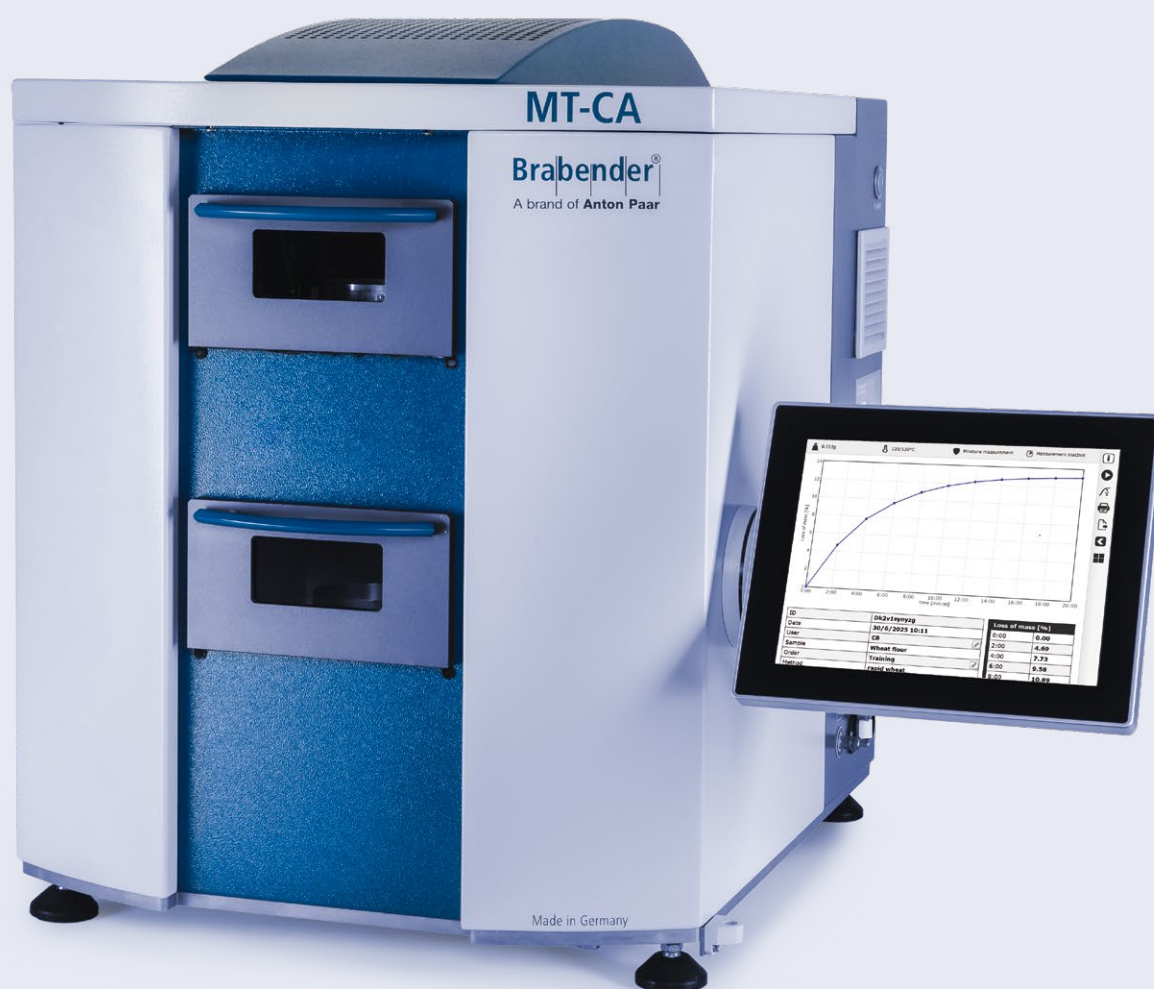


Universal Automatic Moisture Tester

Brabender MT-CA



Mastering Moisture Measurement



Find out more

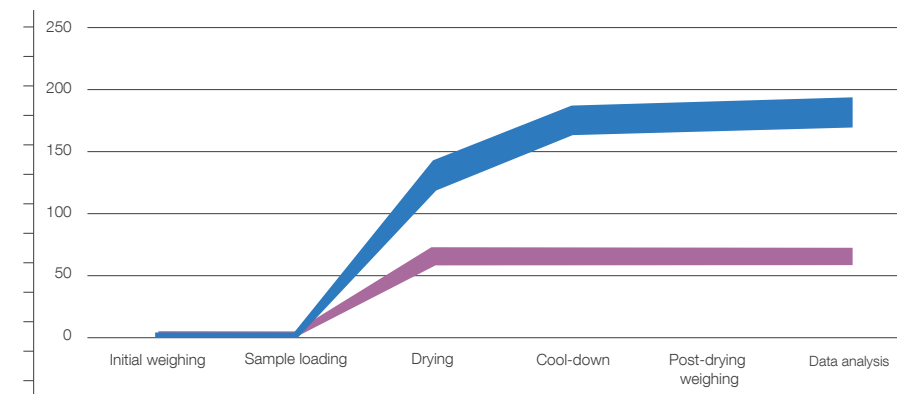
Brabender MT-CA, powered by Anton Paar Brabender technology, sets the benchmark for automated moisture analysis in quality control. Established as a reference instrument in multiple industries, this high-throughput solution takes a highly automated approach to the oven drying method, offering up to 10 simultaneous precision measurements with accuracy of 0.1 % water content. Its direct measurement approach eliminates frequent calibration, ensuring reliable results and cost savings.

With a comprehensive, customizable methods database, Brabender MT-CA adheres to international standards and is even used to calibrate other moisture analyzers. It significantly reduces measurement times, optimizing laboratory workflows and enhancing efficiency.

Brabender MT-CA isn't just a piece of equipment – it's a strategic investment in the future of your business, promising not only unmatched precision and efficiency but also cost savings and reliability. Because we know moisture affects profits.

Quickly go from weighing to drying to result

- For accurate measurements, weigh samples before drying using a high-precision balance → 2 minutes
- Load up to 10 samples onto the positioning wheel → 1 minute
- Dry samples uniformly using controlled heating with fan-circulated air → 60 minutes
- Perform automatic post-drying weighing, ensuring precise results in no time → immediate
- Analyze data directly in the integrated MetaBridge software, reducing transcription time and errors to zero → immediate



→ The Brabender MT-CA process reduces measuring time from 180 minutes with conventional devices to 63 minutes, while fully complying with standards.

Meet MetaBridge. Meet the Benchmark.

Unleash the power of laboratory efficiency with MetaBridge – the revolutionary software that redefines your moisture testing. From intuitive touch operation to live test tracking from anywhere, MetaBridge transforms how you interact with data. Enjoy easy mobile access with responsive performance, top security, and zero installation hassle. Meet the future of data management with real-time updates, comprehensive user control, and effortless data handling.

One software, endless benefits

- ✓ Ready to use – no setup time and no installation effort
- ✓ Optimized workflows to avoid common errors and ensure a smooth process in the laboratory
- ✓ Easy access to your measurement data via a web browser within the company network
- ✓ Reference feature lets you monitor material quality in real time and receive automatic feedback on whether or not specifications have been met
- ✓ Support for multiple simultaneous measurements to boost statistical accuracy and ensure reliable results



Data sharing

- Standard data exports in typical formats such as Excel, CSV, PDF
- Built-in mailing function for quick exchange with colleagues and customers
- Support of third-party systems (e.g., LIMS, ERP) via Brabender WebAPI, shared network folders, or OPC UA
- Out-of-the-box LIMS support for Bühler Insight and labfolder

Drying curve for deep insights

Brabender MT-CA's drying curve diagram, showcasing mass loss percentage over time, offers a clear, real-time visual representation of the drying progress. This tool enhances understanding of material behavior, enabling more precise monitoring, and facilitating informed decisions about target moisture levels. With this knowledge you can, for example, increase the drying temperature to significantly reduce measuring time. For samples where drying time cannot be predicted – such as non-powder, coarse, or lumpy materials – the optimal drying time can be determined empirically.

Always on, never calibrate

Unlike NIR devices, Brabender MT-CA eliminates both initial and regular calibration, reducing downtime and maintenance effort while ensuring consistent, reliable results without the need for frequent recalibration.

Applications and Methods

Brabender MT-CA's method library offers optimized presets of precisely calibrated drying times and temperatures for various materials. From foodstuffs like oats and noodles to polymers and minerals, each material's unique requirements are meticulously catered to, ensuring accurate and efficient drying results across a wide spectrum of samples.

Material	Initial weight	Temperature	Drying time
Casein	10 g	130 °C	180 min
Coffee	10 g	120 °C	120 min
Cocoa	10 g	105 °C	40 min
Milk powder	10 g	105 °C	50 min
Tobacco	5 g	123 °C	30 min
Cement	10 g	110 °C	15 min
Plaster	10 g	95 °C	40 min
Hop	5 g	105 °C	180 min
Wheat	10 g	130 °C	60 min
Sugar	10 g	115 °C	10 min
Rubber	10 g	105 °C	90 min
Cellulose	5 g	130 °C	45 min
Kieselguhr	10 g	130 °C	30 min
Adhesive	10 g	80 °C	20 min



Brabender MT-CA	
Dimensions (W x H x D)	820 mm x 680 mm x 630 mm (with touchscreen)
Power supply	1 x 230 V, 50/60 HZ, + N + PE, 6.3 A 1 x 115 V, 50/60 HZ, + N + PE, 12 A
Weight	Approx. 80 kg
Drying temperature	Max. 200 °C in the drying chamber
Heating capacity	1,100 W
Sample weight	Min. 1 g, max. 20 g (optional setting of a tolerance range)
Number of samples	Max. 10 at a time
Measuring range	0.1 % to 99.9 % water content
Accuracy	<0.1 % water content
Balance resolution	0.001 g
Reproducibility (balance)	±0.002 g
Temperature: 10 °C to 40 °C	Environmental conditions

Reliable.
Compliant.
Qualified.

Our well-trained and certified technicians are ready to keep your instrument running smoothly.



