QCS SOLUTIONS

for the nonwoven industry

TASOWHEEL



Scanner Frames

CD & MD controls

Online Measurements

Profiling Systems

Maximize nonwoven production with online measurements

With real-time web measurement before winding, you gain three key advantages that elevate both efficiency and product performance:

Optimized drying

Maintain ideal moisture levels at all times. This prevents over drying and can reduce energy consumption by **up to 40%** through precise, continuous control.

Reduced waste

High-accuracy measurement ensures you use only the material required, eliminating unnecessary over-usage and lowering production costs.

Consistent quality

Achieve uniform, high-quality output across both machine direction (MD) and crossdirection (CD), even as operating -conditions change.

Tasowheel's Quality Control System (QCS)

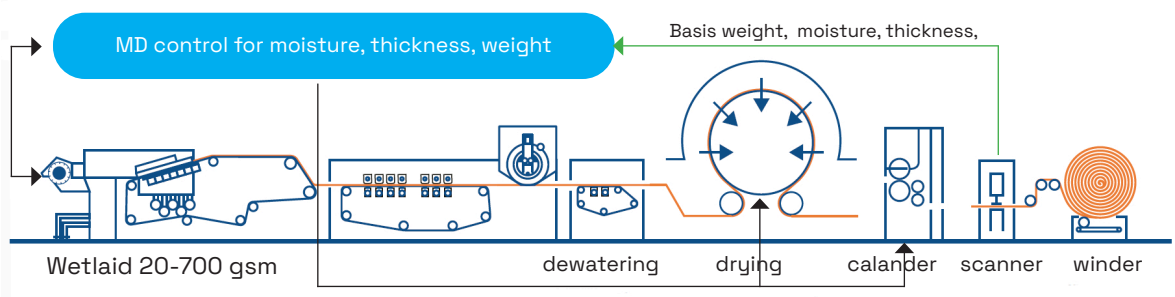
Enhances nonwoven production lines by minimizing both material and energy consumption through advanced:

Measurement systems

Ensures you use only the material Reliable, real-time data for stable and efficient process control.

Profiling solutions

Precise measurements and profiling systems for superior product uniformity.



Example of Tasowheel Quality Control System (QCS) in wet-laid production line

QCS

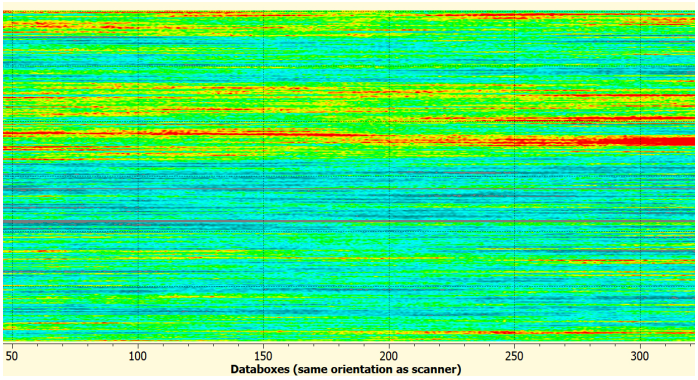


The Tasowheel Quality Control System (QCS) integrates measurement devices and profiling technologies into an automated control system designed to maximize line efficiency and ensure consistent product quality.



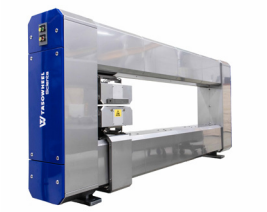
A profile plot of the most recent measurement profiles. For each profile the software calculates statistical performance values.

All measurement data is logged to an accessible database for effortless retrieval. By archiving every measured profile, the system enables users to track variations across both position and time.

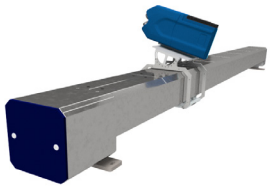


The heatmap display allows for rapid identification of profile variations and long-term process trends in a single view.

Measurements



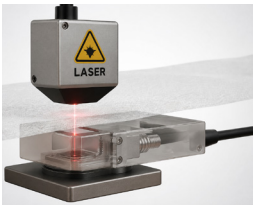
O-frame scanner: Width up to 10 m with up to 4 measurement units.



One-sided frame: Width up to 10m.



Beta, X-ray or IR based basis weight measurement for accurate material flow control.



Optical caliper sensor with submicron accuracy for reliable thickness measurement.

Online Sensor	Technology	Range & Accuracy
Basis weight	Radiation based, Xray, BETA	20..900 g/m², 0.2 g/m²
Moisture	IR based	0..20 %, 0.15 %
Moisture	Microwave based	2..300 g/m² water, 0.2 %
Ash content	Xray based	0..300 g/m² Ash, 0.2 g/m²
Thickness	Optical	20..4000 µm, 4 µm or 3%, profile accuracy 2 µm

Profiling solutions



Tasowheel Steambox and Moisturizer with down to 30 mm resolution.



Tasowheel dilution headbox for optimal material flow adjustment for wet-laid production lines.

Optimize your drying and profiling processes with the Tasowheel Steambox and Moisturizer.

Tasowheel's systems ensure uniform CD profiles and highly stable MD production through precise control of zones with resolutions tailored to each application:

- Moisturizers: 30 mm, 60 mm, or 120 mm resolution
- Steamboxes: 60–250 mm resolution

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