

TAILORED QCS SYSTEMS

for Paper, Board and Converting

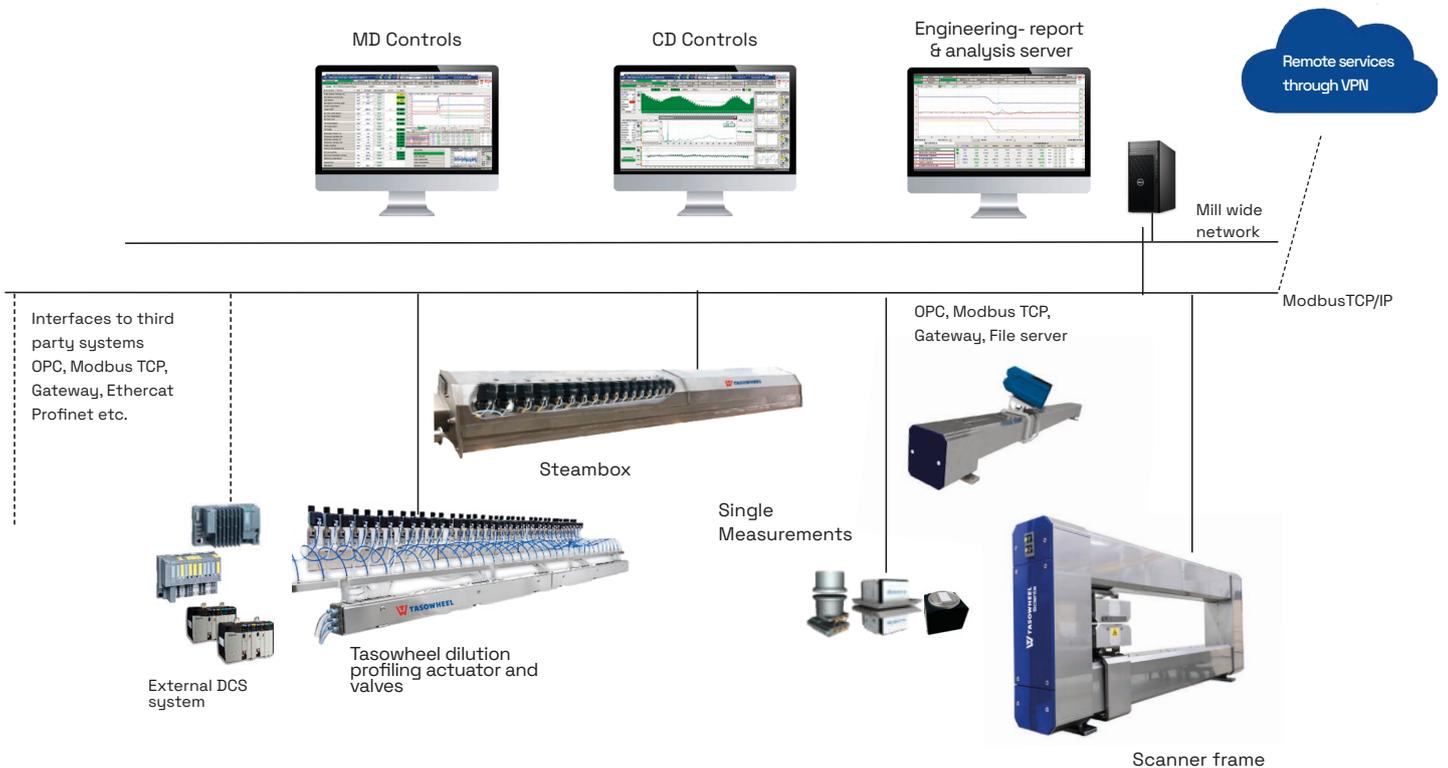


More than 40 years of industry experience.

QCS and profilers from original manufacturer.



Control system



- Open network and system with commercial automation equipments.
- One common industrial network with various communication protocols.
- Accurate and fast CD profile control with a simple user interface.
- Optimized model-based MD control.
- Easy and cost efficient communication to other systems with all modern interfaces.
- **Control system available for all profilers:** Dilution headboxes, Slice controlled headboxes, Steamboxes, Moisturizers, Coater & Caliper profiler.
- **System for all paper machines:** Board, Pulp dryers, Tissue machines, Non- woven, Converting, Coating and Calanders.

Measurements systems by

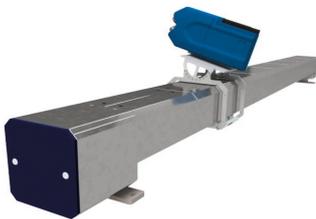
Scanner Frames



Model 1010
O-Frame, Max width 10m
Liquid cooling of heads
Sealed Frame with overpressure
For paper and pulp
Integrated PLC



Model 9110
O-Frame, Max width 4m
Electronics & Head air cooling
Sealed Frame with overpressure
Integrated PLC



Model 9145
Single sided
Max width over 10m
External PLC Cabinet



Model 9144
C Frame
Fixed point scanner
Edge Scan capability
External PLC Cabinet

Measurements

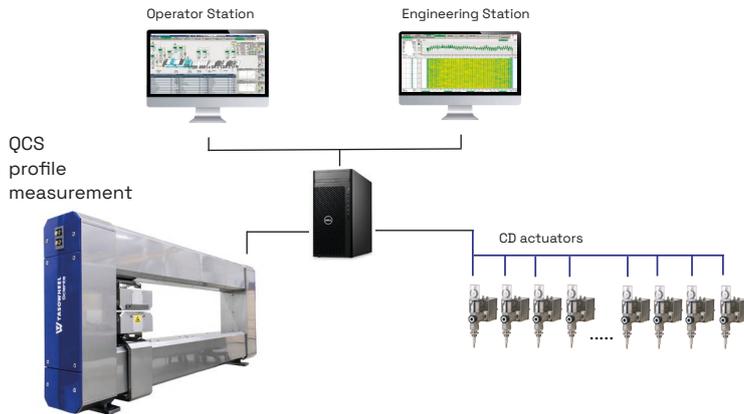
Online Sensor		Technology	Range & Accuracy	Type	Application
Basis weight		Radiation based	20..900 g/m ² , 0.2 g/m ²	Scanning	Tissue, Paper, Converting, Board
Basis weight		IR based	5..100 g/m ² , 0.1 g/m ²	Scanning	Tissue Nonwoven
Moisture		IR based	0..20 %, 0.15 %	Scanning	Tissue, Paper, Nonwoven, Board
Moisture		Microwave based	2..300 g/m ² water, 0.2 %	Scanning	Paper, Board, Converting
Moisture		Microwave based high amount	100..3000 g/m ² water, 0.5 %	Fixed point or scanning	Pulp sheet
Moisture		Single side IR	0..70 % moisture, 0.2 %	Fixed point or scanning	Paper & Tissue
Ash content		Xray based	0..300 g/m ² Ash, 0.2 g/m ²	Scanning	Paper, Board, Coatings
Porosity		ACA systems	0.. 50 l/min, 0.2 %	Fixed point	Tissue, Paper, Nonwoven
Thickness		Optical	20..4000 μm, 4 μm or 3%	Fixed point or scanning	Tissue, Board



Scan for more

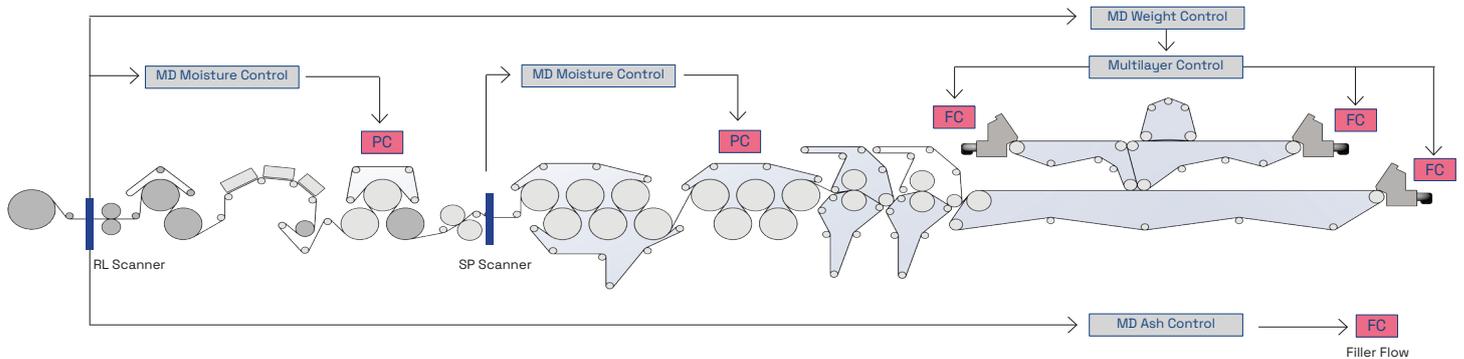
Controls

CD Control



- Controls for accurate CD profiling with a simple user interface
- Accurate mapping of actuators to control profile
- Dynamic mapping and shrinkage compensation
- Automatic mapping feature
- High resolution profile optimization
- Adaptive control with high resolution response
- Absolute position profile of actuators
- Display for diagnostics and engineering
- Excellent control performance
- Fast sheet break recovery

MD Control



Tasowheel's Machine Direction Controls utilize industry proven model-based control technology to improve product quality and paper machine efficiency while minimizing material and energy usage.

MD Control package is fully scalable and by using dynamic process models it can be separately tuned for operation of the entire range of production.

Automatic Grade Change application ensures fast and accurate grade changes.

- Owendry weight control
- Owendry feed forward control
- Moisture control with decoupling from weight
- steam reduction logic
- Coordinated speed change
- Multiformers with layer based controls
- Paper ash content control
- Coat Weight control
- Production speed optimization
- Automatic grade change

Insights and Quality Reports



- Comprehensive summaries covering product characteristics, machine efficiency, production rates, control performance, and usage information. Detailed reel, grade, and shift reporting.
- Real-time profile and reporting data from our advanced QCS.
- Common data format files, with historical reports accessible by date, reel, grade, shift, or day.
- Export data effortlessly to any software application capable of handling common data files. Integrate with your Mill ERP data management systems like SAP.

Tasowheel actuators and valves

Dilution



RDA- Rotary Dilution Actuator
Operating torque: > 20 Nm
Output: 90°
Spacing in one row: min 60 mm
Resolution < 10 µm



LDA- Linear Dilution Actuator
Operating force: up to 3500 N
Output: up to 40 mm
Spacing in one row: min 60 mm
Resolution < 10 µm



RDV- Rotary Dilution Valve
AISI 316, no plastic parts
Hard coated flow surfaces
Spacing in one row: min 60 mm
Straight through flow



RDV 90°- Rotary Dilution Valve
AISI 316, no plastic parts
Hard coated flow surfaces
Spacing in one row: min 60 mm
90 degree through flow



LDV- Linear Dilution Valve
AISI 316, no plastic parts
Hard coated flow surfaces
Spacing in one row: min 60 mm



Moisturizing
MTA- Motorized Moisturizer Actuator
Axial force 120 N
Protection class IP 67
2 valve sizes: 15 l/h and 30 l/h



Edgeflow
Tasoedge- Linear edgeflow actuator with a valve
Axial force up to 2000 N
Operating range 40 mm
Resolution < 10 µm

Slice Lip

FORTE- Motorized Linear actuator
Linear force: up to 7500 N
Output: up to 20 mm
Spacing in one row: min 65 mm
Resolution < 0,35 µm



MLL- Manual Linear actuator
Linear force: up to 6000 N
Output: up to 20 mm
Spacing in one row: min 100 mm
Resolution < 10 µm



ML 35000- Manual Linear actuator
Linear force: up to 35000 N
Output: up to 20 mm
Spacing in one row: min 100 mm
Resolution < 10 µm



Steam

STA- Linear Steambox actuator with a valve
Linear force: up to 1000 N
Ambient temperature max 125°
Output: up to 10 mm
Spacing in one row: min 60 mm
Resolution < 5 µm



Accessories

Slice Gap Measurement
Resolution < 10 µm
Excellent repeatability
Direct backlash indication
Measurement during actuator motion



Digital Slice Gap Measurement
Easy-to-read display. Resolution 10 µm
Values individually stored in the device's memory.
Measurement values easily transferred to PC via USB.
Direct backlash indication



Leading profiling actuator manufacturer

Tasowheel provides maintenance and repair services throughout the product's lifetime. Our products are well-known for their long life cycle and reliability. This ensures our customers an efficient and uninterrupted production.



Original spare parts, maintenance and repair services

Dilution actuators



IDA20



RDA-20/6



DLCP-20

Steam



EMA 15



EMA1000



STC900

Slice lip

Coating

Moisturizing



88MAP



CWW-3000



CWC- 3500



EMA5000



Services for Pulp & Paper

- Process studies
- Profiler audits
- QCS rebuild
- QCS audits
- Control Tuning
- Control electronics upgrades
- Profiler upgrades: Steambox, Moisturizer, Coater rebuilds



Scan for our entire selection