

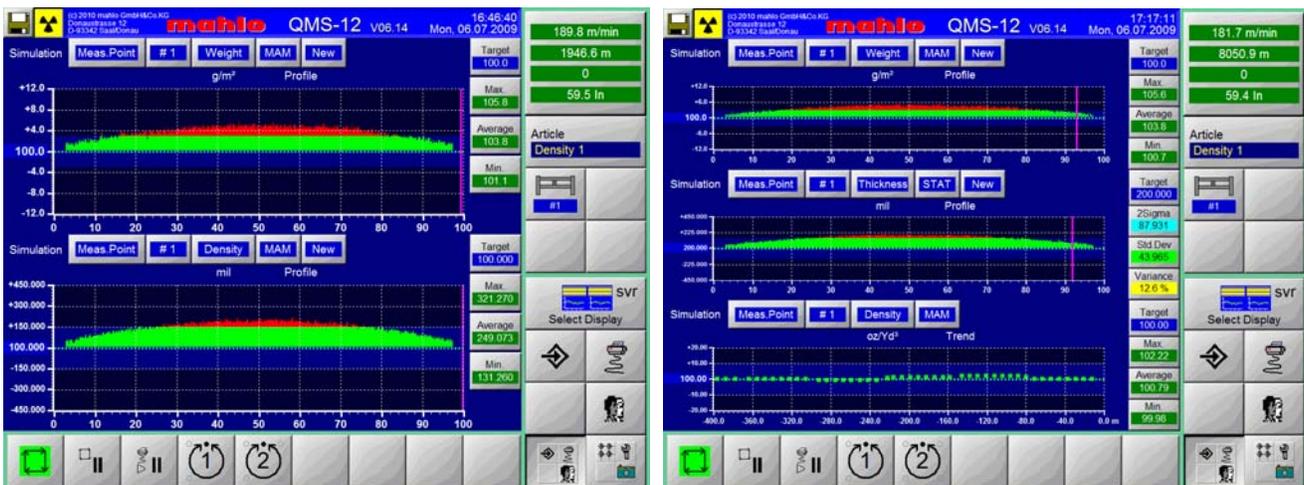
# APPLICATION ANNOUNCEMENT

## *Real Time Density Measurement*

With the release of the new QMS-12 QCS System platform in 2008, Mahlo has incorporated a unique real-time measurement of Density with any system that includes both basis weight and thickness sensors. Basis weight measured using a DFI Beta Transmission Sensor, an FMX X-Ray Sensor or an IMF Infrared Absorption Sensor is in units of mass per area, grams per square meter ( $g/m^2$ ) for example. Thickness from the DML Laser Caliper Sensor is in units of linear displacement, such as millimeters or inches. Dividing the basis weight by the thickness results in a quotient of mass per volume, which is the product Density.

The Mahlo QMS-12 treats the Calculated Density measurement as a “Virtual” sensor, with all of the profiling, trending and statistical calculations as any of the primary sensors in real time. The Density feature is quite useful for the measurement of variable density products, such as foam, sponge, board and laminates, and is included at no additional cost within the standard Mahlo QMS-12.

Typical Displays:



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