

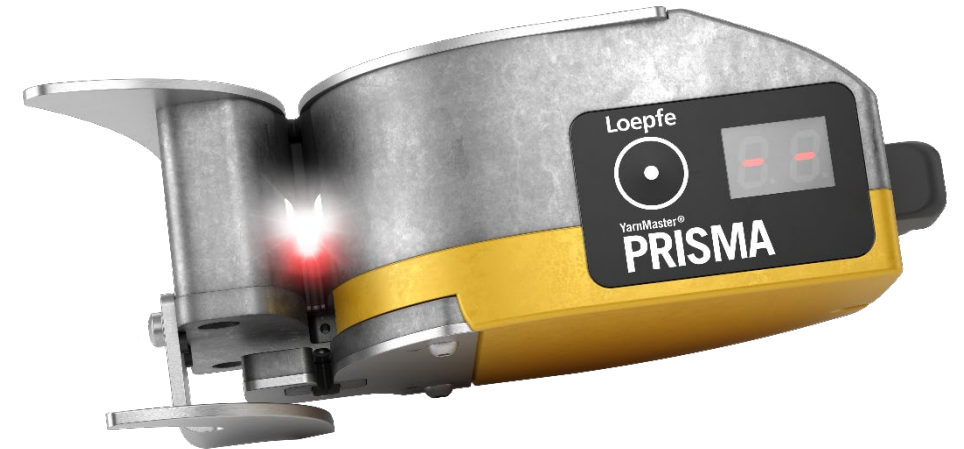
# Best success rate for organic matter detection!

Field Study 100-B\_May 2021  
PRISMA compared to UQ3, Ne 20

Field study results prove the majority of **YarnMaster® PRISMA** with its unique RGB technology with an impressive success rate in the organic matter detection challenge.

The study took place in **Turkey** at a Loepfe customers plant to compare **PRISMA to Uster Quantum 3** on the success rate of organic matter detection.

PRISMA is the right choice for profitable yarn clearing the application of a highly contaminated **100% cotton Ne 20** produced for the highest requirements.



Best success rate for organic matter detection!

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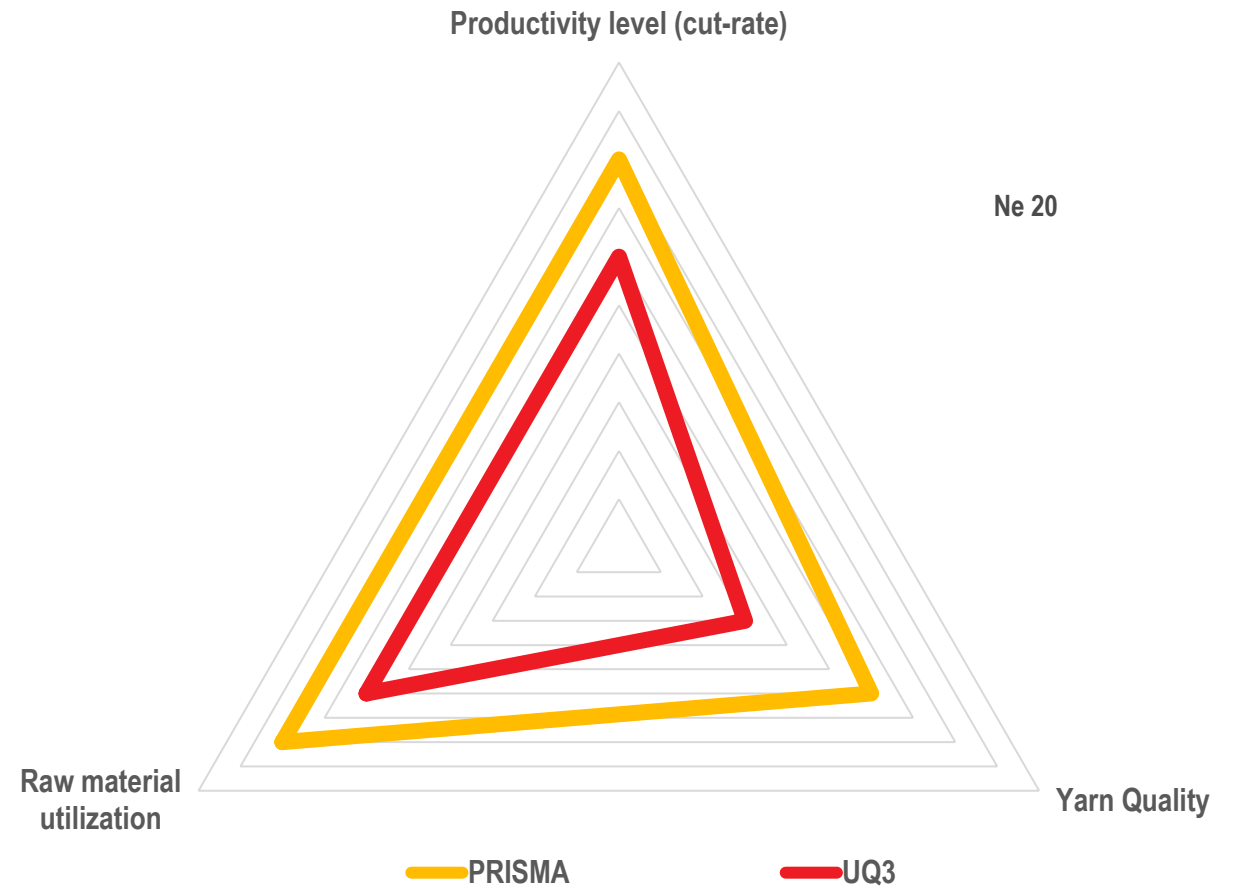
# 1. Overall summary

Significant higher success rate

- PRISMA reached a  $\approx$  **100% better success** rate in filtering organics
- **27% success rate with UQ3**
- **55% success rate with PRISMA**

Visual verification of 100 FD cuts display

- **73 unjustified organics matter with Quantum 3**
- **45 unjustified organics matter with PRISMA**



## 2. Study set-up

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### Sensors:

- PRISMA DMFP\* compared to the Quantum 3 on organic matter detection (F-Clearing)

### Location:

- Loepfe Customer Turkey

### Raw Material

- 100% cotton Ne 20 from Azerbaijan with a high organic contamination

### Winder:

- Study was done on the same winding machine

### Goal:

- Better success rate of organic matter detection



### 3. Results on yarn clearers

The 100 FD cuts were put on the yarn boards to verify their accuracy and it showed:

- PRISMA organic filter reached a **≈ 100 % better success** rate in the filtering of organics
  - Only PRISMA can filter on such a high clearing level due to **RGB technology** which can analyze the color of organic matter
  - PRISMA gives control to the operator and provides clear information for decision-making
- PRISMA was set on a medium sensitivity level
- UQ3 at the maximum

