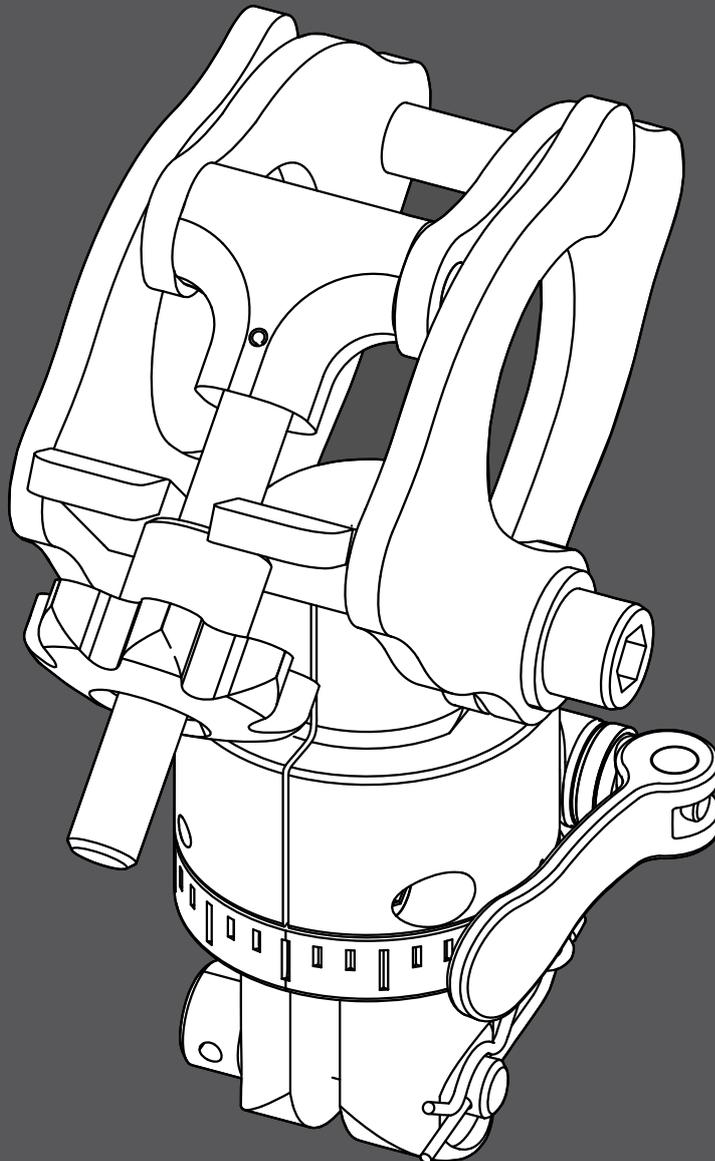


Z

Z5147 **Mounting instructions 2.4 en**



General information

Z5147 Mounting instructions

Version: 2.4 en, 01/2021, D2970.EN .02

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Keep this document with the product or in a safe place so that it is available for future reference.

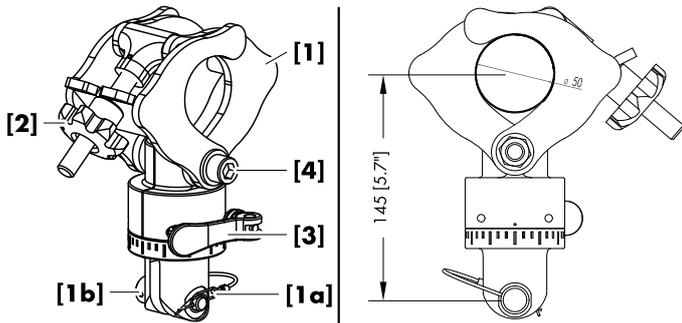
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1 Z5147 Rota clamp

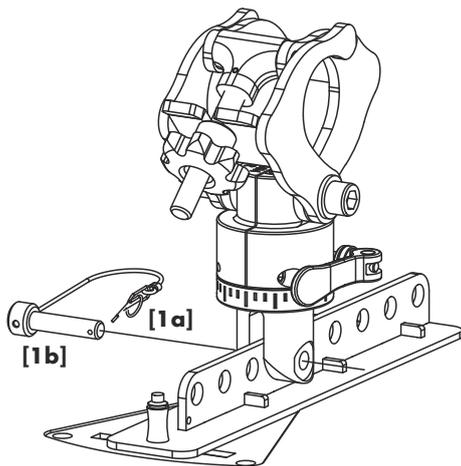


Scope of supply and built-in dimensions

1.1 Scope of supply and weight

| Pos. | Qty. | d&b Code | Description |
|------------|------|--------------|--|
| [1] | 1 | Z5147 | Rota clamp (pre-assembled) |
| including: | | | |
| [1a/b] | 1/1 | | Ring cotter and fixing bolt |
| [2] | 1 | | Handwheel |
| [3] | 1 | | Eccentric lever |
| [4] | 1 | | Connecting bolt with self-securing nut M10 |
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Weight 2.2 kg (4.9 lb)



Rota clamp assembly with flying adapter

1.2 Intended use

The Rota clamp must only be used to suspend d&b loudspeaker cabinets from a single suspension point in connection with applicable d&b rigging accessories. The Rota clamp allows the load to be attached to overhead bars or truss with a tube diameter of up to 50 mm (2").

Note: Observe the maximum permitted load of the respective accessories as indicated in their respective mounting instructions.

1.3 Safety precautions

- Installation and setup should only be carried out by qualified and authorized personnel observing the valid national Rules for the Prevention of Accidents (RPA).
- It is the responsibility of the person installing the assembly to ensure that the suspension/fixing points are suitable for the intended use.
- Always carry out a visual and functional inspection of the items before use. In case there is any doubt as to the proper functioning and safety of the items, these must be withdrawn from use immediately.

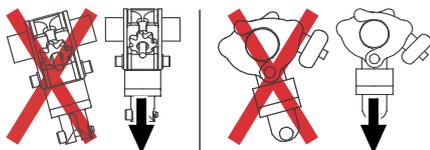
All system components must be inspected for faults before use. Damaged components must be withdrawn from use immediately.

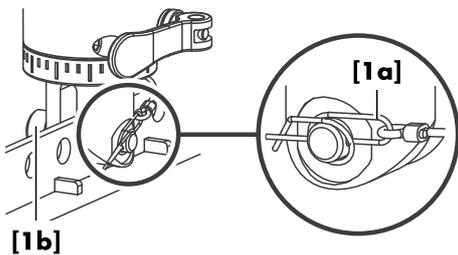
Please also refer to ⇒ Chapter 1.7 "Care and maintenance" on page 8.

Load safety information

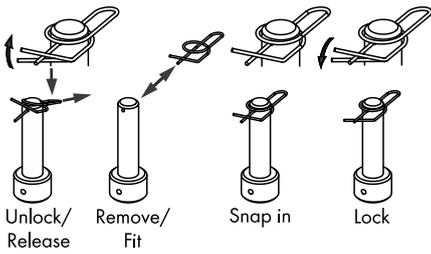
The maximum permitted load of the Rota clamp is 500 kg/1100 lb. No additional loads must be added.

Never fit the clamp at any other angle than straight down.



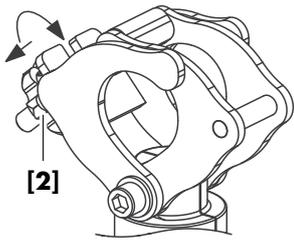


[1b]

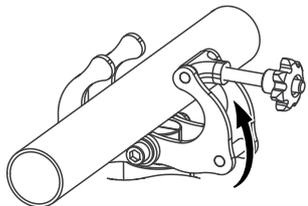
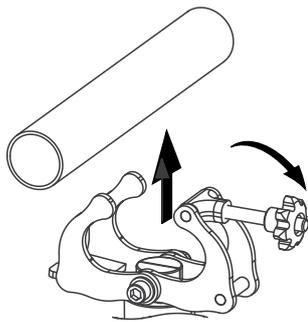


Fixing bolt secured

Function of the securing pin (ring cotter)



[2]



1.4 Assembly

Fitting to Flying adapter/Flying frame

The desired position in the rig as well as the total vertical angle of the assembly should be defined in advance. The total vertical angle can be set using the hole grid of the respective flying adapter or frame.

Proceed as follows:

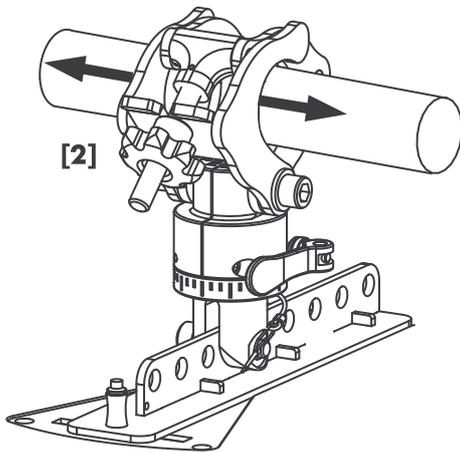
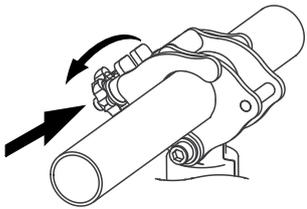
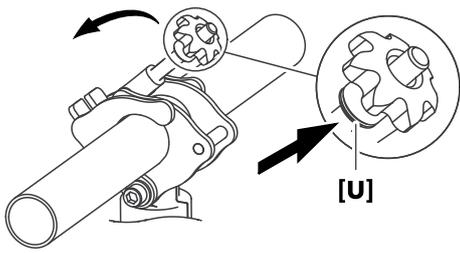
1. Unlock and remove the ring cotter [1a] of the fixing bolt and remove the fixing bolt [1b].
2. Attach the clamp to the respective hole of the flying adapter or frame.
3. Insert the fixing bolt [1b] and secure the bolt with the ring cotter [1a].
4. Recheck your work and ensure the ring cotter [1a] is properly fitted and locked.

1.5 Installation

When the Rota clamp is fitted to the assembly as described in the previous section, the assembled unit is now ready to install.

Proceed as follows:

1. First release the handwheel [2] of the clamping lever until it reaches its end-position.
2. Fold out the clamping lever.
 - ↳ When the support clamp is open, the assembly can now be lifted into its operating position.
3. Close the two halves of the clamp around the bar.



4. Pull back the U-washer **[U]** of the clamping lever towards the handwheel **[2]**.
 - ↳ No other adjustments should be made until the handwheel has been tightened.
5. Fold back the clamping lever.
6. Hand-tighten the handwheel **[2]**.

1.6 Operation / adjustments

Positional adjustment (horizontal position)

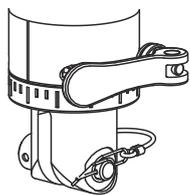
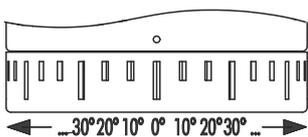
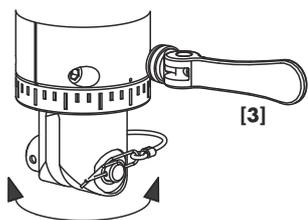
NOTICE!

Potential risk of damage to material

Only carry out positional and directional adjustments one at a time. Never try to make more than one adjustment without having all others firmly locked.

If an adjustment of the position on the bar is necessary, proceed as follows:

1. Release the handwheel **[2]** only so far that the grip on the bar is loosened.
2. While supporting the weight of the assembly, you can now make the positional adjustment.
 - ↳ Make sure you do not damage the tube (notching).
3. Re-tighten the handwheel after any adjustments.



Horizontal alignment

Horizontal adjustments can be made using the rotatable unit of the clamp, which can be rotated through 360° in both directions.

Proceed as follows:

1. Open the eccentric lever **[3]** of the clamp.
2. Set the desired horizontal angle.
 - ↳ The angle can be read-off on the scale in relation to the marking (point) on the clamp. Every graduation mark corresponds to an increment of 10°. The larger marks indicate an increment of 30°.
3. Close the eccentric lever **[3]**.

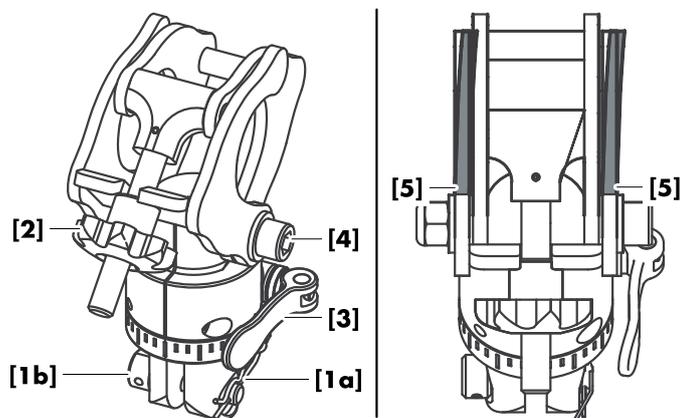
1.7 Care and maintenance

Cleaning

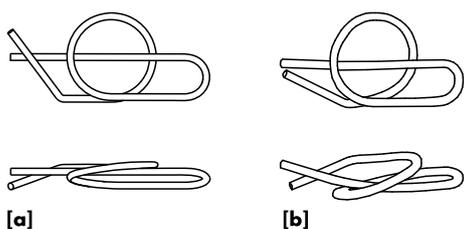
Regularly clean and lubricate the Rota clamp with WD-40® or a similar product.

Inspections

To eliminate the potential risk of accident because of malfunction of a component, it is essential to regularly inspect all system components according to the appropriate regulations for lifting devices.



- Visual inspection of the Rota clamp regarding obvious deformation and damage (e.g. cracks and corrosion) of the components including all holes of the components.
- Visual inspection of the ring cotter **[1a]** for obvious damage and deformation. Also carry out a functional test of the locking mechanism. If the ring cotter can no longer be properly fitted to the fixing bolt and locked, it must be exchanged.
- Visual inspection of the fixing bolt **[1b]** regarding deformation (notching) and damage (e.g. cracks and corrosion).
- Visual inspection of the fastening lever and handwheel **[2]** regarding deformation and damage (e.g. cracks and corrosion) and inspection of proper functioning.
- Functional inspection of the eccentric lever and the rotatable unit of the clamp (swivel mechanism for horizontal adjustment) **[3]**.
- The connection between the clamp and the rotatable unit **[4]** is adjusted for proper operation by the manufacturer. A visual inspection of the self-locking nut for correct functioning and an inspection of the clamp mechanism should be carried out regularly. If the Rota clamp is damaged or does not work properly (e.g. twisted clamps or rough-running mechanism of the clamp), it should only be repaired by d&b.
- Open the clamp mechanism and check the outer clamps **[5]** for obvious deformation. If the clamps are damaged or do not work properly (e.g. twisted clamps or rough-running mechanism), the Rota clamp should only be repaired by d&b.



Condition of the ring cotter

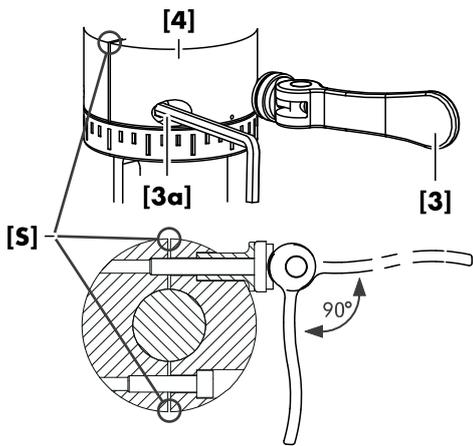
[a]: Ring cotter OK. **[b]:** Exchange the ring cotter.

Ring cotter

Regularly carry out the following inspections.

- Functional test of the locking mechanism as described in ⇒ Chapter 1.4 "Assembly" on page 5.
- Visual inspection for obvious damage and deformation as shown in the graphic opposite.

If a ring cotter can no longer be properly fitted and locked, it must be exchanged.



Adjusting the lever

To ensure proper clamping and even gap dimensions **[S]** to both sides of the clamping halves of the rotatable unit **[4]** while the lever **[3]** is in its hinged position (90°), the clamping screw **[3a]** needs to be regularly adjusted as follows:

Tools required:

- Allen hex key 4 mm

1. Open the lever **[3]**.
2. Adjust the clamping screw **[3a]** so that the screw only just begins to tighten.
3. Completely close the lever **[3]** (90°).
 - ↳ Even and proper clamping of the two clamping halves must be achieved.
 - If necessary, gradually readjust the clamping screw by a further ½ turn.
4. Recheck the gap dimensions **[S]** on both sides.
 - ↳ On the lever side, the two clamping halves must not be blocked.



2.1 EU conformity (CE symbol)

This declaration applies to:

d&b Z5147 Rota clamp

manufactured by d&b audiotechnik GmbH & Co. KG.

All product variants are included, provided they correspond to the original technical version and have not been subject to any later design or electromechanical modifications.

We herewith declare that said products are in conformity with the provisions of the respective EC directives including all applicable amendments.

A detailed declaration is available on request and can be ordered from d&b or downloaded from the d&b website at www.dbaudio.com.

2.2 Disposal

When out of use the rigging components must be disposed of in accordance with the national environmental regulations.

Ensure that damaged rigging components are disposed of in a way that they cannot be used again.

