

YarnMaster® PRISMA product information

THE BENEFIT OF CLEVER SOFTWARE **PRISMA BOOSTS PROFITABILITY**

The focus of the clever system is to remove unwanted yarn characteristics in the most efficient way.

By merging cutting-edge technology and ingenious software, PRISMA provides an array of efficiency-boosting solutions. This dynamic system is constantly evolving to meet market demands by continuously expanding its built-in intelligence. With regular software updates, users can take advantage of numerous benefits that are tailored specifically for spinners' needs. These new functionalities contribute significantly towards enhancing yarn quality while reducing yarn waste and increasing winding machine, as well as production efficiency levels.

PRISMA matrix clearing:

- Less: cuts, yarn waste, splice cycles and energy consumption

PRISMA is the perfect solution for spinners who want to reduce yarn waste and maximize raw material utilization. Loepfe's matrix clearing is the foundation of easy and profitable production, putting the user at the center. The clearing matrix paves the most advanced way to optimize clearing limits. It has now been extended to the longest observation lengths on the market. Spinners can be sure that their production is optimized for maximum profitability.

Loepfe's unique matrix clearing

PRISMA's matrices are designed to be intuitive and highly customizable. With its touch screen and visual settings, users can quickly and accurately adjust clearing curves to their exact specifications. PRISMA's software offers significant advantages over other systems in terms of speed, accuracy and flexibility, allowing users to get the best results in any situation. Its advanced features provides precise control over the clearing process.

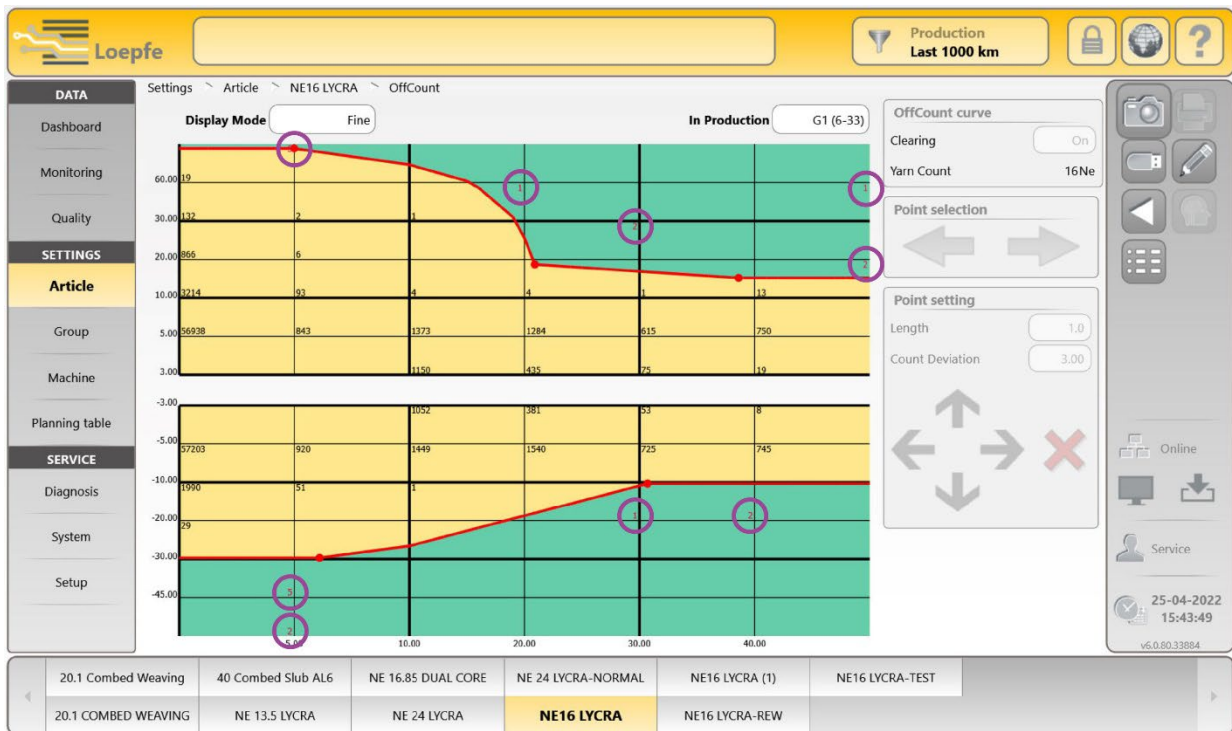
- Classification of every deviation in absolute length
- Informs users about the actual fault deviation at different lengths and limits
- Provides data about the fault distribution and yarn structure even with an open setting
- Longest observation lengths on the market for the following fault types and matrices:
 - OffCount (Deviations in Count) up to 50 m
 - SFI/D (Hairiness and CV) up to 80 m
 - OffColor (Deviations in Color) up to 50 m

Benefits of the extended observation lengths

The extended observation length is the perfect solution for achieving higher-quality yarn with fewer cuts. PRISMA removes long faults in the yarn in a single cut and accurately identifies them, providing the most complete picture of the yarn structure in the process. Thanks to its extended observation length, spinning mills enjoy improved yarn quality, fewer splice cycles, and fewer cuts overall - all while saving time and money.

The matrix comes with multiple set points to provide the highest flexibility in setting the clearing curve to ensure the required fabric appearance.

The shorter observation lengths of conventional systems cause cuts immediately when the faults exceed the set curve. Slicing long faults into pieces will significantly downgrade the winding efficiency as well as cause more yarn waste. In addition, the fault is not assigned in its absolute length, which leads to a limited overview of the yarn. A missed opportunity for spinning process optimization.



Example Matrix clearing OffCount: Faults are classified with their absolute length (circled numbers in the green area)

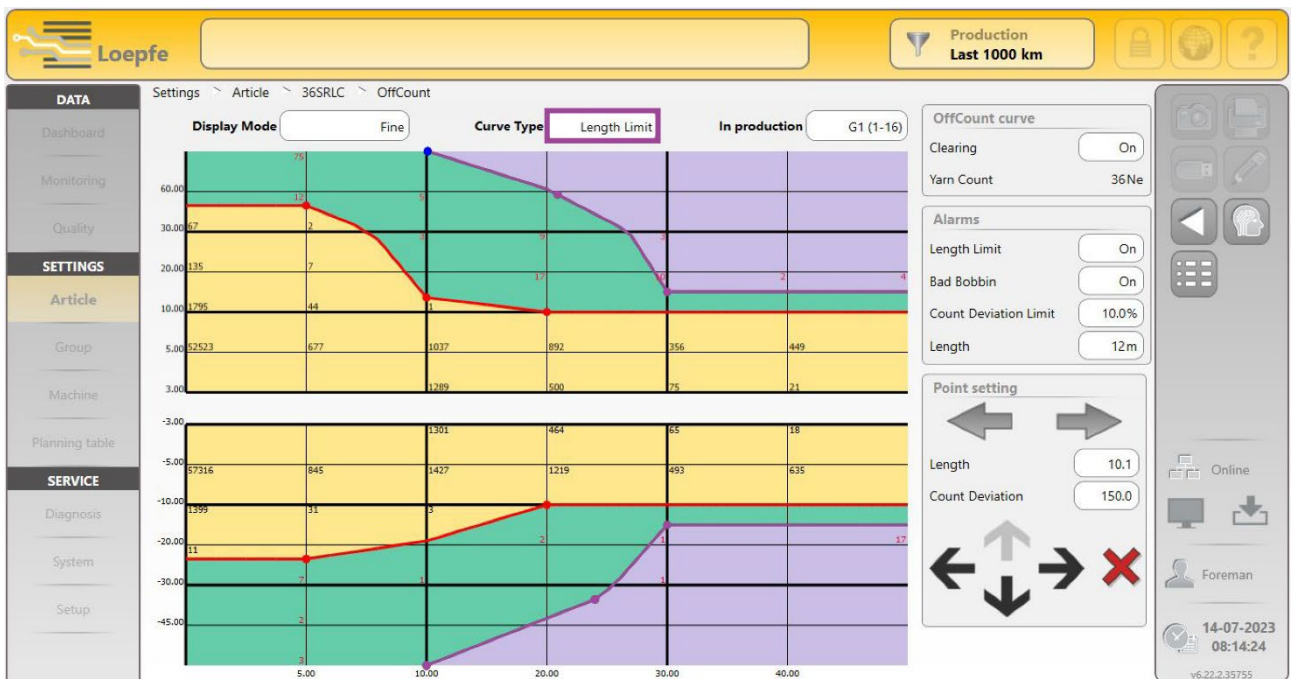
PRISMA Length limit alarm:

- ➔ Better: yarn quality, raw material utilization, second-grade process, and process optimization in yarn quality control

The Length limit alarm maximizes winding machine and production efficiency with fewer splices and less hard waste. Faults are detected with the “red” clearing curve in the green clearing field until their length touches the “purple” length limit curve. This triggers immediately the Length Limit Alarm and a signal to remove those long faults from the package is sent to the winding machine.

This bobbin can then be processed further through the second-level yarn quality process. With the higher efficiency and the possibility of a smooth second-grade process, a boost in profitability is given.

The innovative textile alarm – Length limit alarm – is now available for the matrix of OffCount, SFID, and optionally for OffColor. The length limit curve can be adjusted fully to meet with the spinner’s requirements.



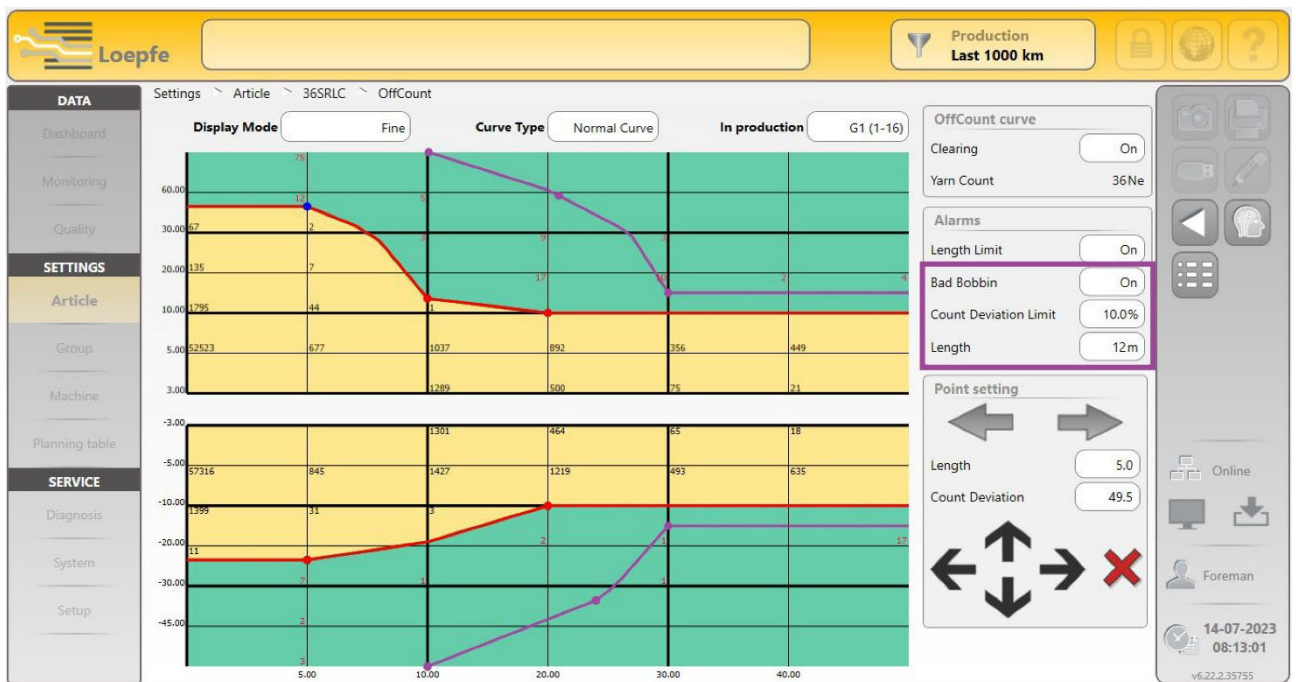
Example OffCount with purple length limit curve and area

PRISMA Bobbin startup alarm:

- Less: Yarn waste
- Higher: Production efficiency
- Better: Material process monitoring

The Bobbin startup alarm is the perfect solution for any spinning mill looking to increase its profitability. This textile alarm detects bobbins with the wrong count, and optionally with the wrong color, within the first wound 11 to 20m, providing the fastest detection of faulty bobbins on the market. The Bobbin startup alarm will reduce hard waste and improve production efficiency, while also providing the ability to classify cuts and monitor material processes more efficiently.

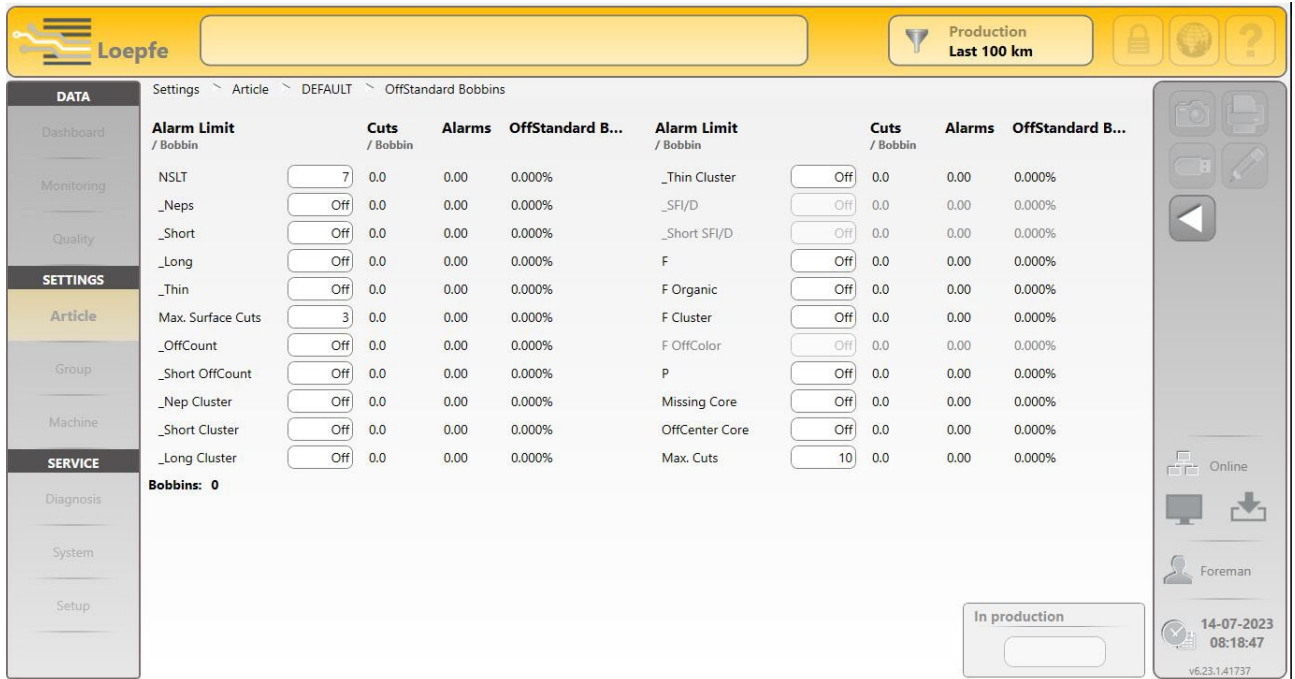
The Bobbin startup alarm is preferably used on winding machines with the round magazine to immediately alarm bobbins with different yarn properties. PRISMA offers innovative ways to reduce waste and further enhance the production process irrespective of the yarn type, the raw material processed, and process-related differences. The Bobbin startup alarm is automatically active after every bobbin change for the first 20 meters of wound yarn.



Example OffCount Bobbin Startup Alarm with a set length limit of 12m and 10% deviation

PRISMA centralized alarm management:

An effective way to manage OffStandard bobbins is now provided. PRISMA's centralized alarm management shows all settings of repetitive yarn faults at a glance. This simplifies alarm management and enables the user to set all allowed cut repetitions per bobbin at one central point. Furthermore, greater control over the production process is provided. This centralized alarm management view is available for every fault type and provides the perfect overview to manage OffStandard bobbins effectively.



The screenshot shows the Loepfe PRISMA interface for managing OffStandard bobbins. The top navigation bar includes the Loepfe logo, a search bar, and a 'Production Last 100 km' indicator. The main content area is divided into a left sidebar with menu items (DATA, SETTINGS, SERVICE) and a central table of alarm settings. The table has columns for 'Alarm Limit / Bobbin', 'Cuts / Bobbin', 'Alarms', and 'OffStandard B...'. The settings are organized into two columns, each with a 'Thin Cluster' and 'Max. Cuts' parameter. A right sidebar contains navigation icons, an 'Online' status indicator, a 'Foreman' user profile, and a date/time stamp (14-07-2023 08:18:47). A 'Bobbins: 0' indicator is visible at the bottom left of the table area.

Alarm Limit / Bobbin	Cuts / Bobbin	Alarms	OffStandard B...	Alarm Limit / Bobbin	Cuts / Bobbin	Alarms	OffStandard B...
NSLT	7	0.0	0.000%	_Thin Cluster	Off	0.0	0.000%
_Neps	Off	0.0	0.000%	_SFI/D	Off	0.0	0.000%
_Short	Off	0.0	0.000%	_Short SFI/D	Off	0.0	0.000%
_Long	Off	0.0	0.000%	F	Off	0.0	0.000%
_Thin	Off	0.0	0.000%	F Organic	Off	0.0	0.000%
Max. Surface Cuts	3	0.0	0.000%	F Cluster	Off	0.0	0.000%
_OffCount	Off	0.0	0.000%	F OffColor	Off	0.0	0.000%
_Short OffCount	Off	0.0	0.000%	P	Off	0.0	0.000%
_Nep Cluster	Off	0.0	0.000%	Missing Core	Off	0.0	0.000%
_Short Cluster	Off	0.0	0.000%	OffCenter Core	Off	0.0	0.000%
_Long Cluster	Off	0.0	0.000%	Max. Cuts	10	0.0	0.000%

Centralized alarm management overview for OffStandard bobbins

- ENDS -

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