

# Drive your innovations forward Voith Paper Technology Centers



## Your benefits

- + Increase your innovative strength through pilot trials
- + Minimize your investment risks
- + Efficiently develop new processes and products
- + Reduce costs by optimizing raw materials and production parameters
- + Analyze processes without affecting production
- + Consult with experienced Voith experts

### Speed up your innovation

Voith Paper Technology Centers are available to customers worldwide for pilot trials under realistic conditions to turn innovations into market-ready solutions.

For all process steps in paper manufacturing, established and new technologies can be tested under conditions similar to those in the production environment. To minimize investment risks, we offer you the opportunity to compare various machine configurations and work with you to determine the ideal concept. All installations are designed to respond flexibly to your specific requirements at all times.

### Why Voith?

Our pilot machines cover all production steps, from stock preparation through the entire paper manufacturing process, all in one location!

The Technology Centers are constantly equipped with the latest machines and use cutting-edge production processes. The flexible configuration options of our machines, comprehensive data logging and wide-ranging laboratory facilities allow for customized pilot trials with highly informative analyses.

We offer special expertise for the development of innovative paper products like flexible packaging solutions using our modernized pilot coater. The new products can also be tested for recyclability in our pilot stock preparation.

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### Stock preparation

- All stock preparation processes
- Primary and secondary furnish
- Paper grades: board, packaging, specialty papers, graphic papers
- All machines in industrial scale
- Individual machine and system trials

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### Paper machine

- Investigation of various former types, headbox and former settings, clothing and chemical dosing
- Multi-layer headbox with two approach flow systems for layered sheet structure
- Shoe-blade or roll-blade former
- Paper grades: packaging, specialty papers, graphic papers
- Speeds: 600–3,000 m/min
- Basis weights: 42–205 g/m<sup>2</sup>
- Wire width: 460 mm



### The integrated Voith approach

Our wide range of pilot facilities offers you the opportunity to conduct pilot operations that can combine several sections of the paper manufacturing process.

### Examples for pilot trials

- Combination of stock preparation and paper machine trials to evaluate the potential of optimized pulp
- Combination of calendering and coating trials to assess the effect of a calender on the coating process and evaluate the final quality
- Combination of coating and stock preparation trials to verify the recyclability of newly developed barrier papers

Following the trials, we are happy to support you on your ongoing development journey, either by coming up with new ideas or by entering a comprehensive service partnership.

### The following Technology Centers are located at our Heidenheim facility

- Fiber Technology Center
- Paper and Board Technology Center
- Coating Technology Center
- Calendering Technology Center
- Laboratory and Analysis Services, including:
  - Fiber lab
  - Paper lab
  - Coating Color lab
  - Research lab

### Other Voith Paper Technology Centers near you

- Motomiya, Japan: for coating and stock preparation trials
- Düren, Germany: for wet-laid non-wovens and banknote papers

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### Coater

- Investigation of entire coating process
- Cutting-edge coating processes
- Development of new paper grades, e.g. with barrier properties
- Longest non-contact drying section of its kind, fitted with state-of-the-art sensors
- All sized and coated paper grades
- Speed: up to 2,500 m/min
- Basis weight: 25–600 g/m<sup>2</sup>
- Web width: 800 mm



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### Calender

- Pre- and finish calendering: Soft and hard nip
- Splicing and edge cutting
- Pre-conditioning
- Paper grades: board, packaging, specialty papers, graphic papers
- Speed: up to 2,000 m/min
- All basis weights
- Web width: 300 and 800 mm



Pilot trials are part of the comprehensive Servolution portfolio



## Equipment services

### Installation & commissioning services

- Installation service
- Commissioning service

### Maintenance

- Inspection
- Preventive maintenance
- Corrective maintenance
- Equipment improvement
- Repair & refurbishment

### Materials

- Spare parts
- Wear parts & consumables



## Process services

### Audits

- Production line
- Maintenance
- Digitalization
- Energy
- Safety
- IT-Security

### Expert support / consulting

- Smart monitoring
- Data analytics
- Condition monitoring
- Technology
- Maintenance
- Engineering
- Automation

### Training

- Equipment
- Operation / Technology
- Safety
- Methodology

### Measuring & diagnostics

- 3D scan
- Alignment service
- MobiLab
- Paper moisture profile analysis
- Paper profile analysis (Tapio)
- Nip load measurement
- SpeedUp certificate
- Vibration analysis
- Wet end process analysis

### Pilot trials

- Stock Preparation
- Pilot Paper Machine
- Pilot Coater
- Pilot Calender
- Laboratory

Please click on this [link](#) or scan the QR code to visit our Technology Center website:



Voith Group  
St. Poeltener Str. 43  
89522 Heidenheim  
Germany

[www.voith.com](http://www.voith.com)

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Just contact us via our [webform](#).



Contact:  
Phone +49 7321 37-0  
[paper@voith.com](mailto:paper@voith.com)



# VOITH