Most accurate and profitable organic filter

Field study results prove the majority of **YarnMaster[®] PRISMA** with its unique RGB technology in detecting organic foreign matter.

The study took place in **China** at a Loepfe customers plant to compare **YarnMaster® PRISMA** to **Uster Quantum 4** on the accuracy of organic matter detection.

PRISMA proves to be the right choice for profitable yarn clearing in the application of **100% cotton combed compact yarns Ne 40** produced for the highest requirements.





Content

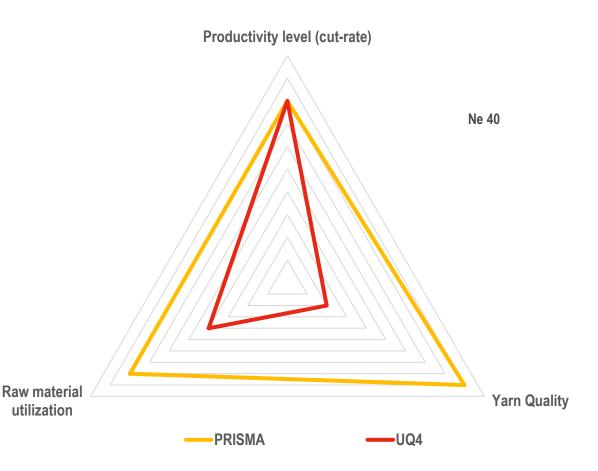
Most accurate and profitable organic filter!

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1. Overall summary

- PRISMA reaches 4.5 times higher success rate with very sensitive F-clearing
- On cross-winding with both clearers PRISMA had more cuts. Meaning on the initial winding with Quantum 4, not all foreign fibers were detected; this confirms the overall evaluation of both systems
- Results on PRISMA concerning the detection of foreign fibers and filtering and **ignoring organics** is on the technical possible limit and shows the perfect performance of PRISMA





Sensors:

 PRISMA DMFP* compared to Quantum 4 on foreign matter clearing and organic matter detection (F-Clearing)

Location:

Loepfe customer China

Raw Material:

• 100% cotton from China Ne 40 combed compact

Winder:

Study was done with both clearers on the same winding machine

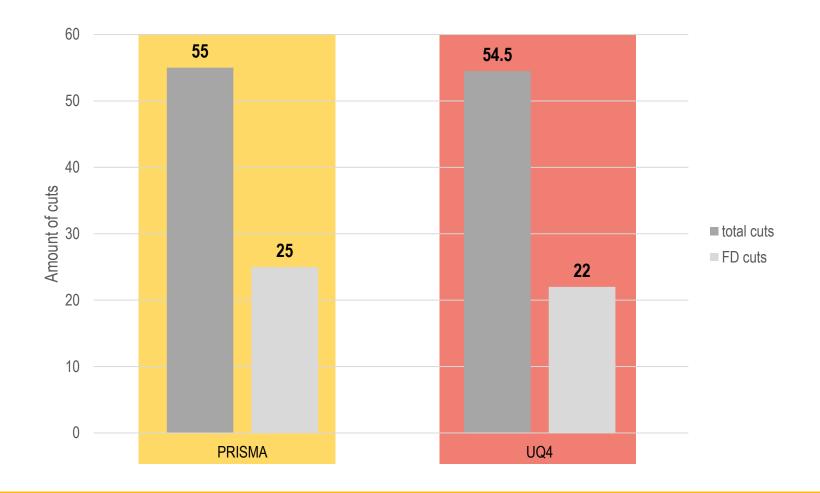
Goal:

• Better success rate of organic matter detection



3. Results on yarn clearers

- Slightly higher FD cuts on PRISMA (target from customer same amount of overall cuts and FD cuts)
- PRISMA comes with a higher sensitivity range and can detect more faults due to unique RGB-technology





3. Results on yarn clearers

- On cross-winding with both clearers PRISMA had more cuts. Meaning on the initial winding with the latest conventional yarn clearer, not all foreign fibers were detected; this confirms the overall evaluation of both systems
- PRISMA reaches a 4.5 times higher success rate with very sensitive F-clearing
- Results on PRISMA concerning the detection of foreign fibers and filtering and ignoring organics is on the technical possible limit and shows the perfect performance of PRISMA

