

Most accurate and profitable organic filter

Field Study 100-A_2021
PRISMA compared to latest competitor model, Ne 40

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 **latest competitor model** 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.

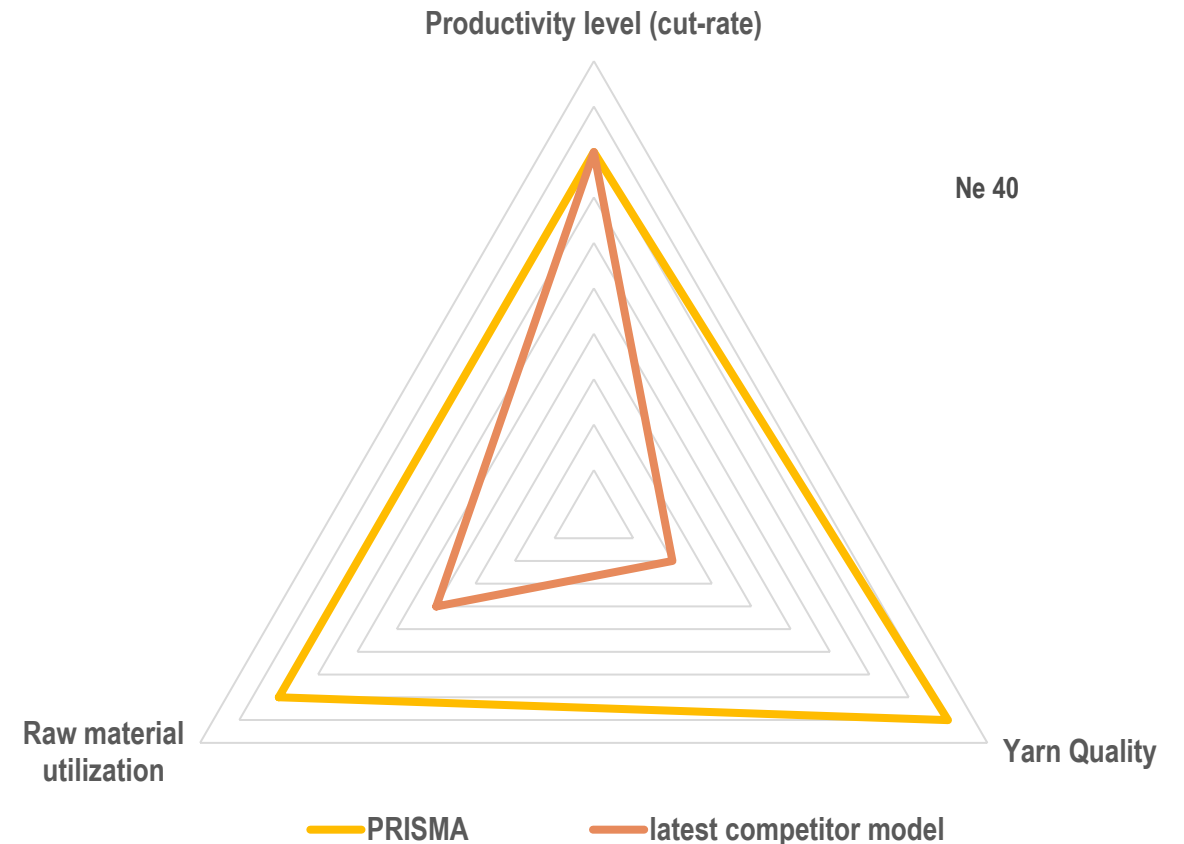


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1. Overall summary

- 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 latest competitor model, 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



2. Study set-up

Sensors:

- PRISMA DMFP* compared to latest competitor model 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:

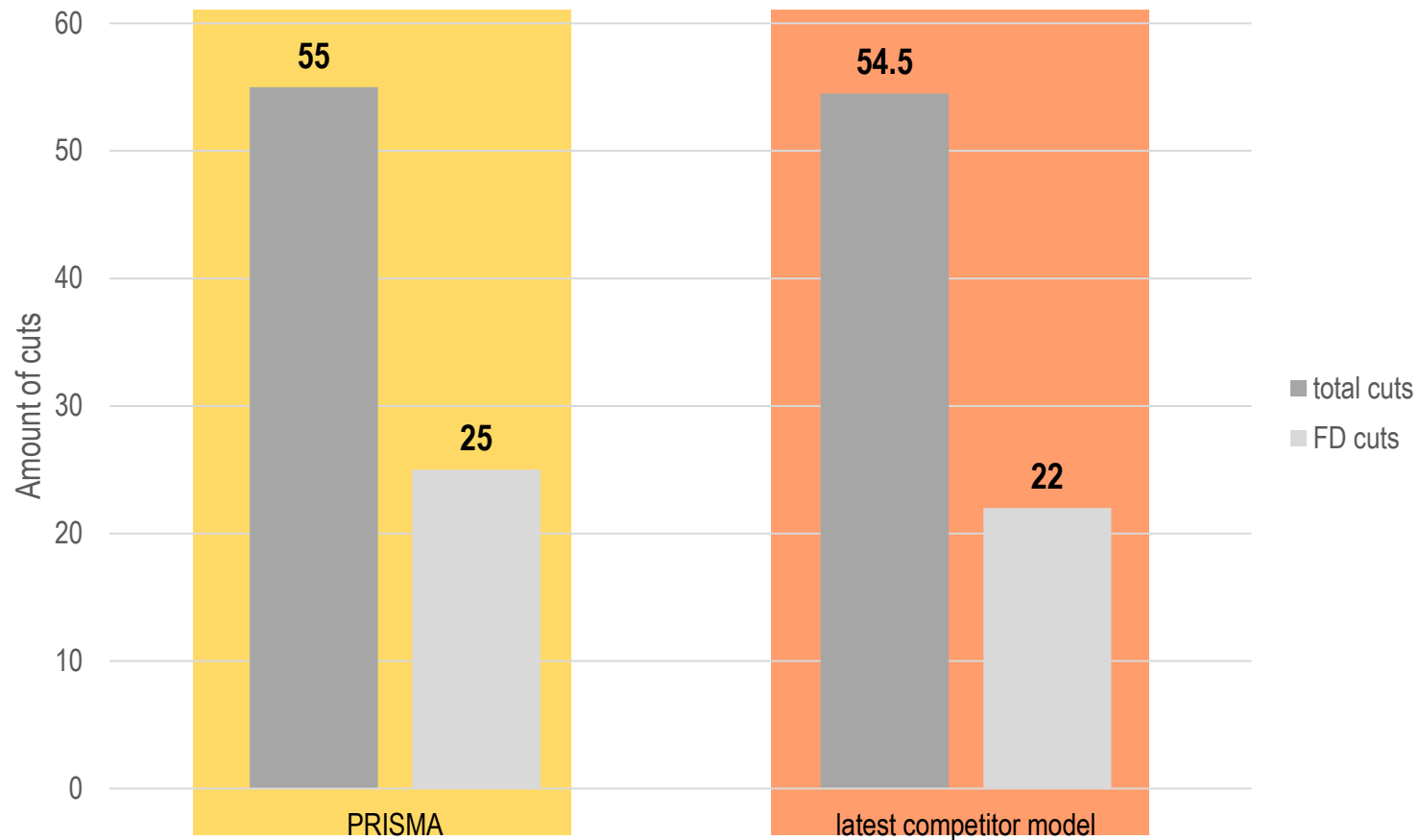
- Study was done with both clearers on the same winding machine

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

