

FROM VISION TO WOW!



QUALITY STARTS WITH THE DETAILS

MEASURE, UNDERSTAND, IMPROVE:
OUR TESTING PROCEDURES



QUALITY WITH SYSTEM



At REINHOLD KELLER, quality is not a matter of chance. In our **quality assurance**, we rely on **structured processes** and a **modernly equipped testing center** to specifically examine furniture components. The focus is on the question: Does the product meet the defined requirements – and if not, where is action needed?

Our tests particularly support the development process and help to reveal potential weak points – providing a solid basis for well-informed decisions, whether as part of random sampling or for targeted optimization.

With **state-of-the-art testing tools**, **clearly defined processes**, **and an experienced team**, we ensure transparency – creating the foundation for a well-founded quality assessment in-house.

"We create clarity: Our examinations make it visible where we stand and what we can improve."

Burkhard Ugowski
Quality Assurance



MEASURING ARM



AI-HA!

PRECISION DOWN TO THE SMALLEST DETAIL



In quality assurance, every millimeter counts – especially for precisely fitting furniture components or custom-made solutions.

The **7-axis measuring arm** uses laser technology to detect even the smallest surface details. The generated model appears directly on screen and is compared with the CAD data, making deviations immediately visible – even in hard-to-reach areas. All data flows directly into our QA documentation.



These insights help us optimize the assembly of individual components, such as seat shells and frames. We also use the tactile probe to capture measurement points for new constructions – for example, in reverse engineering.



TEST BENCH

LONG-TERM STRESS? WE'RE TESTING IT.

To realistically assess how our furniture performs under everyday conditions, we put it to the test on our **load testing bench**. The goal: to determine how the furniture behaves under repeated use.

We simulate real-life scenarios such as **sitting down, leaning back, or supporting oneself on furniture edges**. Repeated forces are applied to specific zones – including asymmetrical pressure points.

We observe how **joints, material stability and structural integrity** change over time – and document all results in detail.

In high-traffic areas such as restaurants or lounge zones, furniture is in constant use. Our test bench helps us identify at an early stage whether a product can withstand this level of stress over the long term.



STABILITY THAT LASTS



In the object area, chairs are often subjected to changing loads – such as tilting movements, shifts in weight, or leaning back.

During the **tip-and-fall test**, a chair is repeatedly subjected to controlled tilting and falling movements. We specifically test the **stability** of the construction, the **strength** of the connections, as well as the behavior of the **materials** under **dynamic loads**. The goal is to reveal potential weaknesses in the overall construction.

Whether in a hotel room or a fitness studio – if guests lean back on a chair or tilt sideways, the furniture must not give way. The tilt-fall test gives us a reliable basis for assessing stability under realistic and comparable conditions.

YEAH!

RESILIENCE PUT TO THE TEST



In everyday life, **materials and surfaces** are subjected to mechanical stresses due to movement, friction, and constant use. To evaluate the durability of such materials, we conduct **Martindale tests**.

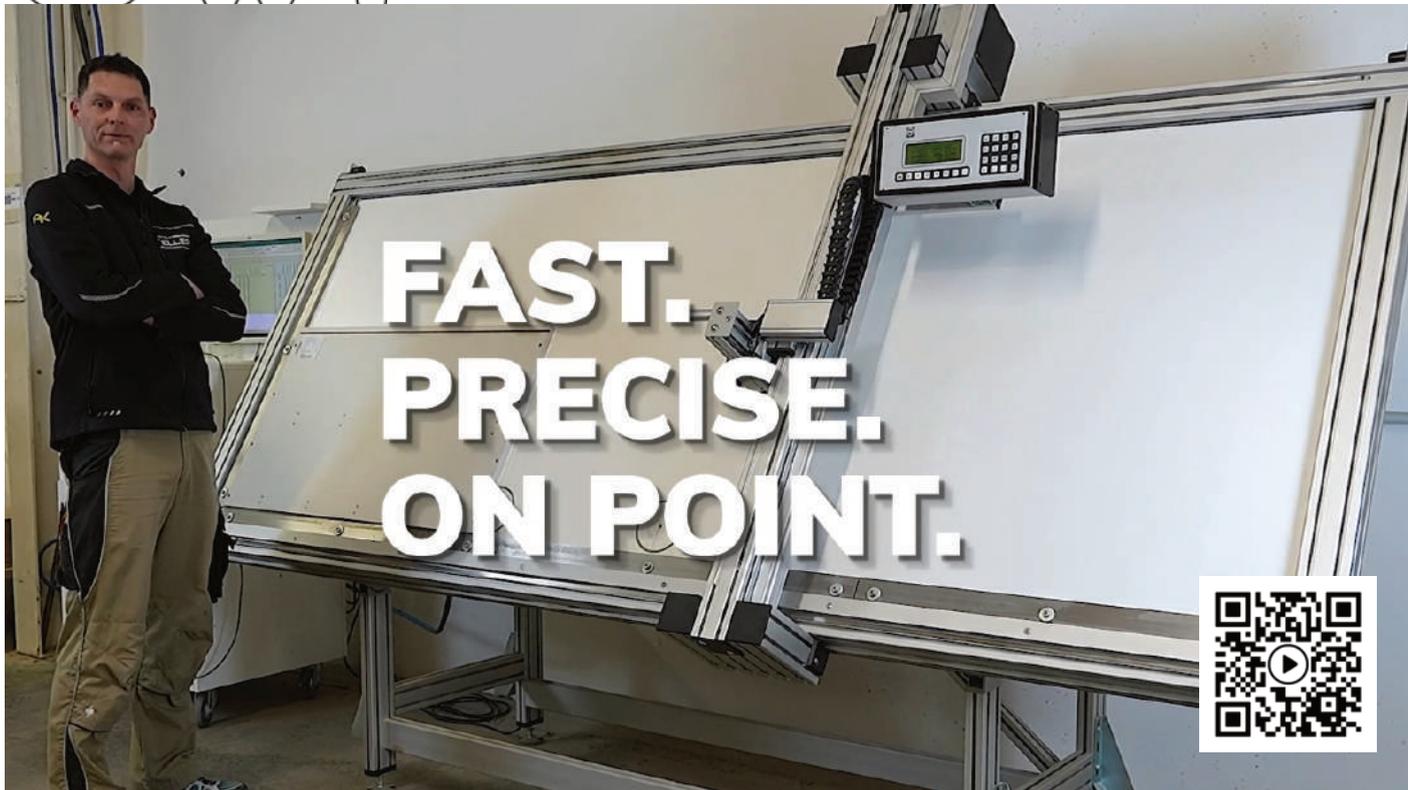
In this process, the material is subjected to uniform rubbing motions under constant pressure over a defined period. During the test, it is observed when the first **visible signs of wear** appear. This helps assess how long a fabric or synthetic leather remains durable in use before typical damage patterns develop.

In high-traffic areas like restaurants or hotels, fabric covers are exposed to daily stresses. The Martindale test helps us better assess the suitability of a material for such applications.

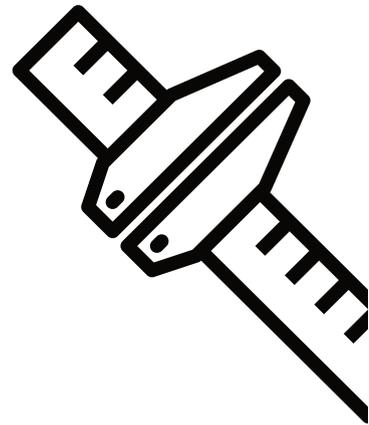


WOW!

MEASUREMENT BOARD



CUSTOM PRECISION, MADE MEASURABLE



For reliable quality control, reproducible measurements are needed - especially for recurring components with complex geometries.

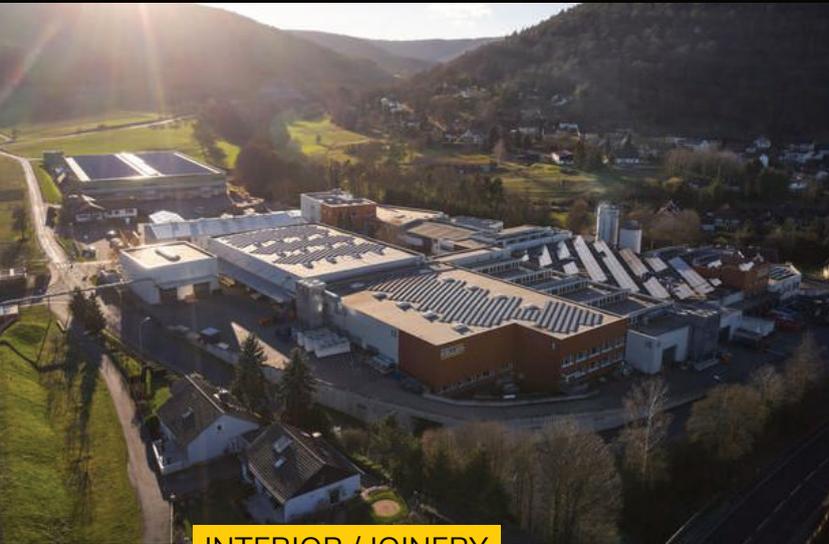
The **measuring board** consists of a 3-axis measuring table with a turret head. The turret head allows for quick switching between fixed probe tips for various contours – for example, to check component dimensions, drill holes, or milled features.

The measurement results are directly transferred to the system and documented – this saves time and ensures **consistency in the inspection process**.

Especially in batch production or machine setups, the measuring board helps us reliably check if components have been manufactured correctly before they move on to the next production stage.

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HEY!
HEY!
HEY!
HEY!
HEY!



INTERIOR / JOINERY

GENERAL CONTRACTING

FROM VISION TO WOW!

WHAT WE OFFER YOU

Depending on how far you have progressed with your construction and ideas, we have the appropriate solution for your requirements. Whether it's a new build or refurbishment, you choose the moment when you want to bring us on board as a partner.

LET'S CONNECT

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