RIS
RUBBER

Static testing up to 2,000 tons

RIS Rubber has some of the most advanced testing facilities available. We invest in testing technology, because it contributes to a rapid and cost-effective development process. Our customers consequently benefit from a better product and lower costs.

Results set out in a test report
Our testing involves simulations of practice circumstances using factors such as force, displacement, temperature and frequency. By virtue of these testing methods we can assess beyond doubt whether products will meet the pre-determined requirements and can be safely applied in practice. Every test is accompanied by an extensive test report.

Testing facilities
Using no fewer than four test benches, we can respond to any test demand rapidly and professionally; both static and dynamic testing. All test benches have been calibrated by an external agency, which is why we can also perform tests for third parties..

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Testing facilities

RIS Rubber can provide the facilities to have your product tested both statically and dynamically.

Static testing

Static testing is carried out for molded rubber products that will be immobile in use and on which a certain force is to be exerted. Spring stiffness is an essential element of static testing. Using a test bench, we can measure the static properties of a product, such as its axial, radial, torsion and cardanic stiffness.

Loads can be exerted at any speed required. We can perform static testing up to 2,000 tons, with dimensions up to 1,700 x 1,700mm as a maximum.

Please find below the specifications of our three testing benches:

	Maximum force	Maximum build-in height	Maximum plate surface
Testing bench no. 1	200 kN (20 tons)	530mm	540 x 540mm
Testing bench no. 2	10 MN (1,000 tons)	490mm	750 x 750mm*
Testing bench no. 3	20 MN (2,000 tons)	800mm	1,200 x 1,200mm**

* can be extended up to 1,700 x 1,700mm

** can be extended up to 1,400 x 1,400mm

Dynamic testing

Dynamic testing is applied for molded rubber products that will be moving. Damping of vibration and the degree of heat development are, among other things, essential elements of dynamic testing. We subject our products to pressure force and tensile force on our dynamic test bench to measure the maximum loadings of the molded rubber products.

RIS Rubber has one dynamic testing bench with the following specifications:

Maximum build-in height:	1,500mm
Distance between the columns [W]:	560mm
Load cell range:	+/- 100 kN
Frequency:	25 Hz*
Amplitude:	75mm [Total stroke = 150mm]
Range of temperature sensor:	0 - 200°C

* frequency level depends on force and amplitude

CAD package
RIS Rubber makes use of the 3D Solid Works software package (version 2017).

FEM software package
RIS Rubber operates a Finite Element Method (FEM), which is suitable for non-linear behaviour. We operate Siemens software (Femap + NX Nastran).