

THERMO SCIENTIFIC ABRASIVES APPLICATION PACKAGE

PRODUCT APP50-15

The Abrasives Application Package is an integral part of the core operating software. It takes full advantage of the power of Wonderware® InTouch™ software. The application package is designed specifically for abrasives lines and is further tailored for each specific application.

The Abrasives 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.

Two Zone Gap 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 material savings for tangible economic returns.

FEATURES AND BENEFITS

- Application Package provides core operating software for abrasives sizers and makers
- 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 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 abrasives 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 Abrasives 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 Abrasives Application Package provides full support for the complete family of scanning sensors. Available online measurements include basis weight.

Standard sensor processing features include automatic edge-of-sheet detection. Virtual sensors allow calculated properties, such as product density, 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 substrate and coated product scanner. By eliminating substrate sensitivity from the calibration, SICAL reduces the number of calibration sets from all combinations of substrates and coatings to only the number of coating grades. EXACTRAX Same Spot Measurement ensures accurate net coat weight calculations by ensuring that the substrate 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 substrate material. Network coupling of the scanners results in synchronization of scanner timing, which is more precise than conventional systems.

Distributed Data Acquisition

The Abrasives Application Package provides support for distributed process inputs, which interface to the system and communicate to other modules 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 Abrasives 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 Zone Gap Control

Recipes

Alarms

Messages

Translations

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