

# YarnMaster® Zenit: Digital online quality control system

## YarnMaster® Zenit

YarnMaster Zenit, the online quality control system by Loepfe, has a completely new design, but also incorporates the extensive experience gained from the successful YarnMaster Spectra. It is intended for customers with the highest demands on yarn clearing and yarn quality who want to be assured of safety and reliability, even under the most problematic ambient conditions. Moreover, the system offers a platform for the addition of future innovations.

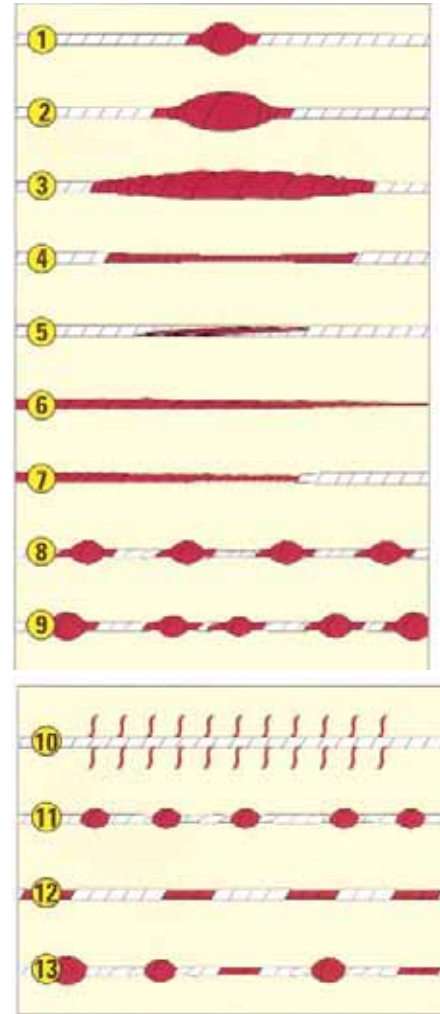


YarnMaster® Zenit.

The main features are given as under:

- ❖ Sensing head user interface: A 7-segment display is built into the sensing head providing information of occurrences at the spindle.
- ❖ Central unit user interface: A color touch screen with multi-lingual capabilities, clearly organized graphical display, offer ease of use to operators.
- ❖ LabPack functions: The online laboratory for the detection of off-standard bobbins with respect to hairiness, neppiness and irregularity (CV).

- ❖ Improved detection of foreign matter: now also in colored yarns.
  - ❖ For all staple fiber yarns, independent of the spinning process and fiber material used.
  - ❖ For all splicer types.
  - ❖ For large yarn count ranges, such as TK YM Zenit for Ne 2.4-320 and TK YM Zenit F(P) Ne 4.1-320.
  - ❖ Channel Clearing offers Opto-electronic precision and Yarn clearing with clearer channels. (see diagram)
1. Neps.
  2. Short.
  3. Long.
  4. Thin.
  5. Splice Class Clearing.
  6. Yarn Count.
  7. Short Count.
- ❖ Cluster Channel Clearing. Three additional clearing curves ensure the reliable detection of:
    8. Periodic clusters.
    9. Non periodic clusters.
  - ❖ Loepfe – SFI/D – Off-Standard Bobbin Detection (Option): 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, VCV
    13. imperfections IPI



## Barrier by HeiQ® - a super hydrophobic technology

Alinghi sailing team will during America's Cup be using a highly innovative and novel water repellent technology on its sailing jackets to ensure maximum repellency under the harshest of conditions. The ODLO produced jackets use Barrier by HeiQ® - a super hydrophobic technology developed and manufactured by the Swiss company HeiQ Materials.

In the America's Cup, only the best materials are selected to enable both crew and boat to meet the extreme demands for performance. When Swiss sports clothing company ODLO equipped the Alinghi team with jackets they selected the world-leading Barrier by HeiQ® water repellency effect.

This unprecedented breathable textile treatment guarantees that the Alinghi crew stays dry and comfortable at all times before, during and after the race, giving the crew the freedom to fully focus on the sailing tasks at hand.

The high-performance repellency provided by Barrier by HeiQ® comes from a unique microparticle based treatment applied during the textile manufacturing process. The resulting biomimetic structure of the textile surface imitates the self-cleaning surface structure of the Lotus leaf, thereby providing exceptional water repellency, an effect also known as superhydrophobicity. ODLO jackets treated with Barrier by HeiQ® provide the Alinghi crew with durable water repellency under the most demanding weather and sports conditions possible.

"We decided to select HeiQ's product after multiple testing of leading repellent effects, and Barrier by HeiQ® was clearly standing out in comparison", says Andreas Kessler, CEO ODLO. "ODLO has always been a forerunner in textile innovation and by using Barrier by HeiQ® we again show our commitment to bringing word-leading innovation to our customers. HeiQ has demonstrated again to be an ideal innova-

tion partner with rapid, efficient and cutting-edge development for our most demanding needs."

"We are very proud that our innovation has been selected for use by Alinghi in their defense of the America's Cup", says Kristofer Skantze, head of sales and marketing with HeiQ Materials AG. "Barrier by HeiQ® raises the bar on water repellency performance and the level of protection end customers should be able to expect in modern fabrics. This is the third generation particle based textile effects technology developed by HeiQ over the last 5 years and the selection of Barrier by HeiQ® for Alinghi is testimony to the leading textile effect technologies that HeiQ offers." ♦

