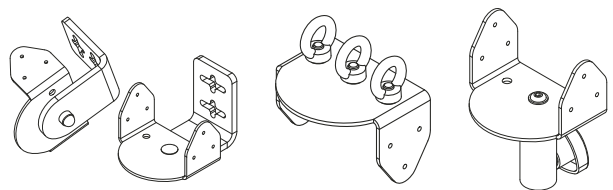


EN | VERSION 2.4 | 07/19/2021



USER'S MANUAL
K&F VIDA M accessories

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1 Introduction

1.1 Icons Used

WARNING

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

CAUTION

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

NOTE

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

TIP

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

1.2 About this user's manual

EN | Translation of the original instructions

© 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 product must have access to this manual and all other relevant material during installation. Don't set up or operate the product before you have carefully read and fully understood this manual. Keep the manual readily available on site at all times.

All KLING & FREITAG manuals are originally authored in German.

KLING & FREITAG spare manuals are separately available for order or can be downloaded

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2 Product Description

2.1 Intended Use

To be operated by qualified personnel only.

Unless otherwise stated, use only KLING & FREITAG original parts for mounting.

2.1.1 VIDA M wall mount

The VIDA M wall mount wall mount is designed for permanent installation to the VIDA M 110 / 110 S und VIDA M 220 / 220 S. It is prohibited to mount/unmount the accessory to/from the speaker, frequently.

The wall mount is designed for wall attachment only; never attach it to the ceiling.

The VIDA M wall mount can be installed horizontally as well as vertically.

The speaker system must not be exposed to horizontal wind loads when mounted to the wall bracket.

Vertically, the speaker system mounted to the wall bracket may be exposed to specific wind loads and may therefore also be installed outdoors:

Prerequisite is a peak velocity pressure of $q = 0.97 \text{ kN/m}^2$ acting on the speaker. According to the German DIN EN 1991-1-4 standard, this corresponds to wind zone 2 (inland) and a maximum operating height of 25 m above the ground.

The wall anchors must be dimensioned sufficiently.

Any other use as well as any use not explicitly described in this User's Guide is not an intended use.

2.1.2 VIDA M flying frame

The VIDA M flying frame is designed for permanent installation to the VIDA M 110 / 110 S and VIDA M 220 / 220 S. Indoor use only. It is prohibited to mount/unmount the accessory to/from the speaker, frequently.

Outdoor use is permitted only after taking appropriate steps (for example additional horizontal bracing at the speaker bottom and providing a structural certification specifically for the application at hand).

Any other use as well as any use not described in this User's Guide is not an intended use.

2.1.3 VIDA M stand adapter

The VIDA M stand adapter is designed for permanent installation to the VIDA M 110 / 110 S. Indoor use only. It is prohibited to mount/unmount the accessory to/from the speaker, frequently.

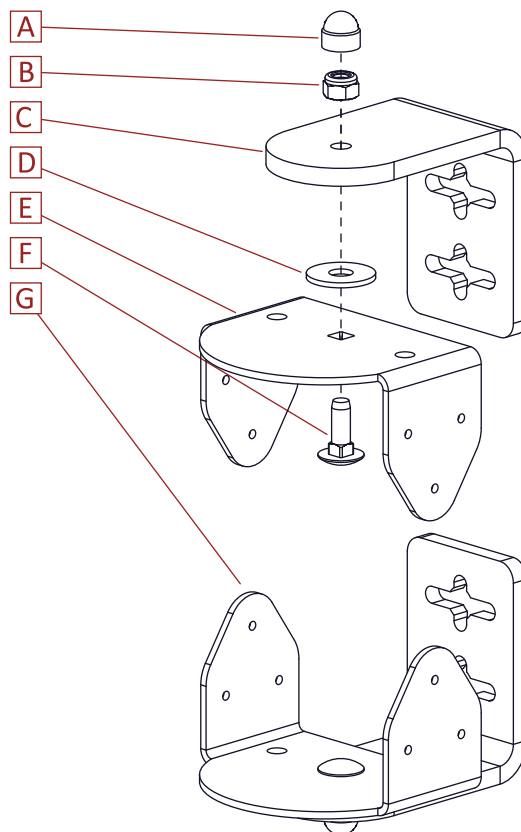
Be sure to verify the stability of the speaker/stand system. The adapter is not designed for withstanding high lateral forces or shocks (for example, winds or persons running into the setup).

Any other use as well as any use not described in this User's Guide is not an intended use.

2.2 Items included

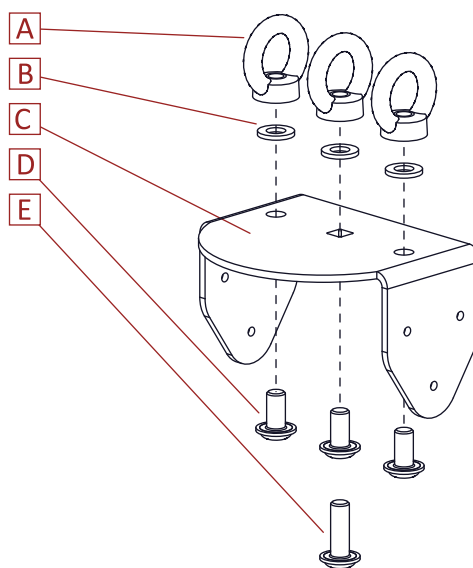
2.2.1 VIDA M wall mount

- 2 x VIDA M wall mount:
 - [A]** 2 x Caps for M10 nuts
 - [B]** 2 x M10 self-locking nuts A2-70
 - [C]** 2 x Fastening brackets with crossshaped holes
 - [D]** 2 x Washers 13 x 37 x 3
 - [E]** 2 x Speaker holders
 - [F]** 2 x Coach bolts M10x30, A2-70
 - [G]** Bottom holder
- 12 x Stainless-steel countersunk screws M6x10, strength class A2-70, for fastening the speaker
- 1 x User's Manual



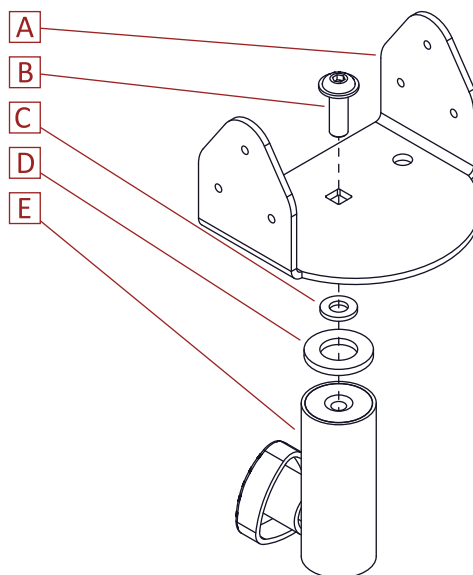
2.2.2 VIDA M flying frame

- [A]** 3 x Stainless-steel eye nuts DIN 682, M10
- [B]** 3 x Locktix® lock washers for M10 screws.
- [C]** 1 x Speaker holders
- [D]** 3 x Stainless-steel pan-head screws M10x20 (ISO 7380-2), strength class A2-70, for M10 eye nuts.
- [E]** 1 x o-ring 10 x 2.5 mm for centering the lock washer, for optional spigot adapter.
- [F]** 1 x Locktix® lock washers for M14 screws, for optional spigot adapter.
- [G]** 1 x Stainless-steel pan-head screw M10x30 (ISO 7380-2), strength class A2-70, for optional spigot adapter
- 6 x Stainless-steel screws M6x10, strength class A2-70, for fastening the speaker
- 1 x User's Manual



2.2.3 VIDA M stand adapter

- [A]** 1 x Speaker holders
- [B]** 1 x Stainless-steel pan-head screws M10x30 (ISO 7380-2), strength class A2-70
- [C]** 1 x Rubber washer for centering the lock washer
- [D]** 1 x Sicherungsscheibe ‚Locktix®‘ für M20
- [E]** 1 x Stativhülse M10
- 6 x Stainless-steel countersunk screws M6x10, strength class A2-70, for fastening the speaker
- 1 x User's Manual



2.3 Optional accessories for the VIDA M flying frame

Spigot adapter with M10 internal thread

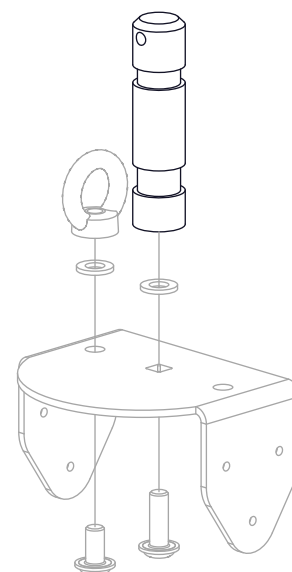
⚠ WARNING

Risks imposed by falling parts

Third-party spigot adapters may be used provided they carry the load safely and comply with the safety requirements as per DGUV regulations 17 .or similar locally applicable accident-control standards.

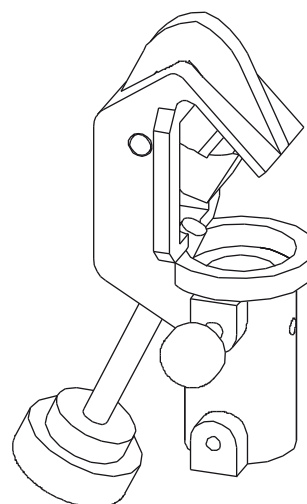
The spigot adapter must be used with the following connecting equipment:

- 1 x Locktix® lock washers for M14 screws, single-piece, inter-locked, supplied with VIDA M flying frame
- 1 xo-ring 10 x 2.5 mm for centering the lock washer, supplied with VIDA M flying frame
- 1 x Stainless-steel pan-head screw M10x30 (ISO 7380-2), strength class A2-70, supplied with VIDA M flying frame, or optionally steel pan-head screw, strength class 8.8.



Pipe Clamp for TV Spigot

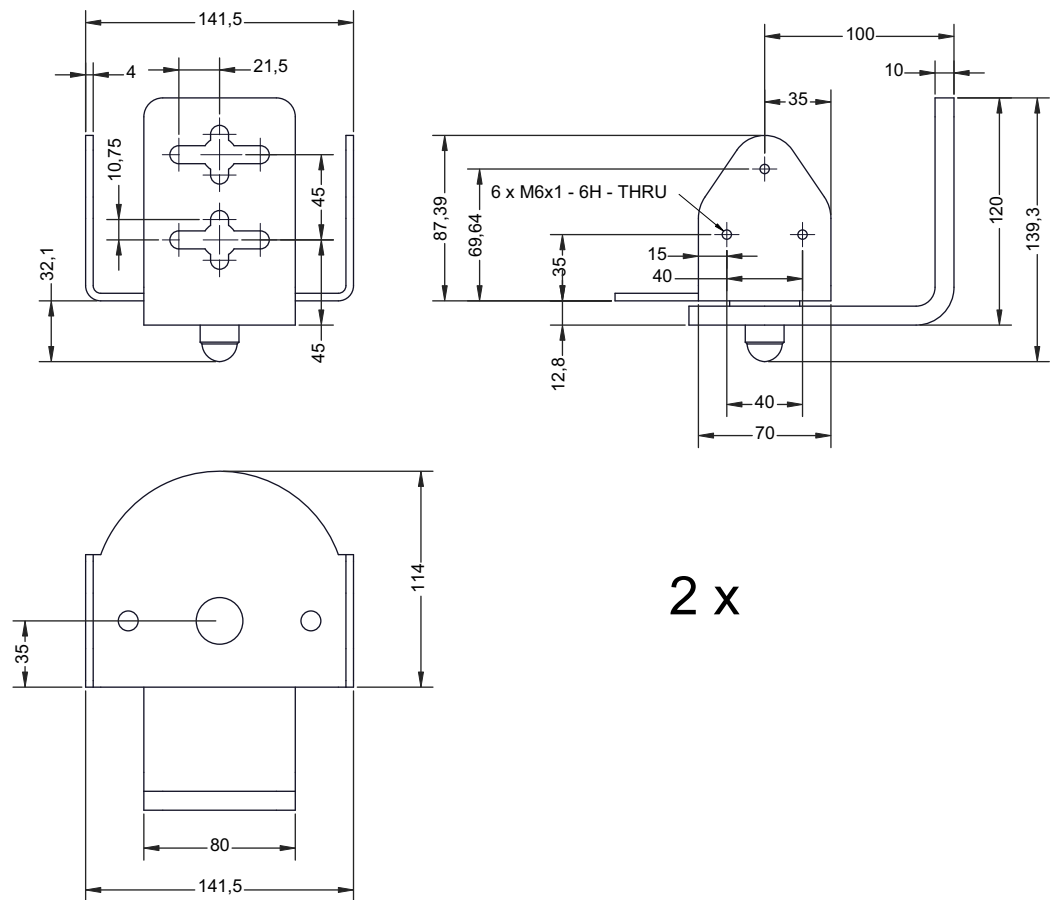
for 30 – 50-mm pipes 30 to 50 mm, 50-kg load (max.)



2.4 Dimensions and Weight

2.4.1 VIDA M wall mount

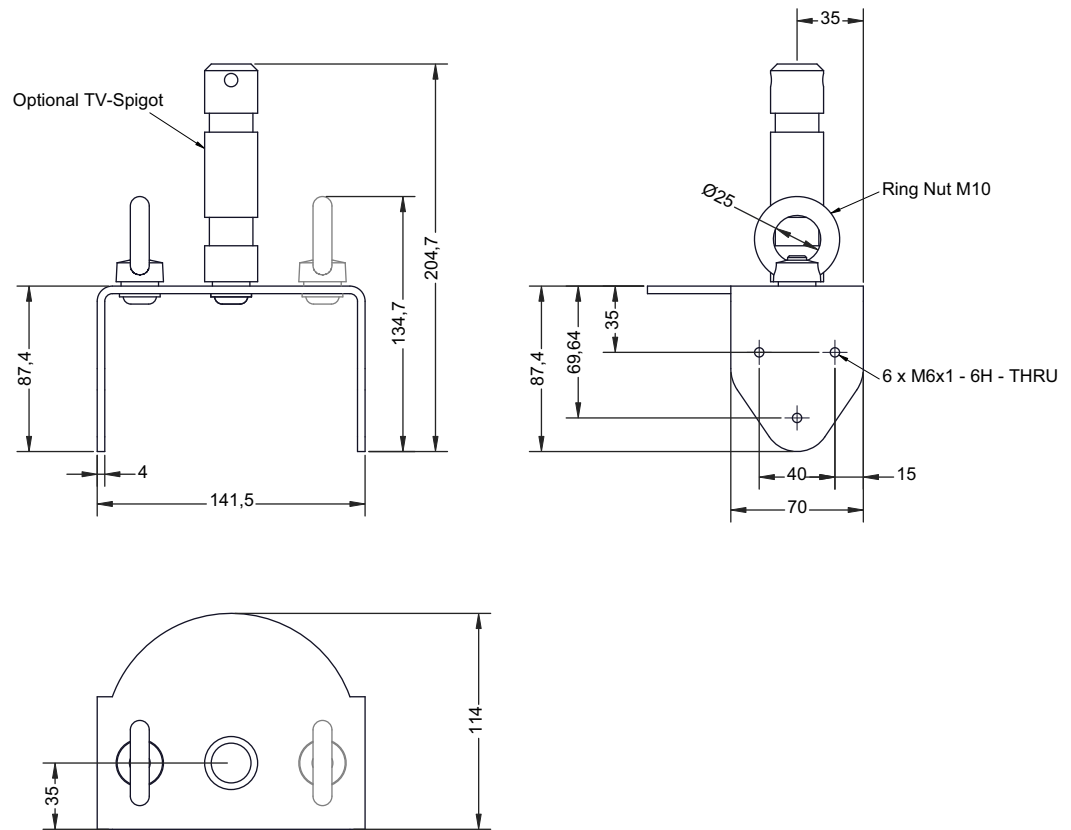
Weight: 2.15 kg



2.4.2 VIDA M flying frame

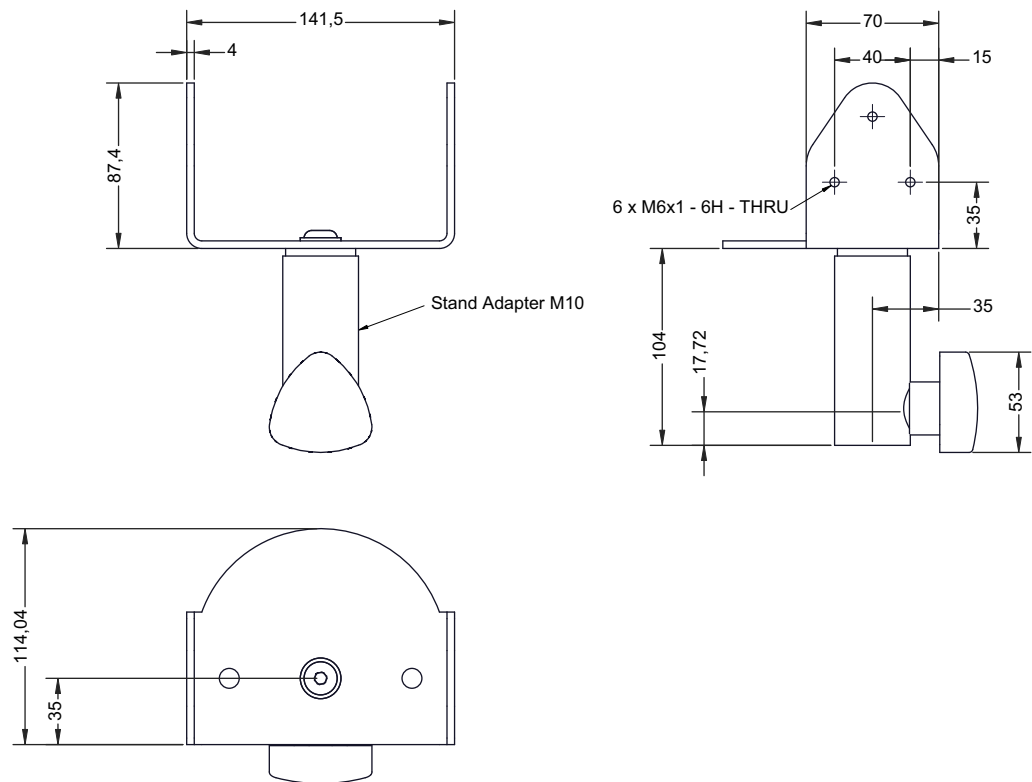
Weight:

1. 0.95 kg (including 2 eyebolts)
2. 1.35 kg (including 1 spigot adapter and 1 eyebolt)



2.4.3 VIDA M stand adapter

Weight: 1.2 kg



3 General Safety Instructions

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

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 mount, suspend, or place the product as specified in the DGUV regulations 17 (BGV C1) or similar locally applicable accident-control standards.

WARNING

Risks imposed by falling or overturning parts

- The accessories are intended for use in permanent installations. They are not designed for constant mounting to/dismounting from the speaker. **Be sure to mount the accessories to a speaker no more than five times during the overall product lifecycle.**
- Be sure to tighten all bolts and screws to the specified torque.
- Only qualified technicians are permitted to perform the installation steps. Be sure to use personal protective equipment at all times.
- Be sure to use the accessories as specified in this document only.
- Unless otherwise stated, use only KLING & FREITAG original parts for mounting.
- Be sure to perform visual inspections and function checks before each use and at regular intervals. Never use the system if it shows signs of malfunction or wear, cracks, deformation, etc.
- Only expose a VIDA M loudspeaker to wind loads if you mount it vertically with a VIDA M wall bracket and if a peak velocity pressure of $q = 0.97 \text{ kN/m}^2$ is not exceeded.
- The use of any other accessory described in this manual is not permitted in (semi-) outdoor.

4 Assembly and Installation Instructions

4.1 VIDA M wall mount

The VIDA M wall mount can be installed horizontally as well as vertically.

⚠ WARNING

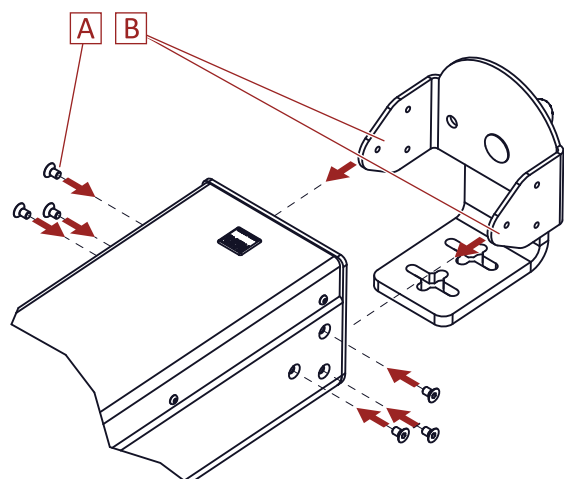
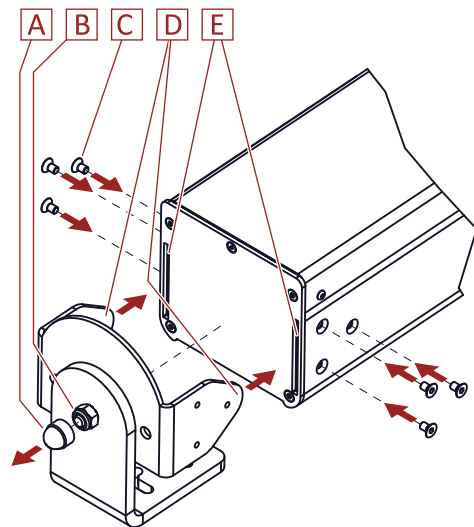
Risks imposed by falling parts

- Note you must not install the wall mount at the ceiling.
- Before installation, consider the load-bearing capacity, strength, and structure of the wall.
- Be sure to use appropriately sized and suitable mounting material (dowels, screws, etc.) to ensure the required strength.

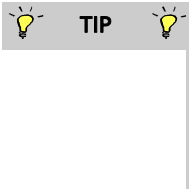
Specified wall-anchor tensile strength and shear strength	
Tensile strength: 4.62 kN	Shear strength: 3.46 kN

Required Tools	Required mounting material
IH4 torque wrench with hexagon-socket drive and 3 Nm torque	Loctite 2400 (supplied with the speaker)
Tools for attaching and tightening anchors	4 x suitable anchors (8-mm body diameter, 17- mm head diameter max.)
Torque wrench with hexagon-head drive, SW 17 size, 15 Nm torque	

3. Remove the caps [A] from the M10 wall-mount nuts [B].
4. Apply Loctite 2400 to the threads of the M6x10 counter-sunk screws [C].
5. Slide the tabs of the speaker holder [D] into the corresponding inlets of the speaker [E] (not shown in the below figure).
6. Screw in all M6x10 screws [C] using an IH4 hexagon socket wrench. Do not tighten yet!
7. Tighten the M6x10 screws [C] to a **3-Nm torque** using a IH4 hexagon socket wrench.



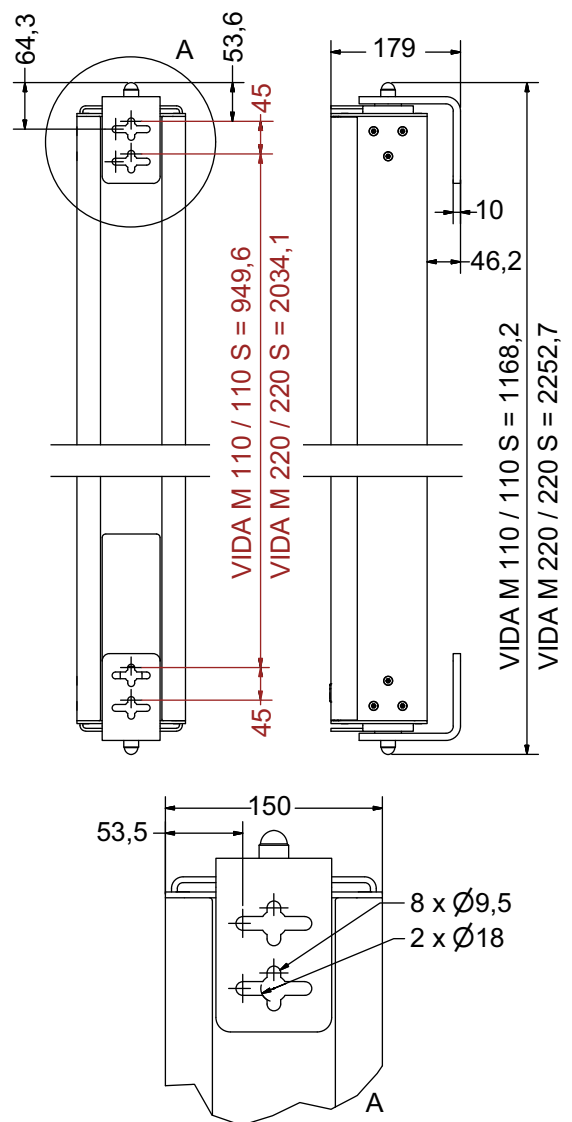
8. Install **four** anchors according to the adjacent drawing [red measurements]. Be sure to leave sufficient space (approx. 11 – 15 mm/0.4 – 0.6") between the anchor head and the wall, so you are able to place the wall mount bracket behind the anchor head.



Tipp

Perform the next step using a lifting platform, so that you don't need to fasten the speaker under load.

9. Lift the speaker to mounting height.
10. Center the cross-shaped holes in front of the respective anchor heads.
11. Lower the speaker.
12. Make sure the anchor points have been properly inserted and the anchor heads stand out from the holes.
13. Tighten the anchor points.
14. Align the speaker.
15. Screw the M10 nuts [B] (previous figure) to a 15 Nm torque (max.).
16. Replace the caps [A] (previous figure).



4.2 VIDA M flying frame

The flying frame can be used in three different ways:

1. Two-strand suspension
2. One-strand suspension with safety
3. One-strand suspension with optional spigot adapter and additional safety

4.2.1 Two-strand suspension

WARNING

Risks imposed by falling parts

- Be sure not to suspend more than one VIDA M 110 / 110 S or VIDA M 220 / 220 S speaker from a flying frame.
- Note that speakers suspended using a flying frame must be placed vertically and must never be mechanically down-tilted.
- Make sure all fittings used are suitable for the task at hand and meet all relevant safety requirements.
- 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.
- Note that the suspension points on the hall ceiling (i.e. shackles, attachment points, or chain hoists) must comply with the DGUV regulations 17 (BGV C1) or similar locally applicable accident-control standards. The maximum load must have been certified by an authorized expert.
- Also follow the operating and safety instructions supplied with the product you intend to suspend the VIDA M flying frame from (e.g. a truss). Never mount the flying frame to a product if there is no information on safe use and maximum load.
- Even with two-fall suspension, each chain and motor must be capable of carrying the entire mass! Make sure that the motor chains hang down vertically and are not twisted, and that the motors are located at the required positions.
- Make sure no persons stand in the danger zone below the speakers during setup and mounting/dismounting.
- Never use signal cables or power cords for suspending, aligning, or securing the systems.

Risk imposed by swinging loads

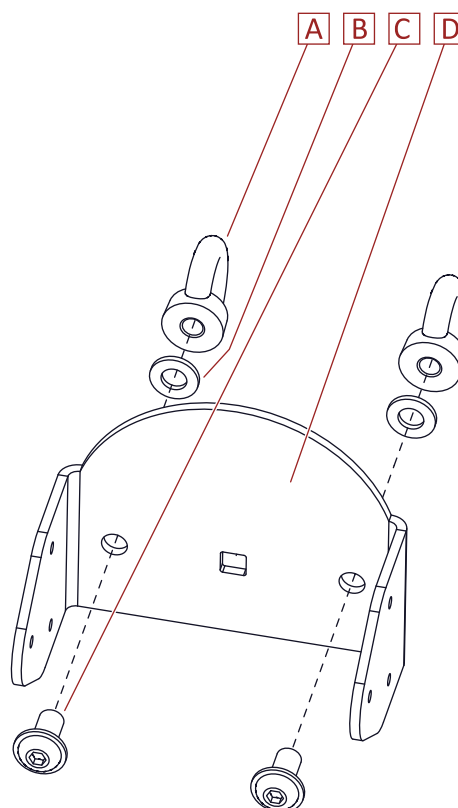
- Remember that the array may swing out wide!
- Ensure there is sufficient clear space for assembling and suspending the array on-site.
- Permit only personnel directly involved with assembly or disassembly to access the working area. The person in charge must announce all flying-frame lifting and lowering activities beforehand and make sure all people attending are aware. In this case, all persons present must leave the swing and lifting range immediately.

Hazard of falling

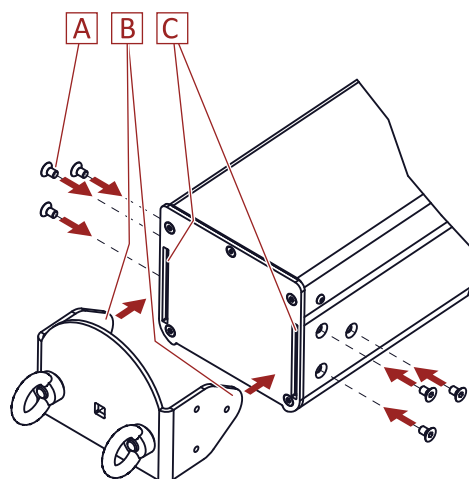
- Never use the flying frame for lifting or safeguarding persons or objects other than the above speakers.

Required Tools	Required mounting material
IH4 torque wrench with hexagon-socket drive and 3 Nm torque	Loctite 2400 (supplied with the speaker)

1. Apply Loctite 2400 to the threads of the screws [C].
2. Screw and tighten the eyebolts [A] and the lock washers [B] using the M10x20 screws [C] to the speaker holder [D].



3. Apply Loctite 2400 to the threads of screws [A].
4. Slide the tabs of the speaker holder [B] into the corresponding inlets of the speaker [C].
5. Screw in all M6x10 screws [A] using an IH4 hexagon socket wrench. Do not tighten yet!
6. Tighten the M6x10 screws [A] to a **3-Nm torque** using a IH4 hexagon socket wrench.



4.2.2 One-strand suspension with safety

WARNING

Risks imposed by falling parts

- Be sure not to suspend more than one VIDA M 110 / 110 S or VIDA M 220 / 220 S speaker from a flying frame.
- Note that speakers suspended using a flying frame must be placed vertically and must never be mechanically down-tilted.
- Make sure all fittings used are suitable for the task at hand and meet all relevant safety requirements.
- 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.
- Note that the suspension points on the hall ceiling (i.e. shackles, attachment points, or chain hoists) must comply with the DGUV regulations 17 (BGV C1) or similar locally applicable accident-control standards. The maximum load must have been certified by an authorized expert.
- Also follow the operating and safety instructions supplied with the product you intend to suspend the VIDA M flying frame from (e.g. a truss). Never mount the flying frame to a product if there is no information on safe use and maximum load.
- Even with two-fall suspension, each chain and motor must be capable of carrying the entire mass! Make sure that the motor chains hang down vertically and are not twisted, and that the motors are located at the required positions.
- Make sure no persons stand in the danger zone below the speakers during setup and mounting/dismounting.
- Never use signal cables or power cords for suspending, aligning, or securing the systems.

Risk imposed by swinging loads

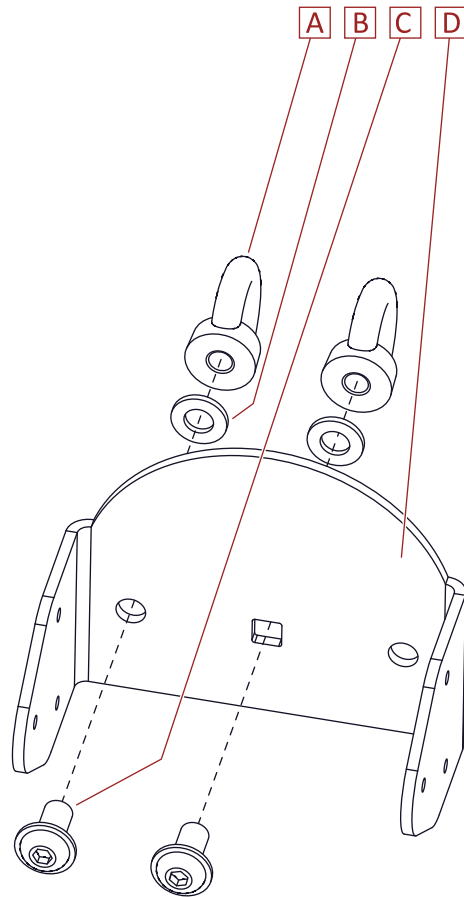
- Remember that speakers being lifted may swing out!
- Ensure there is sufficient clear space for assembling and suspending the speakers on-site.
- Permit only personnel directly involved with assembly or disassembly to access the working area. The person in charge must announce all flying-frame lifting 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.

Hazard of falling

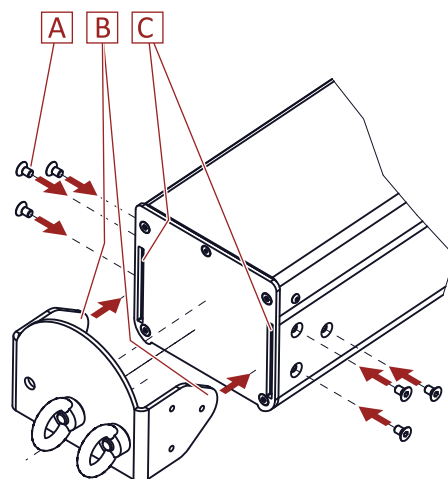
- Never use the flying frame for lifting or safeguarding persons or objects other than the above speakers.

Required Tools	Required mounting material
IH4 torque wrench with hexagon-socket drive and 3 Nm torque	Loctite 2400 (supplied with the speaker)

1. Apply Loctite 2400 to the threads of the screws [C].
2. Screw and tighten the eyebolts [A] and the lock washers [B] using the M10x20 screws [C] to the speaker holder [D].



3. Apply Loctite 2400 to the threads of screws [A].
4. Slide the tabs of the speaker holder [B] into the corresponding inlets of the speaker [C].
5. Screw in all M6x10 screws [A] using an IH4 hexagon socket wrench. Do not tighten yet!
6. Tighten the M6x10 screws [A] to a **3-Nm torque** using a IH4 hexagon socket wrench.
7. Suspend the speaker.



WARNING

Risks imposed by falling parts

8. Use an eyebolt as a safety-fastening point on the side.
9. Implement the safety with not drop distance!

4.2.3 One-strand suspension with optional spigot adapter and safety

WARNING**Risks imposed by falling parts**

- Be sure not to suspend more than one VIDA M 110 / 110 S or VIDA M 220 / 220 S speaker from a flying frame.
- Note that speakers suspended using a flying frame must be placed vertically and must never be mechanically down-tilted.
- Make sure all fittings used are suitable for the task at hand and meet all relevant safety requirements.
- 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.
- Note that the suspension points on the hall ceiling (i.e. shackles, attachment points, or chain hoists) must comply with the DGUV regulations 17 (BGV C1) or similar locally applicable accident-control standards. The maximum load must have been certified by an authorized expert.
- Also follow the operating and safety instructions supplied with the product you intend to suspend the VIDA M flying frame from (e.g. a truss). Never mount the flying frame to a product if there is no information on safe use and maximum load.
- Even with two-fall suspension, each chain and motor must be capable of carrying the entire mass! Make sure that the motor chains hang down vertically and are not twisted, and that the motors are located at the required positions.
- Make sure no persons stand in the danger zone below the speakers during setup and mounting/dismounting.
- Never use signal cables or power cords for suspending, aligning, or securing the systems.

Risk imposed by swinging loads

- Remember that the array may swing out wide!
- 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-frame 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.

Hazard of falling

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

Required Tools	Required mounting material
IH4 torque wrench with hexagon-socket drive and 3 Nm torque	Loctite 2400 (supplied with the speaker)

WARNING

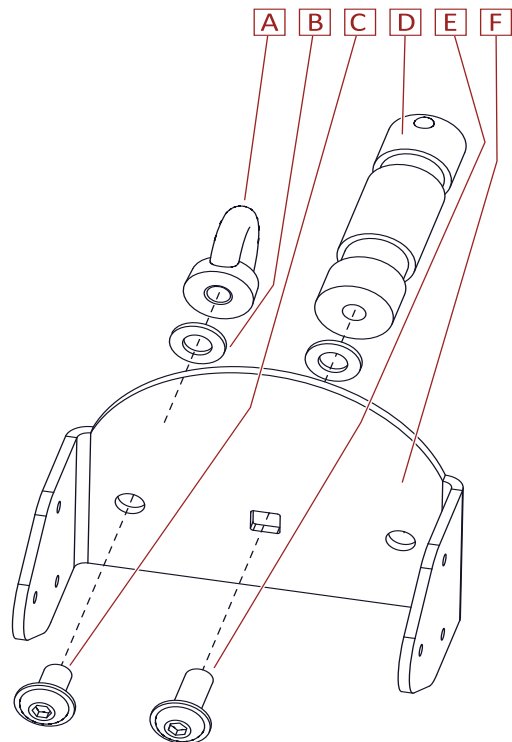
Risks imposed by falling parts

Third-party spigot adapters may be used provided they carry the load safely and comply with the safety requirements as per DGUV regulations 17 or similar locally applicable accident-control standards.

The spigot adapter must be used with the following connecting equipment:

- 1 x Locktix® lock washer, singlepiece, interlocked, supplied with VIDA M flying frame
- 1 x Stainless-steel pan-head screw M10x30 (ISO 7380-2), strength class A2-70, supplied with VIDA M flying frame, or optionally steel pan-head screw, strength class 8.8

1. Apply Loctite 2400 to the threads of the screws [C].
2. Screw and tighten the eyebolt [A] using the lock washer [B] and the M10x20 screw [C] onto the speaker holder [F].

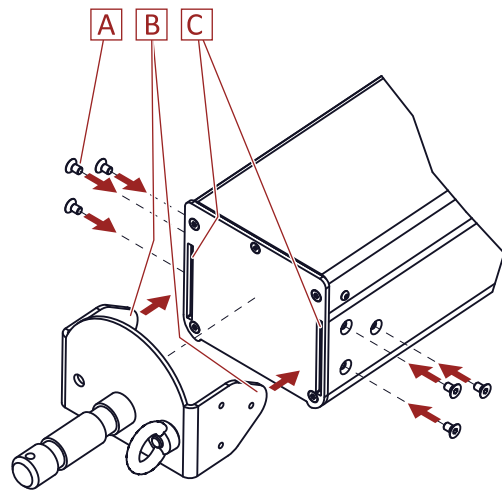


TIP

Select the side panel for the eyebolt carefully—for example, you wouldn't want to use the panel where a collision with the spigot-clamp mounting screw is likely.

3. Screw the spigot adapter [D] using the lock washer [B] and the M10x30 screw [E] to the speaker holder [F].

4. Apply Loctite 2400 to the threads of screws [A].
5. Slide the tabs of the speaker holder [B] into the corresponding inlets of the speaker [C].
6. Screw in all M6x10 screws [A] using an IH4 hexagon socket wrench. Do not tighten yet!
7. Tighten the M6x10 screws [A] to a **3-Nm torque** using a IH4 hexagon socket wrench.
8. Connect the spigot adapter to the appropriate accessory.

**WARNING****Risks imposed by falling parts**

9. Always keep in mind that you may only load the spigot adapter vertically!
10. Use the eyebolt as a safety-fastening point on the side.
Implement the safety with not drop distance!

4.3 VIDA M stand adapter

WARNING

Risk of obstruction of escape routes

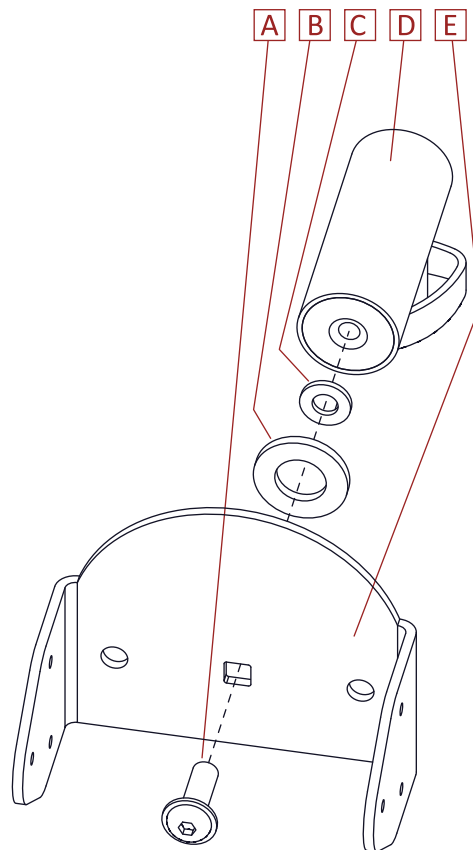
- Never place stands on emergency escape routes. Before placing stands on traffic routes, make sure the path width is sufficient and all required blocking and marking actions have been taken.

Risks imposed by overturning parts

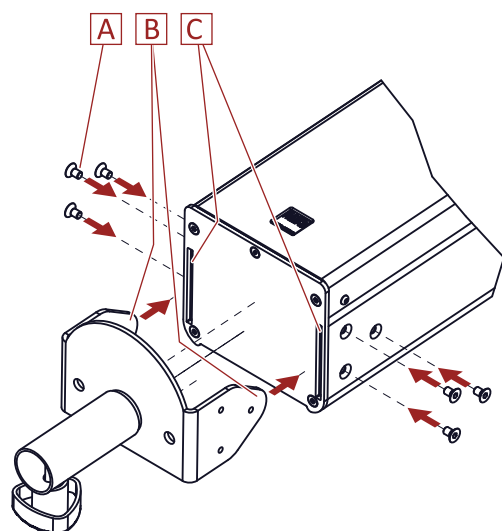
- Be sure to use the VIDA M stand adapter for VIDA M 110 / 110 S models only!
- Never use stand adapters outdoors (single-sided mounting)!
- Installed systems must not fall over even if they are inclined by 15° in any direction. If this requirement is not fulfilled, be sure to take appropriate steps.
- The stability properties of the stand adapter are designed **for horizontal grounds**. There must be **no risk of persons running into the setup as well as no wind loads in normal operation**; otherwise, be sure to take appropriate additional measures to prepare for such circumstances.
- Stands require additional safeguard in the following and similar cases:
 - The supporting surface does not allow for firm standing.
 - The stability may be affected by the system height.
 - Winds may occur.
 - Persons may run into the system, causing it to fall down.
- Suitable measures for securing stands include, for example:
 - Weighting the stand shoes down
 - Guying to stable objects
 - Blocking access to the standing area
 - Assigning security staff
- Specific actions might become necessary to prevent threatening audience behavior.

Required Tools	Required mounting material
IH4 torque wrench with hexagon-socket drive and 3 Nm torque	Loctite 2400 (supplied with the speaker)

1. Apply Loctite 2400 to the thread of screw [A].
2. Screw and tighten the stand sleeve [D] using the lock washer [B], the rubber washer [C], and the M10x30 screw [A] onto the speaker holder [E].



3. Apply Loctite 2400 to the threads of screws [A].
4. Slide the tabs of the speaker holder [B] into the corresponding inlets of the speaker [C].
5. Screw in all M6x10 screws [A] using an IH4 hexagon socket wrench. Do not tighten yet!
6. Tighten the M6x10 screws [A] to a **3-Nm torque** using a IH4 hexagon socket wrench.



5 Care and Maintenance

WARNING

Risks imposed by falling or overturning parts

1. 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 for inspection and repairs, if necessary.

Inspection regulations may vary depending on application and country of use. Observe all applicable regulations; If in doubt, contact 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 as per applicable regulations. 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. This inspection log book shall be updated with the inspection steps, test intervals and parts lists.

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

6 Transportation and Storage

Store the product in a dry place. Also, transport under dry conditions only.

During prolonged storage, ensure sufficient ventilation.

Avoid vibrations during transport.

Avoid mechanical stress during transport and storage, so the product is not damaged.

7 Disposal

Dispose of this product according to local ordinance regulations.

Ensure that the product cannot be re-used or used otherwise after disposal.

8 EC Declaration of Conformity

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 Dipl. Ing. Arne Muscheites +49 (0)511 / 96997-50 Deutschland
Produkt: (Product)	Lautsprecherzubehör VIDA M Flugrahmen

Hiermit erklären wir, dass das genannte Produkt den Schutzanforderungen der folgenden EG-Richtlinien entspricht, einschließlich deren zum Zeitpunkt dieser Erklärung gültigen Änderungen:

(We hereby declare that the designated product is compliant with the safety requirements of the following EU directives - including the changes which applied at the time of the declaration:)

- 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:)

- IEC 62368-1 : 2014 (Second Edition)

Folgende internationale und nationale Normen und Vorschriften wurden angewandt:

(The following national and international standards and specifications were applied:)

- Eurocode 1/DIN EN 1991-1-1 : 12/2010
- Eurocode 3/DIN EN 1993-1-1 : 12/2010
- DIN EN ISO 12100 : 2011-03
- DIN ISO/TR 14121-2 : 2013-02
- DGUV Vorschrift 17 (BGV C1)

Hannover, 09.07.2019


Jürgen Freitag, Geschäftsführung (CEO)



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