FST|Horizon™ Data reporting

WHAT DOES IT DO?

The FST Horizon™ software can now be extended with the FST Horizon™ ‘Data reporting’ option. The wide variety of the thermal spray process characteristics are read-out by the data reporting software. The FST Horizon™ data reporting software translates the thermal spray process into a readable report which serves the purpose of increasing quality and immediate detection of faulty coating results.

All FST 50 series Systems create raw process data used for data logging. FST’s data reporting is an excellent tool for process supervisors or quality engineers to check the sprayed cycles and to detect anomalies. This tool enhances overall coating quality control. The FST data reporting goes beyond data trending by processing over 22 different process values that have immediate influence on the thermal spray process and therefore coating quality. The data reporting option monitors the thermal spray process and directly provides a clear insight into the actual coating results. The trend detection detects an upcoming trend inside the system early on which allows the operator to take resolving measures. For example, when one of the media (Parameters) is slowly drifting outside its set tolerance, the software foresees this and warns the operator. Remedy could be to recalibrate the Mass flow controller.

The data reporting option assures each spray cycle is automatically logged and can be divided into different sections matching different spray batches of your spray production. The start and stop of spray batches can be entered manually via the 50 series HMI (human machine interface) or by means of a barcode scanner connected to the electrical module of the thermal spray system.

The barcode scanner also enables logging specific spray data per sprayed component. (For this each component requires its own barcode). The alarm tab assures all alarms raised during the spray process are logged. The alarms, if any, will be shown onto the report and can always be checked via the alarm tab.

The data reporting software can be integrated with your local ERP (enterprise resource planning). All data formatting is done according ISA88 & ISA95 industrial standards.

KEY BENEFITS

- Constant monitoring spray process data
- Automatic quality reporting
- Data saving of all spray activities for +10 years
- Safeguarding with spray receipts
- Trend detection
HOW DOES IT WORK?

The Horizon™ Data Reporting software retrieves, stores and reports information about the applied coating. The raw data is derived from the PLC (Programmable Logic Controller) of the 50 series electrical module.

The FST data reporting software is derived from two main applications: The ReaderApp: retrieves data and imports it to the database via the internal company network. The connection between the ReaderApp and the machine runs through a second network. The ViewerApp: connects with the database to show reports. Every report shows:

- A graph that plots the measured values against time.
- The minimum and maximum values of the measure points.
- The alarm messages with the start/end dates and times.

Logged data can be filtered by means of:

- Machines number
- Date; desired time frame
- Batch(es) ; per product or product group
- Groups (multiple measure points)
- Individual measure points

Once the desired data is selected, this information can be exported to a report. The report can be made up in CSV, XML or JPG format. Besides a chart report of a specific time frame can be created.
WHY FST DATA REPORTING?

The FST Horizon™ software is a stable platform which combined with the FST state of the art equipment locks in the majority of all important spray parameters. The most critical process characteristics are closed loop controlled by the FST equipment and therefore assure a repeatable coating quality.

The FST Data reporting extension enables the possibility to log the performed process and visualizes the coating production quality and quantity. The reported data can be utilized to increase overall quality, production efficiency and early on detection of faulty coating quality. These features make FST’s data reporting a must have for all spray facilities that cannot tolerate any faulty coatings passing clearance for reentry.

Note: for more technical details about our FST|Horizon™ data reporting, please contact your local sales contact.