

# Headbox

Performance study

Service & Troubleshooting

Measurement services and analysis

Profiling Tools



**ProCoats**  
Consulting

**ProCoats** - Long expertise knowledge within  
the paper industry – Headboxes,  
coating machines – Training of operators.  
Troubleshooting.

**TAPIO**  
Technologies

**Tapio** — a company specializing in providing lab and  
online analyzers and analysis services for paper, board,  
packaging, tissue, plastic, printing, converting and  
nonwovens industries. Tapio is known for its unique  
capability of connecting quality variations to production  
line elements causing these variations.

**VISILAB**  
SIGNAL TECHNOLOGIES

**Visilab** — Unique instruments for control,  
troubleshooting and reserach in paper and  
pulp industry, plastics, pigments and all kinds  
Of fibre products.



## Headbox performance study

- ✓ Before/after headbox study
- ✓ Send reels for testing
- ✓ Standard parameters
- ✓ Analysing report and discussion

## Trouble Shooting

- ✓ Profile problems
- ✓ Runnability problems
- ✓ Formation problems
- ✓ Stability / Grammage
- ✓ Performance limits

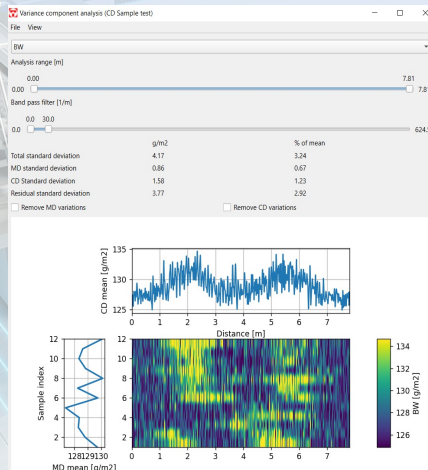
→ **Diagnostics and recommendations for corrective actions**

## Service

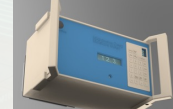
- ✓ Opening HB
- ✓ Removal of slicelip
- ✓ Washing
- ✓ Removal of inside parts ( when needed )
- ✓ Cleaning
- ✓ Polishing
- ✓ Non-Stick coating
- ✓ Reassemble
- ✓ Slicelip adjustment

## Profiling analysis

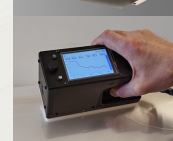
- ✓ Moisture
- ✓ Roll Quality
- ✓ Profiler performance



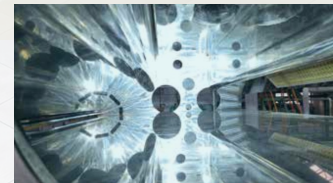
**Visilab**  
Moisture meters for paper and board



**Visilab MK30R - New Version**  
Portable Deep Moisture Meter for thick materials 30 mm – Same features as AK30



**Tapio Technologies**  
**NEW** Roll Hardness Tester – Roll Profiler





## Basic info of Headbox



## Headbox Service & Trouble Shooting

### What do we need to start with?

- Basic information of your machine
  - Headbox model, year, former type, history
  - Grammage, speed, slice opening, flow rate
  - Cleanliness, defects?
- Profile performance
  - Print screen of bw profiles and actuator profile
- Description of the problem, suspected cause of the problem
  - How is the problem seen?
  - What makes it worse?
  - How have you tried to solve it?



If you want to find out more about variations

## Measurement services and analysis

Pls send rolls for analysis - Tapio



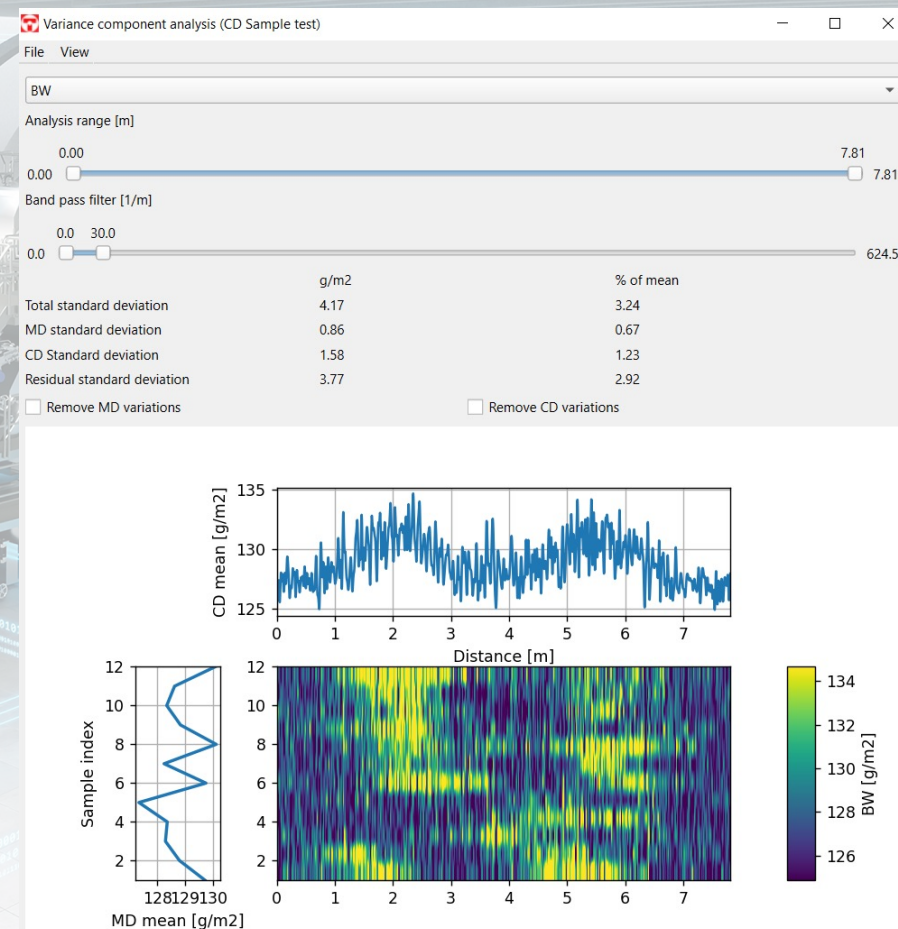
Find the relationship between quality variations and machine components. The Tapio Analyzer has been paper mills' ultimate problem solver and rebuild warranty tool since the 1990s.





## Headbox performance study

- ✓ Before/after headbox study
- ✓ Send reels for testing
- ✓ Standard parameters
- ✓ Analysing report and discussion
- Recommended actions





# Profiling tools – Portable meters

## Tapio RQP Live -Leading Innovation in Roll Quality Analysis – CD Profile



Control of jumbo  
Customer rolls  
Technical service  
Do you have a problem  
and don't know what it is?

### Introduction to Tapio RQP Live

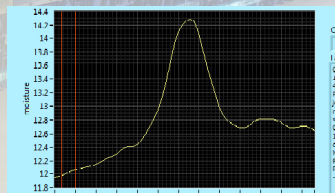
- Tapio RQP Live is a state-of-the-art tool for analyzing roll hardness.
- Provides an instant, high-resolution **hardness profile** (hardness as a function of distance).
- Hardness profile is a good indicator of critical roll quality parameters to detect faults such as bagginess, rope marks, or loose edges.
- Convenient alert limits feature to make an **immediate decision on accepting or rejecting a roll**

## Visiab AK 30 and MK 30 Moisture meters



### Visiab AK 30 Nr 1 – Portable Moisture meter

Since it was first introduced in 2010 it has been delivered to many paper/board mills around the world. It is probably the only hand held moisture meter that could be called – **General Purpose** - meter due to its accuracy, application possibilities, potential to improve paper and board quality, user software and the fact it can also measure from the running web.



Possibility to measure moisture profile trends

### Visiab MK30R - **New Version** Portable Deep Moisture Meter for thick materials 30 mm – Same features as AK30







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Nipman Paper Technology is the exclusive Scandinavian and UK representative for the below Finnish machinery and service suppliers.



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