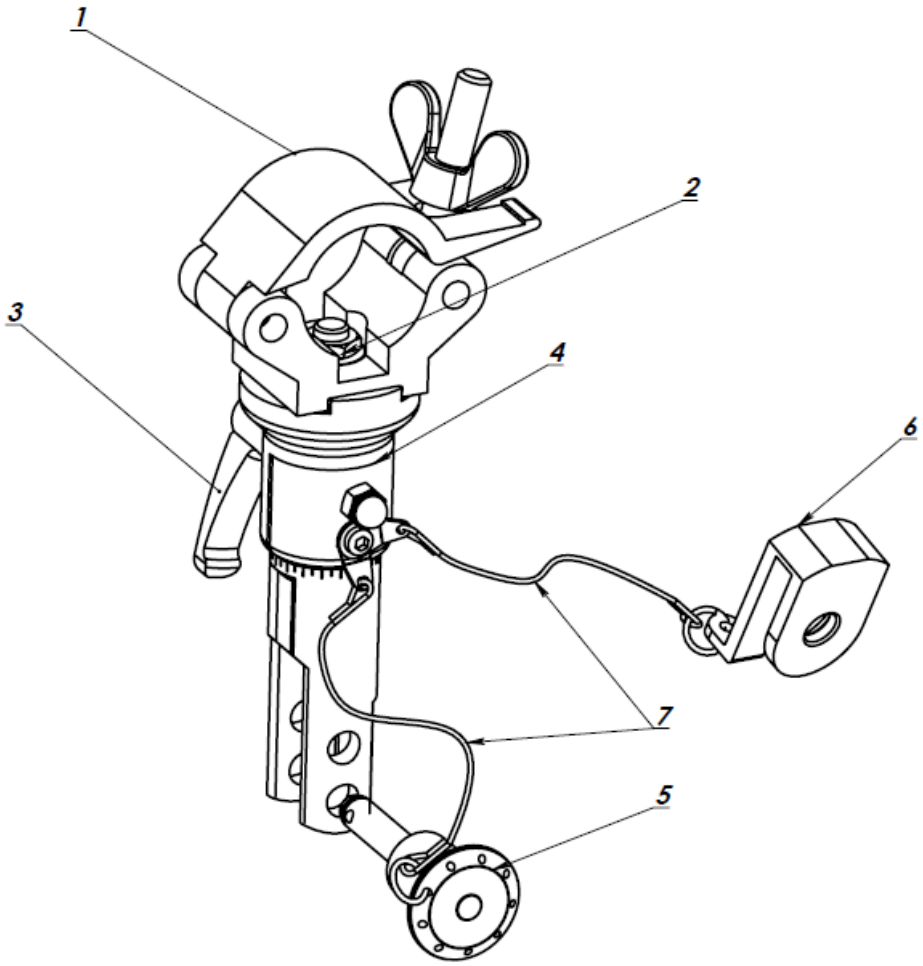






2. Parts and weight

Vario Clamp consists of the following parts (see the table below).



Pos.	Qty.	Specification	Description
1	1	WLL 500 kg	Half Coupler
2	1	DIN 7991-M12x40	Connecting bolt with securing nut M12 (between Half Coupler and Vario Clamp)
3	1	GN 604.1	Adjustable Hand Levers
4	1		Vario Clamp
5	1	GN 113.6	PIN 12x40
6	1		Adapter
7	2	GN 111.2-B	Retaining Cables

Net weight: 2.250 kg (4.96 lb).

3. Intended Use

⚠ Note: Vario Clamp must be used only as a general truss clamp for AiRAY, CiRAY, ViRAY, N-RAY, TiRAY, APS, N-APS frames and extension bar with **WLL 500 kg**.
The Half Coupler for pipe Ø (48-51) mm (2"), load capacity up to 500 kg (1102 lb).

⚠ Note: Strictly observe the maximum permitted load of the Half Coupler as indicated in the mounting instructions!

4. Safety precautions

- Mounting and adjustment should be carried out only by qualified and authorized person by strictly observing all relevant governmental work safety regulations in the respective country.

- Prior to mounting the Vario Clamp, make sure that the metal farm resp. the frame is stable and the fixing points are suitable and capable of withstanding the load of Vario Clamp and all the frames and loudspeakers mounted to it.

- Prior to using Vario Clamp a thorough visual and functional inspection of the assembly and mounting should be performed!

- Do not use Vario Clamp if there is any malfunctioning or defective component!

- Replace every malfunctioning or defective component!

5. Hazards

Strictly observe the relevant governmental work safety regulations!

⚠ Note: there is a hazard related to heavy loads, moving heavy loads, falling of loads from the metal farm or hanging pipes!

⚠ Note: there is a hazard related to moving the metal farm or to collapsing structure!

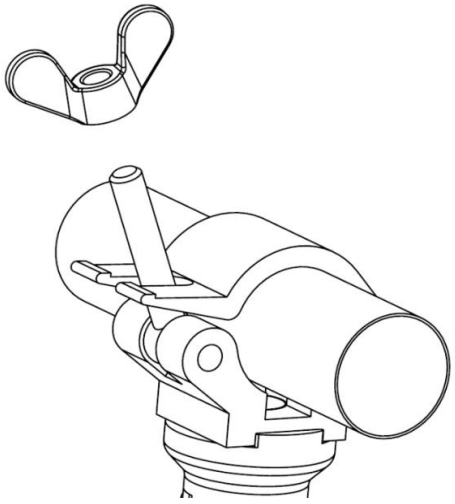
⚠ Note: there is a hazard related to injuries due to falling of heavy loads or collapsing structure!

6. Installation

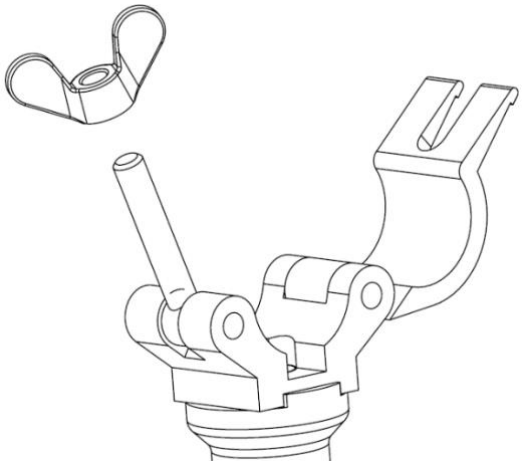
⚠ Note: Each adjustment should be carried out one by one! Do not perform more than a single adjustment at a time!

⚠ Prior to horizontal or radial alignment, make sure that all the other components are properly and tightly locked!

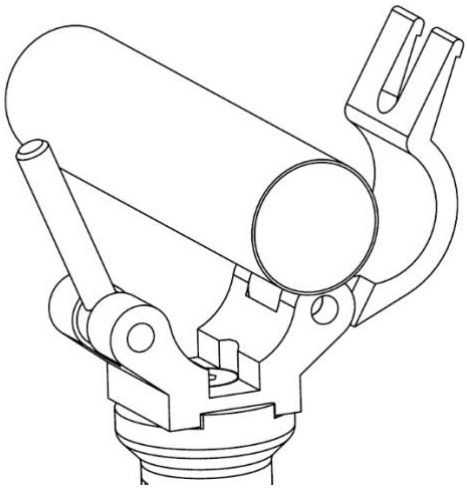
Step 1. To open the Half Coupler, unscrew the wingnut and lift it up to remove it.



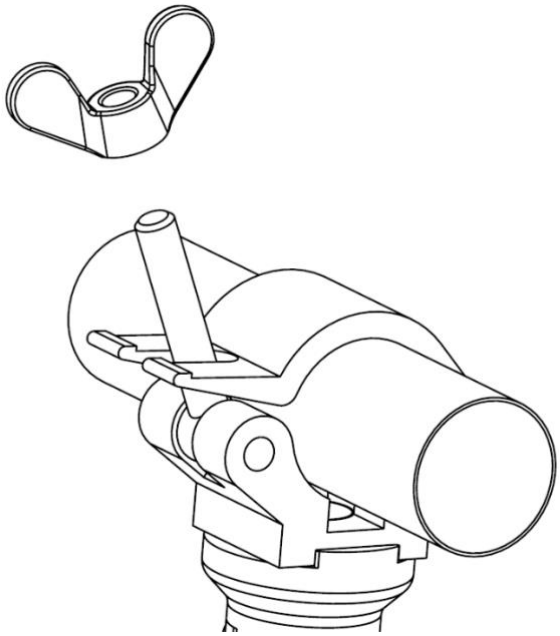
Step 2. Open the Half Coupler



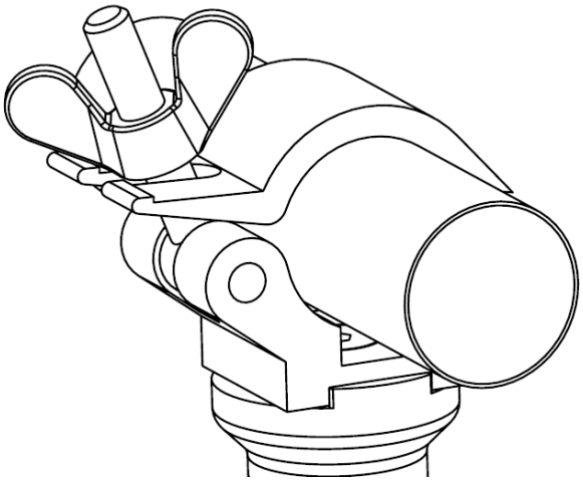
- When Half Coupler is in its open position, Vario Clamp can be lifted and placed on the metal farm intended for mounting the construction.



Step 3. Close and lock the two parts of the Half Coupler enclosing the pipe, respectively the metal farm.



Step 4. Screw the wingnut tightly.

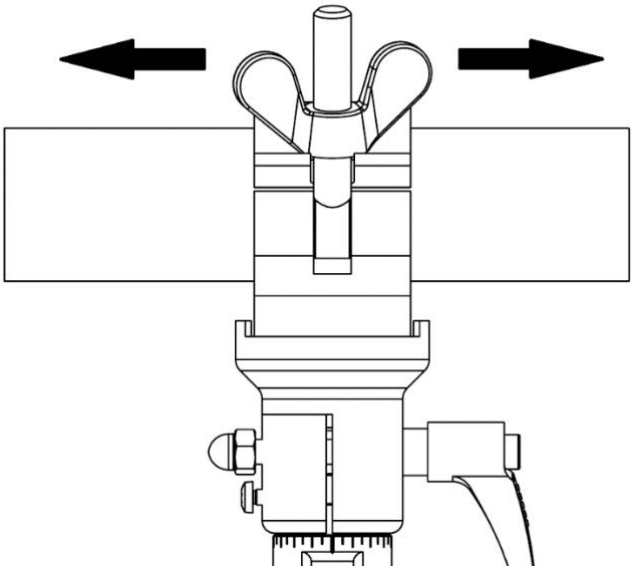


⚠ **Make sure the construction is well fixed and stable! Check thoroughly!**

7. Operation

7.1. Horizontal Half Coupler alignment

1. To correctly position the Vario Clamp, loosen slightly the wingnut but do not fully unscrew it! Move the Vario Clamp horizontally on the pipe.

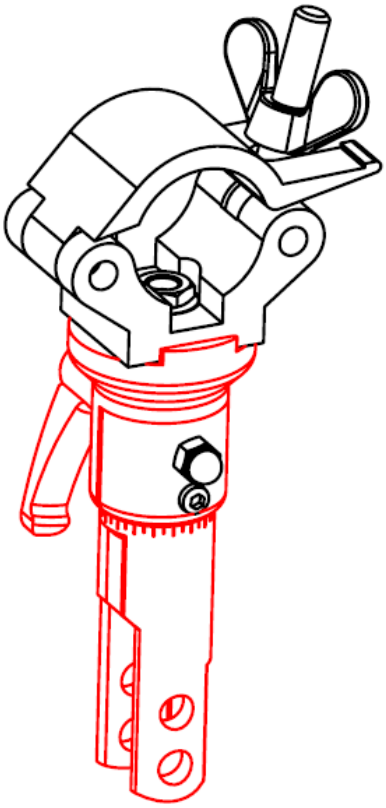


⚠ Note: While adjusting the horizontal position of the Vario Clamp hold the Vario Clamp the entire time. Because Vario Clamp is heavily loaded at the same time the wingnut is not fully tighten there is a hazard of falling of heavy loads from the metal farm

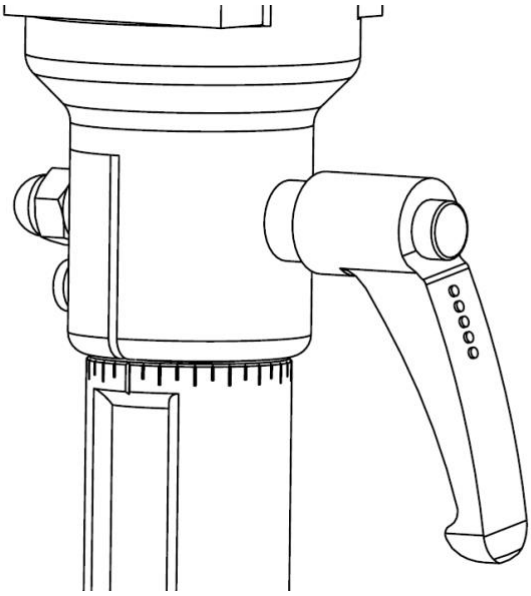
2. When the Vario Clamp is positioned to the intended place, tighten the wingnut.

7.2. Radial alignment

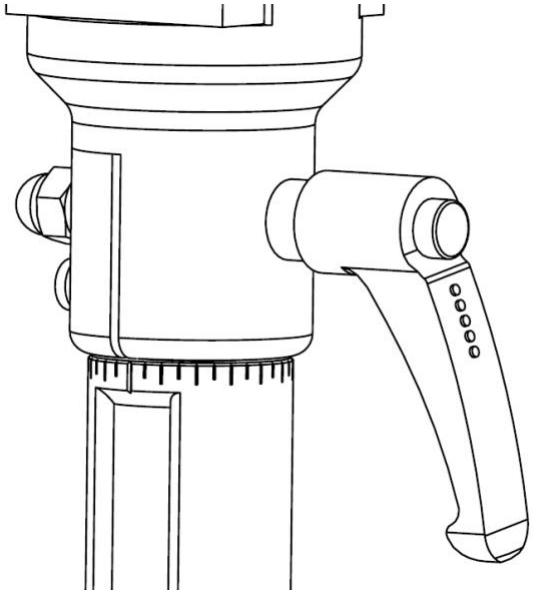
Vario Clamp is equipped with rotating module which rotates 360° in both directions (left and right). Use the rotating module to align Vario Clamp radially.

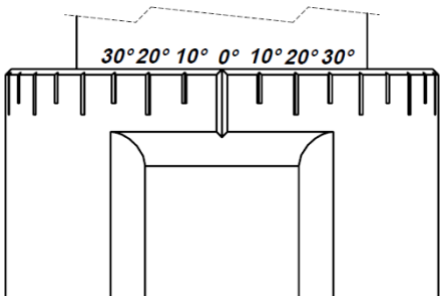


1. To loosen the rotating module of Vario Clamp push the button and pull the adjustable hand lever.



2. Rotate the rotating module of Vario Clamp to the desired position. To adjust the angle of the rotation, use the scale and rotate to the left or to the right (the scale shows the angle, one division corresponds to 10°).

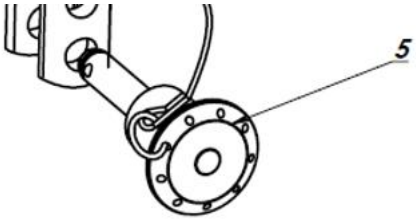




3. When aligned as intended, pull the adjustable hand lever to fix the rotating module.

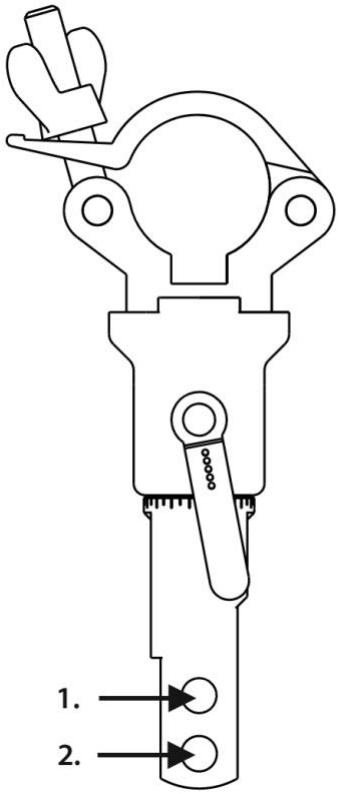
7.3. Assembly

1. Use the flight pin to attach the Vario Clamp to various CODA Audio Flying frames

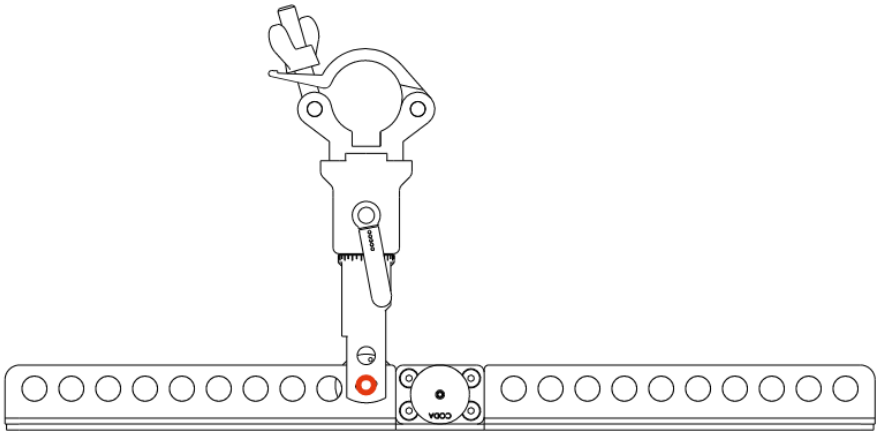


⚠ Note: Ensure that the connection is locked, once the pin is fully inserted in it's position

The Vario Clamp has two pin positions:

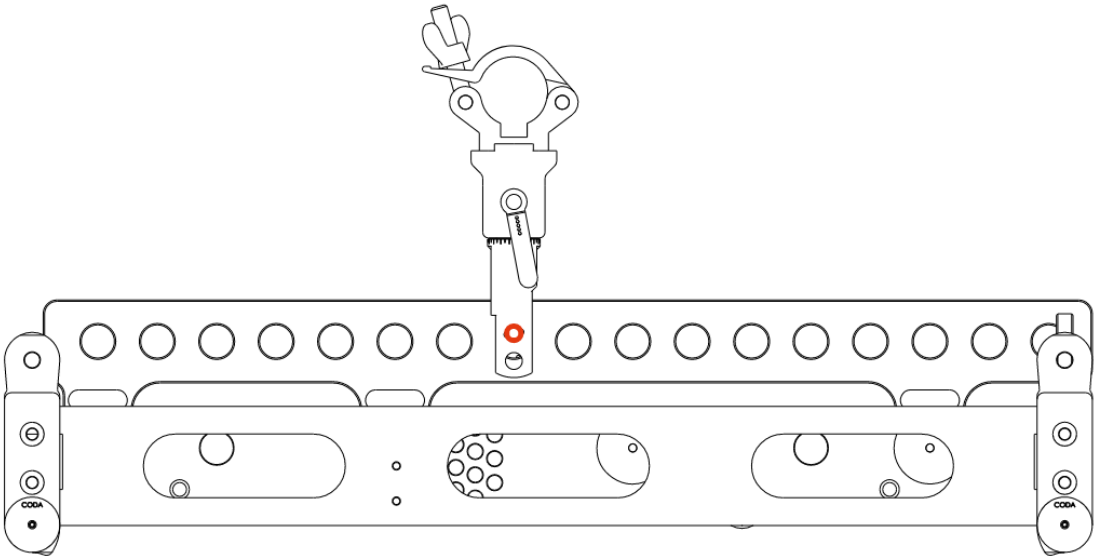


2. Assembly examples FRV-APS



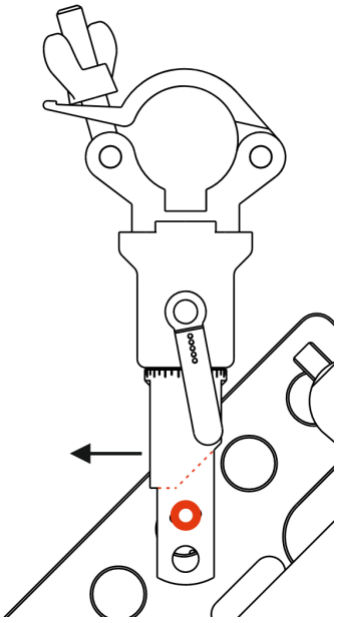
Example shows the Vario Clamp combined with FRV-APS. Pin Position 2.

3. Assembly examples FR-AR-Set



Example shows the Vario Clamp combined with FR-AR-Set. Pin Position 1.

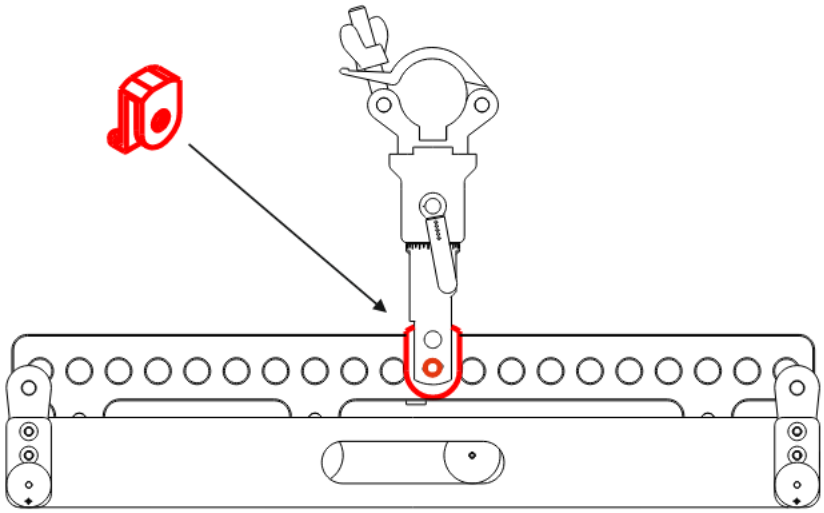
The Vario Clamp has a narrower slot at the Pin Position 2. which holds the EXBAR-AR in horizontal aimed place.

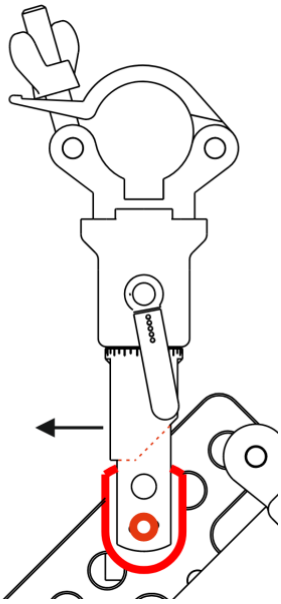


⚠ Note: For higher negative / positive vertical frame angles, it's necessary to place the Adapter into the right direction.

4. Assembly examples FR-NR

The Vario Clamp includes an adapter to reduce the gap with and ensure a proper fixture for the horizontal position





⚠ Note: For higher negative / positive vertical frame angles, it's necessary to place the Adapter into the right direction.