

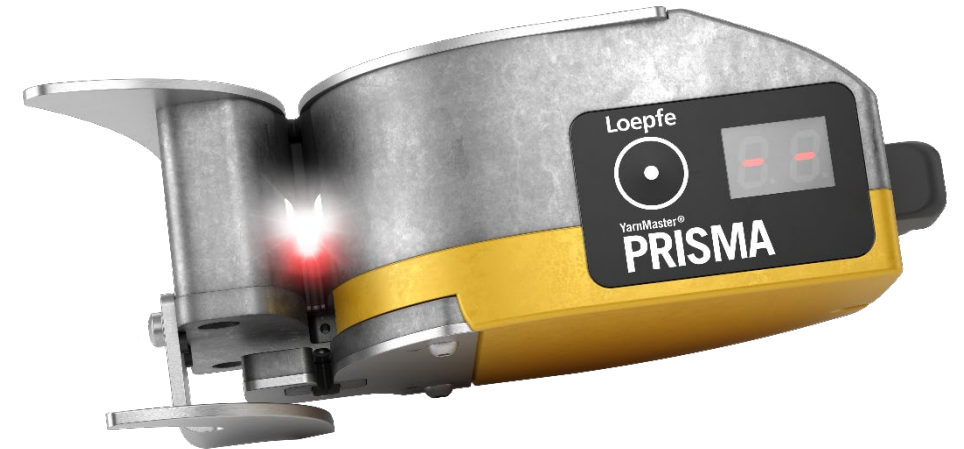
Better final fabric quality with the same cut level!

Field Study 100-F_November 2022
PRISMA compared to UQ4, Ne 30

Field study results with **YarnMaster® PRISMA** show a better final fabric quality, meaning less contamination while keeping the same cut level.

The study took place in India at a Loepfe customer's plant to compare **PRISMA to Uster Quantum 4** on total cut rate and contamination in the final fabric.

PRISMA proves to be the right choice for profitable yarn clearing in the application of **100% cotton yarn Ne 30 combed** produced for the highest requirements.



Better final fabric quality with the same cut level!

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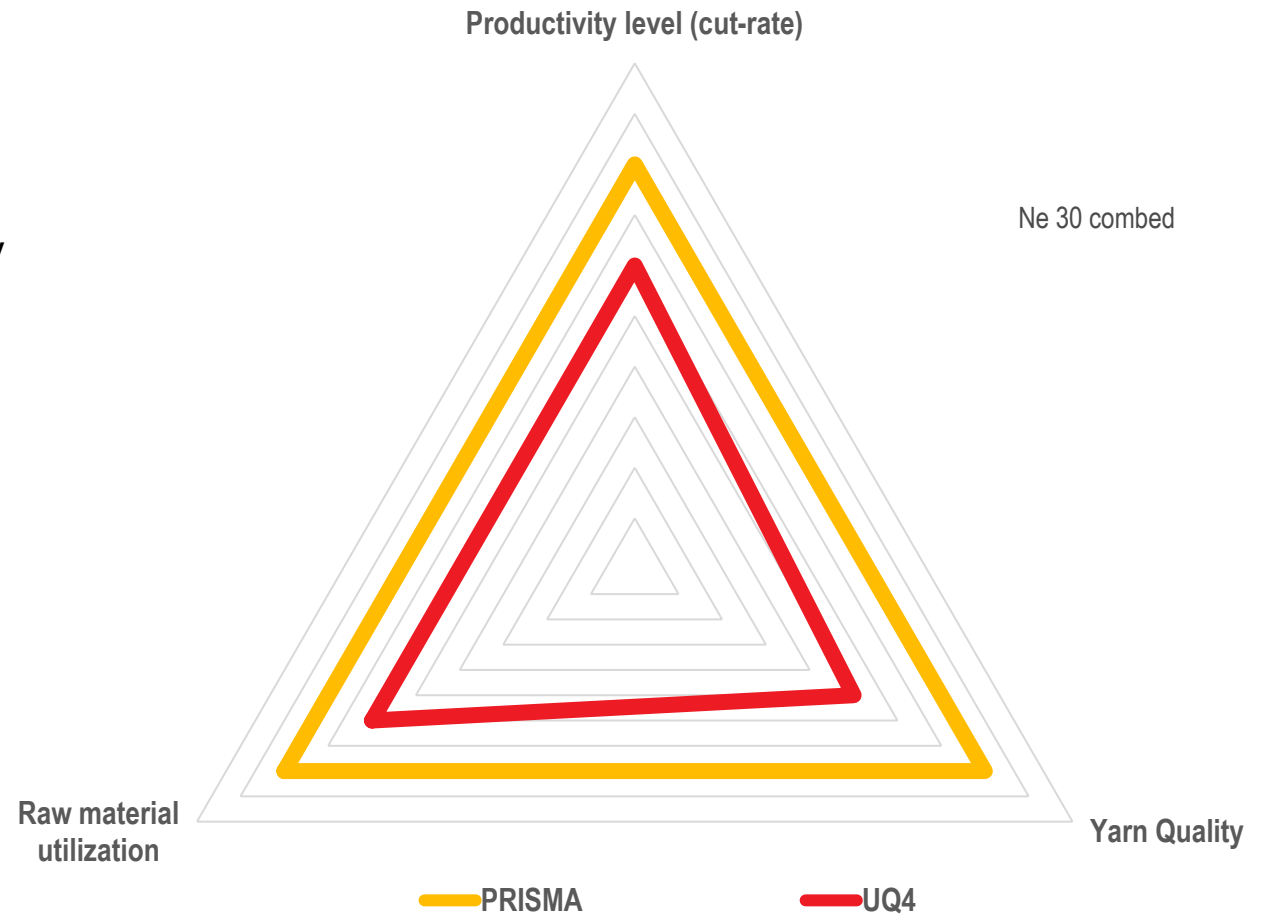
1. Overall summary

Lower cut rate with PRISMA

- 10 % lower total cut rate
- The higher production leads to lower energy costs

Fabric Quality tested in two different external laboratory

- Fabric cleared with PRISMA has a 40 % lower total contamination with PP faults and in the second laboratory 55 % lower total contamination
- **Less cuts on winding machine and better fabric quality with PRISMA**



2. Study set-up

Sensors:

- PRISMA DMFP* compared to the Quantum 4 on total cut rate and contamination in final fabric

Location:

- Loepfe Customer India

Raw Material

- 100% cotton from India Ne 30 combed

Winder:

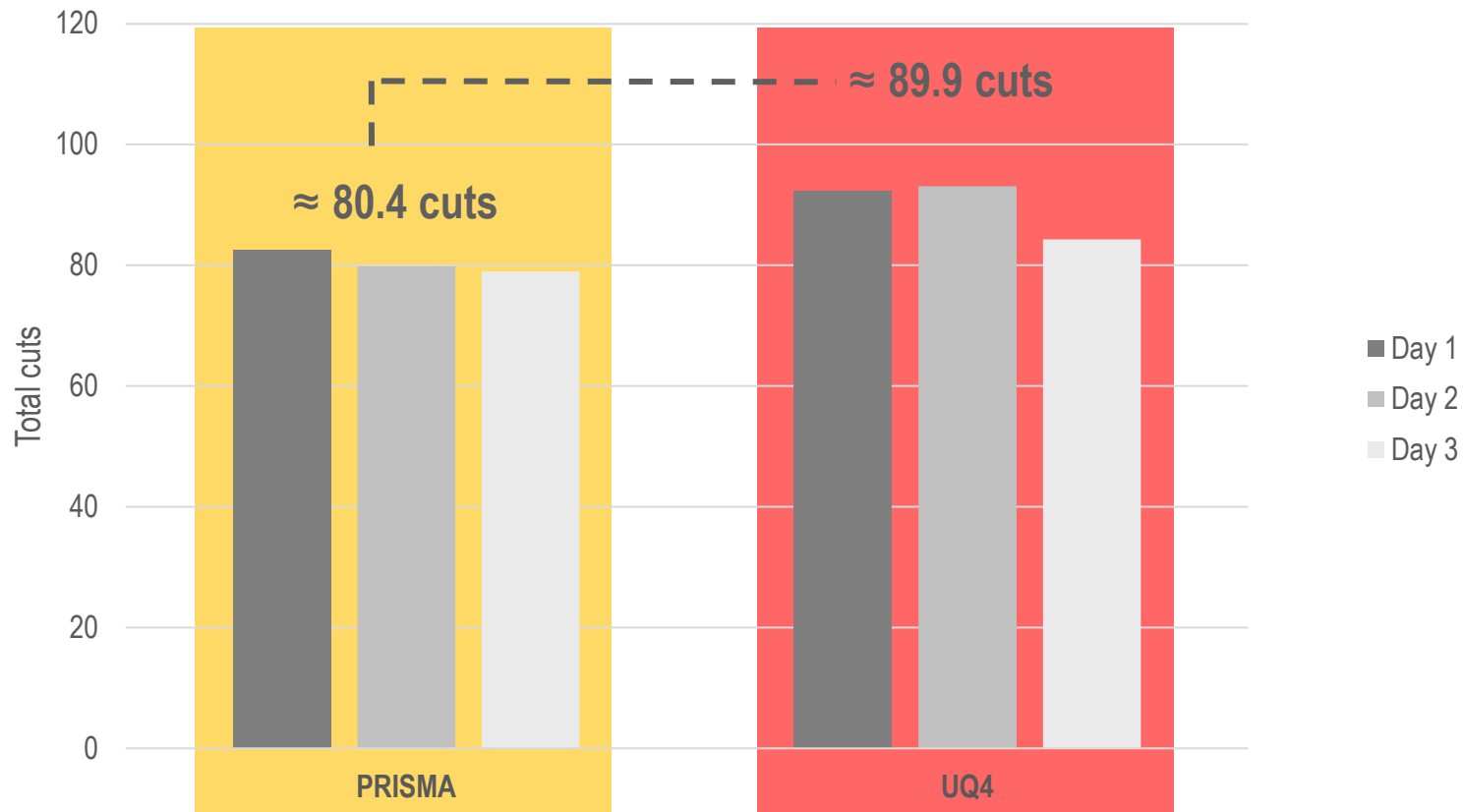
- Studies were done on two Schlafhorst ACX6 winding machines side by side with 38 spindles each

Goal:

- Same cuts by better final fabric quality

3. Results on yarn clearers

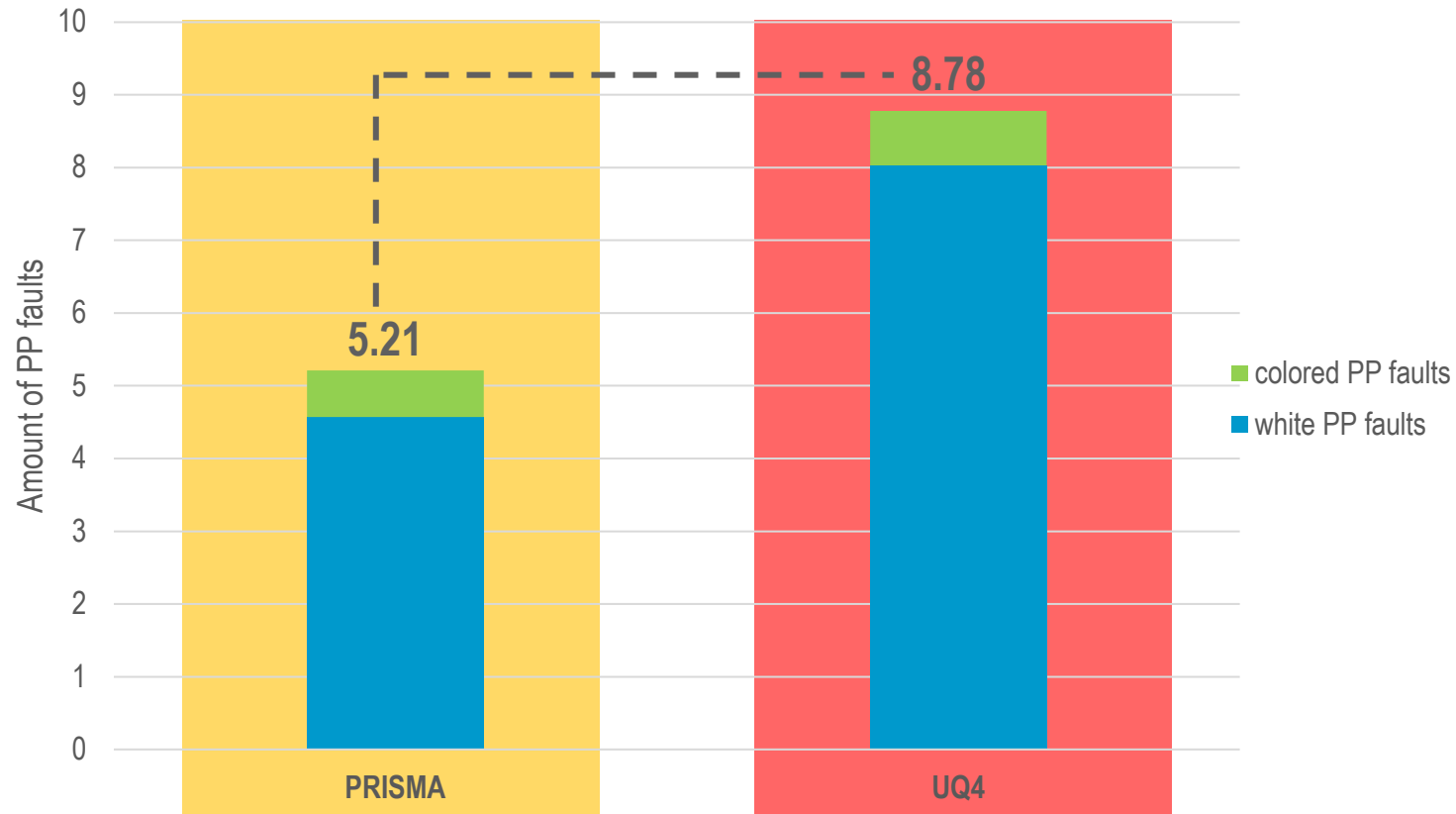
- PRISMA has a **10 % lower** total cut rate
- Consistent cut level shift over shift
- The higher production of PRISMA leads to lower energy costs



4. Results on laboratory testing

Amount of PP faults tested in an external laboratory

- Tested with each 10 kg knitted fabric
- PRISMA has a **40 % lower** total contamination with PP faults
- Less cuts on winding machine and better fabric quality with PRISMA



4. Results on laboratory testing

Amount of contamination tested in a second external laboratory

- Tested with each 10 kg knitted fabric
- PRISMA has a **55 % lower** total contamination
- Less cuts on the winding machine and better fabric quality with PRISMA

