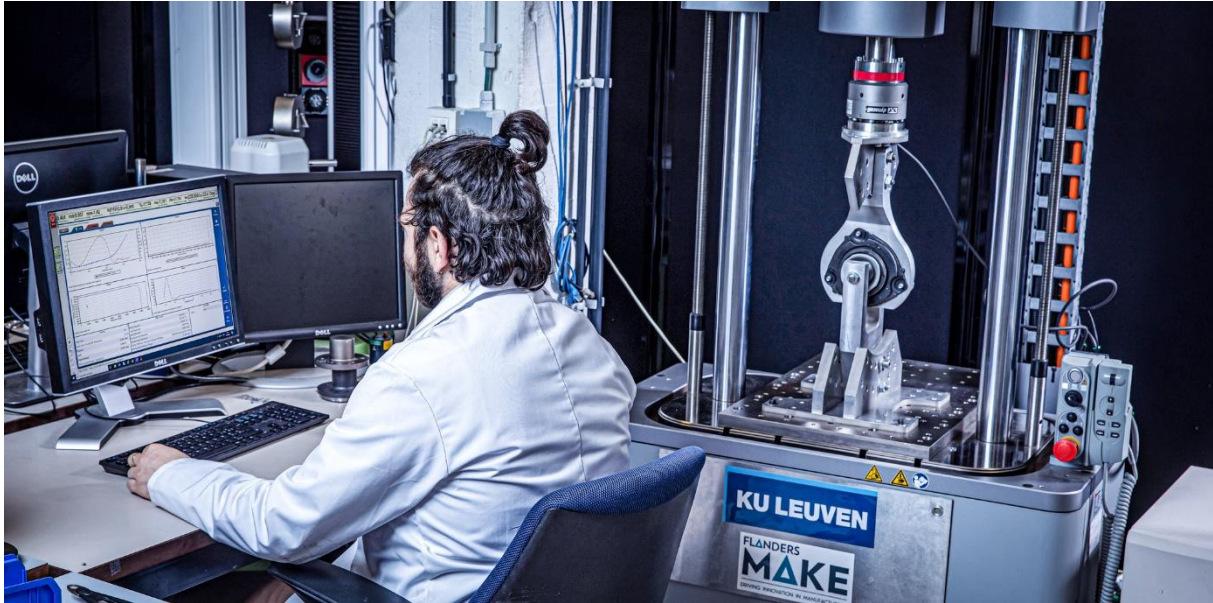


BUSHING CHARACTERISATION



Location: FlandersMake@KULeuven

DESCRIPTION

Bushings come in various shapes and are loaded in various manners. To characterise bushings in different operational regimes, multiple test systems are available that are composed of different subsystems to allow versatile testing conditions.

These subsystems can be summarized in three main categories:

1. High precision **mono- or multi -axial shakers**: Allows to generate the desired excitation source in time and frequency domains.
2. **Tailored jigs**: Allows to interchange the connection interfaces for various bushing components/systems and operational configurations.
3. Highly accurate **6 DOF force transducers**: Allows to accurately measure 6 DOF output forces and capture the non-negligible coupling effects among the different DOF in static and dynamic conditions.

NVH & DURABILITY TESTING

TECHNICAL SPECIFICATIONS

	MONO-AXIAL SHAKER	MULTI-AXIAL SHAKER
Working Range	0-100 Hz	0-300 Hz
Dynamic Force Rate	±10 kN	±82 kN
Static Force Rate	±7 kN	500-1000 Kg
Stroke	60 mm (2.36 in)	101.6 mm vertical and 50.8 horizontal
Actuation system	Electrical	Hydraulic
Connecting jigs configurations	The connecting jigs can be tilted in six configurations: <ul style="list-style-type: none">• 0°, 10°, 15°, 20°, 25°, 30°• Ad-hoc jigs configurations can be additionally manufactured.	

OUR OFFER

Using this test infrastructure, we offer:

- SIMO and MIMO static and dynamic testing.
- Component and system level testing and characterisation.

INTERESTED?

Contact contact_DMMS@flandersmake.be for more information.