

FEATURES

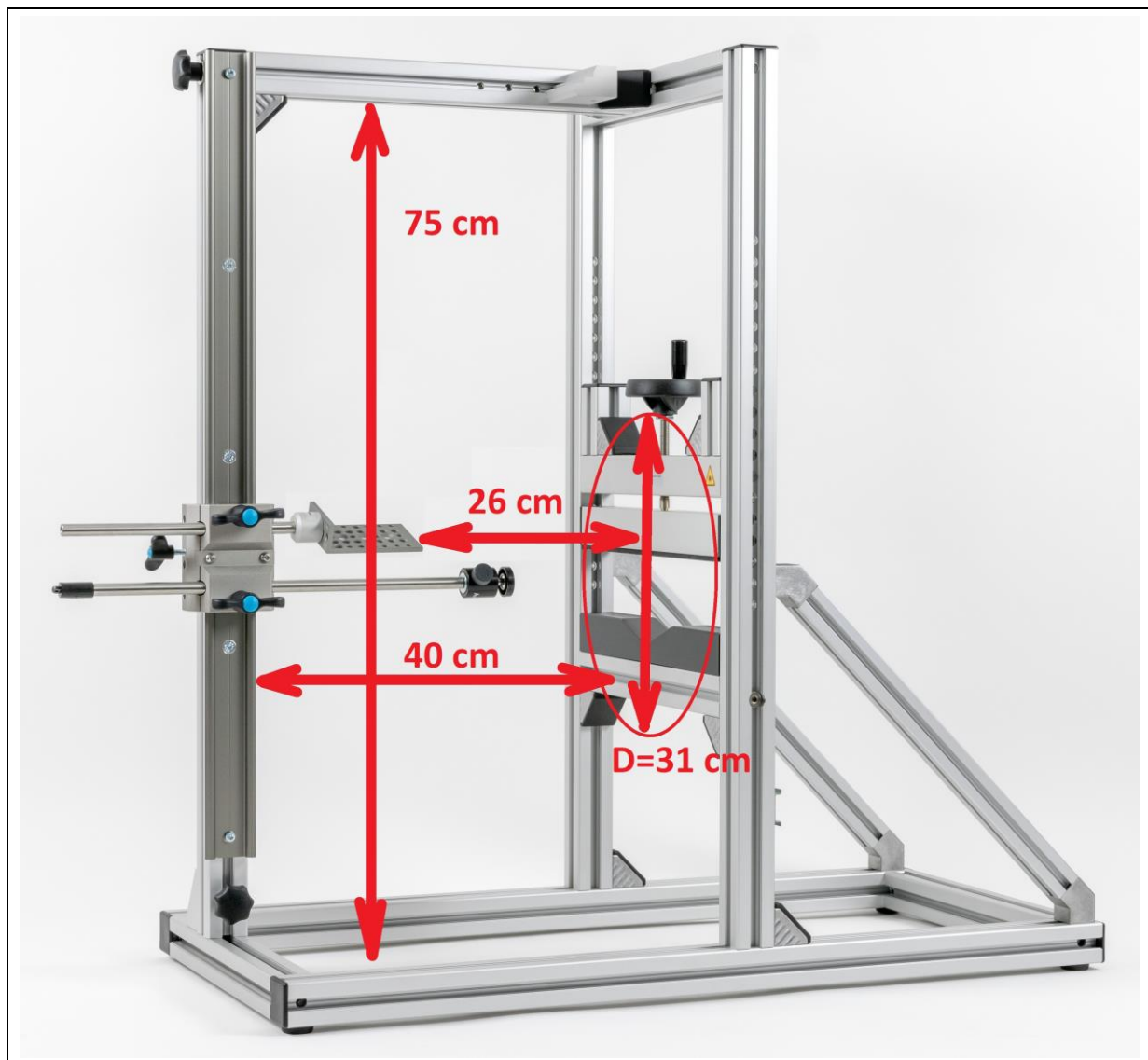
- Rigid mounting of drivers in vertical position
- One-hand operation
- Holds various displacement sensors and microphones for near field measurements
- Fast sensor adjustment in vertical and horizontal position and rotating in two axis
- Made of nonmagnetic material
- Integrated spacer for laser calibration
- Removable sensor guide
- Useful accessory for driver measurements

Article Numbers: 2211-100

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1 Specification and Dimension



| | |
|---|--|
| Dimensions | 85 x 85 x 41 cm (34 x 34 x 17 inch) |
| Weight | < 18 kg |
| Max. diameter of driver magnet (used for clamping) | 31 cm (12 inch) |
| Max. diameter of driver's frame | 75 cm (30 inch) |
| Max. distance from speaker clamping to laser sensor | 26 cm (10.2 inch) |
| Max. distance from speaker clamping to frame | 40 cm (15.5 inch) |
| Finish | anodized aluminum |
| Material | aluminum and stainless steel |
| Type of applicable sensors | Microphone and / or laser displacement sensor |
| Sensor adjustment | Vertical, horizontal, 360° rotation |
| Type of drivers | Woofers, mid-range drivers and tweeters |
| Position of driver | Main radiation axis points in horizontal direction |
| Radiation condition | Free air |

2 Assembly

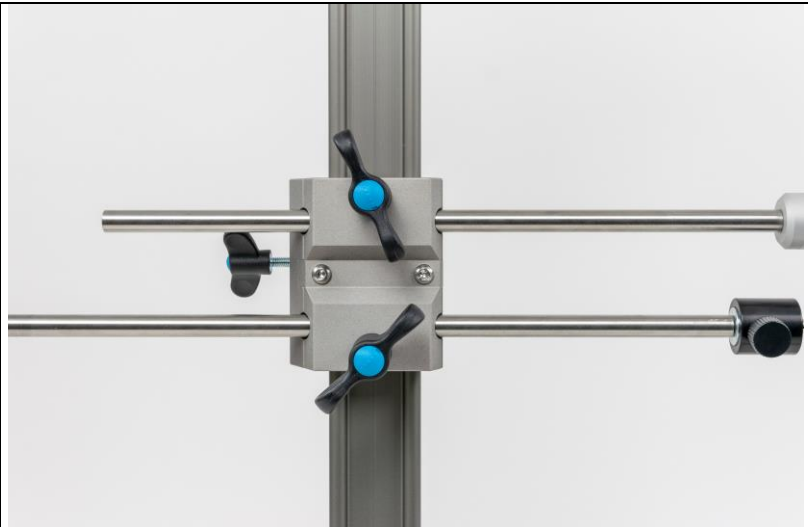
The stand comes in pre-mounted parts (traverse with feet, sensor guide, driver clamp) and can be set up in a few minutes.

3 Function

Precise sensor adjustment

The slide carrying the sensor bars are guided on lubrication free plastic sliders running on a hard anodized aluminum rail.

The clearance of the slider could be adjusted.



Removable sensor guide

The complete sensor guide may be removed by loosening two screws. This is convenient when big drivers have to be set into or removed from the stand without changing the position of the laser and microphone.



Rigid clamping of the driver

The lower clamp has a rest with three different shapes. This makes it easy to mount the driver in the same center position.

V-shaped for woofers with big magnets

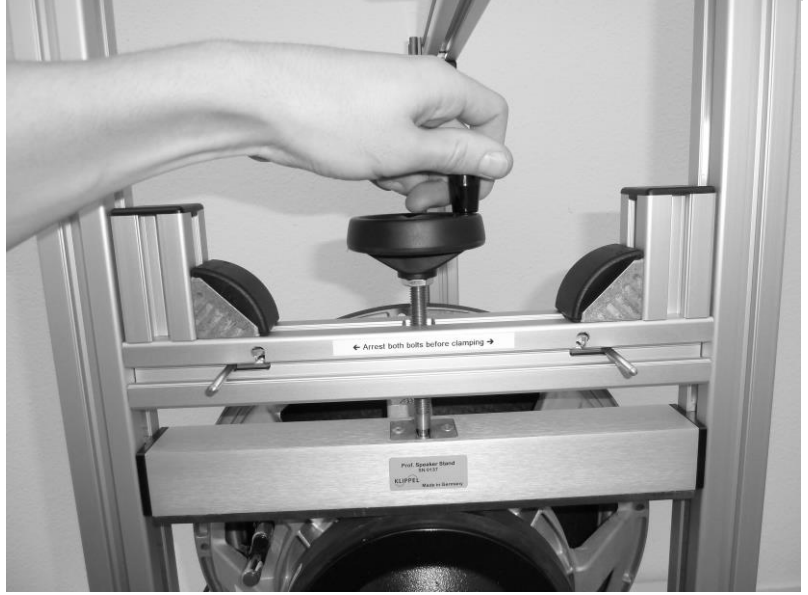
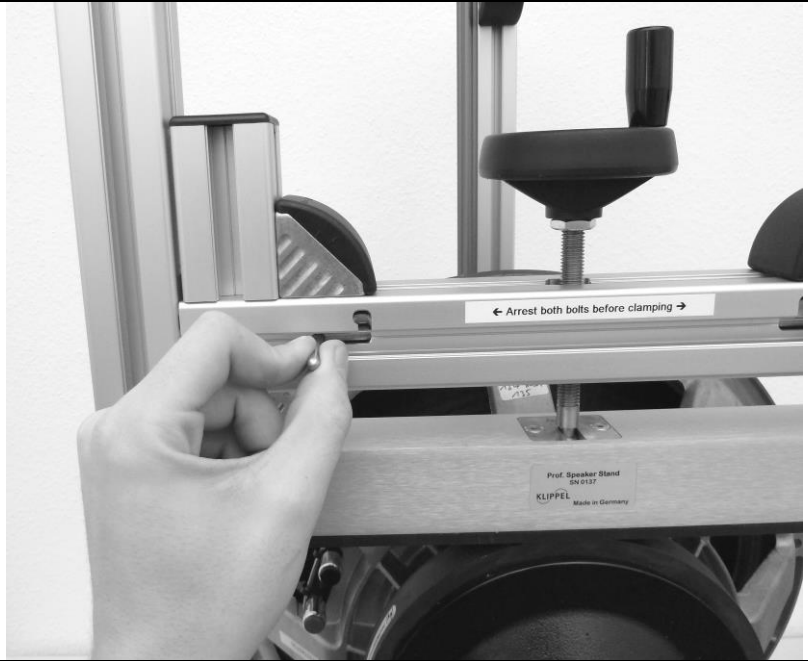
V-shaped for mid-range transducers, tweeters, multimedia transducers with smaller magnets

Plane for rectangular and other irregular shaped objects



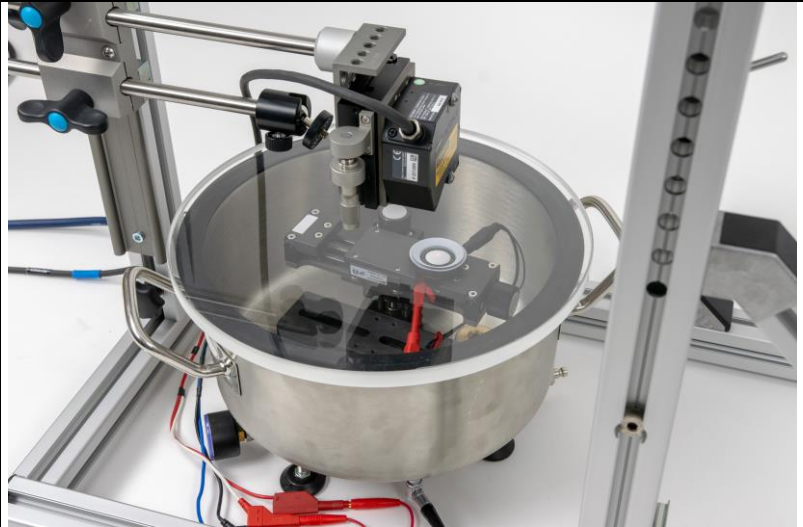
One-hand operation

While holding the driver in one hand the cross bolts may be released by the other hand. Then the driver is clamped by using the center wheel.

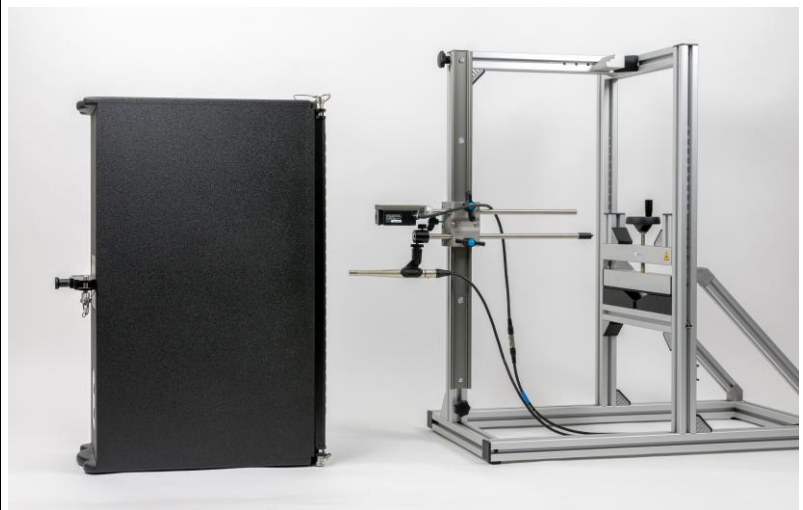


Orientation

The stand supports the operation of the laser sensor in horizontal (default) and vertical direction, e.g. for vacuum measurements with the additional vacuum measurement chamber.

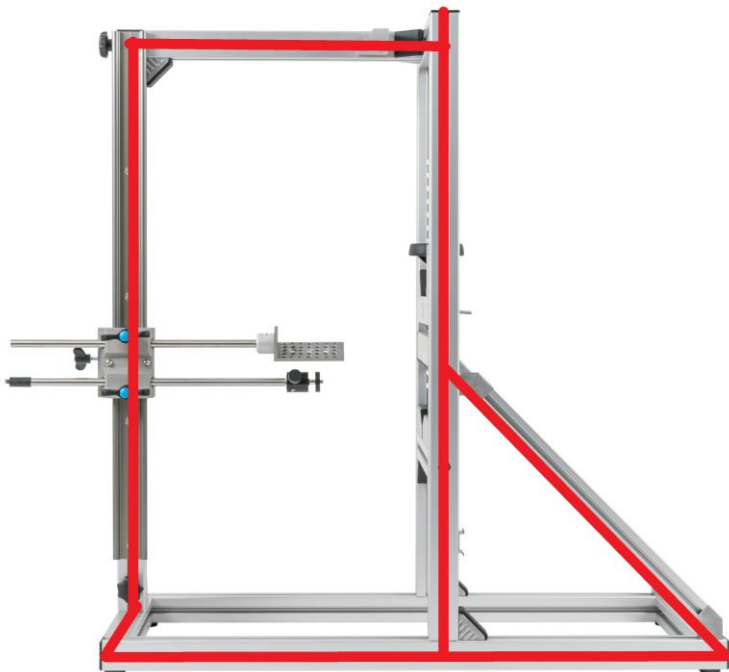


The stand supports the operation of the laser sensor in horizontal (default) and vertical direction, e.g. for vacuum measurements with the additional vacuum measurement chamber. The stand could also be used to position sensors to external test objects.



Low vibration

Although the stand can easily be moved it gives a rigid hold of driver by using a rigid aluminum profile (40 mm x 40 mm). The diagonal crossbeam reduces the vibration of the driver frame. The vertical rail for the sensor guide is linked at the top and bottom with the driver clamp to measure displacements relatively to the frame and to compensate for residual vibration.



Laser calibration

For laser sensors with more than +/- 12 mm measurement range:

The included calibration spacer offers 10 mm stairs and is incorporated into the professional driver stand to avoid calibration errors due to tilting. The accuracy of the stairs will be $\leq \pm 5 \mu\text{m}$.



For laser sensors with less than +/- 12 mm measurement range a Translation Stage with a high-resolution micrometer is a required accessory for calibration.

Even for high-resolution laser sensors with more than +/- 12 mm measurement range the Translation Stage could increase the calibration accuracy. See Laser Displacement Sensors specification A2.

Spare parts

For customization, for updating older Pro Driver Stands and for exchanging worn out mechanical parts Pro Driver Stand spare parts are available. See Pro Driver Stand Manual.

Find explanations for symbols at:

<http://www.klippel.de/know-how/literature.html>

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