

OPTIVISION CENTERLINE - Solution Note



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Honeywell's OptiVision® Centerline solution gives users the capability to determine, set and deploy Golden Run operating conditions for every grade of product they produce, creating a strategic lever to boost operating margins.

OptiVision Centerline goes beyond 'measure and display' operations management approaches to allow pulp and paper customers to benchmark their production runs in real-time. The solution works by aggregating and analyzing data from assets, processes and quality measures. This drives centerlining, a methodology in which production equipment can be fine-tuned to operate at its most efficient limits. Key process parameters plotted on control charts ensure products are produced economically and to exact quality specifications – without 'giving away' quality. Once set, run parameters can be benchmarked and continuously improved, resulting in exceptionally high quality products created through never-before-achieved production conditions.

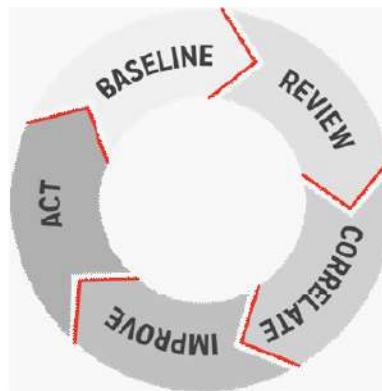
Why Centerline?

Centerlining determines the best settings for a production process and ensures they are used continually. The result? Consistently high quality products and lower production costs. Centerlining delivers production benefits such as:

- Builds quality into the process
- Reduces waste
- Improves operating efficiency
- Reduces the time required for setup and to stabilize production, thus speeding time to market
- Increases customer satisfaction

FEATURES & BENEFITS

- Performs real time data collection, calculation and analytics



OptiVision Centerline builds consistent quality into production by baselining processes, comparing runs for variability and identifying necessary fixes, and setting a new baseline.

- Creates a performance baseline to enable real-time estimates and comparisons
- Evaluates Statistical Process Control (SPC) indices
- Fine-tunes asset parameters
- Plots key process parameters on control charts
- Uses SPC to measure and control quality during the manufacturing process
- Provides a historical analysis of quality from which manufacturers can determine set points and specifications
- Delivers a 25-30% reduction in asset downtime by stabilizing and eliminating potential quality issues

- Yields a 3% reduction in rejects per run
- Enables continuous improvement
- Ensures assets operate at their most efficient limits
- Detects variability in processes that can affect product quality over an extended period
- Resolves variations in assets during the production process

Centerlining: A Closer Look

Additional features and benefits of centerlining include:

- Provides process parameter control charts to help ensure that processes are executed within limits and that products align to specifications
- Features quality parameter control charts from which values for process setpoints can be calculated
- Incorporates Golden Run compare charts to fine-tune active runs
- Alerts users instantly to process issues via emails and heat maps
- Provides a capability to analyze historical data and adjust setpoints

Statistical Process Control (SPC)

Golden Run production employs SPC for measuring and controlling quality during the manufacturing process. SPC uses data from product or process measurements, which are obtained in real-time during manufacturing. Key features of SPC include:

- 100% configuration-driven
- Cloud-enabled, but can also be run on local servers
- Built-in Windows authentication facilitates IT security
- Localization-ready: can be operated in any language
- Mobile-friendly: built on HTML5
- Enables mobile notifications using Honeywell Pulse™
- Incorporates an embedded historian
- Easy installation: requiring just an internet browser

SPC Control Charts

SPC comes with control charts which monitor two primary areas: key process parameters and quality parameters.

Key process parameter control charts ensure that products are produced economically and to quality specifications, without ‘giving away’ quality. These can be monitored by engineers in real-time.

Technical details of the process parameter charts include:

- The SPC trend is plotted between run start/run end/current time
- Trend chart uses UCL (Upper Control Limit), LCL (Lower Control Limit), Average, Warning UCL and Warning LCL as limits
- Actual value plotted comes from the historian

Meanwhile, quality parameter control charts collect and use samples plus historical quality analysis to determine setpoints. They can be plotted for all units in a run. Technical details for these charts include:

- The trend is plotted between run start/run end
- Lower Reject Limit, Lower Warning Limit
- Historical average
- Upper Reject Limit, Upper Warning Limit
- Actual value from the Quality OptiMISER can be entered for samples

Finally, centerline charts ensure that assets operate within efficient limits and provide the capability to monitor these limits in real-time, reducing the risk of unplanned shutdowns



Technical specifics include:

- The trend is plotted between run start/run end
- Upper Machine Limit, Upper Warning ML
- Lower Machine Limit, Lower Warning ML
- Target actual value from historian

System Alerts

Alarms and alerts can be configured to identify deviations and variability. Features include:

- Alerts when machine limits are violated
- Alerts when moving averages are violated
- Alerts based on percent deviation
- Alerts if a value is above a limit consecutively

OptiVision Suite

Honeywell is an industry leader in integrated Manufacturing Execution Systems that improve plant profitability by enabling plant personnel to work more effectively and make better decisions. Honeywell’s OptiVision® Suite provides the data and applications needed to transform business and enable business excellence.

- OptiVision optimizes production and ensures customer orders are completed at the right time, quality and cost. It ensures efficient use of equipment, energy and raw-materials through improved planning, scheduling and tracking. It reduces inventory carrying costs and transportation costs. OptiVision is designed to manage a single site or an entire enterprise.
- Quality OptiMISER collects and analyses quality data and dispositions units to help ensure a defect-free product.
- OptiVision Centerline gives the capability to determine and set Golden Run operating conditions for every grade produced, boosting operating margins.

- OptiVision Production Costing and Intelligence analyses actual consumption costs to identify root cause of variances driving value decisions to improve production performance and profits.
- OptiVision KPI and Dashboard aggregates key process data to serve as executive dashboard and support informed decision making.
- Uniformance® Process Historian Database and Process Studio provides tools to compare and analyze process performance.

OptiVision Support Services

This product comes with worldwide, premium support services through our Benefits Guardianship Program (BGP). BGP is designed to help our customers improve and extend the usage of their software applications and the benefits they deliver, ultimately maintaining and safeguarding their software investment.

Honeywell provides a complete portfolio of service offerings to extend the life of your plant and provide a cost-effective path forward to the latest application technology. Honeywell services include:

- Software installation services
- On-site engineering services
- Migration services
- Scope expansion services
- Assessment services
- Performance baseline and tuning services
- Customized training

For More Information

Learn more about Honeywell’s OptiVision family, visit our website www.honeywellprocess.com/software or contact your Honeywell Account Manager, Distributor or System Integrator.

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