

Technology in step with the times and a successful collaboration with Inova

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Technology is becoming more and more individual and sophisticated. In doing so, it reacts to changing framework conditions, specific needs and increasing quality standards. BINDER is improving its CO₂ incubators, Shimadzu is rushing ahead with new microhardness testers and is providing you with application reports that deal with testing of mechanical properties of asphalt. Using an exemplary collaboration between the customer, Inova and TeMeCo, you will also learn more about a 16kNm torsion testing machine.



BINDER CB260 CO₂ incubators – for our customers in the biology and medical technology sector

The BINDER CB series CO₂ incubator is the premium class among the CO₂ incubators. It is suitable for all sensitive incubation applications and ensures optimal cell growth. A BINDER CB series CO₂ incubator can perform complex cultivation experiments as well as specific environmental conditions.

Benefits:

- Maximum usable space with minimal footprint and excellent ease of use
- Minimum risk of contamination thanks to uncompromising hot-air sterilization
- Fanless, easy-to-clean hygienic interior without fixtures
- Stable pH values thanks to drift-free CO₂ IR sensor technology
- Low evaporation of the medium due to high levels of humidity and quick recovery time



Your test machine as desired

We know it in particular from cars, fashion and furniture: the individual configuration of products and features that reflect your own wishes and needs in personal use.

In the business world in particular, application-specific products support the efficiency of work steps and processes. Shimadzu has now put the Test Machine configurator on its website to allow users to configure their own test device as they wish:

<https://www.shimadzu.com/an/test/tmc/>

With a click of the mouse, the material to be tested, the test method, the dimensions of the sample, the test force of the test machine, the temperature, etc. can be selected from a wide range of options. In this way, users approach a tailor-made test machine and can also try out alternatives in order to take pointedly advantage of Shimadzu's product advice.



Successful teamwork between customer, Inova and TeMeCo during the installation of a 16kNm torsion testing machine

The recently completed installation of a dynamic, servo-hydraulic 16kNm torsion testing machine shows the particular strengths of Inova and TeMeCo.

The testing machine is used to test rubber-metal composites with regard to their elasto-plastic behavior. Both for R&D purposes and to monitor production.

At the beginning, the customer created a specification sheet and discussed this with TeMeCo/ Inova regarding feasibility and price/performance-relevant compromise options.

The testing machine was then optimally adapted to the parameters using high-quality components with appropriate clamping, including infrastructure such as hydraulic supply and cooling. This made it possible to ensure that the requirements for the various components with regard to clamping, load (angle, torque and frequency) were met.

For starting, the TestControl software and the elastomer module formed a very strong basis to control the testing machine and to acquire and evaluate measurement data. For further processing of this data, there was the possibility of evaluation and logging via Microsoft Excel® with specifically working script functions.

Last but not least, a competent aftersale service is of great importance. Regardless of whether telephone support with a quick response time, projectable maintenance or a short-term on-site assignment – TeMeCo is the right partner for this and provides valuable services within a useful period.



Versatile tool for the automotive industry

Shimadzu has come up with a new HMV-G3 series, newly designed with a color camera and data protection functions.

The automotive industry, with its ever-shorter development times, currently has ideas and projects in its R&D departments that should meet future needs. As a global supplier to the automotive logistics chain, Shimadzu provides the full range of instrumental analysis and test solutions required for the industry.

The new HMV-G3 micro hardness testers from Shimadzu with many new functions are aimed at research and production processes. As a standard, all models in the new series are compliant for measurements with low test forces according to ISO standards for Vickers hardness tests. Protection functions to heighten data reliability are integrated as standard, as are report creation functions. With the FA ("fully automatic") version, the work surface can be positioned with micrometer precision using the motor. Other user-friendly configurations are possible.



Shimadzu Asphalt Test Package for Fatigue Test according to EN 12697

Supplemented with a range of test devices, the servo-hydraulic testing machines from Shimadzu enable tests to be carried out in accordance with EN12697-24, -25 or -26. The experiment is documented in five Shimadzu application reports, which we herewith would like to make available to you. Our website takes you directly to the first test report:

[Assembly for PB Fatigue and Stiffness Test.](#)

Upon request, we will be happy to provide you with further test reports, which you can order from us by stating the name:

- Assembly for 4PB Stiffness Test
- Assembly for Triaxial Test
- Assembly for Indirect Tensile Testing Setup (Stiffness Test)
- Assembly for Indirect Tensile Testing Setup (Fatigue Test)