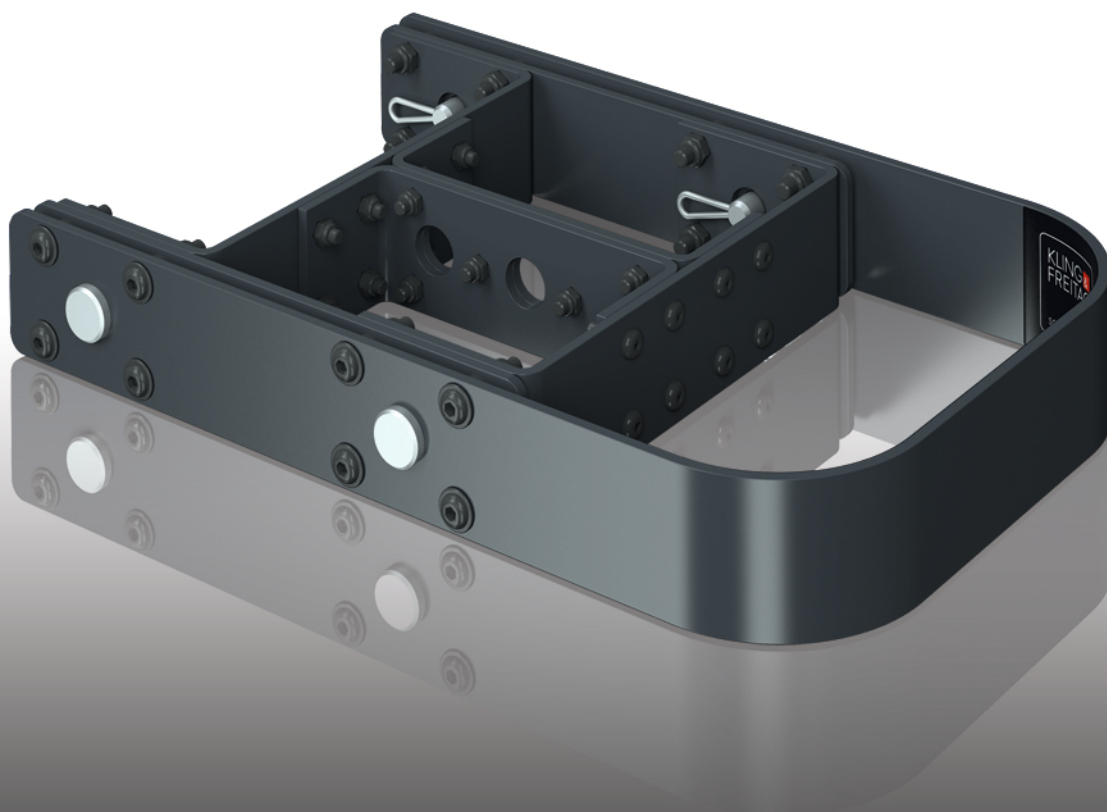


# K&F VIDA L Flying Bracket



## User's Manual

Translation of the original instructions

Version 1.3

Released: 24.04.2017



**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. Combining it with your existing speaker system creates an extremely versatile pro-grade tool that meets all requirements in terms of audio quality and safe installation.

### 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 this Manual

© KLING & FREITAG GmbH. All rights reserved.

All specifications regarding the features of the described products and applicable safety guidelines provided in this 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 this 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 this manual has been read, understood and kept readily available on site.**

All KLING & FREITAG manuals are originally authored in German.

KLING & FREITAG spare manuals are separately available for order or can be downloaded from our website: [www.kling-freitag.de](http://www.kling-freitag.de).

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Phone +49 511 96 99 70, fax +49 511 67 37 94 (other countries)

## 2. Product Description

The VIDA L flying bracket is designed for installing and flying up to 4 VIDA L speakers with or without VIDA C.



### **Danger! Risk of injury from falling objects!**

Loudspeakers falling down impose a deadly risk for people standing near-by!

Never down-tilt flown VIDA L speakers using this accessory.

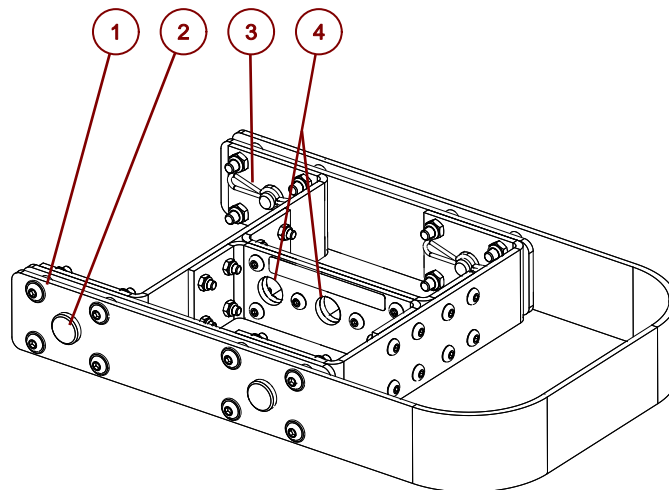
Never raise horizontally placed VIDA L speakers using this accessory.

Never lift more than 4 VIDA L speakers using this accessory.

### 2.1 xx Items IncludedVIDA L

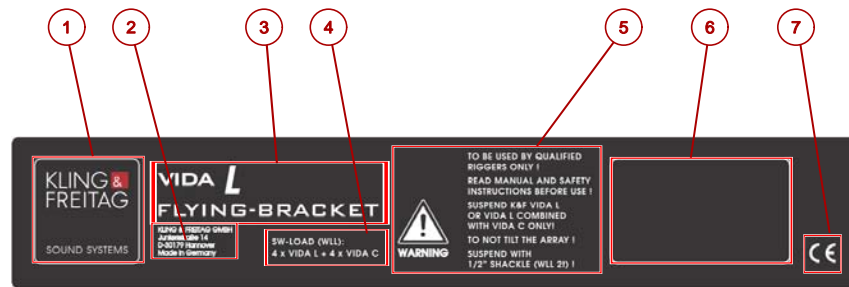
- (1x) VIDA L flying bracket
- (1x) User manual

### 2.2 Overview of Flying-bracket Components



1. (1x) VIDA L flying bracket
2. (4x) M10 x 26 connecting pins
3. (4x) Cotter pin
4. Shackle bore

## 2.3 Identification plate



1. Manufacturer logo
2. Manufacturer address
3. Product name
4. TÜV certificate
5. Safety Instructions
6. Serial number, weight
7. CE mark

## 3. Intended Use

The VIDA L flying bracket is designed for suspending a maximum of 4 VIDA L speakers at no mechanical down-tilt.

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



**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.

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).

In mobile and stationary installations, always use installation parts supplied by KLING & FREITAG. KLING & FREITAG

Be sure to always visually inspect all array components before use. In fixed installations, regularly check all array components for signs of wear. Visual inspection includes checking all speaker-system and flying-bracket components, supporting components (e.g. trusses, ceiling structures, etc.), and all screwed connections. During the inspection, check all flying-system components carefully for deformations, cracks, bolt damage, and corrosion. Also check slings and lifts (e.g. shackles, chains, and steel ropes) carefully for wear and deformation. If there are signs of wear, cracks, or deformation, etc., replace the affected parts immediately.

See also the "Care and Maintenance" chapter on page 18.

### 4.1 Safety Instructions for Flying Configurations



**Warning**

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

Never down-tilt flown VIDA L speakers using this accessory.

Never raise horizontally placed VIDA L speakers using this accessory.

Never lift more than 4 VIDA L speakers using this accessory.

- See also the Installing the VIDA L chapter on page 9.
- See also the Uninstalling the VIDA L chapter on page 15.



**Warning**

**Never use the array if you have any doubt regarding its safety and reliability!**

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

Never suspend the speakers without a flying frame or bracket specifically designed for this speaker type.

Maximum-load specifications refer to configurations including cabling and any fittings.

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 flying bracket from (e.g. a truss). Never mount the flying bracket to a product if there is no information on safe use and maximum load.

Each chain and motor must be capable of carrying the entire array mass! Make sure that the motor chains hang down vertically and are not twisted, and that the motors are located at the required positions.

During setup, installation, and dismounting, when using chain hoists that do not comply with the DGUV regulations 17 and 18 or similar locally applicable accident-control standards, make sure no persons stand in the danger zone below or near the speaker system.

When using this accessory, be sure **not to lift more than a single VIDA L speaker** using a D8+ motor.

When using a BGV C1 motor, the VIDA L system is intrinsically safe, so no secondary safety components are required in operation; however, suspending the VIDA L system from a different motor requires using a secondary safety component. You can mount that component to the unused bore using an additional 2-t shackle. Be sure to mount the secondary safety component with no drop.

Never use signal cables or power cords for suspending, aligning, or securing the systems. Run the cables in a way that nobody can trip over them.

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

Permit only personnel directly involved with assembly or disassembly to access the working area. The person in charge must announce all flying-bracket lifting and lowering activities beforehand and make sure all people attending are aware. In this case, all persons present must leave the swing and lifting range immediately.

Never use the flying bracket for lifting or safeguarding persons or objects other than the above speakers.

Never use an array as a climbing aid.



## 5. VIDA L Setup



### 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!

Never down-tilt flown VIDA L speakers using this accessory.

Never raise horizontally placed VIDA L speakers using this accessory.

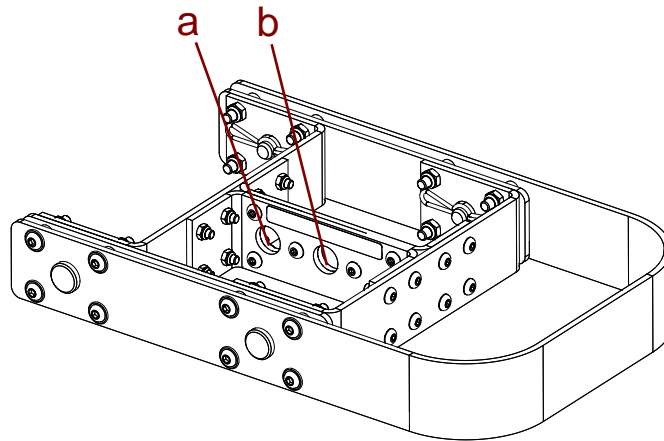
Never lift more than 4 VIDA L speakers using this accessory.

The flying bracket is not designed for mechanical down-tilt. Be sure to use it with vertical flying configurations of 4 or less VIDA L speakers with or without VIDA C.

### 5.1 Mounting the Flying Bracket

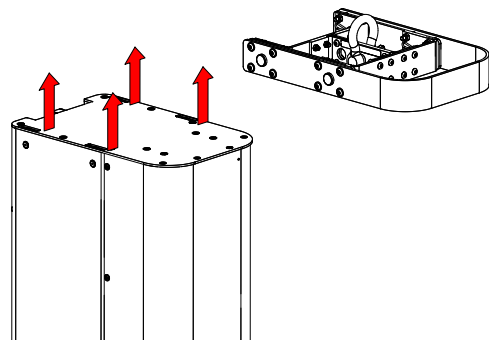
A certified and approved ½" shackle (WLL: 2 tons) is required for mounting.

To prepare the flying bracket, insert the shackle into one of the two bores. Note that the rear bore (a) needs to be used for VIDA L speakers with VIDA C while the front bore (b) is used for speakers with no VIDA C.

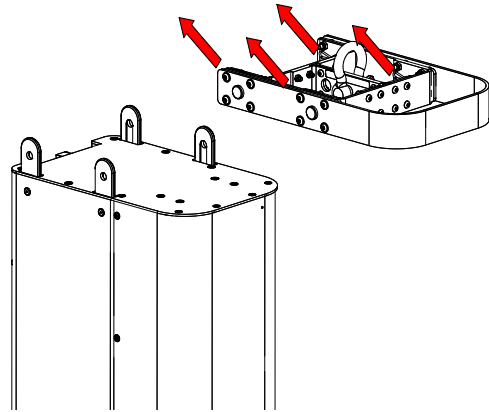


If a secondary safety component is required, you can mount it to the unused bore. In this case, the secondary safety component requires an additional ½" shackle (WLL: 2 tons) with no drop.

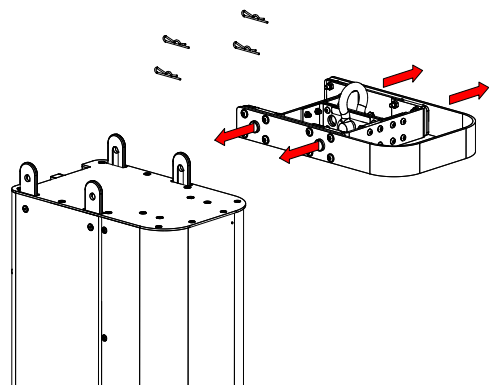
- 1) To prepare the speakers for accepting a VIDA L component, use the upper lever for moving out, locking, and securing the connecting adapters as explained in the VIDA L speaker Operation Instructions.



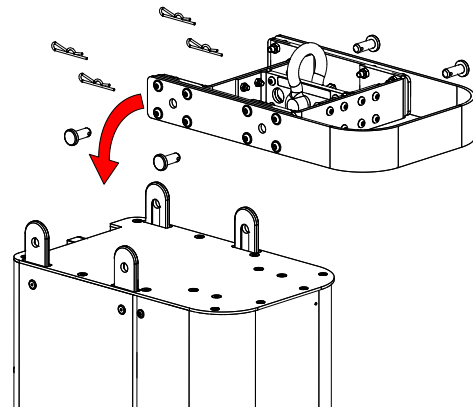
- 2) Pull the cotter pins from the flying-bracket retaining pins.



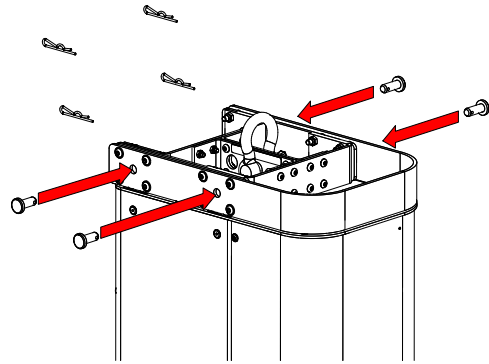
- 3) Pull the retaining pin out of the flying bracket.



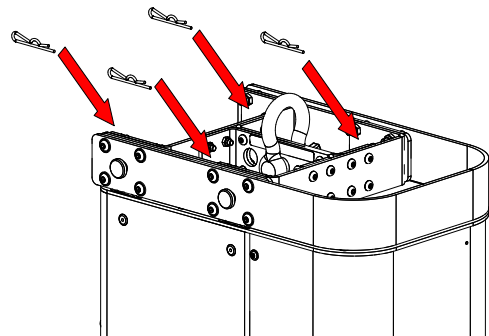
- 4) Place the flying bracket on the speaker.  
Make sure that all connecting adapters smoothly slide into the matching flying-bracket holders.



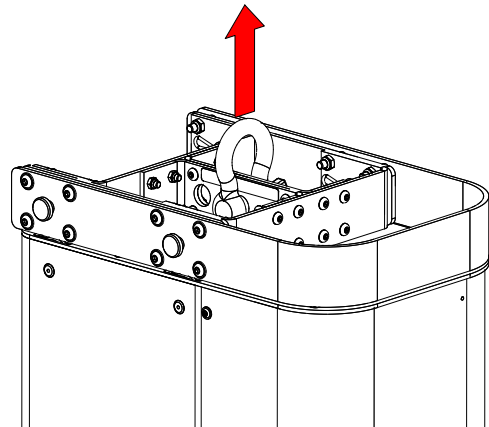
- 5) Insert the retaining pins back into the flying-bracket bores and through the four connecting pins to fasten them.



- 6) Secure the retaining pins using the cotter pins to prevent the retaining pins from sliding out.



- 7) You can now wire the speaker and lift it using a suitable lift mounted to the shackle.



## 5.2 Stacking Speakers



### Warning

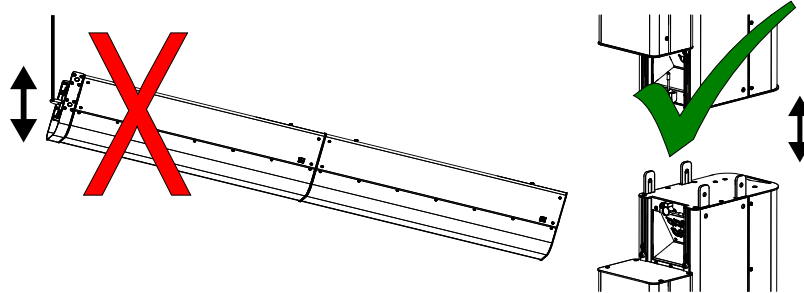
#### **Danger! Risk of injury from falling objects!**

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

Never down-tilt flown VIDA L speakers using this accessory.

Never raise horizontally placed VIDA L speakers using this accessory.

Never lift more than 4 VIDA L speakers using this accessory.



### Tip

If you need to mount speakers to already suspended ones, we recommend always mounting the lower speaker out of its upright transportation case and then lifting it off the case.

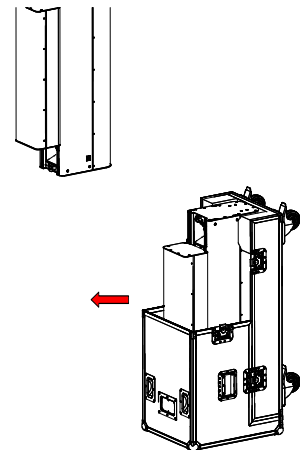
This way, you don't need to remove the speaker from the case first, thus avoiding scratches on the speaker bottom that may result from placing it outside the case.

#### **To set up a flying VIDA L array:**

- 1) Prepare the suspended speaker for accepting the connecting adapters of another speaker.

Move out and lock the connecting adapters of another VIDA L to prepare it for mounting.

Place it below the suspended speaker(s).





**Warning**

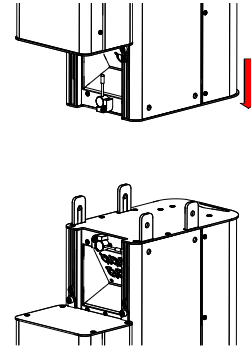
2)

### Crushing hazard!

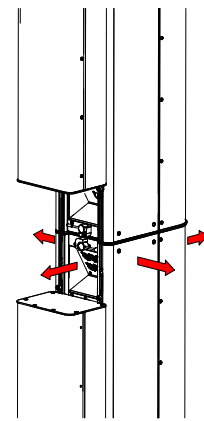
When mounting, avoid crushing your body parts between system components moving towards each other.

While mounting the speakers to one another, never put your hands between the connecting faces (i.e. speaker bottom and top faces)!

Slowly and carefully lower the upper speaker onto the lower one.

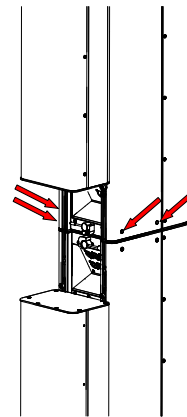


- 3) To support the adapters snapping into each other, gently push the lower speaker in every direction.



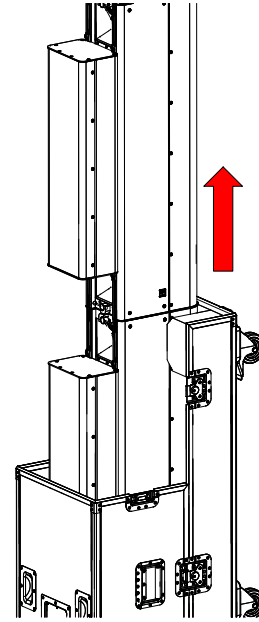
- 4) On both sides of each speaker box, make sure that you can see and feel the chamfers of the 4 connecting pins (8 pins in total) are flush with the walls from outside (a).

Make sure that all levers of both speakers are locked in their captive positions.



- 5) Carefully lift the speakers, thus pulling the bottom speaker off the case.

Make all cabling connections during mounting as and when appropriate.



To attach more speakers at the bottom, repeat the above procedure for each speaker.

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

Be sure to use the flying bracket with vertical flying configurations of 4 or less VIDA L speakers with or without VIDA C.



**Warning**

When finished, move the array to the desired position.

## 6. Uninstalling the VIDA L



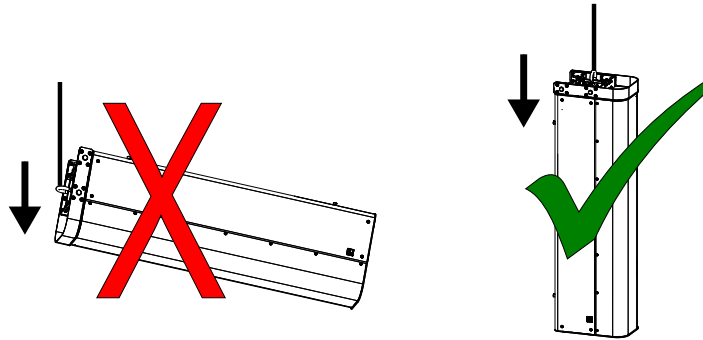
**Warning**

### **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!

The flying bracket is not designed for mechanical down-tilt.

Never tilt suspended VIDA L speakers into a horizontal position using this accessory.



**Risk of injury: Never disconnect speakers that are suspended or on mechanical load!**

Make sure that the connecting interface is unloaded before starting dismantling. Therefore, always lower the speaker array vertically onto the floor or right into the case before separating the connection to the next speaker or flying bracket!

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



**Notice**

Do not apply excessive force when disconnecting speakers. If you have problems disconnecting the speakers, try again at a more level place and/or shake gently.



**Tip**

When dismantling 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.

Note that you don't need to move the connecting adapters of a VIDA L speaker back into the housing after dismantling: The speakers are designed for fitting into their cases with their adapters moved out, thus simplifying and shortening the dismantling process as well as the next mounting process.

### 6.1 Dismounting into Upright Cases

When dismantling the speakers, we recommend lowering the bottom speaker right into an upright transportation case. The key benefit of this approach is the low space requirements.

Of course, you can also lower the bottom speaker right to the floor.

Notice, however, that the speaker must be placed in a raised position, speakers equipped with this accessory must not be lowered to a **horizontal** position.

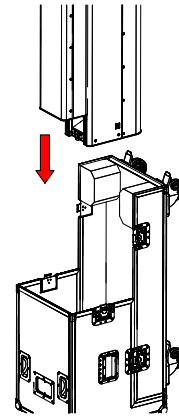


**Warning**

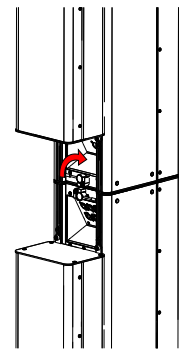


- 1) Place an upright VIDA L case below the speaker array with the top removed.

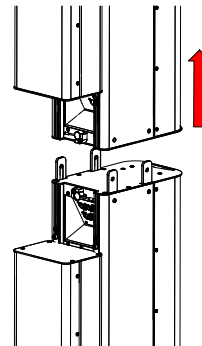
Fully lower the array. Doing so will unload the connecting interfaces—you can now easily disconnect the speakers from each other.



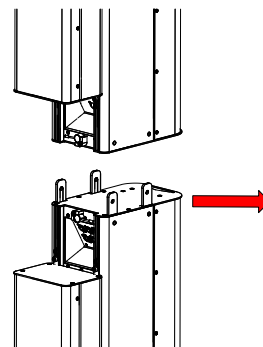
- 2) Disconnect the speakers.  
If you have problems disconnecting the speakers, try again at a more level place and/or shake gently.



- 3) Carefully lift the upper part of the speaker array.  
Doing so will pull the connecting adapters from the lower speaker.



- 4) After fully removing all 4 adapters from the upper speaker, pull the speaker sideways, close the case, and tip it onto its casters.

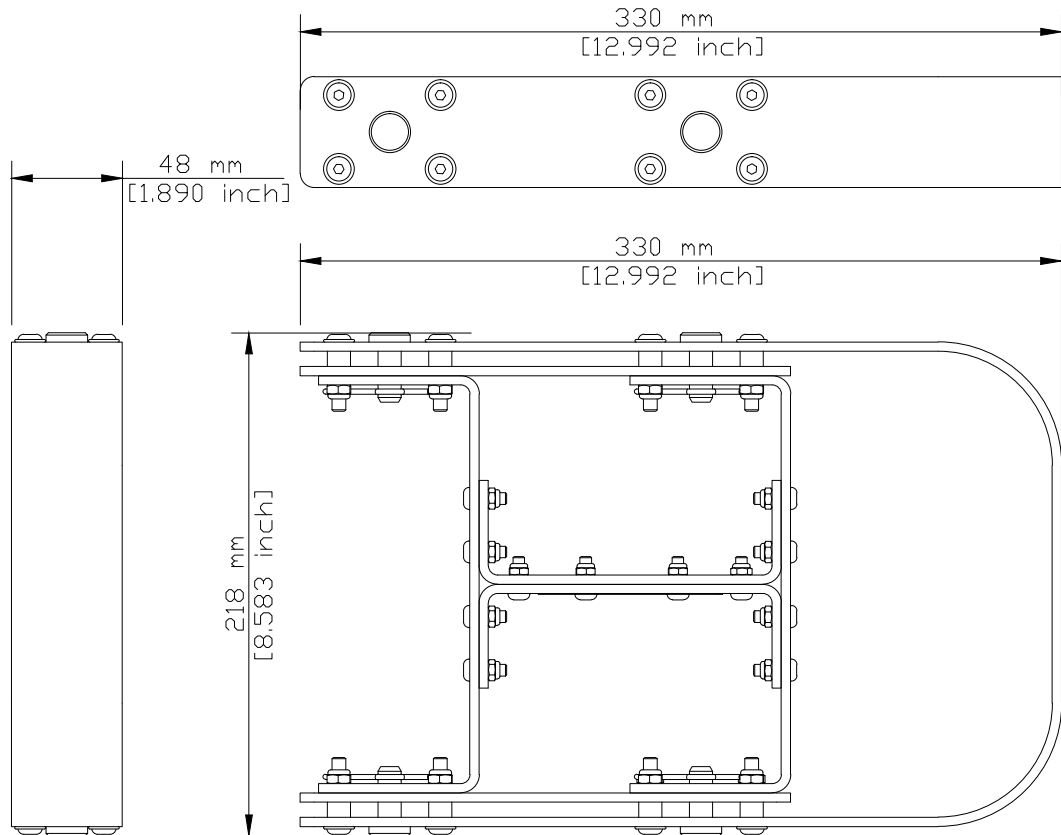


Repeat the process for the other speakers to dismount.



## 7. Dimensions and Weight

Weight: 4.0 kg



## 8. Transportation and Storage

Always protect all metal parts from even temporary moisture. despite, be sure to 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

1. 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.

2. Clean this speaker accessory regularly using a corrosion-prevention penetrating oil (for example, WD-40®).

## 10. Declaration of Conformity (CE)

### EG-Konformitätserklärung

(Declaration of EG-Conformity)



**Hersteller:**

(Manufacturer)

Kling & Freitag GmbH  
Junkersstraße 14  
30179 Hannover  
Deutschland

**Bevollmächtigter  
für die Zusammenstellung der  
technischen Unterlagen:**

(Authorized representative  
for the compilation of technical  
documents)

Kling & Freitag GmbH  
Abt. Entwicklung  
+49 (0)511 / 96997-50  
Deutschland

**Produkt:**

(Product)

Lautsprecheraufhängung  
VIDA L Flugbügel

**Wir erklären, dass das genannte Produkt den aufgeführten Schutzanforderungen der  
folgenden EG-Richtlinie entspricht:**

(We declare that the designated product is in conformity with the protection requirements imposed by  
the following EU directive:)

- 2006/42/EG, Maschinenrichtlinie (Machinery Directive)

**Zur Beurteilung hinsichtlich der Einhaltung wurden folgende harmonisierte Normen  
herangezogen:**

(Conformance of the products with the requirements is approved by compliance with the following  
harmonized European standards:)


- Eurocode 1/DIN EN 1991-1-1 : 12/2010
- Eurocode 3/DIN EN 1993-1-1 : 12/2010

**Nationale Vorschriften:**

(National regulations:)

- DGUV Vorschrift 17 (BGV C1)

Hannover, 20.4.2016

  
Jürgen Freitag, Geschäftsführung (CEO)

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