

The ideal portfolio of operational Yankee service ProServices with BTG and Toscotec

ProServices

Your benefits

- + Services can be combined
- + Tailored to specific customer requirements
- + Services cover the main Yankee operational issues
- + Increase tissue production efficiency and performance

Service portfolio with eight services for tissue manufacturing

Eight different specialized measurement and diagnostic tools allow papermakers to troubleshoot most Yankee operational and safety issues to increase tissue production efficiency.

In addition to greater service proximity with on-site specialists at numerous, global locations, customers are also able to combine service offerings as part of ProServices.

“Customers benefit from our in-depth know-how and the bundled expertise we offer as a full-line supplier. There are no comparable services on the market.”

Daniel Schoeps da Silva
Global Product Manager Tissue at Voith

Why Voith, BTG and Toscotec?

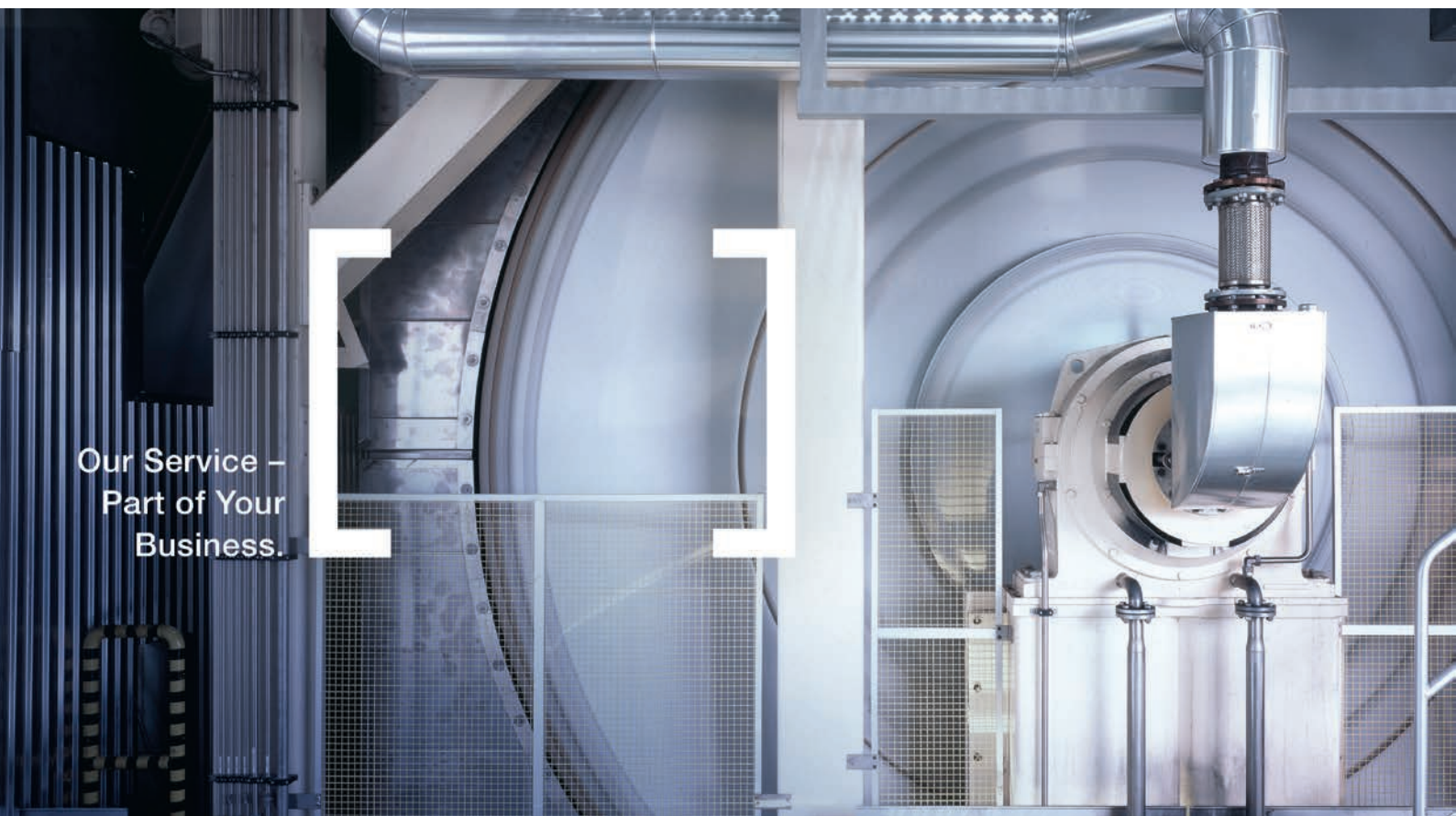
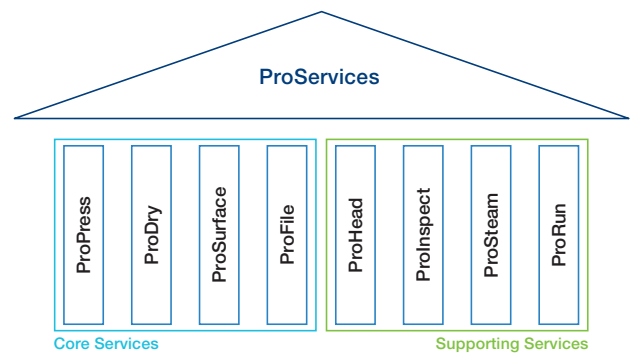
As a full-line supplier of machinery and consumables, we investigate all details and aspects of tissue making. Our understanding of process knowledge encompasses aspects of increasing productivity and safety as well as quality and energy.

Yankee on-site business capabilities:

- Dedicated research and development, application, as well as operations teams
- Unique service and troubleshooting portfolio

Portfolio overview

Four core services and four additional supporting services can be tailored to meet specific customer requirements.



Our Service –
Part of Your
Business.

Core Services

ProPress: Press roll load check

Quantitative press load measurement/calibration using load cells. Target is to identify overload or underload condition that can lead to efficiency/runability issues and to unsafe operation of the system.

- + **Correct underload condition will result in better runability**
- + **Improved moisture profile**
- + **Reduced energy consumption**
- + **Correct overload is critical for safe operation of the Yankee**

ProDry: Paper/Yankee infra-red analysis

High resolution temperature measurement of the paper during production using the Yankee rotation as main reference, allowing for the identification of issues with the condensate removal system, pressing performance issues, showering, etc.

- + **Evaluate the performance of the condensate removal system at different conditions and the pressing performance, especially at the edge areas**
- + **Evaluate influence of fabric conditioning, wet end inconsistencies, air systems balance and profiling, etc.**

ProSurface: Yankee shape topography

High resolution measurement of the Yankee shape topography (in MD and CD) during production, no-sheet condition and "grinding conditions," allowing for the identification of worn surface areas, crown mismatch, condensate removal system issues, etc.

- + **Evaluate Yankee shape deformation when comparing different conditions**
- + **Access current Yankee shape condition to recognize worn areas**
- + **Evaluate the performance of the condensate removal system**

ProFile: Blade holder profiling

The objective of the audit is to identify and correct alignment issues with the blade holder that impact the safe and efficient operation of high-performance crepe and cleaning doctor blades.

- + **Improved blade lifetime and runability**
- + **Reduce risk of damaging the Yankee surface**
- + **Improved paper quality/profile and reduced waste**

“ProSurface measures the shape of the Yankee during production, and ProDry measures the temperature of the paper coming out – to better understand potential process issues.”

Ian Padley Global Solutions Team Manager Tissue at BTG

Supporting Services

ProHead: Yankee head tilt

Measures the head tilt angle according to TAPPI standards. Normally, it is required by insurance companies to be done regularly, approximately every other year.

- + **Early identification of head-to-shell corrosion**
- + **Fulfill TAPPI standard requirements**

ProInspect: Internal inspection and surface inspect

Visual inspection of the Yankee internal condition (soda straw gaps, plugging, internal corrosion, etc.), visual inspection of the surface, run-out measurement and surroundings visual inspection (doctor holder, head-to-shell connection, etc.)

- + **Identification and correction of potential issues such as soda straw plugging**

ProSteam: Steam and condensate audit

Collection of the steam and condensate parameters in the field during normal operation. Calculation of the current Yankee drying efficiency and comparison of the current steam consumption, differential pressure and soda straw velocity to design.

- + **Identification of potential issues in the steam system**

ProRun: Run-out measurement during shutdown

High resolution measurement of the Yankee shape topography during "grinding conditions," allowing for the identification of worn surface areas.

- + **Precise identification of worn areas**
- + **Helps to define when surface intervention is needed, such as grinding or re-metallization**

ProServices 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

For more information, contact your Voith or BTG sales representative



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