

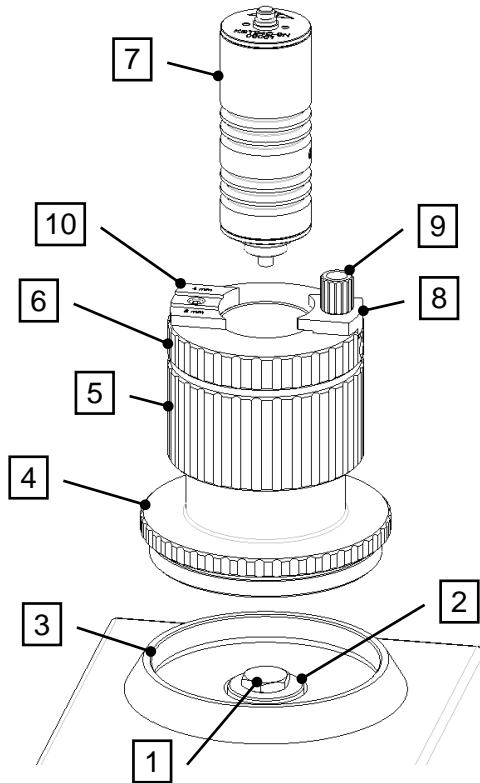
Use of the calibration adapter KST94-CA

The calibration adapter KST94-CA is used to calibrate the probe accelerometer KST94C-xN with the vibration calibration system VC120.

The adapter ensures the proper sensor fixation and coupling on the calibrator VC120 and setting up the desired probe position.

The calibration adapter KST94-CA can be used within a frequency range from 100 Hz to 10 kHz. Please notice that there will be an additional error of max. -1% at lower frequencies.

Assembly



Mounting the calibration adapter on the VC120

1. Please mount the coupling pad (1) on the shaker armature (2). Use silicon grease between the coupling surfaces to improve coupling and protect the surface from damaging.
2. Clean the coupling pads surface (1).
The coupling of the KST94C probe accelerometer at high frequencies will be affected by grease on the surfaces. Therefore, we recommend to clean the surfaces before use to ensure proper coupling and comparable measuring.
3. Please mount the calibration adapter KST94-CA within the thread ring (3) and fix it at the adapter base (4) by hand.

Adjustment of probe position

1. Please open the fixation of the adapter head holding the adapter head (6) in position and turning the fixation ring (5) counter clockwise.
2. Put the KST94C probe accelerometer (7) into the adapter hole without closing the lock bar (8).
Please clean the probe of the accelerometer before use to ensure proper coupling and comparable measuring at high frequencies.
3. Increase or decrease the probe position by turning the adapter head (6) clockwise or counter clockwise until the upper edge of the KST94 probe accelerometer is at the desired level of the height scale (10).
One turn of the adapter head (6) is equal to 1 mm probe position change.
4. Fix the adjustment holding the adapter head (6) in position and turning the fixation ring (5) clockwise.

Fix the KST94C probe accelerometer

1. Push up the KST94C probe accelerometer (7) against the calibration adapter.
2. Close the lock bar (8) over the KST94 probe accelerometer (7) and fix the knurled screw (9).

Remove the KST94C probe accelerometer

1. Open the knurled screw (9) for a half turn and slide the lock bar (8) outward.