

THERMO SCIENTIFIC CARPET COATING APPLICATION PACKAGE

PRODUCT APP50-33

The Carpet Coating Application Package is an excellent tool for profit improvement in the carpet manufacturing industry. The application software is an integral part of the core 21Plus!™ operating software. It takes full advantage of the power of Wonderware® InTouch™ human-machine interface (HMI) software to deliver a simple to use and robust operator interface. The application package is designed specifically for carpet coating lines and is further tailored for each customer's specific application.

The Carpet Coating Application Package defines basic real time measurement, network communications, data processing, and operator interface functions.

Optional enhancements, such as special displays, control, SPC, IndustrialSQL Server™, third party I/O servers, etc., are available to expand the basic application package to a complete process management system.

Embedded in the Application Package is communications support for the system Ethernet network.

The scalable nature of the architecture, coupled with the flexibility and expandability associated with the Application Package, allows the system to be adapted to evolving process and business requirements of the carpet coating industry.

Two or Three Zone latex Control greatly improves product quality by adjusting the process to hold product profile flat and to its average target. Nominal Control adjusts product average to a fixed target. Target Management Control adjusts product to a System calculated flexible target, while providing both low point and low average protection.

The Control ensures product uniformity and superior roll quality, resulting in quality improvement, scrap reduction, and latex savings for tangible economic returns.

FEATURES AND BENEFITS

- Application Package provides core operating software for carpet coaters
- Real time software operates from an operator's console or other workstations on the network
- Accommodates the full line of sensors for a variety of measurements
- SICAL™, Substrate Independent Calibration, simplifies precoat and latex coat weight calibration
- EXACTRAX™ Same Spot Measurement ensures accurate net coat weight calculations
- Supports network communications between distributed sensors, interface modules, controllers, and workstations
- Continuously monitors and preprocesses all product and product data for viewing, archiving, reporting, and analysis
- Provides a set of standard user friendly displays configured specifically for carpet coating applications
- Defines intuitive touchscreen menu structure for accessing all displays
- Provides a platform for optional special displays, control, reporting, and interface packages

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DESCRIPTION

The Carpet Coating Application Package provides the system's core software. This application is designed to take advantage of the power of Wonderware® InTouch™ software.

Scanning Sensor Support

The Carpet Coating Application Package provides full support for the complete family of scanning sensors. Available online measurements include precoat and latex coating basis weight. The configuration includes two frames for latex coating and three frames for both pre-coat and latex coatings.

Standard sensor processing features include automatic edge-of-sheet detection. Virtual sensors allow calculated properties, such as dry coat weight, to be displayed and manipulated as actual sensor data. Third party sensors can be integrated as well.

Accurate Net Coat Weight Profiles

SICAL, Substrate Independent Calibration, simplifies setup by matching the calibration of the Greige goods and coated product scanners. By eliminating Greige goods sensitivity from the coat calibration, SICAL reduces the number of calibration sets from all combinations of Greige goods and coatings to only the number of coating grades. EXACTRAX Same Spot Measurement ensures accurate net coat weight calculations by ensuring that the Greige goods and coated product scanners traverse precisely the same path on the web, even as line speed varies. This synchronization eliminates sensitivity to point-to-point variations and formation in the Greige goods material. Network coupling of the scanners results in synchronization of scanner timing, which is more precise than conventional systems.

Distributed Data Acquisition

The Carpet Coating Application Package provides support for distributed process inputs, which interface to the system. Communications to other modules is by means of a high speed Ethernet Network. Optional Wonderware I/O servers enable full integration of distributed devices, providing transparent access to controllers, PLCs and other intelligent devices from the operator displays.

Intuitive Display Structure

The system is designed to allow operators to easily navigate the system and access information quickly. This intuitive menu structure enables access to all process information through a split touchscreen. Values and text are modified with a pop-up keypad or menu, which is called by simply touching the field. The common display header on each screen provides direct access to the most common displays, such as, Scan, Control, Recipe, Alarm and status messages.

Platform for Process Integration

Optional software packages allow the Carpet Coating Application Package to be expanded to address full process integration. These enhancements include advanced control, display, communications, analysis, and database functions. The scalable architecture of the system enables these advanced functions to be added incrementally, as process and business requirements dictate.

STANDARD DISPLAYS

Profile

- High Resolution
- Zone
- Full
- Split
- Zoom
- Freeze

Roll Summary

- Current
- Previous

Single Point

Sample Check

Trends

Billboard

Data

- *Optional

Setup

- Frames
- Sensors
- Zone Control *
- Reports

Auto Control *

- Two or Three
- Zone Control

Recipes

Alarms

Messages

Translations

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