

OnV RollMaster

The information system for perfect winding technology



Optimization of winding parameters

The winding quality at the reel is influenced by the most varied parameters such as line load, center torque and web draw. OnV RollMaster optimizes these parameters and thus gives perfect winding results, better troubleshooting, less broke and higher cost-efficiency of the system. In order to achieve this, the information system specifies the nominal values for the winding process, carries out extensive measurements and calculations and clearly presents them in diagrams. OnV RollMaster provides display, analysis, diagnostics and optimization of all decisive winding parameters in just one system.

Complete overview

All measurements, parent roll and paper data for each wound parent roll are stored as individual files. The winding results of the system can thus be comprehensively documented and analyzed at any time over several years.

Higher level of efficiency

The analyses of OnV RollMaster are structured very clearly and are reproducible in a detailed fashion. OnV RollMaster is a capable analytical tool that speeds up the start-up and then leads to more efficiency in subsequent operation.

Measurements and calculations

The desired measurements can be carried out depending on paper layers or time, the latter in high resolution and in the millisecond range.

In addition, OnV RollMaster can determine all process-related data over more than 300 analog or binary measurement channels. Among them are parent roll data such as density, diameter or running meter as well as drive data, for example, torque and speed, and line load system data such as pressure distribution, positions and angle. In addition, binary signals for monitoring the sequences and important quality data are also recorded. The analysis of current and historical data allows corresponding statistics on production quantities and loss times, among other things.

The hardware

OnV RollMaster relies on a PC that meets the industry standard for hardware. The computer has all the necessary controller and interface cards. A fast, strictly deterministic and data-consistent technology field bus is used as peripheral hardware. All modules and electrical devices are delivered in a control cabinet fully ready for connection.

The software

OnV RollMaster is modularly segmented into different tasks. The version upgrade and technological support via remote access to MS Windows and UNIX computers is thus also possible. The entire configuration of the software is done without compilation, but instead solely by the setting of parameters in the configuration menu. The menus can be shown in different languages and units.

Display and operation

Display can take place on one's own screen or via TCP/IP on a process control system. OnV RollMaster graphically displays important numerical values. Both data of the currently running reel spool as well as historical data can be used. The intuitive multi-window technology facilitates use of the many possibilities for measurement and analysis. Display and configuration are variable and freely scalable.

Professional support

So as to facilitate access and use, Voith provides professional support from experienced employees. The initial service guarantees an uncomplicated and quick start-up. Voith life cycle care offers worldwide technical support with direct help on site or almost immediately via remote control.

Operating system

- Real time (μ s based)
- Adaptive scheduling
- Preemptive multi-tasking
- Modular and scalar structure
- Full transparency of all tasks and interfaces with complete test environment
- Network integrated into operating station
- Professional development environment and tools
- Process and visualization on one platform

Interfaces

- TCP/IP Socket Protocol (Siemens S7)
- CL3964R/RK512
- DF1 for Allen-Bradley systems
- GE Fanuc CCM protocol
- DDS high-speed database bridge for QNX-based systems (Alstom)
- OPC connection via OnView server for quality data

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