

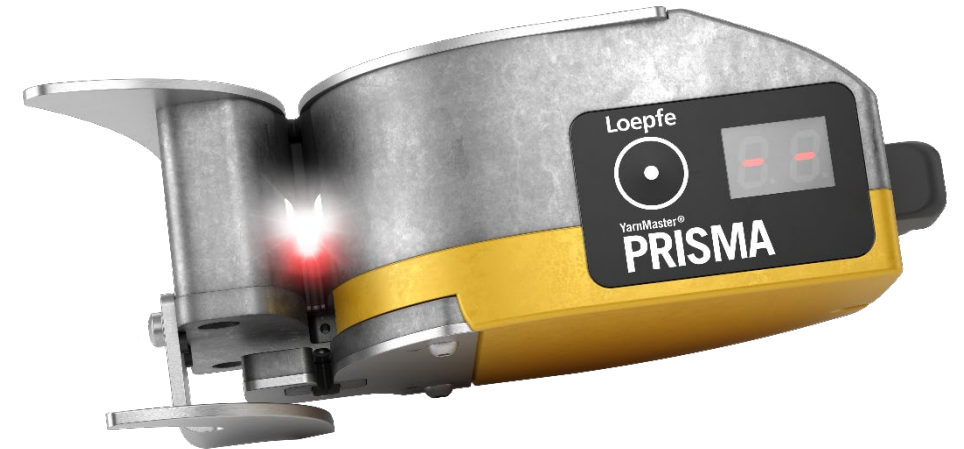
Best success rate for organic matter detection!

Field Study 100-B_May 2021
PRISMA compared to former competitor model, 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 customer plant to compare **PRISMA** to a **former competitor model** 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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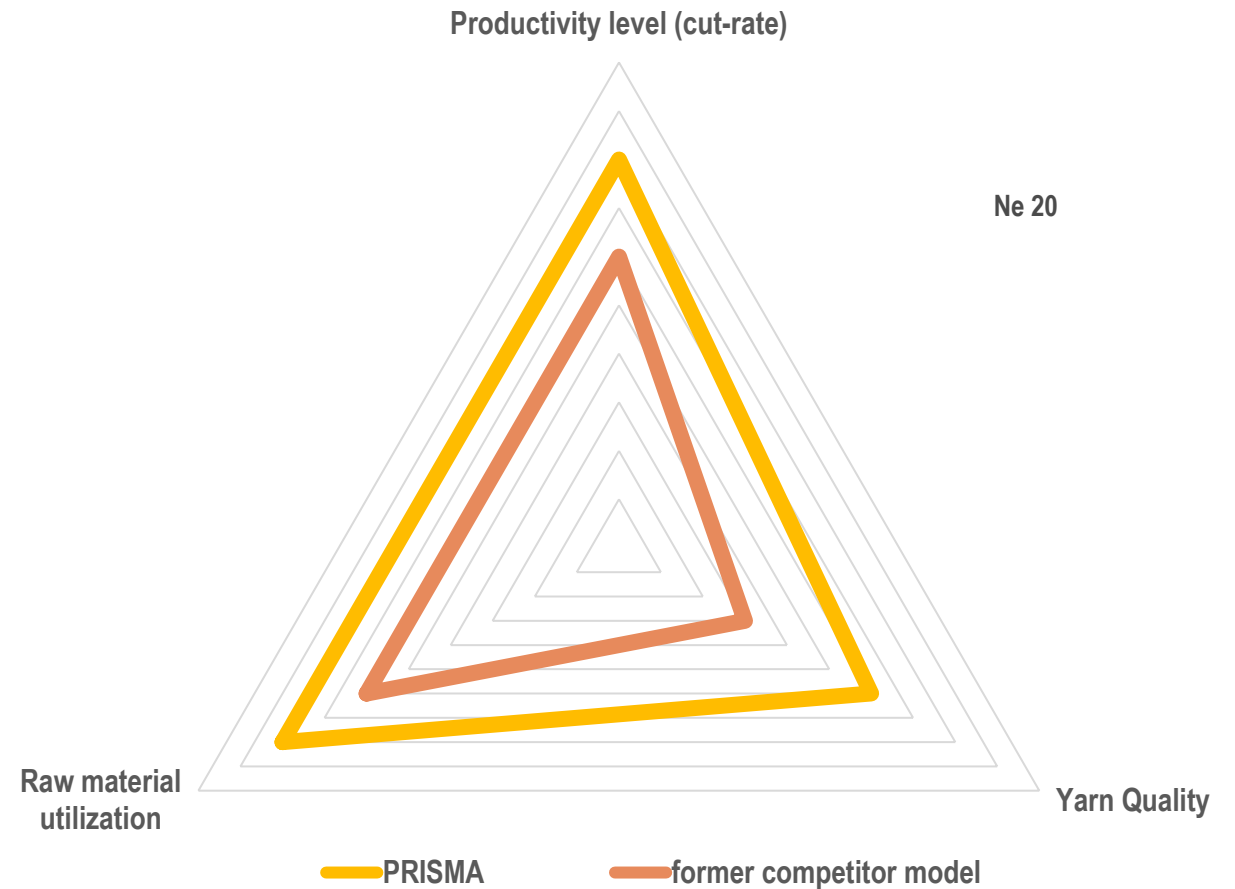
1. Overall summary

Significant higher success rate

- PRISMA reached a **≈ 100% better success rate** in filtering organics
- **27% success rate with former competitor model**
- **55% success rate with PRISMA**

Visual verification of 100 FD cuts display

- **73 unjustified organics matter with the former competitor model**
- **45 unjustified organics matter with PRISMA**



2. Study set-up

Sensors:

- PRISMA DMFP* compared to the former competitor model on organic matter detection (F-Clearing)

Location:

- Loepfe Customer Turkey

Raw Material

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

Winder:

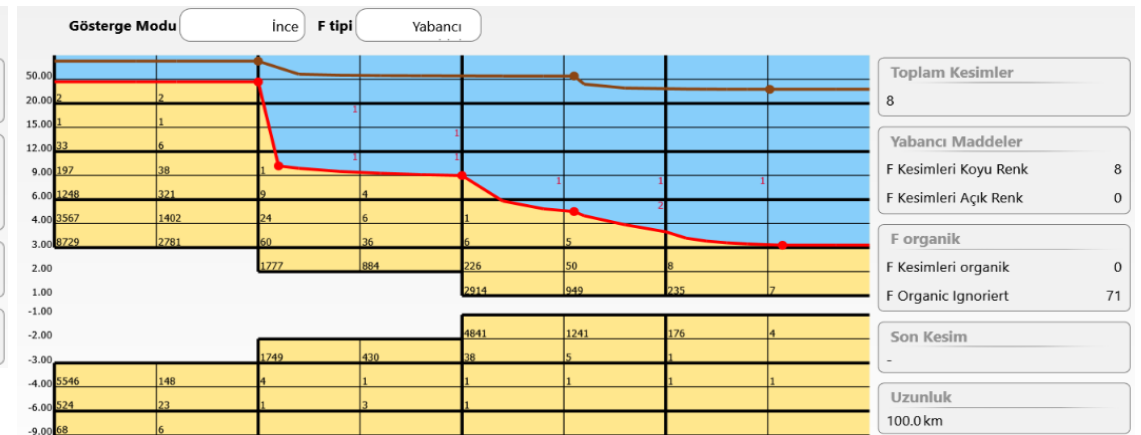
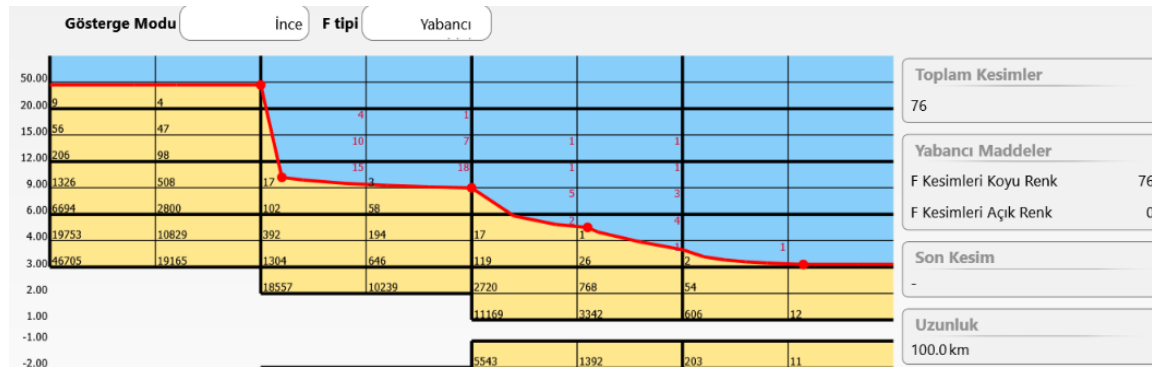
- Study was done on the same winding machine

Goal:

- Better success rate of organic matter detection

3. Results on yarn clearers

PRISMA		Former competitor model	
FD cut rate without organic filter		FD cut rate without organic filter	
FD cuts / 100 km	76	FD cuts / 100 km	76
Reduction by $\approx 89\%$	$\approx 89\%$	Reduction b	$\approx 85\%$
FD cut rate with organic filter		FD cut rate with organic filter	
FD cuts / 100 km	8	FD cuts / 100 km	11



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
- Former competitor model at the maximum

