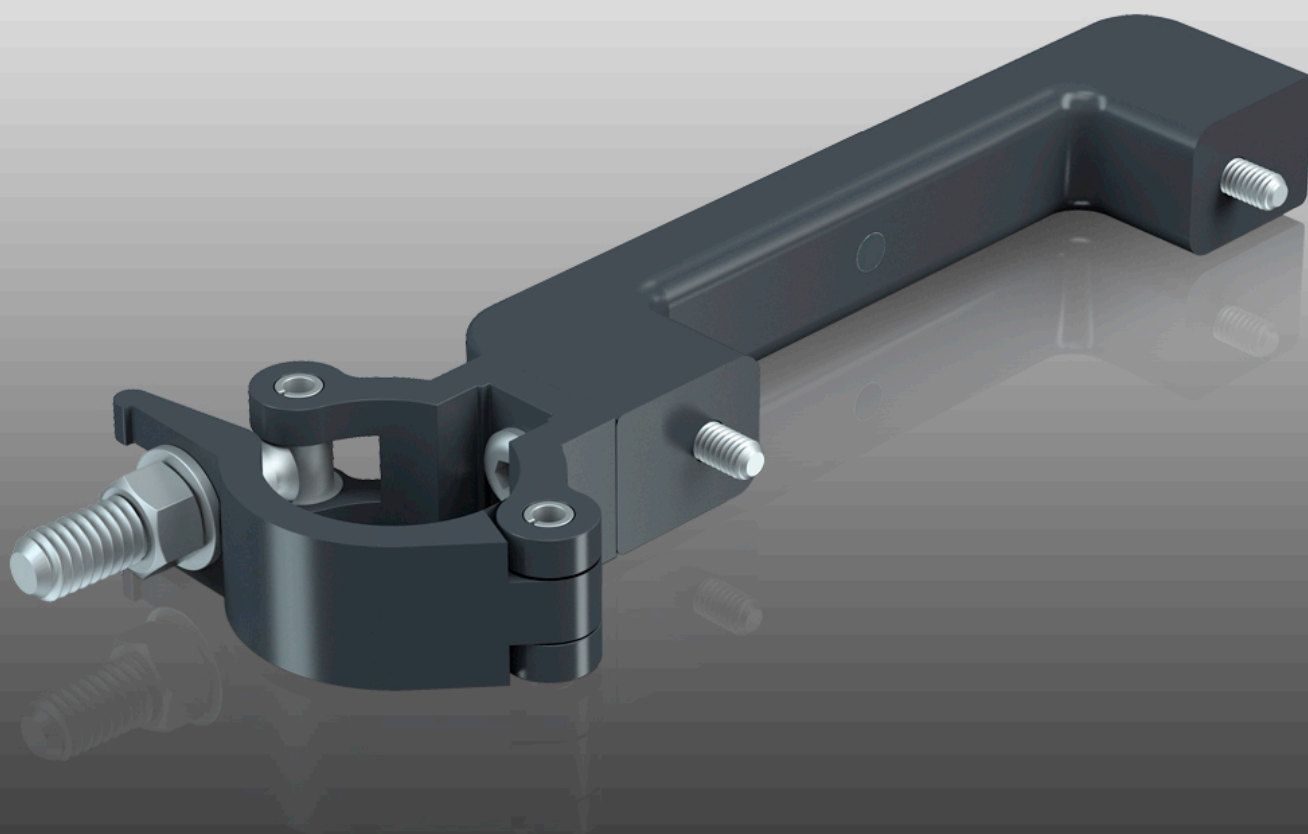


K&F VIDA L Mounting Bracket/Handhold



User's Manual

Translation of the original instructions

Version 1.3

Released: 20.01.2017



**Important Information,
Please Read Before Use!**

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1. Introduction

Thank you for purchasing a KLING & FREITAG product. To guarantee trouble-free operation and enable the KLING & FREITAG VIDA L speaker system to achieve its full potential, please read these user's manual carefully before use. This item is a quality accessory for the VIDA L speaker system.

1.1 Icons Used



Warning



Caution



Tip

This icon indicates a risk of injury or death. Not following these instructions may result in serious health problems including potentially fatal injuries.

This icon indicates a possibly dangerous situation. Not following these instructions may cause minor injuries or damage.

This icon marks instructions for proper use of the described products. Not following these instructions may cause malfunctions or damage.

This icon marks information provided for simplified use of the described products.

1.2 About these user's manual

© KLING & FREITAG GMBH. All rights reserved.

All specifications regarding the features of the described products and applicable safety guidelines provided in these user's manual are based on information available at the time of publishing.

We assume no responsibility for technical specifications, dimensions, weights, and properties.

All information in these user's manual is subject to change without notice.

To ensure safe operation, all persons using the speaker accessories must have access to this guide and all other relevant material during installation. The speaker accessories must not be set up nor operated unless these user's manual has been read, understood and kept readily available on site.

The original language of all KLING & FREITAG user's manuals is German.

If you need user manuals from KLING & FREITAG, you can order a replacement or download it from our www.kling-freitag.de.

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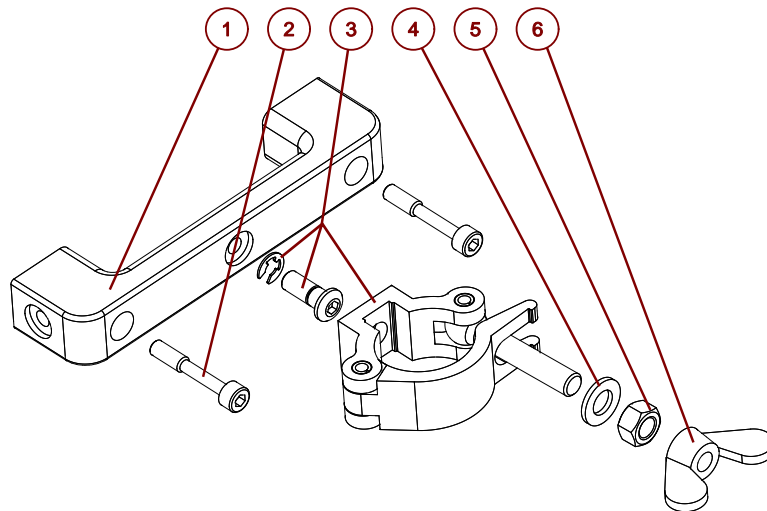
2. Product Description

The VIDA L mounting bracket/handhold is the perfect accessory for transporting your speaker. Using it is mandatory for mobile applications. For that purpose, the bracket will be screwed to the mounting rail at the rear of the VIDA L. The mounting bracket/handhold does not only allow for transporting the speaker securely and safely but is also required when using pipe clips for mounting the speaker to a truss or a similar pipe (diameter: 48-51 mm).

2.1 Items Included

- (2x) Mounting bracket/handhold for transporting, handling, and pipe-clip mounting a VIDA L speaker
- (4x) M8 x 50 bolt with relieved shank, 30-mm undercut (ensures bolt captivity to the handhold)
- (2x) K&F VIDA L Slimline Half Coupler (K&F Item-No.: 36137, black)
- (2x) M10 x 25 pipe-clip screw, (Allen screw)
- (2x) Circlip for captive pipe-clip screw mounting to the pipe-clip
- (2x) M12 washer
- (2x) M12 nut
- (2x) M12 butterfly nut M12
- (1x) User's Manual

2.2 Components



1. VIDA L Mounting Bracket/Handhold
2. M8 x 50 bolt with relieved shank (special model)
3. K&F VIDA L Slimline Half Coupler (K&F Art.-Nr.: 36137, black), incl. pipe-clip screw and circlip
4. washer M12
5. nut M12
6. butterfly nut M12

3. Intended Use

Be sure to use this accessory only for handling and mounting KLING & FREITAG speakers of the specified type to suitable trusses or pipes.

For commercial use in interior spaces as specified in this document only!

Unless otherwise stated, use only KLING & FREITAG original parts for mounting the speakers. Never use other parts (in particular, parts not made by KLING & FREITAG).

Any other use not described in this document is not an intended use

4. Safety Instructions

4.1 General Safety Instructions



Warning

The information described here does not relieve the user of the duty to follow the given safety requirements and legal regulations.

Only qualified technicians are permitted to perform the installation steps. Be sure to use personal protective equipment at all times.

The technicians responsible for installing the system on site are responsible for and guarantee safe setup and use.

Installing and dismantling the speaker system requires two persons or a suitable lift for carrying and handling.

To prevent injury and damage, be sure to securely place or suspend the speaker system as specified in the DGUV regulations 17 and 18 or similar locally applicable accident-control standards.

Unless otherwise stated, use only KLING & FREITAG original parts for mounting the speakers. Never use other parts (in particular, parts not made by KLING & FREITAG).

Be sure to always visually inspect all accessories and loudspeakers before use. In fixed installations, regularly check all system components for signs of wear. Visual inspection includes checking the system components of the speakers as well as the mounting components. During the inspection, check all mounting components carefully for deformations, cracks, bolt damage, and corrosion. If there are signs of wear, cracks, or deformation, etc., replace the affected parts immediately. See also the "Care and Maintenance" chapter on page 19.

4.2 Safety Instructions When Mounting the System to a Truss



Warning

Improperly mounted speakers are not safe for suspending. Objects falling down impose a deadly risk for people standing near-by! Don't use the mounting system, if you have any doubts regarding its safety and reliability!

Only qualified event technicians are permitted to suspend a VIDA L system.

When suspending VIDA L speakers, be sure to use the mounting components described in these user's manual.

Ensure that all connections are secured against coming loose and that only authorized, statically tested and correctly sized supports, mounting equipment, wire ropes and chains are used. Follow the relevant specified safety factors. Be sure to follow the relevant national specifications, norms, and safety regulations.

Note that every suspension point as well as the supporting structure of the building (i.e. ceiling points, cross beams and stage or PA tower, etc.) must be capable of carrying the total load of the system (including cabling and additional fittings).

Note that the suspension points on the hall ceiling (i.e. shackles, attachment points, or chain hoists) must comply with the DGUV regulations 17 and 18 or similar locally applicable accident-control standards. The maximum load must have been certified by an authorized expert. When in doubt, request a confirmation by local authorities.

Also follow the operating and safety instructions supplied with the product you intend to suspend the speaker system from. Never mount the speaker system to a product if there is no information on safe use and maximum load.

Ensure there is sufficient clear space for assembling and suspending the speakers on-site.

Remember that the truss holding the speaker may swing out wide!

Permit only personnel directly involved with assembly or disassembly to access the working area. The person in charge must announce all system lifting and lowering activities beforehand and make sure everybody is aware of that. In this case, all persons present must leave the swing and lifting range immediately.

Never use suspended speakers as a climbing aid.



Warning

5. Installation

Danger! Risk of injury from falling objects!

Improperly mounted speakers are not safe for suspending. Objects falling down impose a deadly risk for people standing near-by!

Always use the supplied M8 x 50 bolts only for mounting the bracket/handhold.

Tighten all screws and bolts to the correct torque (**16 Nm**).

Only the supplied slot nuts must be used at the rear rail.

Setting up the speaker system requires two persons or a suitable lift for carrying and handling.

5.1 Required Tools

Use the following tools for mounting the VIDA L mounting bracket/handhold:

- Allen screwdriver (6 mm)
- Torque wrench for 16Nm

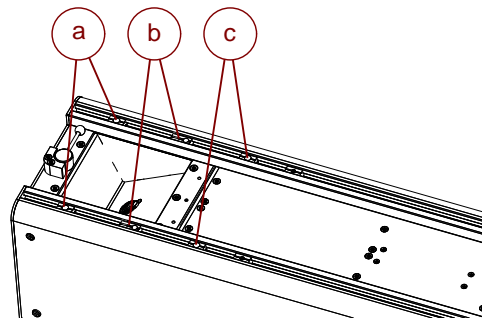
5.2 Mounting the Bracket/Handhold to a VIDA L Speaker

To improve speaker handling, you might want to mount mounting brackets/handholds to both the upper and the lower parts of the box rear panel.

- Each factory-preinstalled fastener has a specific function.

You may mount the mounting bracket/handhold either to the two groove nuts at position (a) or the two groove nuts at position (c). Note that you can use the nuts at position (c) only if no VIDA C has been mounted to position (b).

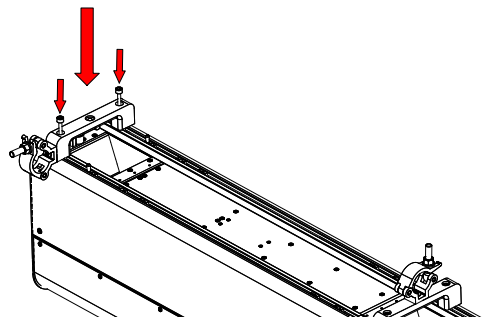
The second bracket/handhold needs to be mounted at the opposite end of the speaker box. Consequently, the nut positions at the opposite end are in reverse order.



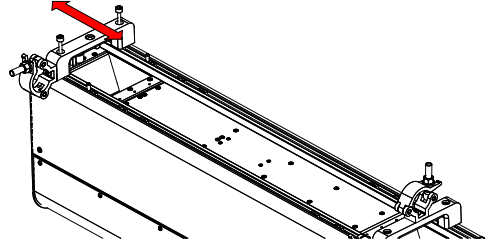
Warning

- To prevent falling of the speaker box, make sure that all brackets/handholds are mounted using the **bolts with relieve shank** that are supplied with the unit.

Attach the mounting bracket/handhold to the M8-thread slot nuts using the two outer bolts, then screw the bolts in by a few turns.



3. Move the bracket/handhold into position.



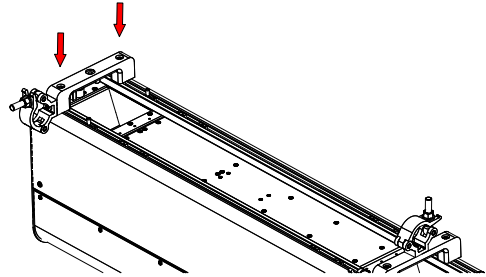
4. Now, tighten the bolts.

Torque: 16Nm

Check carefully whether all brackets/handholds have been mounted properly: The **bolts with relieve shank** need to be tightened firmly with no play.



Warning



5.3 Mounting the Pipe Clips to a Truss or Pipe



Warning

Danger! Risk of injury from falling objects!

Improperly mounted speakers are not safe for suspending. Objects falling down impose a deadly risk for people standing near-by!

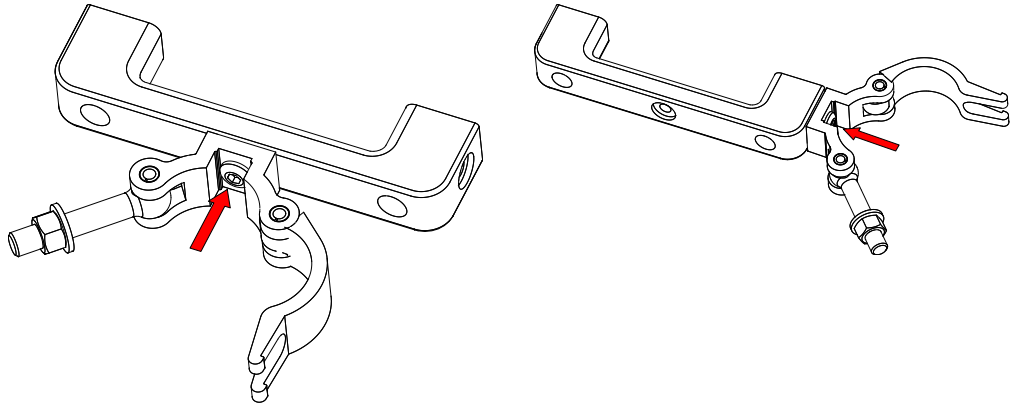
Please be sure to mount to a K&F VIDA L Slimline half coupler (K&F item #36137) only!

Attach the pipe clip to the VIDA L mounting bracket/handhold only using the supplied pipe-clip screw. Only screws of that type are specifically made and tested for mounting a pipe clip to a VIDA L bracket/handhold.

Tighten all bolts and screws to a torque of 16 Nm.

Use only the supplied pipe-clip screws for mounting the pipe clips to the mounting brackets/handholds.

When mounting the speaker system combined with a VIDA C laterally to a truss or pipe, attach the pipe clips to one side of the mounting bracket/handhold.



5.4 Mounting to a Truss or Pipe



Warning

Be sure to use the K&F VIDA L Slimline half coupler (K&F item #36137) for mounting the speaker systems to trusses or pipes!

The pipe clips specified by KLING & FREITAG are designed for customary pipe surfaces and diameters of 48 to 51 mm.

The interconnect points on the truss elements or pipes must be clean, dry, and free of oil and grease.

Make sure all mounting brackets/handholds and pipe clips are securely attached. Note that even pipe clips that have been properly tightened may still move under load if the truss or pipe features specific surface finishes or coatings. In this case, ensure an appropriate degree of friction between the truss or pipe and the pipe clip.

Improper mounting of mounting brackets/handholds can result in the speaker falling down and imposes risks of personal injury or damage.

Also be sure to place speakers vertically in case of lateral pipe-clip mounting.

Please take note of the numbers of pipe clips indicated in the below examples. To prevent mistakes leading to safety risks, be sure to double-check the number of pipe clips to use according to your calculations.

When suspending VIDA L speakers using mounting brackets/handholds and pipe clips, note that you may form arrays made up of **3 speakers at the most!**

Horizontal arrays must be made up of **no more than 8 speakers**.

A horizontal array is any configuration of suspended speakers with the grill facing downwards.



Tip

If you want to mount VIDA L speakers to trusses, perform preassembly and attach the speakers to trusses or rig poles on the ground as possible. Where this is not feasible, perform all preparatory steps on the ground, then pull up the speaker(s) to mount them to the truss.

Example 1:

Each side of a speaker array or a single speaker as well as each interconnect point of two speakers must be connected to the truss or a dedicated rig pole using one pipe clip.

General Rule:

With vertical suspension as well as horizontal suspension **without VIDA C**, reckon **at least** one pipe clip more than the total number of speakers to suspend.

1 speakers: 2 pipe clips

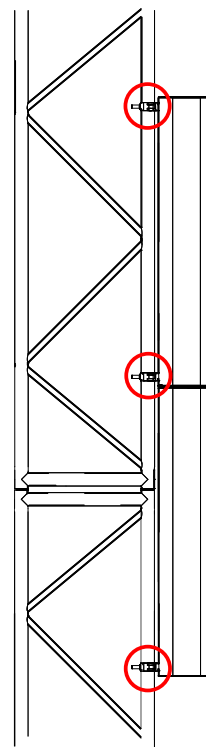
2 speakers: 3 pipe clips

3 speakers: 4 pipe clips

etc.

The figure shows 2 speakers suspended using 3 pipe clips.

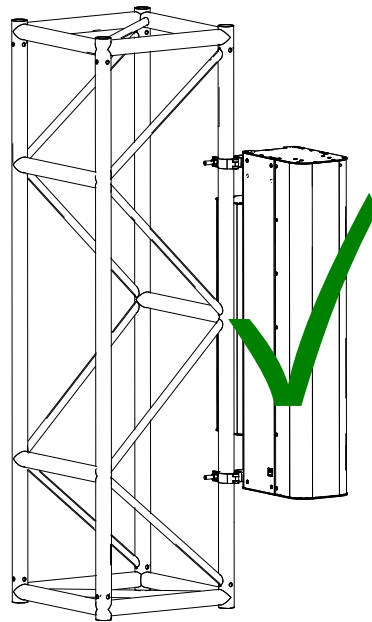
Exception: With speakers **fitted with VIDA C** that you intend to suspend horizontally, you need to double the number of pipe clips. (See example 4.)



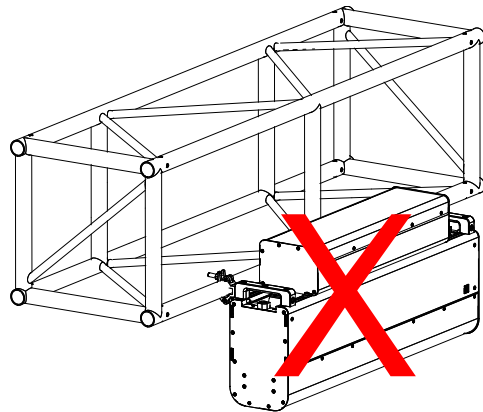
Warning**Example 2:**

When VIDA L speakers are used in **combination with** VIDA C, note that you can attach the pipe clips **laterally only**.

This single-sided attachment of pipe clips necessitates vertical speaker placement.

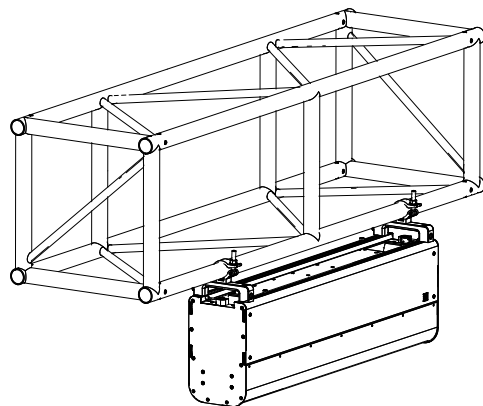
**Warning**

Mounting a VIDA L speaker **featuring the VIDA C** using a single-sided pipe-clip configuration is prohibited!

**Example 3:**

When suspending a VIDA L speaker **without the VIDA C** horizontally from a truss, center the pipe clips on the mounting bracket/handhold.

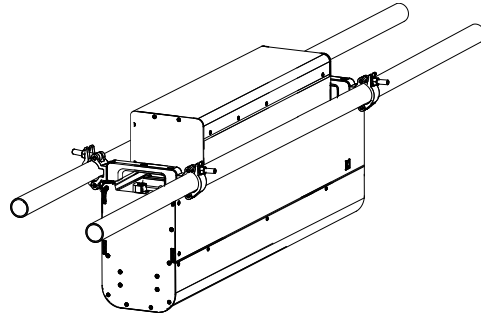
As an alternative, you may mount twice the number of pipe clips to the ends of the mounting brackets/handhold and suspend the speaker or array **on both sides** from suitable truss elements or pipes of appropriate thickness. (Also see example 4 without VIDA C.)



Example 4:

If you want to suspend VIDA L speakers **with VIDA C** horizontally as an array, be sure to mount pipe clips to both ends of the speaker and fix these appropriately to trusses or rig pipes.

This means you need to use twice the number of pipe clips compared to vertical placement.



5.4.1 Mounting to a Truss

The following is required for performing the steps described in this section:

- Allen wrench (6 mm)
- Torque wrench (16 to 30 Nm)

- 1 Perform all steps separately and in succession using an installation lift. Start with the top speaker, then build the array top-down.

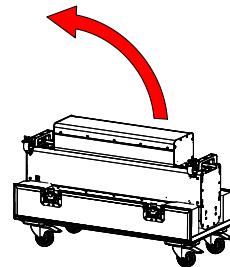
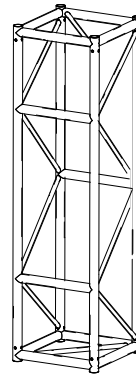


Warning

Alternatively, you can mount an entire speaker array using a motorized chain hoist.

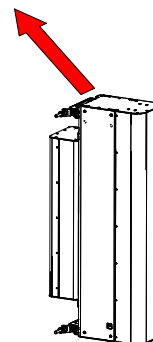
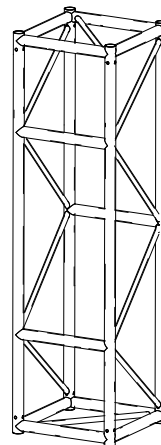
When doing so, note that you need to mount a VIDA L flying frame to the topmost speaker to ensure safe lifting. VIDA L

Use chain hoists to configure an array of multiple interconnected speakers. Unload the array only **after mounting all pipe clips!**



2. If you want to raise and lift the speaker manually, you might want to use a flying bracket for lifting.

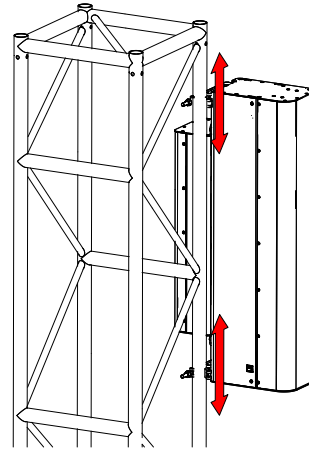
Lift the speaker to the desired height, then align it to the truss.





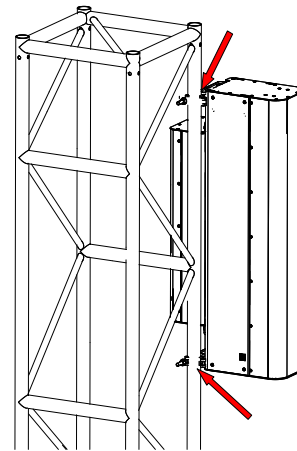
3. Where struts are obstructive, move the mounting brackets/handholds as necessary to vary the pipe-clip positions.

Tighten the bolts to a **16 Nm torque**.



4. Attach the pipe clips to the truss one by one.

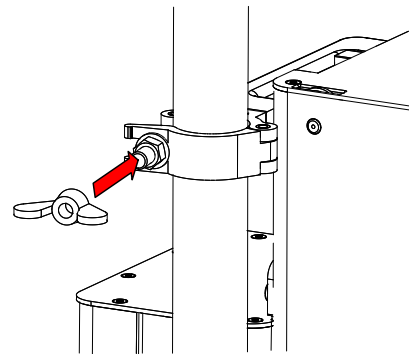
Tighten the M12 nut to a **30 Nm torque (max.)**.



5. Secure the M12 nut by hand-tighten the butterfly nut against the nut.

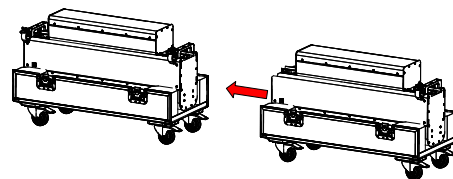
Check all pipe clips carefully for secure fit.

Unload the speaker or array only after fixing all pipe clips and checking for secure fit.



5.4.2 Mounting on the Ground

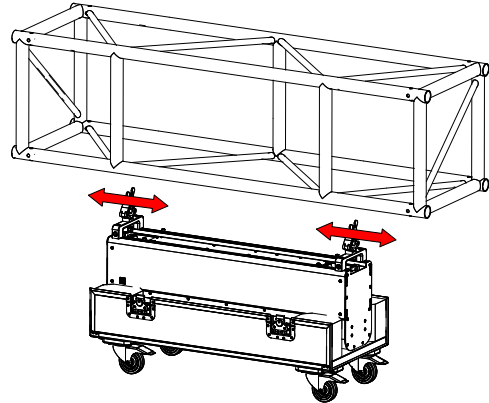
- 1 Note that the number of required pipe clips is always one more than the number of speakers included in the array. (See also example 1 on page 11.)



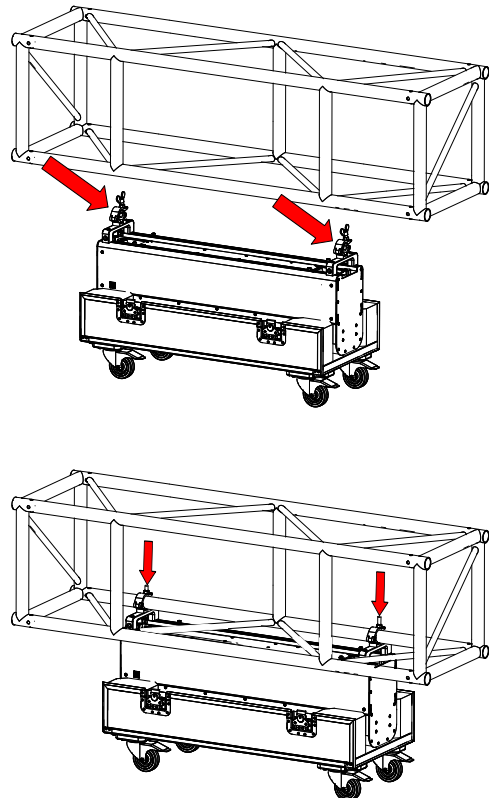
If you want to mount multiple speakers on top of each other to a truss, you may want to interconnect them with each other on the ground.

Interconnect the speakers as described in the VIDA L Speaker user's manual.

2. Note that moving the mounting brackets/handholds might be necessary in order to freely position the speakers to the truss. For that purpose, align the mounting-bracket/handhold position on the speaker with the truss struts.

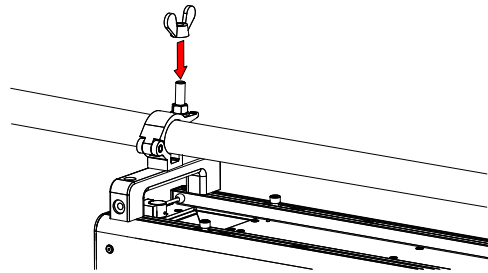


3. Move the pipe clips on the mounting brackets/handholds as necessary.
Attach the pipe clips to the truss one by one.
Tighten the M12 nut to a 30 Nm torque (max.).



4. Secure the M12 nut by hand-tighten the butterfly nut against the nut.

Check all pipe clips carefully for secure fit.



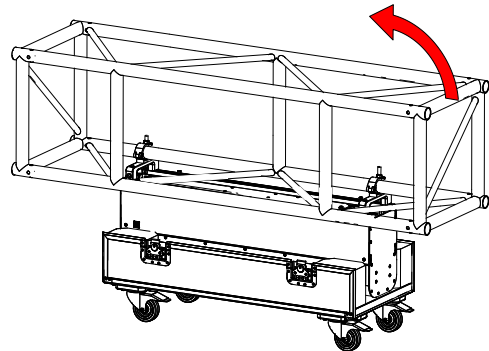
Warning

5. **Danger! Risk of injury from falling objects!**

Improperly mounted speakers are not safe for suspending. Objects falling down impose a deadly risk for people standing near-by!

When the final pipe clip has been mounted, double-check all interconnect points of the entire speaker configuration for secure fit.

Carefully raise the truss with the speakers mounted using an appropriate lift, then integrate it into your statically tested truss structure.



Speaker installation is now complete, so you can start the cabling.

6. Dismounting



Warning

Dismounting the speaker system requires two persons or a suitable lift for carrying and handling.



Tip

Basically, dismounting the speakers is performed in reverse order of the installation process.

When dismounting is completed, store all speakers and accessories in the transportation case. This way, they cannot get lost and are always at hand when needed. In addition, the parts are protected at least temporarily against the effects of unfavorable weather conditions, etc.



Warning

1. Secure the speaker or array using a VIDA L flying frame, a VIDA L flying bracket, or an appropriate lift before releasing the pipe clips.

2. Open the pipe clips carefully.
3. Separate the speaker or array from the truss.
4. Dismount the array as described in the speaker user's manual.
5. Place all speakers into transportation cases.
6. Mounting brackets/handholds can be stored together with the VIDA L in the transportation case. This ensures the accessories cannot get lost.

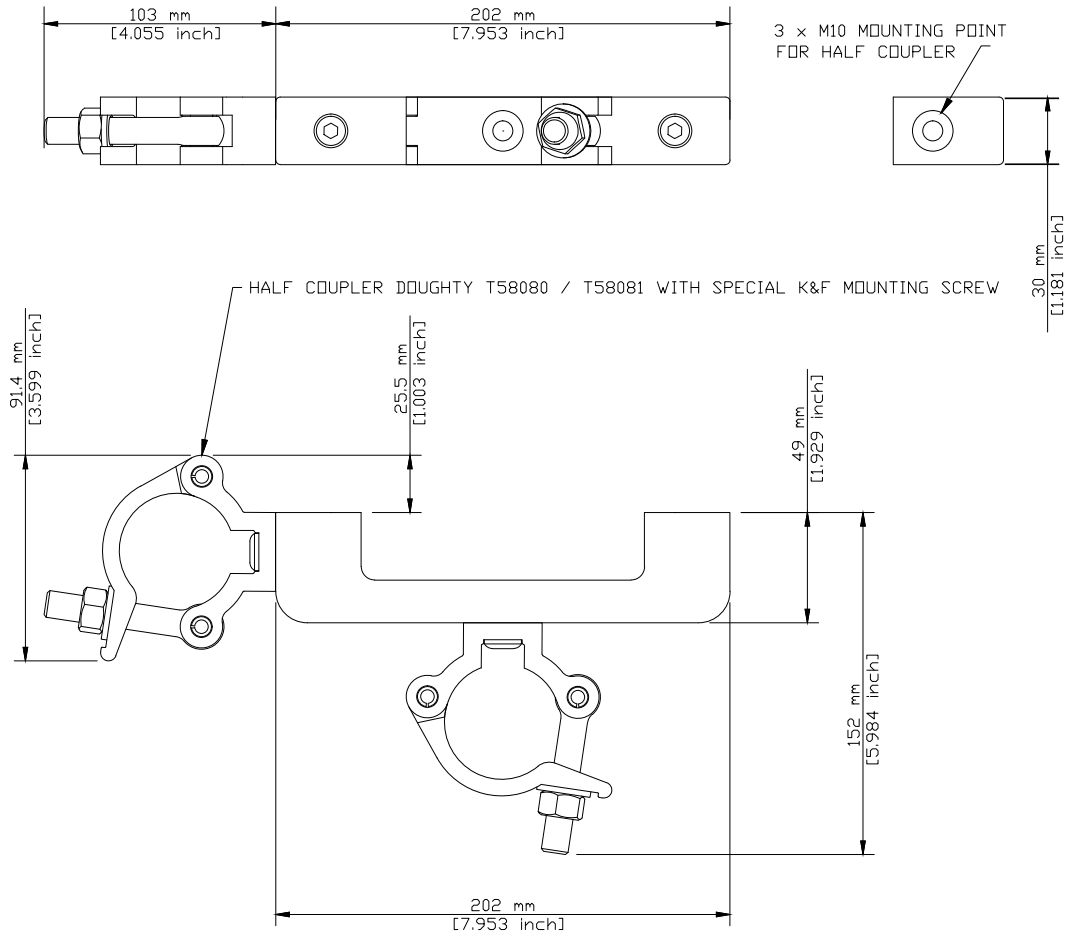


Tip

7. Dimensions and Weight

Handhold weight (incl. bolts): 0.5 kg

Pipe-clip weight: 0.25 kg



8. Transportation and Storage

Always protect all metal parts from even temporary moisture. Store, transport, and use the accessories in dry environments only. Speaker accessories are not designed for prolonged use in corrosive environments.

Make sure that the system is adequately ventilated during longer storage periods so any residual moisture can escape from the equipment.

In addition, protect all system parts and VIDA L accessories from mechanical strains in order to prevent damage.

9. Care and Maintenance



Warning

For the owner and user, it is mandatory to be aware that speaker accessories used to fly or mount the speakers are fundamentally safety-relevant.

Over time, the accessories may exhibit signs of wear, for example, from mechanical strain, transport damage, corrosion, or improper handling.

As a basic principle, you must visually inspect the speaker accessory before and after you use it. For fixed installations, you must inspect it for signs of wear at regular intervals.

When performing those checks, particularly look for deformations, cracks, dents, damage to threads, and corrosion. Also check slings and lifts (e.g. shackles, chains, and steel ropes) carefully for wear and deformation.

If as a result of these checks any uncertainty should arise with regard to safety or if specific faults are found, stop using the accessories and send in the product to KLING & FREITAG GMBH for inspection and repairs, if necessary.

Inspection regulations may vary depending on application and country of use. Observe all applicable regulations; when in doubt, contact the local authorities.

Many countries require regular inspection of mounting components and accessories. An additional annual inspection is typically required to be performed by a technical expert. Moreover, a legally certified or official authority must perform a detailed inspection every four years.

Therefore, be sure to maintain an inspection log. Enter the values determined for each speaker and accessory during the periodic checks into this log. This way, relevant data are always at hand in case of inspection. The log should also document maintenance measures and inspection intervals and contain parts lists.

10. Appendix

The figures below show product information on the specified pipe clip by Doughty.



Warning

Danger! Risk of injury from falling objects!

Improperly mounted speakers are not safe for suspending. Objects falling down impose a deadly risk for people standing near-by!

Be sure to use exclusively the types of pipe clips and pipe clip screws specified for use with the VIDA L mounting bracket/handhold by KLING & FREITAG.

Refer to the manufacturer's website indicated below for updates to relevant information.



User Manual

www.doughty-engineering.co.uk

T58080/81 Slimline Lightweight Half Coupler

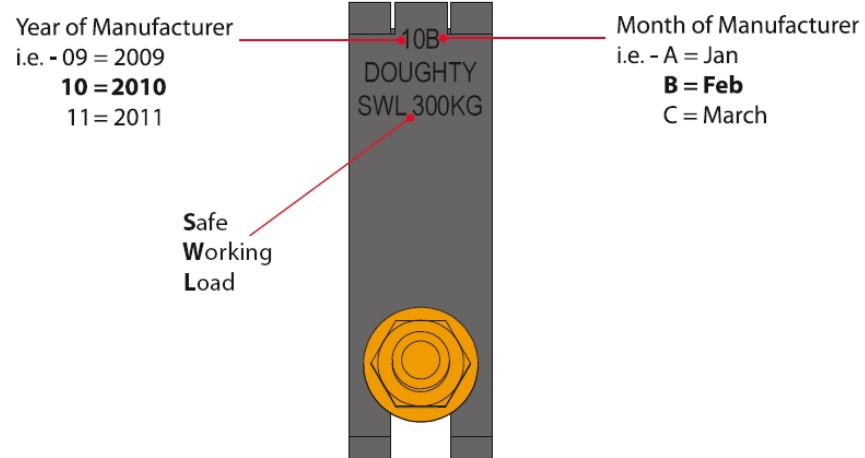
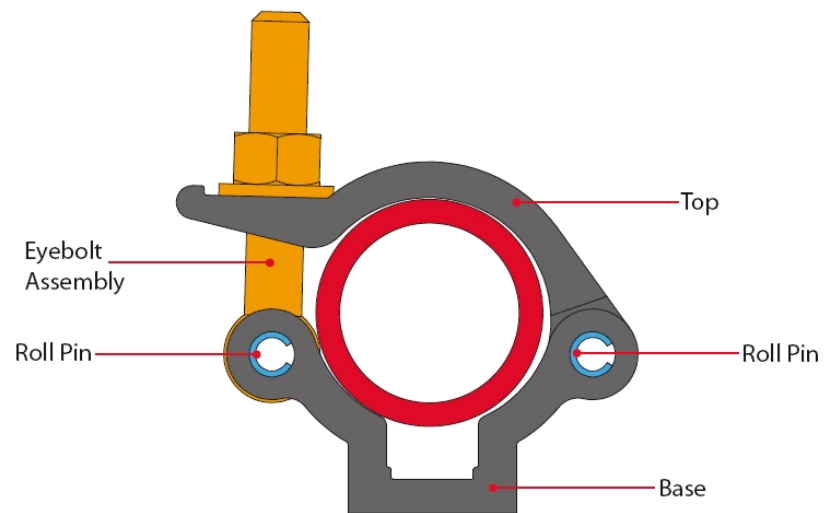


Version 12/14



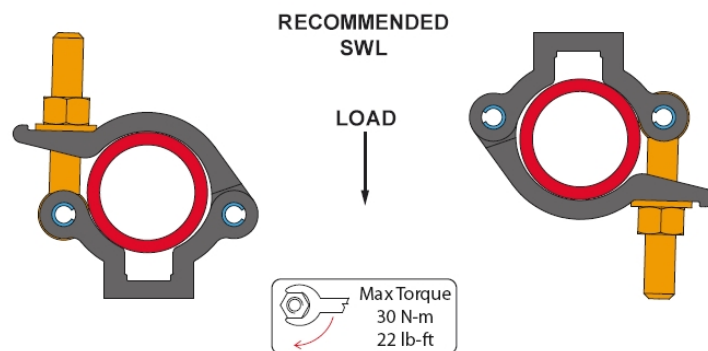
www.doughty-engineering.co.uk

Parts & Features

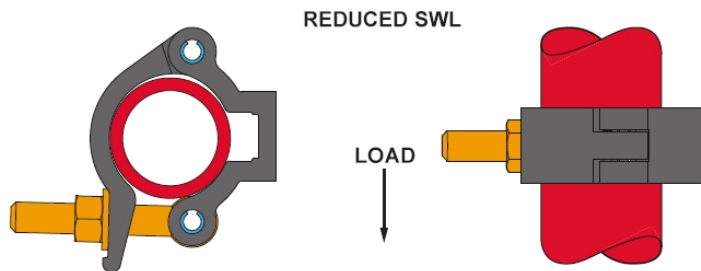
www.doughty-engineering.co.uk

Usage

1. Never exceed the Safe Working Load (SWL) shown on the clamp.
2. Only use the clamp within the designed tube parameters (48-51mm)
3. All clamps should be visually inspected before use. In the event of any damage the clamp should be taken out of service and returned to an 'Approved Doughty Service Agent' for inspection. (see our dealer locator on our web site for a comprehensive list of Authorised Service Agents)
4. When used in conjunction with other accessories, care must be taken to ensure that the minimum SWL of any component is not exceeded.
5. Doughty Engineering Ltd does not recommend using any clamps which do not fully encompass the tube for overhanging. All open clamps including hookclamps should be used in a vertical orientation only.



THE FOLLOWING APPLICATIONS WILL RESULT IN THE RECOMMENDED SWL BEING REDUCED DEPENDANT ON THE TUBE SURFACE FINISH & TORQUE SETTINGS APPLIED. PROOF LOADING ON INSTALLATIONS IS RECOMMENDED.



www.doughty-engineering.co.uk

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Note: Whilst every effort has been made to ensure that the information contained within this manual is correct, Doughty Engineering does not accept any liability for errors or omissions. Specifications and technical data are intended for guidance purposes only and may vary.

www.doughty-engineering.co.uk

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