

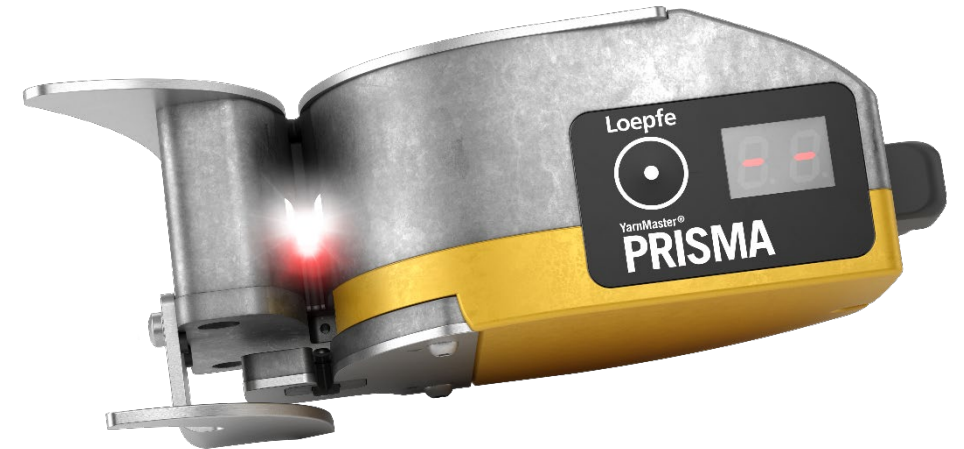
Best F-clearing performance!

Field Study 200-01_December 2022
PRISMA compared to ZENIT+, Ne 60

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

The study took place in **China** at a Loepfe customers plant to compare **PRISMA to ZENIT+** on their F-clearing performance!

YarnMaster® PRISMA proves to be the right choice for profitable yarn clearing in the application of **100% cotton compact yarns Ne 60** produced for the highest requirements.

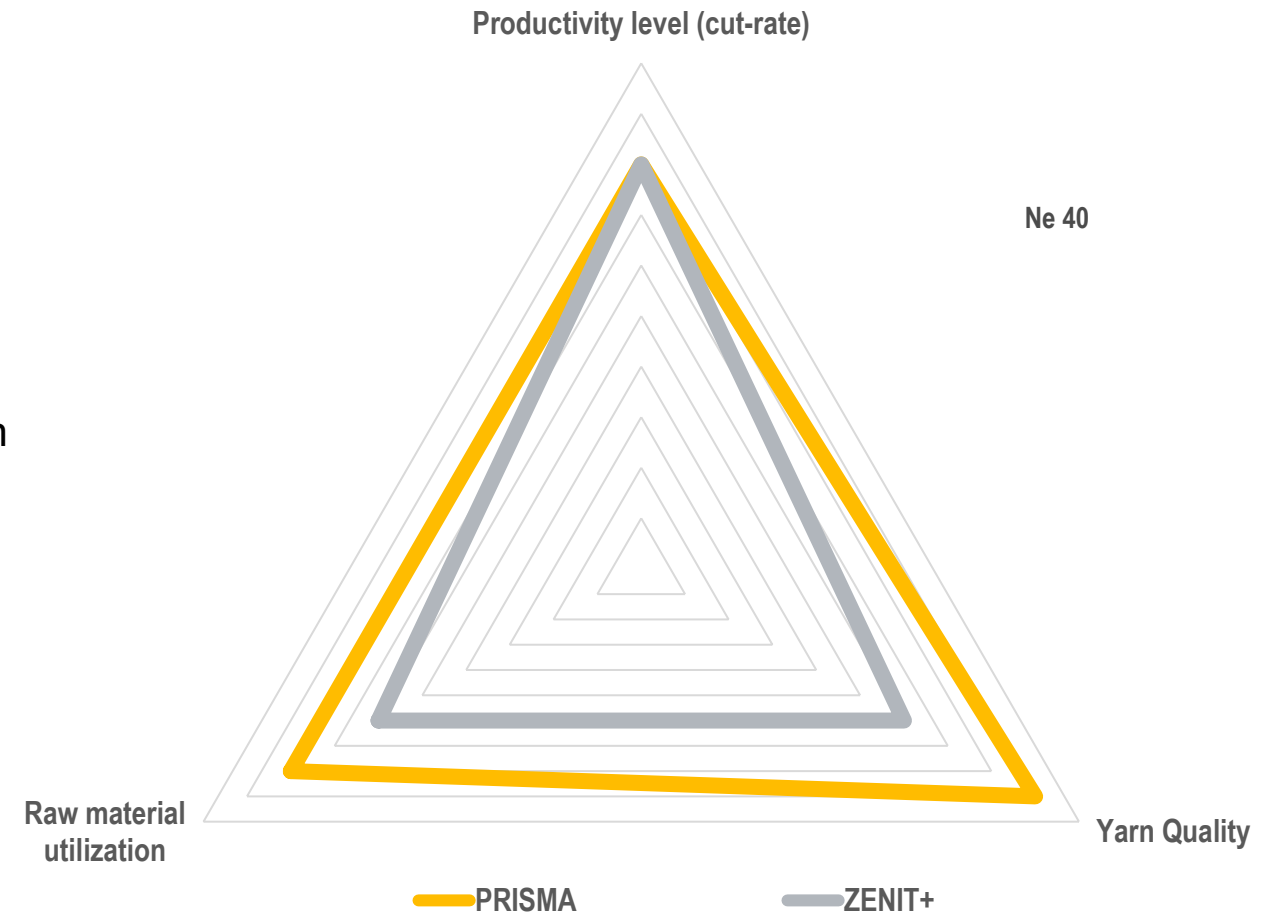


Best F-clearing performance!

1. Overall summary	3
2. Study set-up	4
3. Results on yarn clearers	5

1. Overall summary

- On initial clearing PRISMA detects 100 % more real foreign fiber faults
- On **rewinding of the same winding position and same clearer** PRISMA had nearly no events which mean the success rate is extremely high
- 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 the ZENIT+ DFP* on F-clearing performance

Location:

- Loepfe Customer China

Raw Material

- 100% cotton from China Ne 60 compact

Winder:

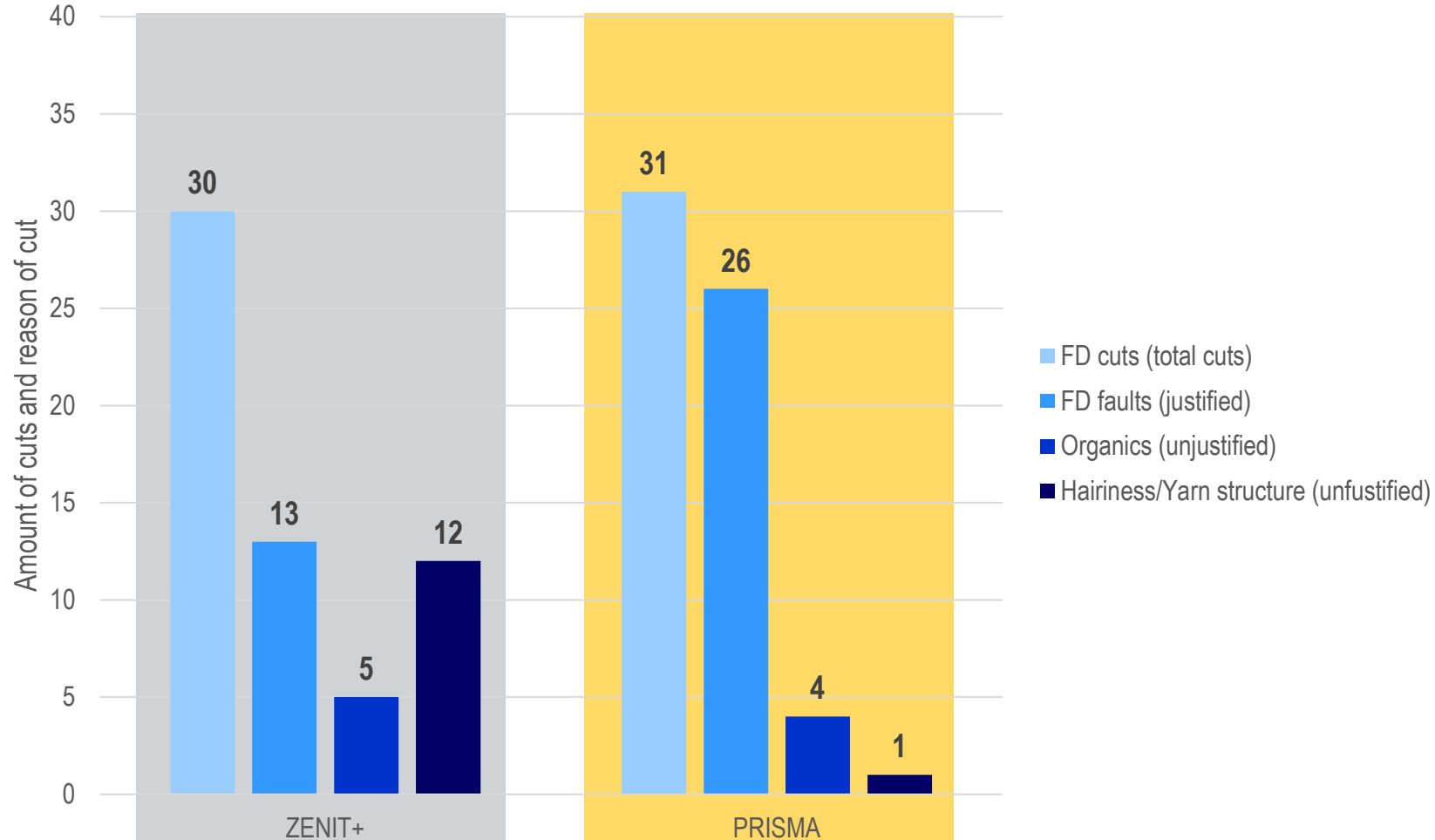
- Study was done on the same winding machine

Goal:

- Best F-Clearing performance

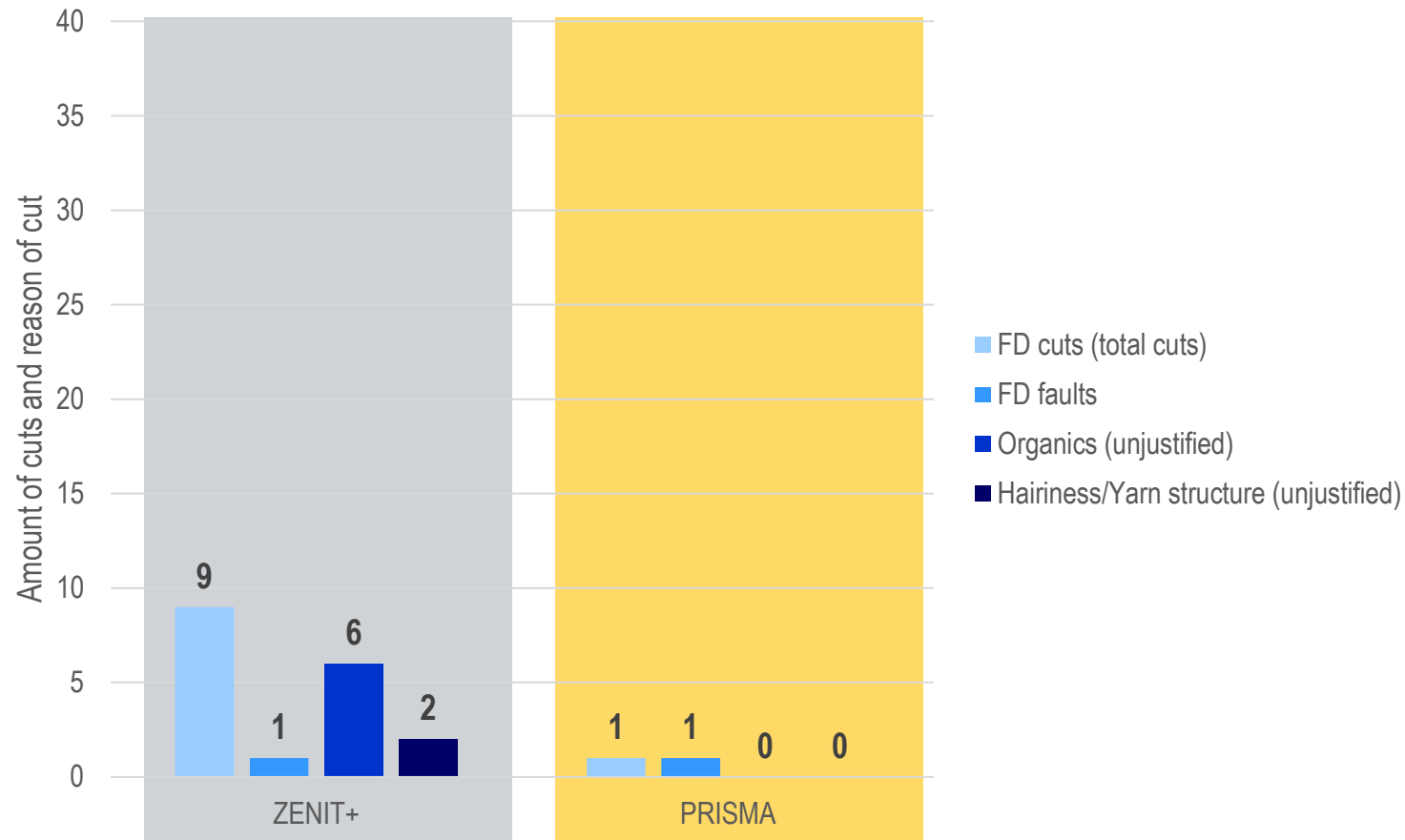
3. Results on yarn clearers

- On initial clearing PRISMA detects 100 % more real foreign fiber faults
- PRISMA has a higher sensitivity and can detect more faults due to unique RGB-technology



3. Results on yarn clearers

- On **rewinding of same winding position and same clearer** PRISMA had nearly no events which means the success rate is extremely high
- Due to RGB technology PRISMA can differentiate perfectly on organic matters



3. Results on yarn clearers

- On **cross-winding with both clearers** PRISMA had more cuts that means on the initial winding with ZENIT+ 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

