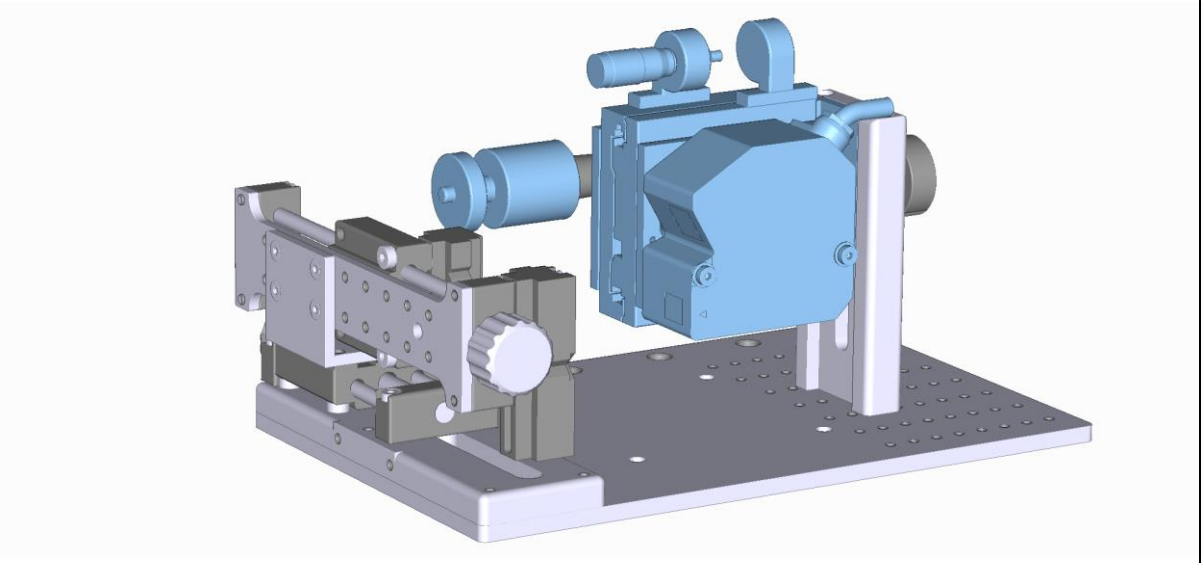
Micro Speaker Clamping **A10**

FEATURES

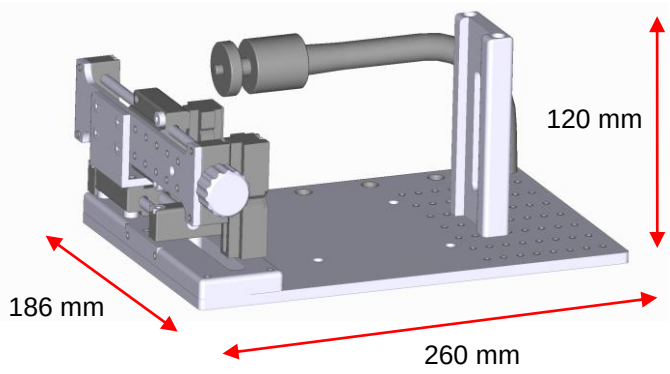


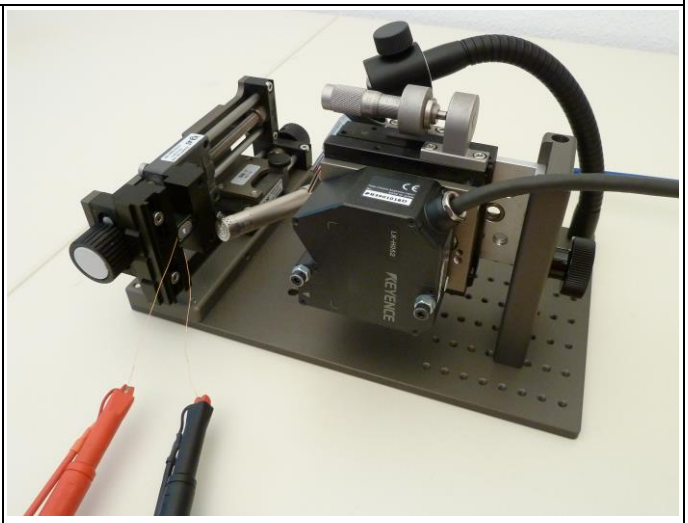
- Compact, transportable, multifunctional transducer measurement platform
- For Micro Speaker, Headphones, Tweeter and any transducer up to 100 g
- Solid but adjustable mounting of laser displacement sensors and measurement microphones
- Different DUT clamping options available
- Can be easily modified to own applications, many additional mounting threads are present
- Can be used with a wide range of laser sensors
  Optimized for KEYENCE LK-H052
- Horizontal laser measurement position on the DUT can be continuously accurately positioned by manual linear adjustment.
- Vertical laser measurement position on the DUT can be continuously positioned on the laser mounting slider
- Distance between DUT and laser sensor can be continuously accurately adjusted by optional available TRANSLATION STAGE with MICROMETER SCREW (shown in blue) or on the 10 mm grid on the ground plate.
- Can be modified to a Vacuum Stand to fix loudspeakers during measurement and adjust its height close to the glass cover of the vacuum chamber
- Can be used to fix loudspeakers at the SCN turntable during Scanning Vibrometer measurements or other RnD measurement tasks

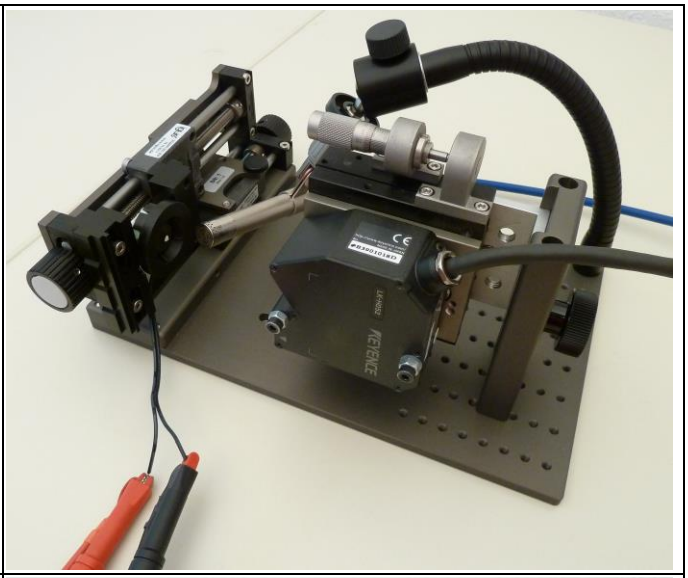
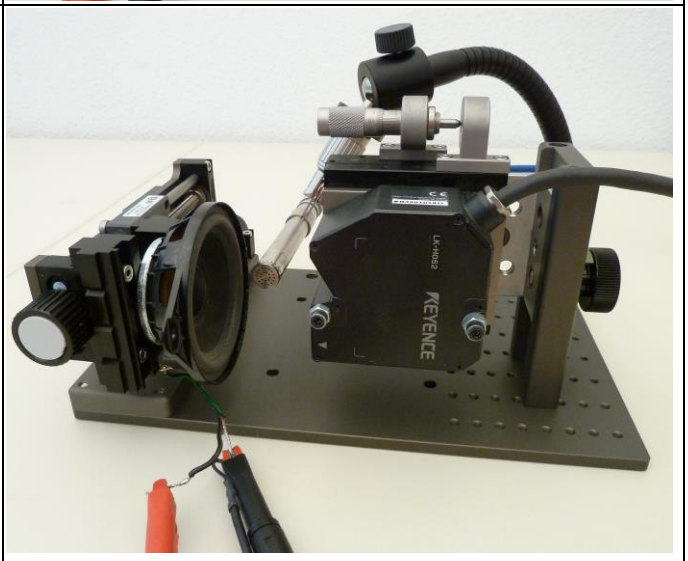
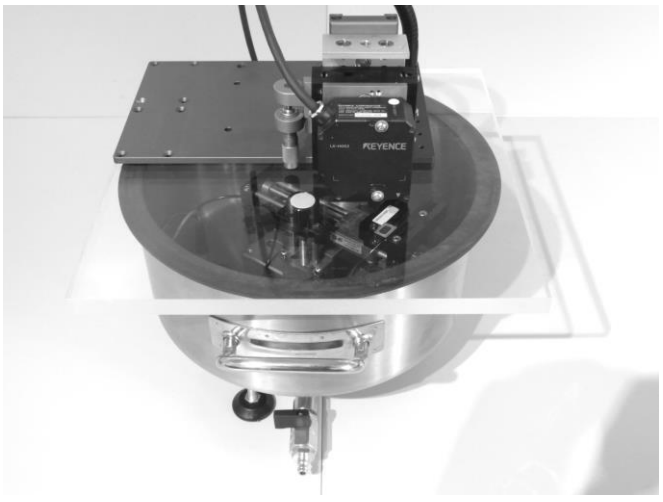
PLEASE NOTE: the TRANSLATION STAGE with micro adjustment and Laser Sensor Head illustrated in blue are not included in the MICRO SPEAKER CLAMPING package.

Article Numbers:

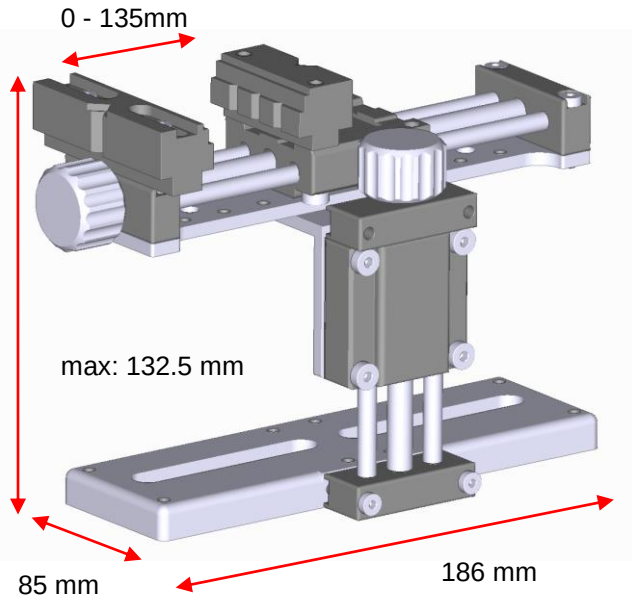
• Micro Speaker Clamping	2211-003	(includes Vacuum Stand)
• Vacuum Stand	2211-004	(without Micro Speaker Clamping)

FUNCTION				
Dimensions (without laser, mic and DUT)	260 x 185 x 120 mm (10.24 x 7.28 x 4.72 inch)			
Weight (without laser, mic and DUT)	< 1.80 kg			
Finish	anodized aluminum & plastics			
Material	• aluminum • stainless steel • POM – plastic (Polyoxymethylene) for brackets • SHT-Polymer plastic for linear actuator			
Clamping travel	0 – 135 mm			
External dimensions	width depth heigth without laser max. height with laser	260 mm 186 mm 120 mm 170 mm		
Accessories (not included)	Keyence Laser Sensor LK-H052		Klippel article number	2102-030
	Translation Stage			2100-001
	Microphone		Different microphones can be used depending on the application. See specification “A4 – Microphones” for available microphones.	

APPLICATION FIELD FOR MICRO SPEAKER CLAMPING	
Micro Speaker Clamping with: • Microspeaker • Microphone • Laser KEYENCE LK-H052 • Translation Stage	

Micro Speaker Clamping with: • Speaker (∅ 3,8 cm, 35 g) • Microphone • Laser KEYENCE LK-H052 • Translation Stage	
Micro Speaker Clamping with: • Speaker (∅ 8 cm, 105 g) • Microphone • Laser KEYENCE LK-H52 • Translation Stage Depending on size, shape, material, and weight of the DUT customized clamping brackets could be helpful. The brackets can be easily exchanged.	
Micro Speaker Clamping with Vacuum Chamber: • The Vacuum Stand can be used to adjust the distance between DUT inside the Vacuum Chamber and the glass plate (Laser Sensor outside). • The platform from the Micro Speaker Clamping can be used to place the laser sensor above the DUT at the Vacuum Chamber.	

Vacuum Stand (modification of the Micro Speaker Clamping or available on its own)

FUNCTION			
Dimensions (without DUT)	185 x 85 x 135 mm (7.28x 3.35 x 5.31inch)		
(without DUT)	< 0.65 kg		
Finish	anodized aluminum & plastics		
Material	• aluminum • stainless steel • POM – plastic (Polyoxymethylene) for brackets • SHT-Polymer plastic for linear actuator		
Clamping travel	0 – 135 mm		
Height travel	58 to 132.5 mm over ground		
External dimensions	width min. depth max. depth min. heigth max. heigth	186 mm 72 mm 92 mm 116 mm 132.5 mm	

APPLICATION FIELD FOR VACUUM STAND	
Vacuum Stand in the vacuum pot with: • Micro Speaker Height adjusted to glass plate for laser measurements from outside	

Vacuum Stand mounted on the Scanning Vibrometer turntable:

- For DUT clamping during Scanning Measurements
  and
- All other RnD measurements for small sized speaker if the Scanning Vibrometer is used as Laser stand.