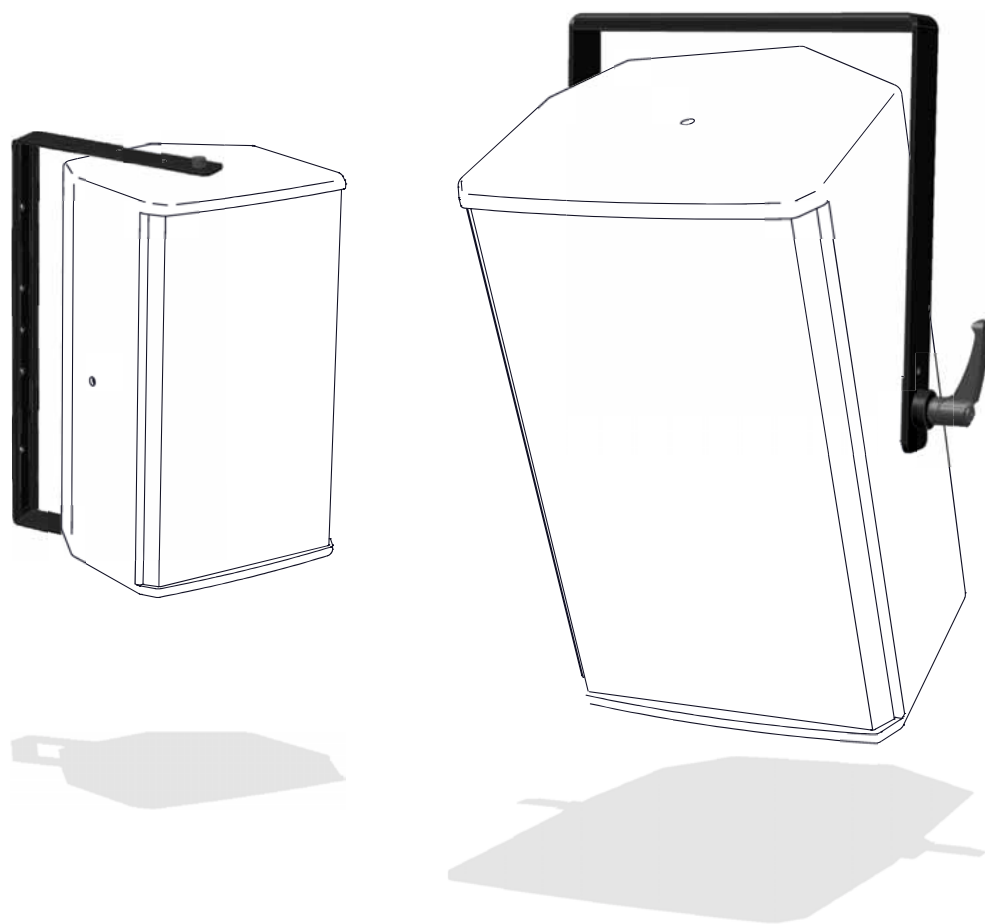


Adjustable Speaker Mounts & U-Mount for **CA** 1001



User's Manual



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

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Adjustable Speaker Mount / U-Mount for CA 1001

Symbols in User's Manual



This symbol indicates the possibility of life-threatening danger and a health risk for persons. Not following these instructions may result in serious health problems including potentially fatal injuries.



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



This symbol gives instructions for the proper use of the described products. Not following these instructions may cause malfunctions or property damage.

Information about this User's Manual

User's Manual Adjustable Speaker Mounts & U-Mount for CA 1001, Version 1.0, 13.01.2005

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All specifications in this manual are based on information available at the time of publishing for the features and safety guidelines of the described products.

Technical specifications, measurements, weights and properties are not guaranteed.

The manufacturer reserves the right to make product alterations within legal provisions as well as changes to improve product quality.

All persons who use this rigging and mounting system must have this guide and all further information for safe operations available to them during assembly, disassembly, and use.

We appreciate any input with suggestions and improvements for this manual. Please send this to us at the following address:

info@kling-freitag.de or to:

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1. Safety Instructions



The rigging and mounting system may only be suspended by trained special-ised personnel with proof of their qualifications.

The adjustable speaker mount / U-mount for CA 1001 is only for professional use and is only to be used to mount Kling & Freitag speakers CA 1001. Furthermore, it may only be used as specified for uses at trade fairs, in theatres, studios, and events, etc. according to the stipulations of the BGV C 1 or a comparable national standard.

As a general rule the rigging and mounting system must be inspected each time it is packed or unpacked. If permanently installed the system must be checked for signs of wear at regular intervals.

In addition an inspection book for the rigging and mounting system should be kept. This book should document maintenance measures and inspection intervals and contain parts lists.

If as a result of these checks any uncertainty should arise with regard to safety or if specific faults are found, the rigging and mounting system may no longer be used.

During the course of these checks particular attention should be paid to evidence of deformation, cracks, damage to threads and corrosion. Mounting devices such as shackles, chains and wire ropes should also be carefully checked for signs of wear or deformation.

Any damaged components must be replaced immediately. Do not attempt to repair the adjustable speaker mount / U-mount by yourself! If the rigging and mounting system is damaged, it must be disposed of immediately. Please send the adjustable speaker mount / U-mount back to Kling & Freitag GmbH or bring it to a professional scrap processing plant. It must by all means be guaranteed that the system can no longer be used in any way after its disposal.

For assembly only original Kling & Freitag parts may be used. The use of other parts – in particular parts by other manufacturers – is not authorized.

Please adhere to the maximum admissible load capacity of 22 kg for the adjustable speaker mount / U-mount, and do not exceed the maximum admissible configurations (1 CA 1001 system incl. mounting accessories on one adjustable speaker mount or U-mount).

The adjustable speaker mounts and the U-mount may not be used to lift and secure persons or objects aside from the above-mentioned speakers.

Please refer also to the operating and safety instructions for the product on which the adjustable speaker mount is to be suspended (e.g. truss). If no information is available regarding safety of use and permissible load, then the rigging and mounting system must not be suspended upon it. Make sure that the rigging points on the ceiling of the hall (i.e. chain hoists) comply with the accident prevention regulation BGV C 1 (presentation and production sites for scenic performances) or the comparable safety regulations for your country. Furthermore, the total load must be approved by TÜV or a comparable institution. If in doubt, let local authorities verify this.

Those persons entrusted with the task of erecting the rigging system are responsible for ensuring the safe assembly and safe operation of the system.

These instructions and all other necessary information regarding safety of operation must be distributed to all persons using the rigging and mounting system. The system may not be assembled and put into operation unless these instructions have been read and understood.

When chain hoists are being used to lift loudspeakers all persons must vacate the area below and around.

Only those persons directly involved in the assembly and dismantling procedures may be present while work is in progress. A clear signal must be given on each occasion before the system is raised, lowered or released from its rigging. All persons must then remove themselves from the radius of movement.

The safe operation of the rigging and mounting system depends upon various factors specific to the area of operation. For example, adverse weather conditions such as wind or rain can impair the safety of the system. These factors must be considered and evaluated in each case.

If there is the slightest doubt with regard to the safety of the rigging and mounting system it may not be put into use.

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.

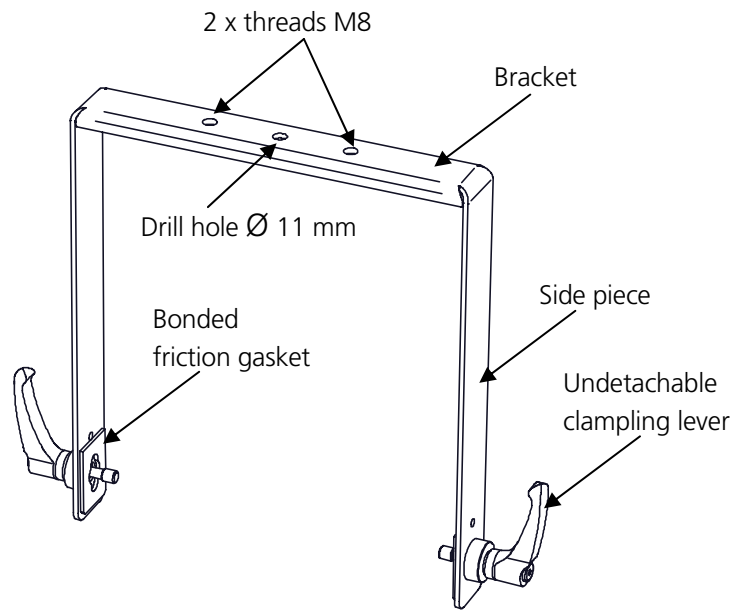
Observe the prescribed safety factors. Follow the safety instructions for speakers and mounting equipment as well as the respective national rules, norms and safety regulations.

The information given here does not exempt the user from his obligation to observe valid safety regulations and legal requirements.

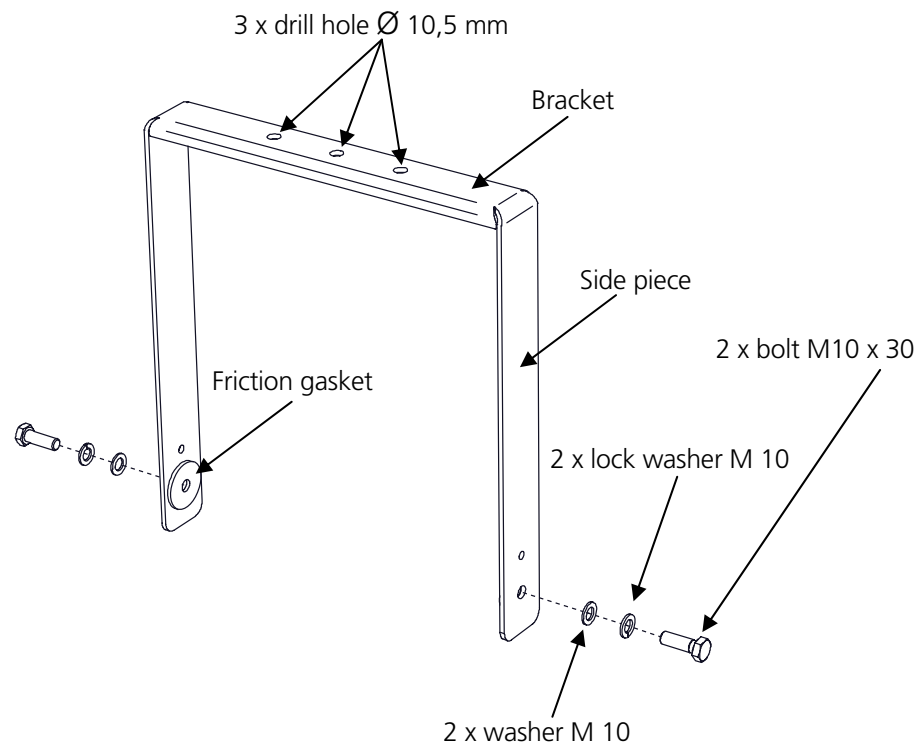


2. Shipped Components and Part Definitions

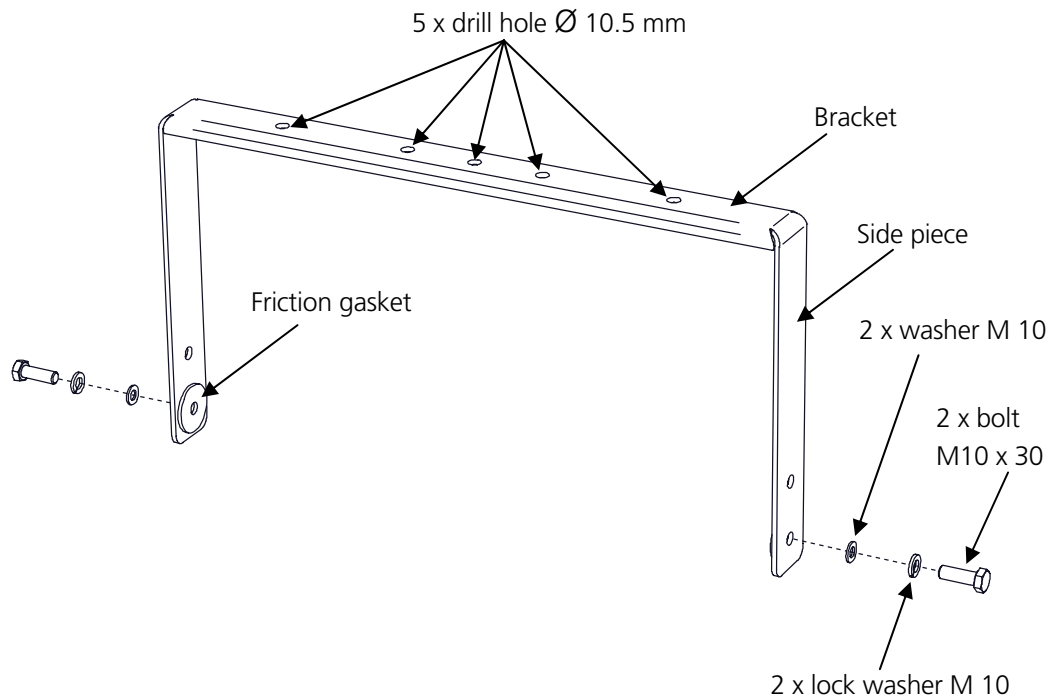
2.1 Adjustable Speaker Mount



2.2 Adjustable Speaker Mount 'Installation'



2.3 U-Mount



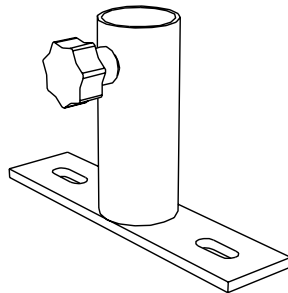
3. Optional available Mounting Equipment

Compatible stand adapters and TV spigot adapters are available for the CA 1001 adjustable speaker mount and U-mount.

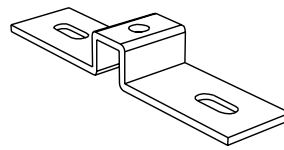
Furthermore, it is also possible to use, for example, the K&F hand wheels M8 x 20 for mobile use. These hand wheels may only be used in combination with the included large diameter Ø 8.4mm washer and with an M8 lock washer!



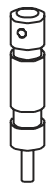
Hand wheel M8 x 20



K&F stand adapter



TV spigot adapter



TV spigot 20 mm



TV style clamp



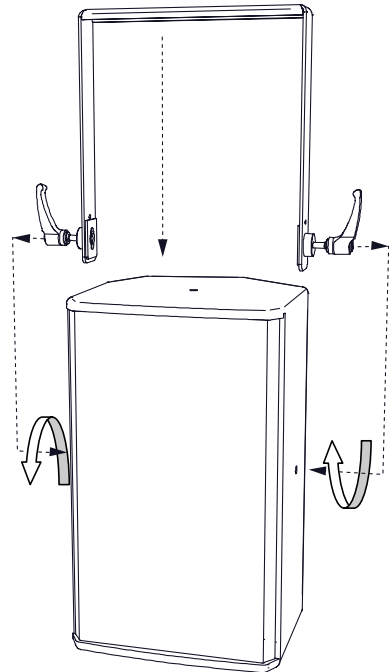
Eyebolt
M8 x 20

4. Installation and Usage Instructions

4.1 Adjustable Speaker Mount

4.1.1 Installation on Speaker

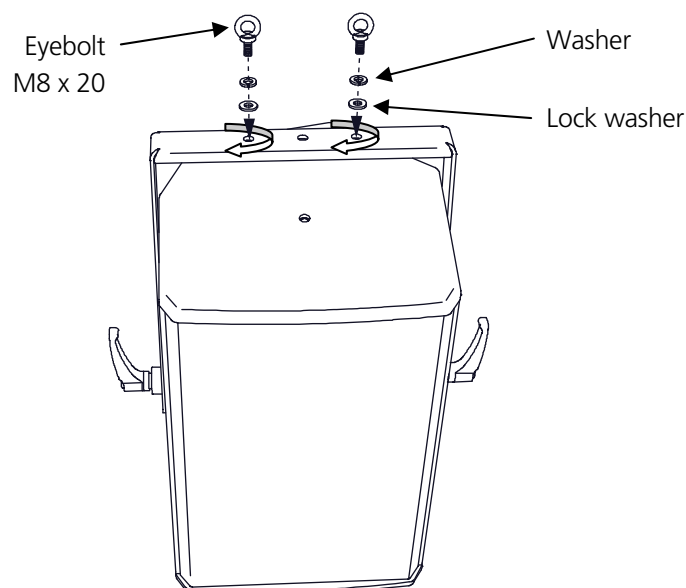
- Pull the clamping lever outwards.
- Position the lever so that the bolts of the adjustable speaker mount are aligned with the M 10 thread inserts on the sides of the speaker.
- By lifting the handle, the serration is freed, and the clamping lever can be turned to the desired position. When released, the handle automatically locks back into place. Ensure that the clamping lever does not disengage!
- The rubber friction gaskets on the inside of the side piece prevent the speaker from turning during use.



4.1.2 Suspending the Speaker Mount with Eyebolts

You can mount the adjustable speaker mount with at least two eyebolts M8 x 20 using permissible and separate lifting accessories which are sufficiently sized.

- Fasten the eyebolts including the washer and lock washer tightly to the threads of the bracket. Be aware that the safety effect of the lock washer decreases after several uses; it should, therefore, be replaced after approx. five uses.



4.1.3 Installation and Use of the K&F Stand Adapter

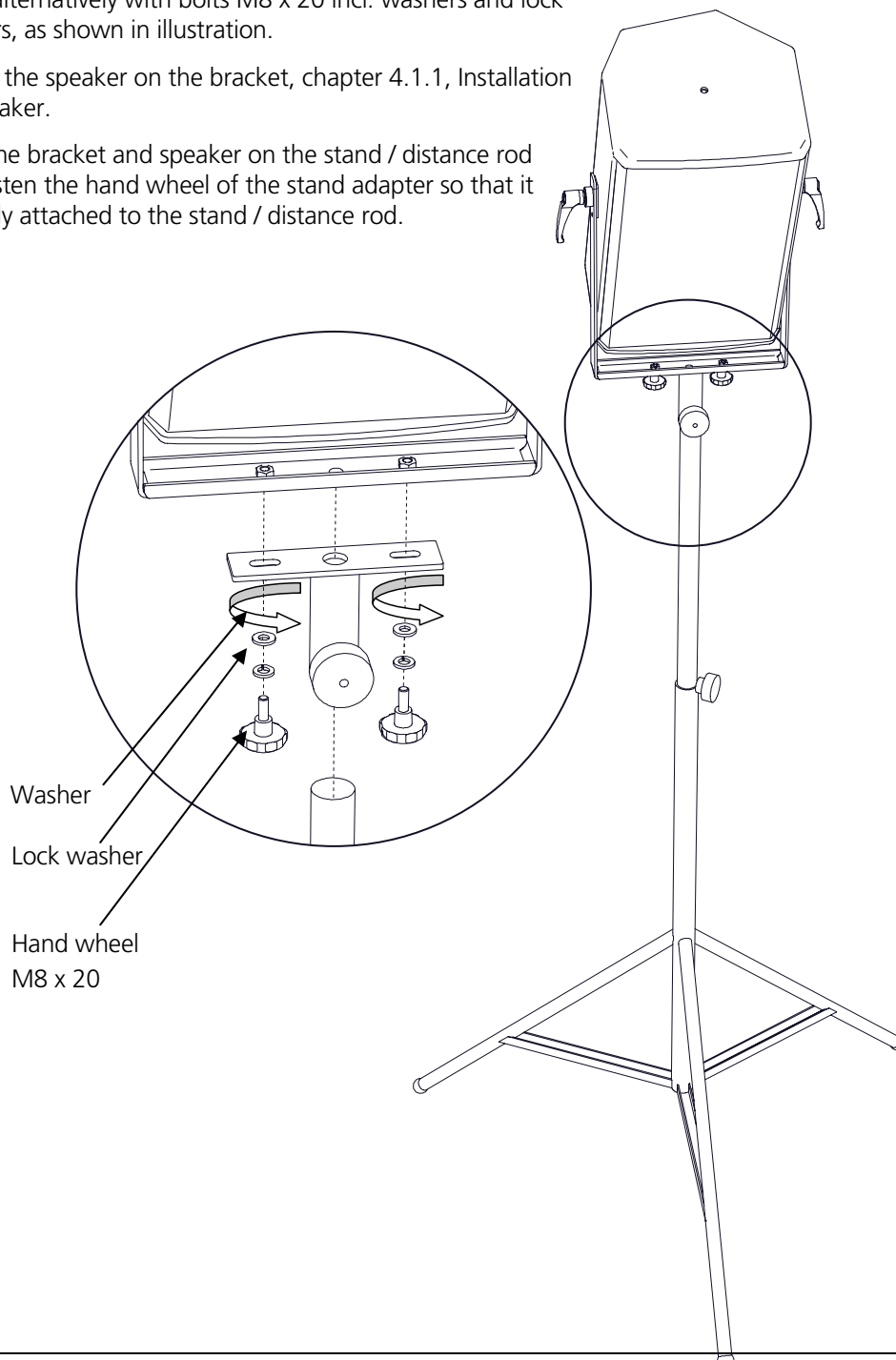
You can use the adjustable speaker mount with the optionally available stand adapter in order to attach the bracket to a stand or a distance rod with a minimum diameter of 35 mm.

The stability of speaker systems mounted on stands and distance rods is contingent upon the following stability requirement. These conditions must, therefore, be guaranteed by the user:

Stacked systems may not fall over even if they are inclined by 10° in each direction. If this requirement is not fulfilled, then it is necessary to take steps to achieve compliance. Possible measures include strapping it to an appropriate base structure or fastening it using safety straps.

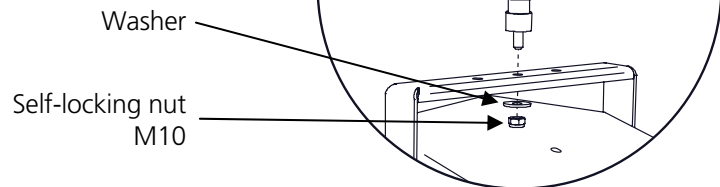


- Fasten the stand adapter using K&F handle wheels M8 incl. washers and lock washers or alternatively with bolts M8 x 20 incl. washers and lock washers, as shown in illustration.
- Mount the speaker on the bracket, chapter 4.1.1, Installation on Speaker.
- Place the bracket and speaker on the stand / distance rod and fasten the hand wheel of the stand adapter so that it is tightly attached to the stand / distance rod.

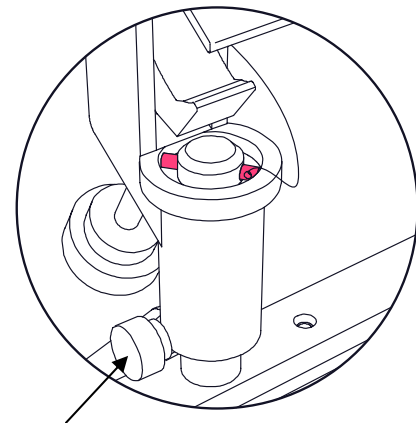
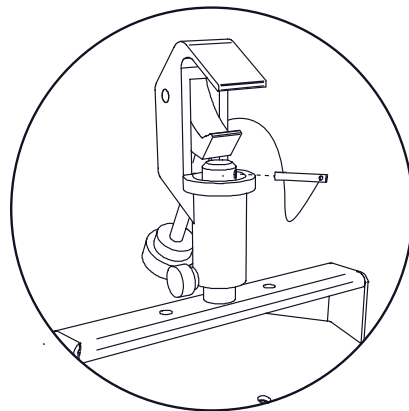


4.1.4 Installation and Use of the TV-Style Clamp with TV Spigot

- Screw the "TV spigot 20 mm" with a self-locking nut incl. washer into the middle drill hole of the bracket.
- Push the TV-style clamp as far as it will go over the TV spigot.

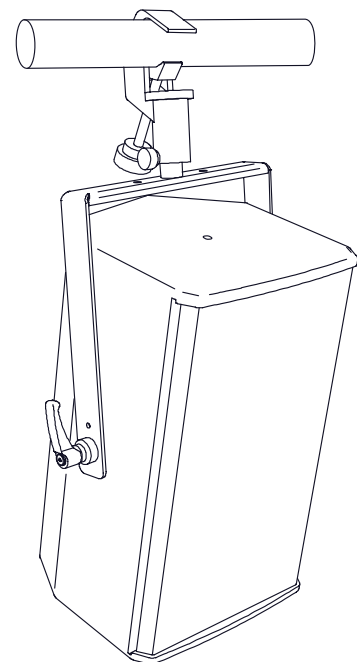


- Secure the TV-style clamp using the cotter pin on the chain.
- Pull the TV-style clamp up until it catches so that the flange of the TV-style clamp prevents the cotter pin from slipping out.
- Tighten the hand wheel A slightly.



Hand wheel A

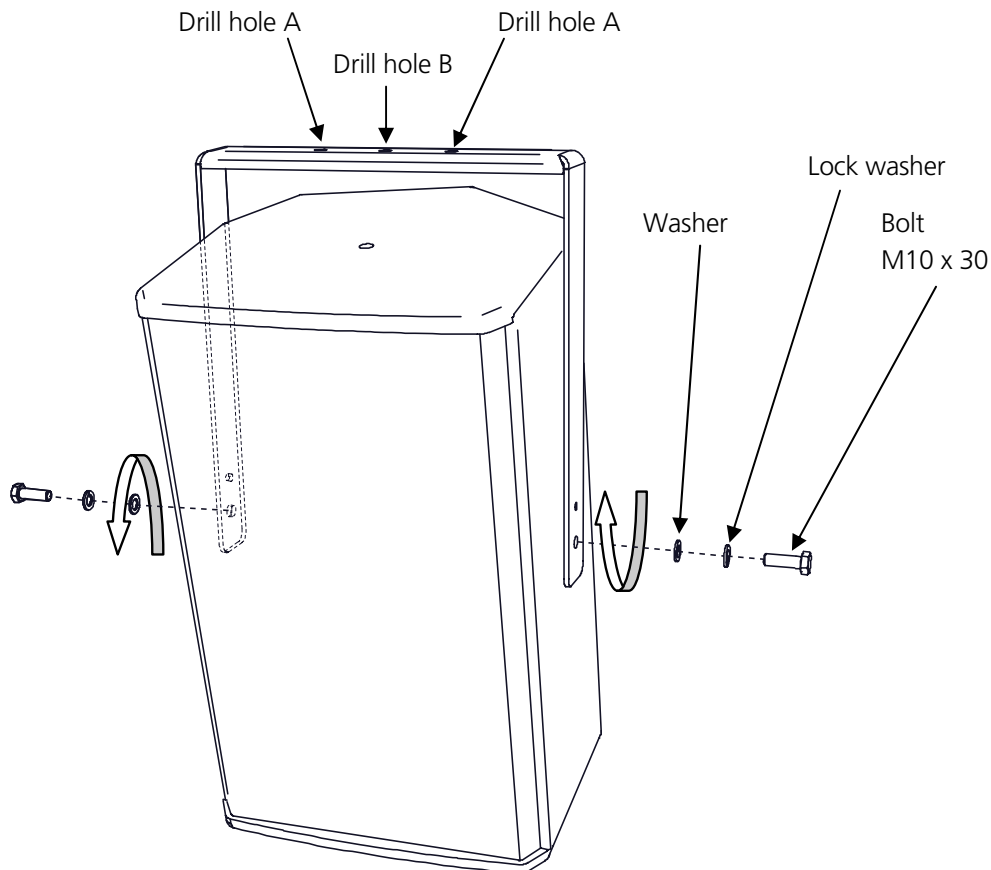
- Mount the TV-style clamp and the installed bracket/speaker on a tube with a diameter between min. 30 mm and max. 50 mm.
When installing, take measures to prevent falling of the speaker and ensure that nobody is under the range of a potential fall.
- Adjust the speaker as desired. The TV spigot may only be loaded in the vertical axis.
- Tightly screw both handles of the TV-style clamp when setting the speaker.
- Secure the speaker with a second independent mechanism to prevent falling (safety wire rope).
- The safety instructions of the equipment carrier and the utilised fastening material must be read carefully regarding the use and load capacity!



Warning

4.2 Adjustable Speaker Mount 'Installation' CA 1001

- Fasten speaker mount to speaker using bolts M10 x 30 incl. washers and lock washers as shown on illustration. Do not tighten the bolts all the way for the time being.
- Adjust the speaker as desired.
- Tighten the bolts.



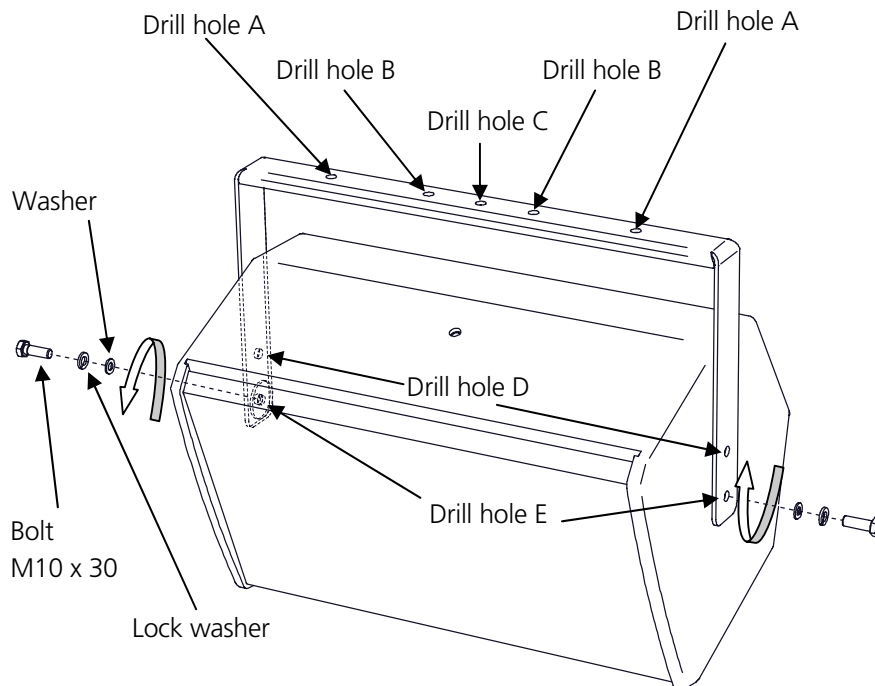
- A TV spigot 20 mm can be attached to drill hole B of the bracket using a self-locking nut and washer.
- A Stand Adapter can be mounted at the drill holes A using bolts and nuts. Always secure all screwed connections so that they cannot loosen on their own.
- When mounting directly on the ceiling, use at least both drill holes A. Follow instructions in Chapter 5, Instructions for Ceiling and Wall Installation!

The adjustable speaker mount is not suitable for wall installation. For these installations, use the wall mount bracket CA 1001.



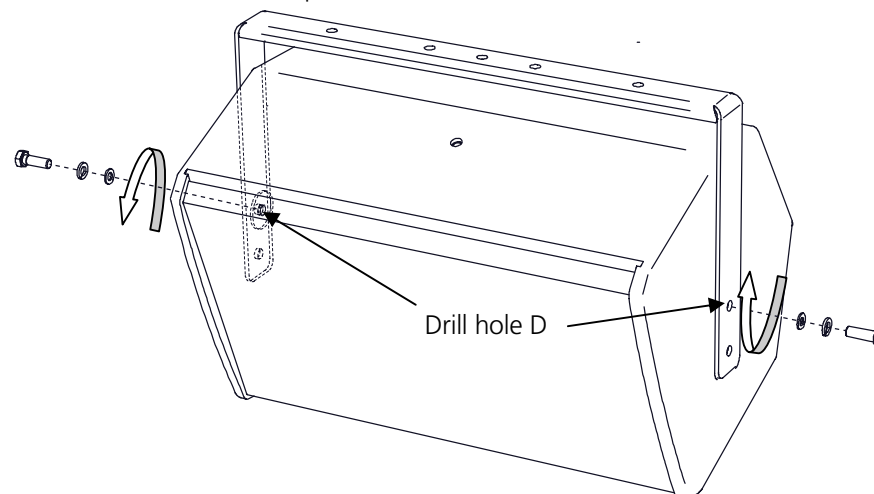
4.3 U-Mount CA 1001

- Fasten U-mount to speaker using bolts M10 x 30 incl. washers and lock washers as shown in illustration. Do not tighten the bolts all the way for the time being.
- Adjust the speaker as desired.
- Tighten the bolts.
- Always secure all screwed connections so that they cannot loosen on their own.



- When mounting directly on the wall or ceiling, use at least both **drill holes A**. Follow instructions in Chapter 5, Instructions for Ceiling and Wall Installation!
- A stand adapter can be mounted at the **drill holes B** using bolts and nuts. Always secure all screwed connections so that they cannot loosen on their own.
- A TV spigot 20 mm can be attached to **drill hole C** of the bracket using a self-locking nuts incl. a washer.

If there is not much space (i.e. low ceilings), the **drill holes D** can alternatively be used to mount the bracket to the speaker:



5. Instructions for Ceiling and Wall Installation

Before carrying through ceiling and wall installations, it is essential to consider the load capacity of walls, ceilings and panelling as well as the stability and type of the construction. If there is wall panelling, for example, it is then necessary to examine the solidity of the wall and use the appropriate wall plugs.

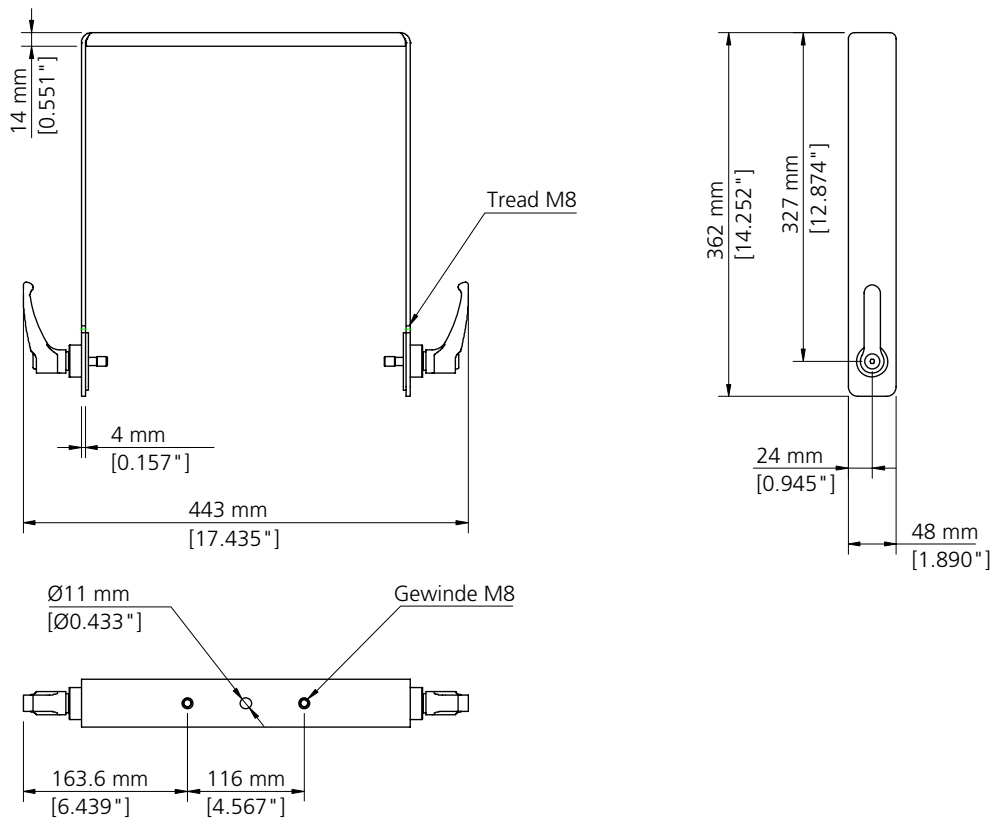
When installing on ceilings and walls, only the mounting drill holes which are specified in the manual may be used.

Make sure to comply with the stipulated tightening torques.



6. Basic Dimensions, Weights and Load Capacity

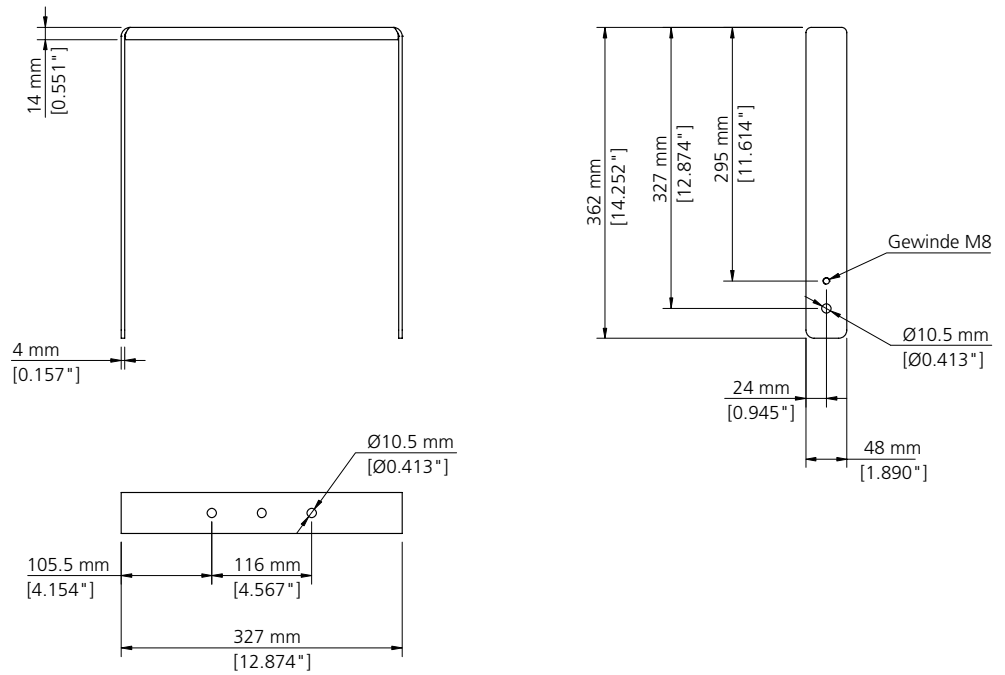
6.1 Adjustable Speaker Mount CA 1001



Weight: 2.0 kg

Safe Working Load (SWL): 22 kg

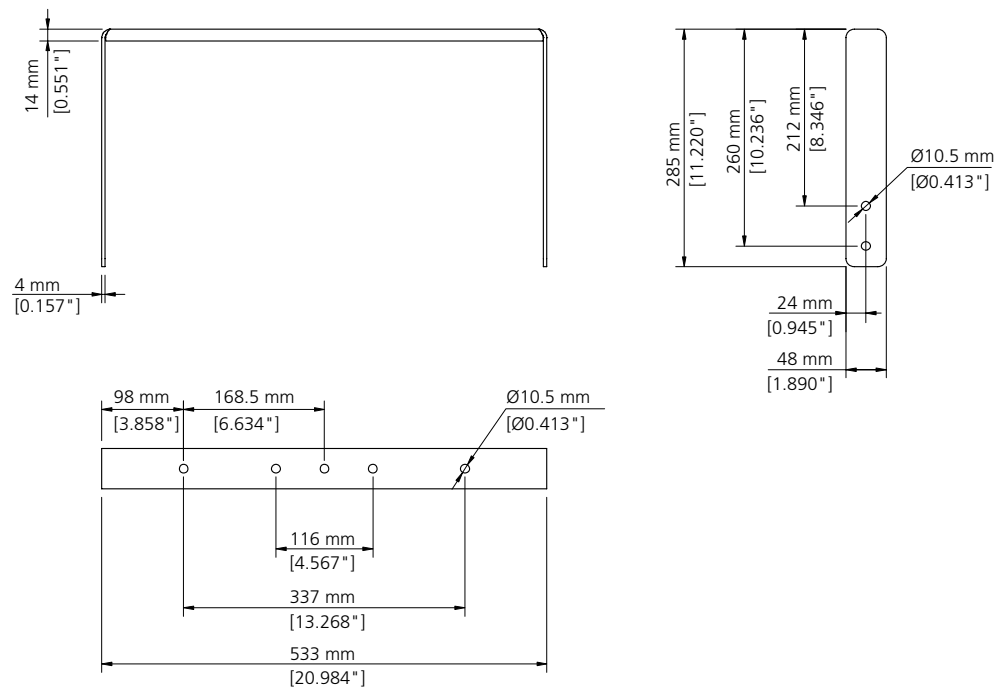
6.2 Adjustable Speaker Mount 'Installation' CA 1001



Weight: 1.8 kg

Save Working Load (SWL): 22 kg

6.3 U-Mount CA 1001



Weight: 1.9 kg

Save Working Load (SWL): 22 kg