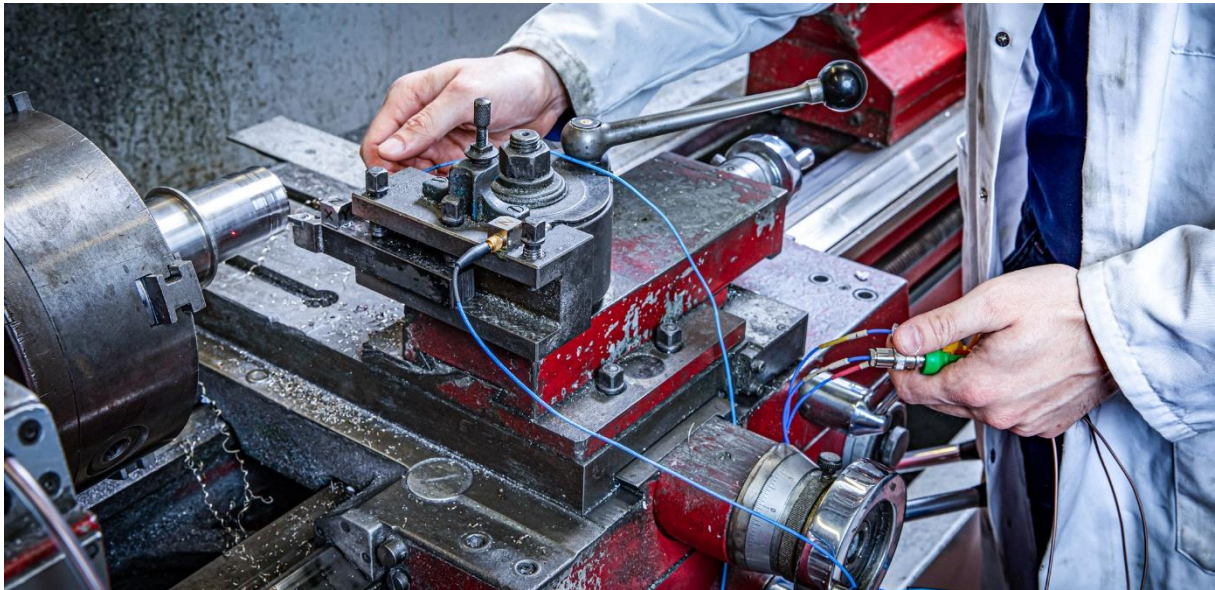


## PORTABLE MODAL ANALYSIS SETUP



*Location: FlandersMake@KULeuven*

### DESCRIPTION

The portable modal analysis setup includes portable exciters, vibration sensors and data acquisition systems. It allows the experimental analysis of the vibrational modes of mechanical structures. The output of the test is the set of modal frequencies, deformation shapes and damping factors related to the investigated structure. This information is useful in the design phase to avoid resonance amplifications and to validate dynamic models.

## TECHNICAL SPECIFICATIONS

Data acquisition system and signal generator	
Type	Simcenter Scadas
Bandwidth	102.4 kHz
ICP 3D Accelerometers	
Type	PCB 356A15
Measurement range	+/- 50 g peak
Frequency range	2- 5000 Hz
ICP 1D Accelerometers	
Type	PCB 352A24
Measurement range	+/- 50 g peak
Frequency range	1- 8000 Hz
Impedance head	
Type	PCB 288D01
Measurement range (force)	222.4 N peak
Measurement range (acceleration)	+/- 50 g peak
Frequency range	1 - 5000 Hz

Electrodynamic shakers	
Type	The Modal Shop 2100E11
Output force (max)	440 N
Frequency range	DC - 5400 Hz
ICP Instrumented hammers	
Type	PCB 086C03 and PCB 086C41
Measurement range	+/- 22.24 kN peak

## OUR OFFER

With our setup we offer:

- Experimental analysis of vibrational modes (from resonance identification to full modal analysis).

## INTERESTED?

Contact [contact\\_DMMS@flandersmake.be](mailto:contact_DMMS@flandersmake.be) for more information.