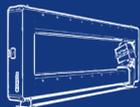


QCS SOLUTIONS

for the converting industry



Tasowheel-Scienta
Scanner Frames



CD & MD controls



Tasowheel-Scienta
Online Measurements



Moisture Profiling
System

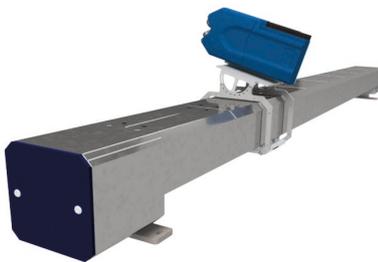
Measurements systems by

Scanner Frames



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



Scan for
our entire
selection

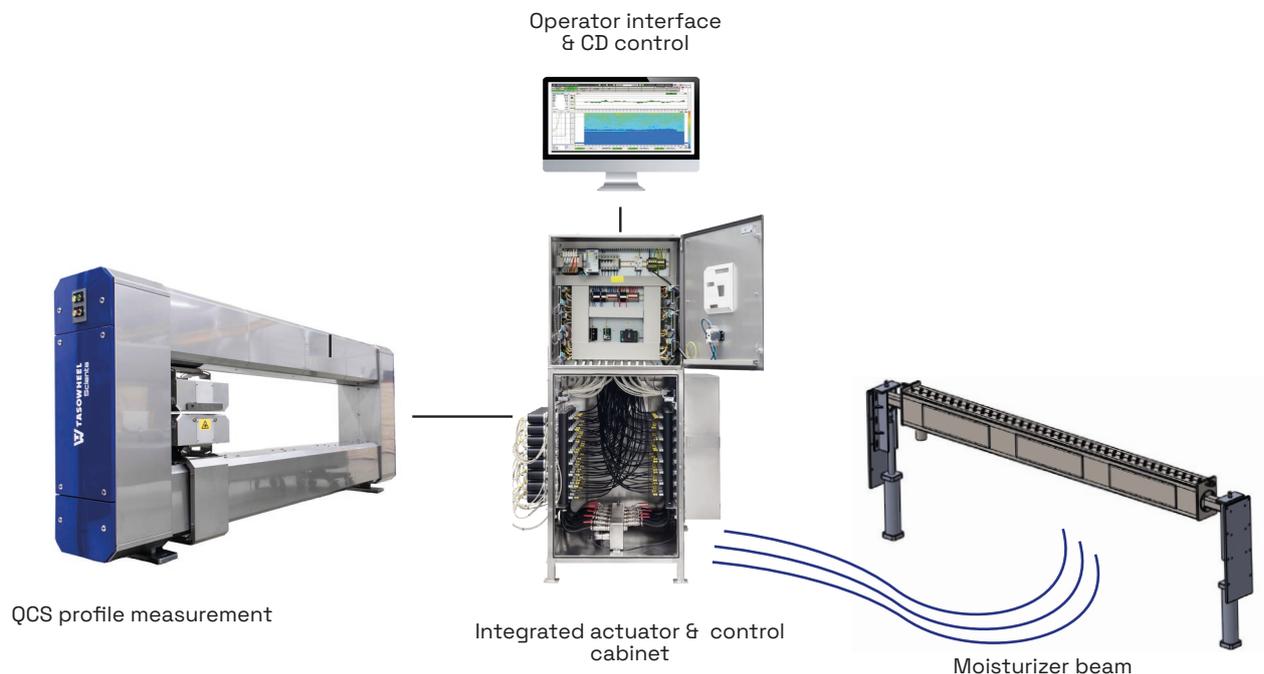
Measurements

Online Sensor		Range & Accuracy	Source	Detector	Type
Basis weight Radiation based, Xray, BETA		20..900 g/m ² , 0,2 g/m ²	Beta radiation with Kr-85 or Xray	Ion Chamber with heater control or PIN- diode	Scanning
Moisture Infrared		0..20 %, 0,15 %	Infrared emitter	InGaAs detector	Scanning
Moisture Microwave based		2..300 g/m ² water, 0,2 %	Microwave 2.4 GHz	Dual mode cavity technology	Scanning
Ash content Xray based		0..300 g/m ² Ash, 0,2 g/m ²	Xray with integrated power supply	Solid state PIN- diode	Scanning
Thickness Optical		20..4000 μm, 4 μm or 3%, profile accuracy 2 μm	Smooth measurement surface	Accurate laser distance sensor	Scanning
Coat weight IR based		5 – 100 g/m ² , 0,15 g/m ²	Infrared emitter	InGaAs detector Spectrometer based	Scanning
Warp Laser based		Web width up to 4m, z-resolution 0,2mm	Red line laser	Industrial high-quality camera	Fixed

Sensors by application

Sensors →	Basis Weight					Moisture			Porosity	Thickness	Warp
Applications ↓	Beta	Xray	Ash Xray	IR 4 channel	IR spectro meter	IR 2 channel	IR spectro meter	Microwave	Air Permeability	Caliper	Curl
Nonwovens											
Weight, thickness, density	✓			✓						✓	
Moisture						✓	✓				
Permeability									✓		
Coatings											
Solvent coating					✓						
Abrasives glue					✓						
Extrusion coating					✓						
Textiles											
Weight, thickness, density	✓	✓								✓	
Moisture						✓	✓				
Permeability									✓		
Paper+ Laminates											
Weight	✓	✓									
Thickness										✓	
Ash			✓								
Moisture						✓	✓	✓			
Tissue				✓	✓	✓	✓				
Corrugator	✓		✓			✓	✓	✓			✓
Permeability									✓		
Building products											
Roof felt weight			✓								
Fiberglass weight	✓										
Fiberglass binder		✓		✓							
Firerglass permeability									✓		
Impregnation											
Melamine resin	✓	✓									
Phenolic resin	✓	✓									
Urea resin	✓	✓									
Filter products	✓	✓									
Volatiles							✓				
Extrusion											
Weight Thickness	✓	✓		✓	✓						
Blown film	✓	✓		✓	✓						
Coatings					✓						

Moisture profiling system



Features

- ✓ CD moisture profiler for converting.
- ✓ Air atomizing spray nozzles combines water and air creating very small droplet size and ensuring excellent absorption to the web.
- ✓ Tailored nozzle spacing according to process needs
- ✓ Linear electromechanical actuator (MTA) with position feedback measurement
- ✓ Actuators and advanced 16-channel control cards in integrated cabinet enabling easy maintenance during operation.
- ✓ Mist removal system for high-performance systems

Customer benefits

- ✓ Increased production and better runnability of converting machines.
- ✓ Better gloss and smoothness in calendering application
- ✓ Control and reduce curl/warp and increase self-adhesive product flatness
- ✓ Moisture uniformity
- ✓ Easy integration to existing QCS
- ✓ Air and water units tailored to the customer needs