



Loepfe



# YARNMASTER® ZENIT



Loepfe



## BUILT TO SEE MORE

### YARNMASTER® ZENIT

With the new YarnMaster Zenit generation LOEPFE succeeded in raising the reliable technology of optical yarn clearers to a new level. It is intended for customers with the highest demands on yarn clearing and yarn quality who want to be ensured of safety and reliability, even under the most problematic ambient conditions.

*The yarn fault is illuminated from all sides in the optical mirror field. Special precautions ensure reliable measuring results, irrespective of position and color of the yarn fault, of the influence of stray light, ageing and dust.*



#### The decisive factors are:

##### → Measuring principle

LOEPFE's yarn clearers always used optical technology.

- Independent of the material
- Measuring results are not affected by ambient conditions
- Always constant conditions

##### → Flexibility

The best yarn clearer for all applications!

- For all staple fiber yarns and materials
- A sensing head covering the following yarn count ranges:
  - TK YM ZENIT Ne 2.4 – 320
  - TK YM ZENIT F(P) Ne 4.1 – 320
- For all splicer types
- Maximum investment security
- High economic efficiency



# PIONEER IN FOREIGN MATTER AND P

## YARNMASTER® ZENIT F

**LOEPFE is pioneer in foreign matter detection since 1991.**

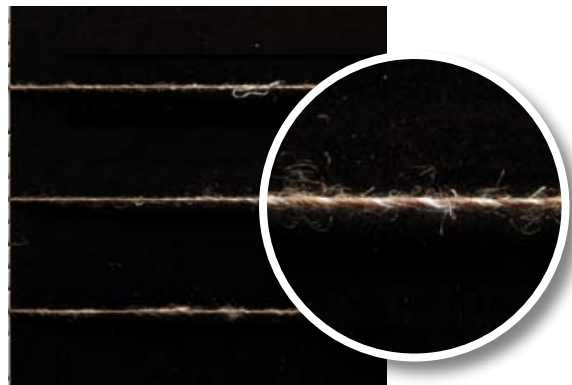
The redesigned YarnMaster Zenit F sensor technology ensures a unprecedented foreign matter clearing precision.

The yarn body is illuminated sequentially from several angles in order to fully evaluate the faults. Signals resulting from reflection and transmission are computed so that yarn diameter differences are compensated and foreign matters made visible.

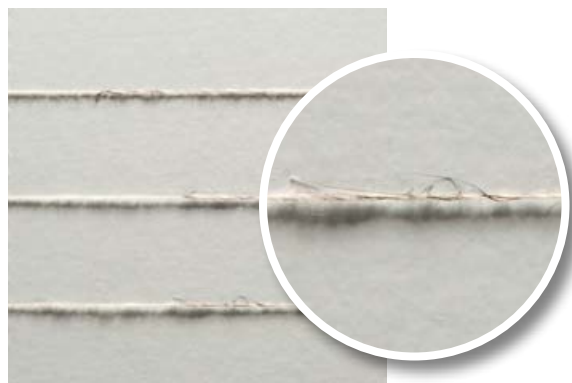
LOEPFE successfully implements the wide know-how for all sorts of applications. Disturbing foreign matters are reliably detected and cleared in raw-white, dyed as well as mélange staple yarns.

### **F Cluster**

By using an additional clearer setting, off-standard bobbins are reliably detected with regard to soiling (e.g.: oil spots) and eliminated from production.



**“Seeing more is decisive”**

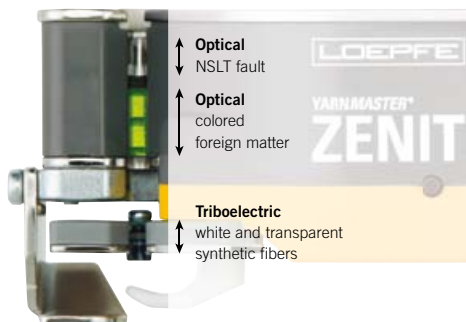




# POLYPROPYLENE DETECTION

## YARNMASTER® ZENIT FP

Consistently further developed and optimized, the P2 sensor sets new standards.



### Colorless or with Identical Colors

Fine foreign matter is very difficult to see with the naked eye. However, with the LOEPFE P-sensor, it can be detected easily as proven already in various practical applications.



*In carded cotton Ne 28*



*In combed cotton Ne 40*



*In combed cotton Ne 155*

### Benefits to the User

- The industrially reliable clearing of synthetic foreign matter provides a decisive competitive advantage.
- Hooking during sectional and beam warping as well as yarn breaks in production are effectively reduced. This increases productivity and quality at the same time.
- Very expensive faults in the dyed and finished end product are reduced. The result: Less complaints along with better margins.



→ **Channel Clearing**

- Opto-electronic precision
- Easy to operate
- Yarn clearing with clearer channels:

- ① Neps
- ② Short
- ③ Long
- ④ Thin
- ⑤ Splice
- ⑥ Yarn count
- ⑦ Short count

→ **Cluster Channel Clearing**

Additional clearing curves ensure the reliable detection of:

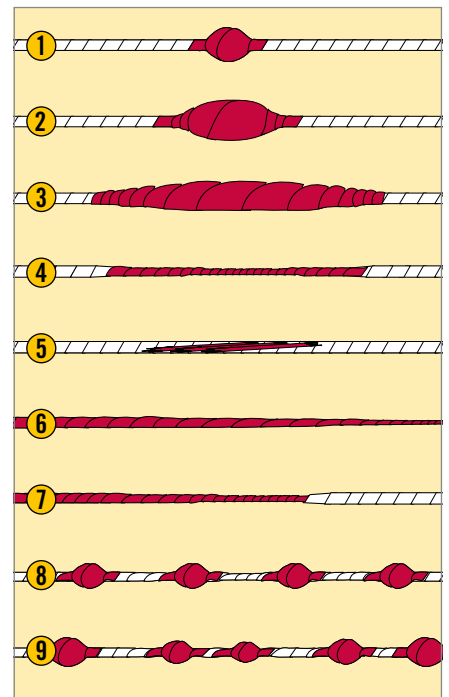
- ⑧ Periodic clusters
- ⑨ Non periodic clusters

→ **Class Clearing**

In addition, 128 optionally selectable classes are available. In combination with channel clearing, the desired quality is achieved with the highest possible machine usage. Even effects, for example “defined flames”, can be classified as non-disturbing (clearing window).

→ **Classification of Yarn Faults**

All cleared and remaining yarn faults are classified according to internationally applicable standards. The reference lengths (for example per 100 000 m) can be freely selected. Classification is performed relative to groups and also to spindles.



**LabPack is an extra option for YarnMaster Zenit:**

**Online Evaluation of Quality Data**

In addition to diameter-related imperfections such as

- Neps + 200%,
- Thick + 50%,
- Thin – 50%

the surface indices specially developed by LOEPFE

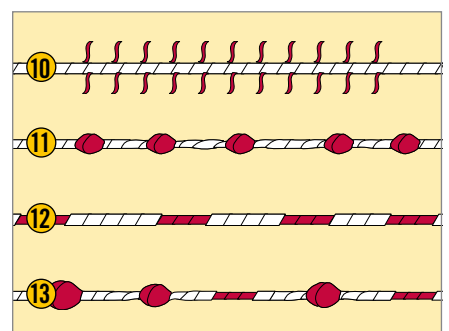
- SFI
- SFI/D
- VCV

are also monitored online 24 h/day.

**LOEPFE – SFI/D– Off-Standard Bobbin Detection**

Adapted to the situation in winding, it is possible to detect off-standard bobbins simply and reliably with only one setting with respect to the most important quality parameters

- ⑩ Hairiness
- ⑪ Neppiness
- ⑫ Irregularity CV,  
Diameter variations VCV  
variably adjustable observation  
length
- ⑬ Imperfections IPI



and take them out of production.



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