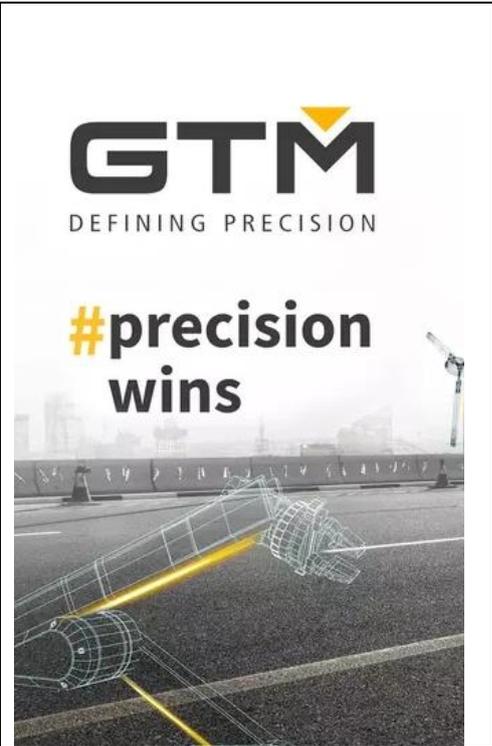


High quality of products and services

TeMeCo, July 2021

Quality does not have to be expensive. This is not a new insight, but an old wisdom that is sure to meet with the approval of buyers, technicians, engineers, etc. With low overhead costs, TeMeCo offers high-quality material testing and measuring equipment and on-site services at attractive conditions.



GTM in a new look and with new products

The company, founded in 1988, now also shows its striving for precision and innovation in its new corporate design. To this end, the website first shines in a fresh, modern look: Quickfinder for product search, 360-degree views of the metrology devices and easy navigation together create a well thought-out user experience that consistently focuses on the users and their needs.

The new website is much more than just a company presentation – GTM rather presents itself as a knowledge broker around the measurement of forces and moments. Detailed product and service information lets readers delve deep into the subject matter and provides a broad overview of the entire GTM portfolio.

[New website GTM](#)



Best-in-class Strain Gauge Measuring Amplifier with Outstanding Precision of 10 ppm

The new CFA225-T two-channel precision measuring amplifier with a precision class of 0.001 or 10 ppm is ideal for high-precision measurements with strain gauge full bridge-based force sensors and torque transducers. The device figures among the most precise strain gauge measuring amplifiers in the world, which makes it suitable for high-end stationary measuring, testing and calibration of strain gauge-based sensors.

It features outstanding performance parameters, such as a maximum resolution of $\pm 2,000,000$ and high long-term stability of $< \pm 10$ ppm/a. The carrier frequency bridge supply voltage of 5V/225 Hz offers the lowest uncertainty of measurement in traceability to national standards available today.

The precision measuring amplifier CFA225-T is used both by sensor manufacturers who have to calibrate their own force or torque transducers, and in calibration labs, national metrological institutes and technical universities.



AGS-X 10kN



AGX-V 10kN

Shimadzu: a complementary couple

AGS-X and AGX-V have similar designations and main dimensions, but significant internal differences that go beyond color scheme and nominal load.

AGS-X stands for the economy line and AGX-V for high-end. The latter has a very high frame rigidity, a powerful controller and a further developed version of the proven Trapezium software.

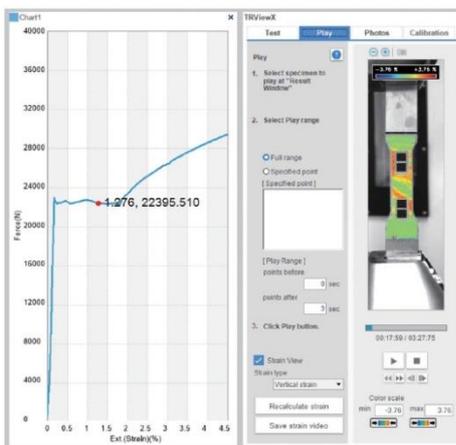
The AGS-X convinces with an attractive price and a scope of supply that exceeds the usual basic requirements. If required, it can be supplemented with further options. The range of available load cells starts at 1N and extends up to 10kN. The controller and its control panel are located in the base section.

The AGX-V's controller is mounted on the side of the column, has a cable-connected hand-held control panel and optional plug-in cards that can, for example, capture up to 20 analog input signals at up to 10kHz sampling frequency.

With the AGX-V, Shimadzu has developed a line of testing machines that should wow not only our longest-standing customers, who have known us since our Schenck past.

For more information see:

- [brochure AGS-X](#)
- [brochure AGX-V](#)



Shimadzu: Real-Time Strain View

The video extensometer on AGX-V testing machines can now perform also real-time image correlation. What does this mean?

Video cameras capture a three-dimensional area in two dimensions. A standard video extensometer captures two marks on a sample and generates a one-dimensional strain signal in the tensile test. Shimadzu has realized that much more could be done and has added an option on the standard video extensometer, which allows it to display also the strain distribution on the surface. For this purpose, the sample has simply to be sprayed with a random pattern.

[Data sheet Software Real-Time Strain View](#)



Vacuum drying chamber and vacuum pump, a complete system for gentle drying:

The vacuum drying chamber is known to have to withstand the vacuum in the vessel or, respectively, the overpressure from outside and to heat up the material to be dried. In short, this means:

- The vacuum lowers the boiling temperature.
- During evaporation, heat is extracted from the material to be dried.
- In the drying chamber, the heat is conducted, via thermal conduction, to the material to be dried, thus compensating for the heat loss.
- Drying process: The vacuum pump extracts the volume. The vacuum remains at a constant level until the sample is "dry".
- Flammable solvents can ignite in the chamber or in the pump. This is where the Binder model series comes in handy.

The drying chamber and vacuum pump form a complete system and should be matched to each other as well as to the sample material. The BINDER VD and VDL devices in combination with the pump module and the vacuum pumps VP1 to VP4 meet the highest customer requirements.

Further information: [VD/VDL brochure](#)



Regularly requested and now available for a limited time:

Before investing in a vacuum drying chamber, many customers would like to try the process. We offer you for a limited time the possibility to rent a VD53 (predecessor of VD056) with a membrane pump 2.2m²/min to try out your drying process.

[Data sheet VD 53](#)



RPA for testing the viscoelastic properties of rubber compounds

Dynamic testing according to current DIN, ISO and ASTM standards in quality control and research & development.

The Rubber Process Analyzer from GÖTTFERT is used to determine the viscoelastic material behavior in a plasticized state – during vulcanization – and after vulcanization of the material sample. A torsional load is imposed on the sample by the rotational oscillation of the lower test die half. Torque and phase angle are recorded as a function of test time.

Both the frequency and amplitude can be selected program-controlled in a very large adjustment range. In combination with the very fast temperature control, not only frequency, amplitude and temperature sweeps but also ramp or relaxation tests can be performed fully automatically.

For further information, see here:

- Rubber Relaxation Test
[Relaxation](#)
- Amplitude Sweep – non vulcanized samples
[Amplitude Sweep](#)
- Amplitude Sweep – vulcanized samples
[Amplitude Sweep](#)