

Precise measurements in demanding environments

OnQuality.Scanners



VO



VOITH
No. 19 9071
PANEL: BEST CONTROL
Type: VOITH 1270
Customer: Ruder
VOITH GROUP (Germany) AG

VOITH
No. 19 9071
PANEL: BEST CONTROL
Type: VOITH 1270
Customer: Ruder
VOITH GROUP (Germany) AG

4300

4284

Quality Control System (QCS) OnQuality

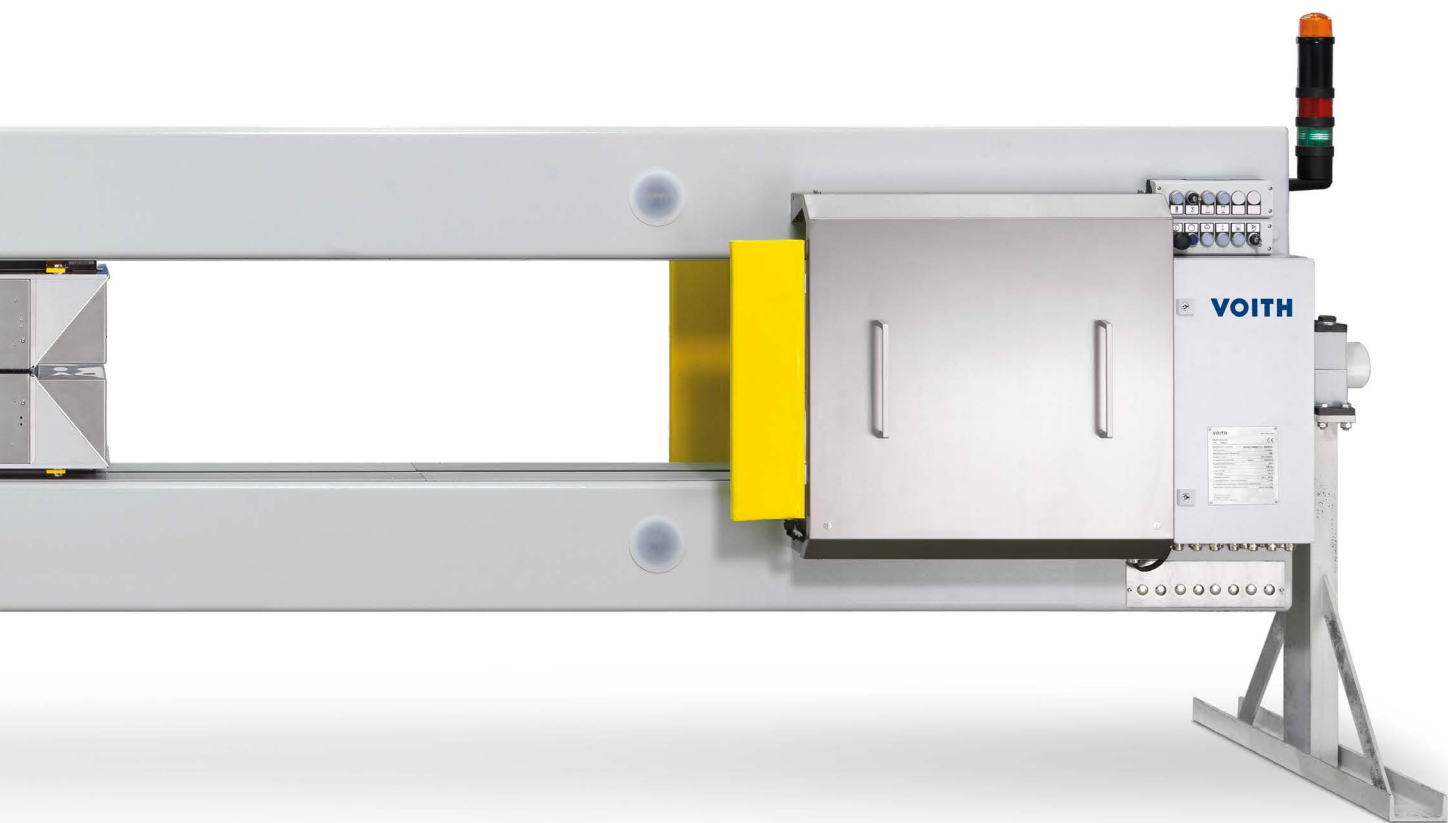
Voith supplies comprehensive automation solutions for the pulp and paper industry worldwide. The core of the automation systems is the OnQuality quality control system. The objective of this development was to create the most reliable quality control system for the demanding environment of paper and pulp production. And the result speaks for itself: You can rely on the precision and availability of OnQuality.Scanners.

Voith's OnQuality Quality Control System (QCS) is a smart and integrated concept that enables manufacturers to gain control over production processes and product quality. OnQuality offers the possibility to stabilize and optimize product quality and the production process, to increase productivity and to reduce operating and maintenance costs at the same time.

Our QCS is the perfect system for paper manufacturers who want to meet their customers' high paper quality requirements and increase their operational efficiency. Our system is smart and modular. At the same time, it is so compact that it fits into almost any paper machine. The attractive life cycle costs improve the competitiveness of your production through higher reliability and lower maintenance expenditure.

**High reliability
with low long-term
operating costs**





Outstanding quality thanks to many years of experience

All OnQuality.Scanners are developed and manufactured by experienced and highly trained engineers. This guarantees a high quality of the products. The robust design with the integrated, stable measuring platform enables smooth operation in the demanding environment of a paper mill. The scanners support the entire portfolio of Voith OnQuality.Sensors. Their high traversing speed combined with fast signal processing provide high-resolution profiles for precise longitudinal and transverse profile control.

OnQuality.Scanners can be integrated either as an integral part of the OnQuality quality control system or as a stand-alone system with direct OPC-UA connection to compatible process control systems. The reliability of this measuring technology has proven itself in new world-class paper machines as well as in the replacement of older quality control systems.

A fast remote connection and regional service teams on site enable optimal support throughout the entire lifetime of the system. The result is particularly high system availability and thus, low long-term operating costs (total cost of ownership).

Reliable measuring system

- + Robust design provides dimensional stability for consistently accurate measurements
- + Sealing tape on scanner and purge air for stable frame temperature and protection against dust and dirt
- + Mechanical / pneumatic snap-in clutch for easy separation and positioning of the modular measuring carriage for quick cleaning and maintenance
- + Measurement accuracy and accurate sensor head positioning
- + Quick and easy installation, the scanner leaves Voith fully functional and ready for operation

Innovative measuring technology

- + Fast traversing speeds up to 600 mm/s
 - + Up to 2 000 configurable data boxes
 - + Configurable measurements exactly up to the web edge, the sensor never moves away from the paper web
 - + Pivoting measuring carriage/frame
 - + Pulse encoder measures exact head position (resolution 0.2 mm)
 - + Online diagnosis enables fast troubleshooting
 - + Condition monitoring in real time, integrated remote diagnosis
 - + Air nozzles for cleaning the sensors in garage position
-

For hygienic paper manufacturers, Voith offers suitable scanner models equipped with additional purge air nozzles for the sensor head carriage and the transfer belt. They facilitate cleaning and maintenance work and improve the precision of measurements in this particularly dusty environment.

You will find the specifications of the OnQuality.Scanners models 5001 and 5088 for single and double machine widths in this brochure on pages 8 and 9.

For narrow web widths

OnQ Scanner 5001

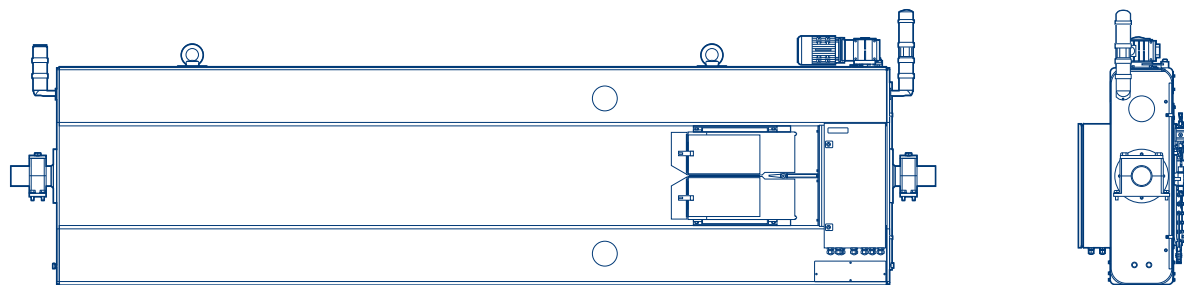
Specifications

- Frame height: 1 050 mm (1 212 mm incl. drive)
- Frame width: 300 mm
- Frame length: 3 200 – 6 000 mm
- Web width: 685 – 3 485 mm
- Pivot range, measuring system: +/- 0°
- Pivot range, trunnion mount: +/- 30°
- Pivot range, foot mount: +/- 0°
- Weight: 920 – 1 760 kg, depending on frame length
- Guiding rails: hardened, hard chrome plated, polished
- Garage: Standard

Specifications

- Electronic controls: External
- Air/water distribution: Internal (external optional)
- Drive: 3-phase AC motor, maintenance-free, with frequency inverter
- Toothed belt: Glass fiber reinforced, not stretchable
- Traversing speed: 600 mm/s
- Positioning accuracy: ± 1 mm
- Cooling: Cooler and fan required
- Max. number of sensor slots: 6
- Width measuring carriage: Depending on sensor slots, up to 558 mm with 6 sensors and 0° path angle

Side view and front view of model 5001



For medium web widths

OnQ Scanner 5088

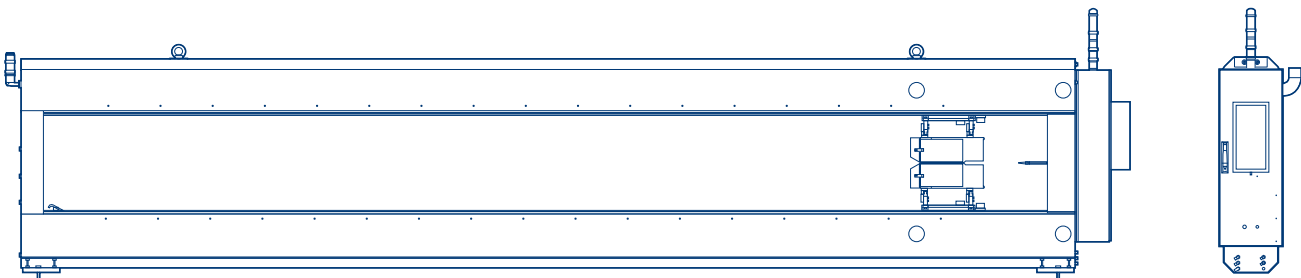
Specifications

- Frame height: 1 700 mm
- Frame width: 430 mm
- Frame length: 5 000 – 12 200 mm
- Web width: 2 255 – 9 455 mm
- Pivot range, measuring system: +/- 30°
- Pivot range, foot mount: +/- 0
- Weight: 2 540 – 4 610 kg, depending on frame length
- Guiding rails: Hardened, hard chrome plated, polished
- Garage: Optional
- Electronic controls: Internal (external optional)
- Air/water distribution: Internal (external optional)

Specifications

- Drive: 3-phase AC motor, maintenance-free, with frequency inverter
- Toothed belt: Steel reinforced
- Traversing speed: 600 mm/s
- Positioning accuracy: ± 1 mm
- Cooling: Cooler and fan required
- Max. number of sensor slots: 12
- Width, measuring carriage: Depending on sensor slots, up to 1014 mm with 12 sensors and 0° path angle (standard)

Side view and front view of model 5088



For large web widths

OnQ Scanner 5088e

Specifications

- Frame height: 2 000 mm
- Frame width: 430 mm
- Frame length: 12 200 – 14 600 mm
- Web width: 9 455 – 11 855 mm
- Pivot range, measuring system: +/- 30°
- Pivot range, foot mount: +/- 0
- Weight: 4 910 – 5 600 kg, depending on frame length
- Guiding rails: Hardened, hard chrome plated, polished
- Garage: Optional
- Electronic controls: internal (external optional)
- Air/water distribution: Internal (external optional)

Specifications

- Drive: 3-phase AC motor, maintenance-free, with frequency inverter
- Toothed belt: Steel reinforced
- Traversing speed: 600 mm/s
- Positioning accuracy: ± 1 mm
- Cooling: Cooler and fan required
- Max. number of sensor slots: 12
- Wide measuring carriage: Depending on sensor slots, up to 1014 mm with 12 sensors and 0° path angle

Side view and front view of model 5088e



For narrow web widths

OnQ Scanner 5010

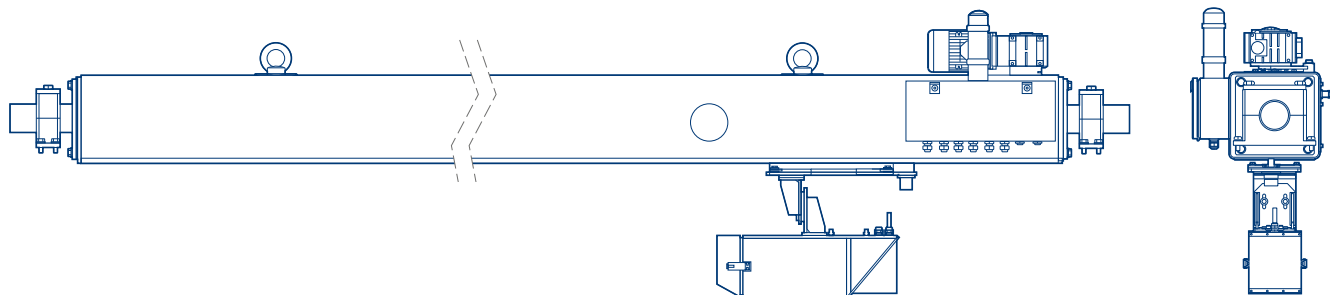
Specifications

- Frame height: 285 mm
- Height including sensor: 730 mm (standard sensor, 0° path angle)
- Frame width: 300 mm
- Frame length: 2 800 – 5 600 mm
- Web width: 700 – 3 550 mm
- Pivot range, measuring system: +/- 90°
- Pivot range, trunnion mount: +/- 90°
- Pivot range, foot mount: +/- 0
- Weight: 460 – 880 kg, depending on frame length
- Guiding rails: Hardened, hard chrome plated, polished

Specifications

- Garage: Not available
- Electronic controls: External
- Air/water distribution: External
- Drive: 3-phase AC motor, maintenance-free, with frequency inverter
- Toothed belt: Glass fiber reinforced, not stretchable
- Traversing speed: 600 mm/s
- Positioning accuracy: ± 1 mm
- Cooling: Cooler and fan required
- Max. number of sensor slots: 1 (3 slots on request)
- Width measuring carriage: 215 mm

Side view and front view of model 5010



For medium web widths

OnQ Scanner 5011

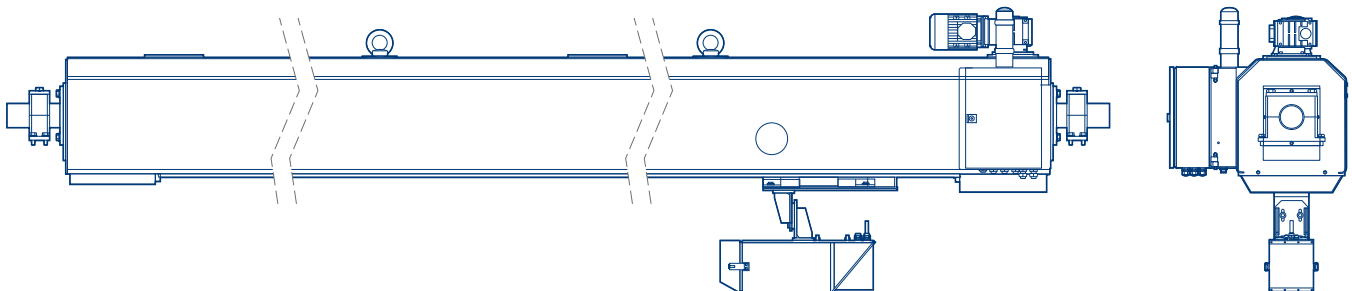
Specifications

- Frame height: 430 mm
- Height including sensor: 915 mm (standard sensor, 0° path angle)
- Frame width: 300 mm
- Frame length: 4 700 – 9 500 mm
- Web width: 2 505 – 7 305 mm
- Pivot range, measuring system: +/- 90°
- Pivot range, trunnion mount: +/- 90°
- Pivot range, foot mount: +/- 0
- Weight: 850 – 1 450 kg, depending on frame length
- Guiding rails: Hardened, hard chrome plated, polished

Specifications

- Garage: Not available
- Electronic controls: External
- Air/water distribution: External
- Drive: 3-phase AC motor, maintenance-free, with frequency inverter
- Toothed belt: Glass fiber reinforced, not stretchable
- Traversing speed: 600 mm/s
- Positioning accuracy: ± 1 mm
- Cooling: Cooler and fan required
- Max. number of sensor slots: 1 (3 slots on request)
- Width measuring carriage: 215 mm

Side view and front view of model 5011



For large web widths

OnQ Scanner 5012

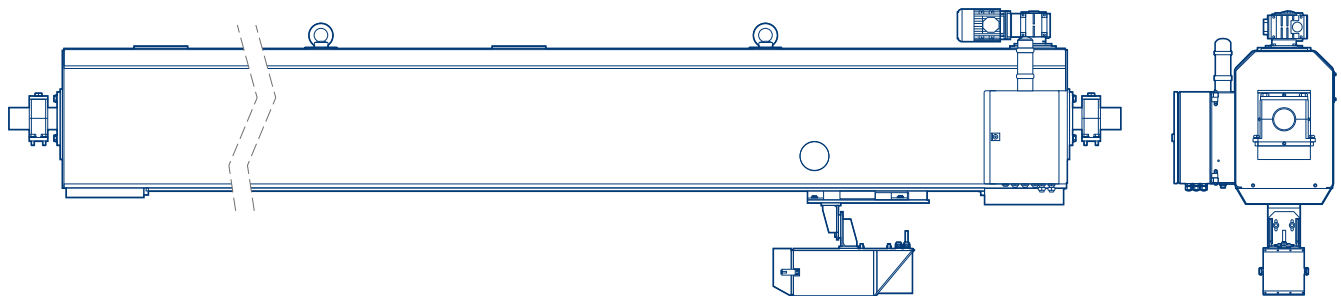
Specifications

- Frame height: 600 mm
- Height including sensor: 1 065 mm (standard sensor, 0° path angle)
- Frame width: 430 mm
- Frame length: 9 900 – 11 900 mm
- Web width: 7 705 – 9 705 mm
- Pivot range, measuring system: +/- 90°
- Pivot range, trunnion mount: +/- 90°
- Pivot range, foot mount: +/- 0
- Weight: 2 000 – 2 500 kg, depending on frame length
- Guiding rails: Hardened, hard chrome plated, polished

Specifications

- Garage: Not available
- Electronic controls: External
- Air/water distribution: External
- Drive: 3-phase AC motor, maintenance-free, with frequency inverter
- Toothed belt: Glass fiber reinforced, not stretchable
- Traversing speed: 600 mm/s
- Positioning accuracy: ± 1 mm
- Cooling: Cooler and fan required
- Max. number of sensor slots: 1 (3 slots on request)
- Width measuring carriage: 215 mm

Side view and front view of model 5012



We support you with our customized service packages

Thanks to our worldwide service locations and many years of know-how, we are very familiar with our customers' processes and are able to intervene immediately if necessary.

With our service packages individually tailored to customer requirements, we increase our customers' productivity by increasing plant availability, optimizing operating costs and ensuring quality.



VOITH

VOITH

Our Service –
Part of Your
Business.



Voith Group
St. Poeltener Str. 43
89522 Heidenheim, Germany

Contact:
Tel. +49 7321 37-3000
OnQuality@voith.com
www.voith.de/OnQuality



VOITH