



Vibraquipo

Vibracord JC-17



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*Calibration system for
velocity and pressure*

Vibracord



Vibracord JC-17

Technical specifications

The *Vibracord JC-17* calibration system is specially designed to calibrate equipment with low frequency response in velocity and pressure. Other magnitudes like acceleration can also be calibrated changing only the reference transducer. The system has 2 shakers (in horizontal and vertical orientation) and a pressure chamber for a fast equipment calibration.

The graphite air bearings of the shakers eliminate the transverse motion

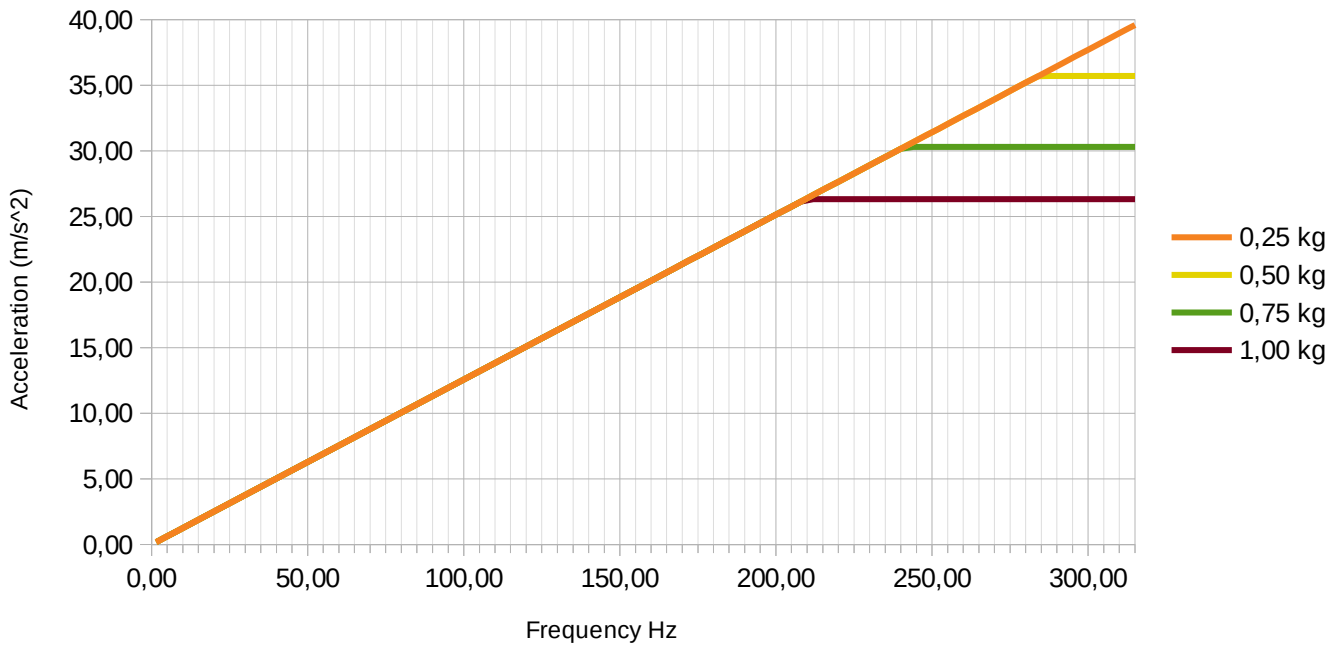
Specifications	Value
Vibration shakers	1 Horizontal 1 Vertical
Pressure chamber	1 chamber
Rated peak force	50 N
Maximum pressure	120 Pa (135 dB)
Frequency range	Vibration: 1 – 315 Hz Pressure: 2 – 500 Hz
Maximum acceleration and velocity.	See the performance charts
Vibration shakers clamping surface	M8 threaded inserts
Pressure chamber fixation (Other diameters upon delivery)	Hole for 18 mm Ø microphone
Power amplifier	Integrated
Vibration and pressure controller	Integrated
Vibration reference transducer	Velocity transducer or accelerometer
Pressure transducer	Low frequency pressure transducer
Power supply	110 / 240 VAC (600 W)

Vibracord SC-18

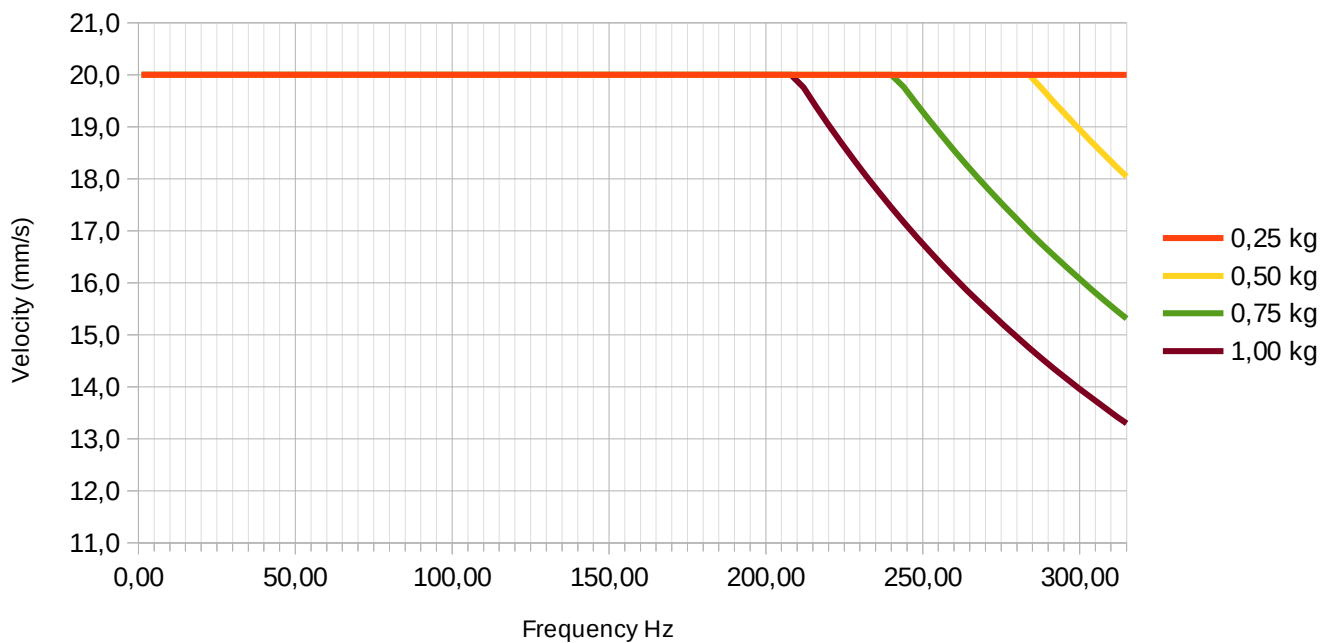
Performance charts



Maximum Acceleration - Vertical Axis



Maximum velocity - Vertical Axis

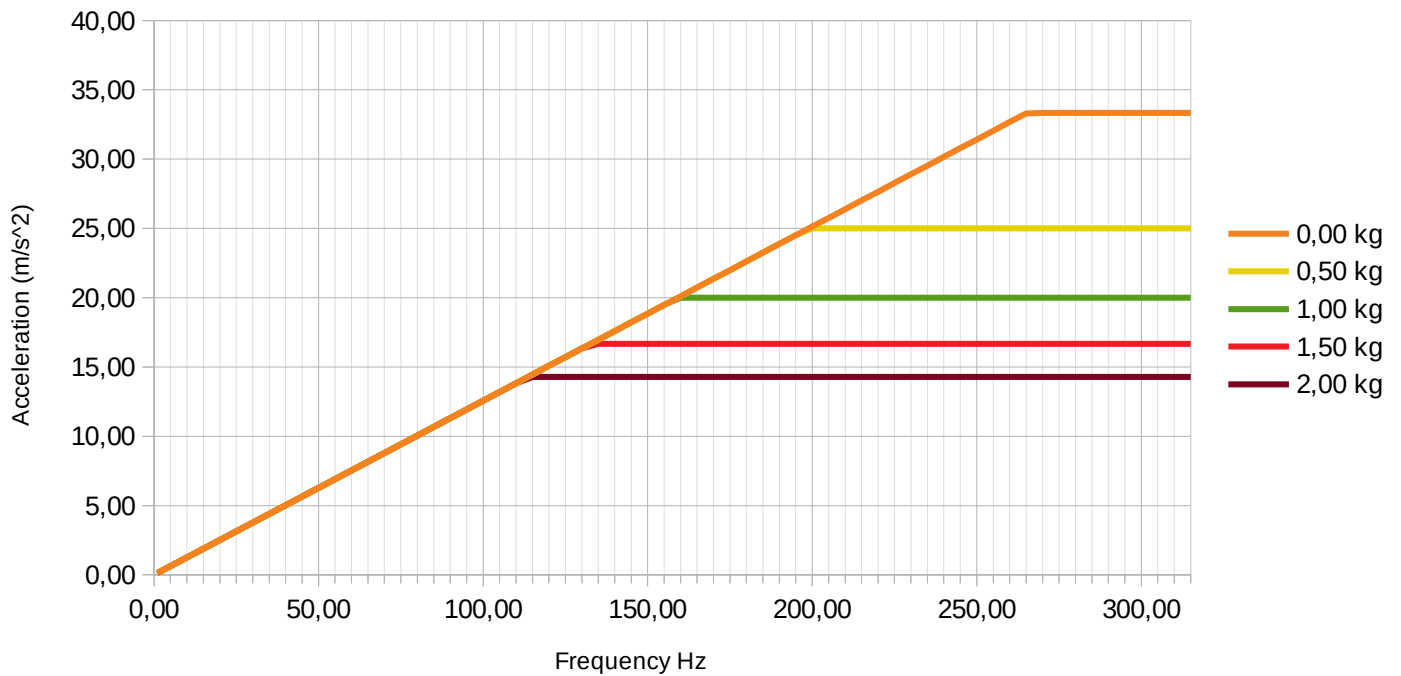


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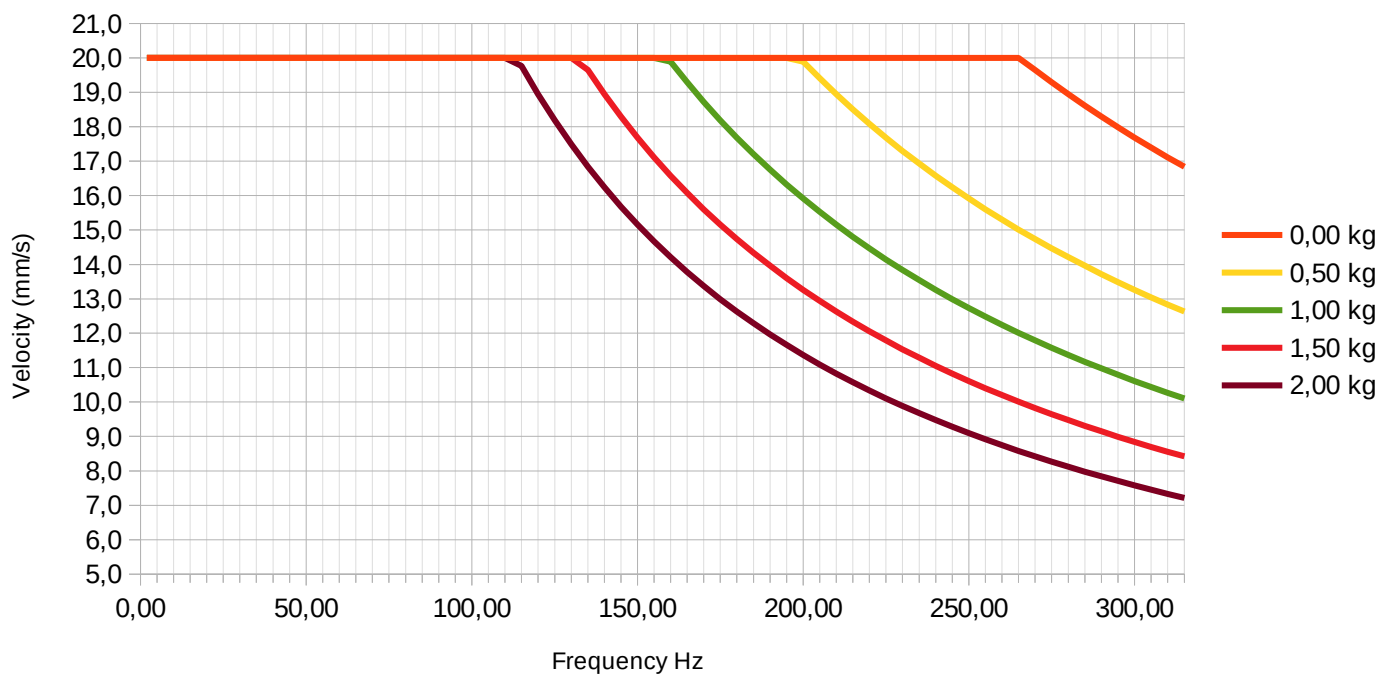
Performance charts



Maximum Acceleration - Horizontal Axis




Maximum velocity - Horizontal Axis




Vibracord SC-18 Software

The software has been designed to comply with the requirements of the ISO-17025 standard. A powerful report generator is implemented to save time and avoid errors.



Shaker Controller JC-17
Vibraquipo, S.L.U.
www.vibraquipo.com




Start Test

Edit Test

Delete Test

New Test

	Procedure	Description
1	IT-4.7.1_Peak_10_mm_s	Calibration in velocity peak at 10.00 mm/s
2	IT-4.7.1_RMS_10_mm_s	Calibration in velocity RMS at 10.00 mm/s
3	IT-4.7.3-Pressure_50Pa	Low frequency sound calibration at 50.00 Pa (Peak) - Amplitude
4	IT-4.7.3-Pressure_50Pa_Sens	Low frequency sound calibration at 50 Pa (RMS) - Sensibility



Equipment Data base

System Configuration

Transducers Data base

Shaker Calibration

Utilities

Info

AMPLITUDE

5.00 10.00

15.00 18.00

Set other amplitude

FREQUENCY

1.00 1.25

2.00 4.00


8.00 16.00

32.00 64.00

125.00 159.16

250.00 315.00

Set other frequency



Frequency:

1.00 Hz

Amplitude:

10.00 mm/s

Status:

Peak + -


Peak - -

Peak-Peak -

RMS -

Drive 0.0 %

Not running



Start Shaker 1 Vertical

Start Shaker 2 Horizontal

Start Shaker 3 Pressure

Start External Shaker

Report generator

Certificate of calibration:

Language:

Start on page:

Current page number:

CMC:

U(y) Assigned to repeatability (%):

U(y) Assigned to the DUT: (mm/s)

Other Uncertainty (%):

	1	2	3	4	5	6	7	8	9	10	U(y)

Note: U(y) is expressed in mm/s

Amplitude given by the DUT:

IT-4.7.1_Peak_10_mm_s
October, 27 - 16:27:48