ABB Ability Health Check
for stressometer flatness control

Get the competitive edge through the Stressometer flatness control health check.

Measurement made easy

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ABB Ability™ – Comprehensive health check service for high measurement accuracy and flatness performance

Overview

Evaluate performance and identify possibilities to enhance the flatness control. Stressometer flatness control health check is a detailed and comprehensive evaluation of a Stressometer flatness control system. It is a key service for maintaining high measurement accuracy and flatness performance leading to optimal quality and yield.

Findings from the health check service are evaluated using the Quality Analysis tool and documented in a Stressometer flatness control Health Check report that can be used to enhance mill performance and yield.

Features
• Valid for Stressometer System 7.0 and later.
• Verify roll alignment and make recommendations for correction if needed.
• Check dynamic effects on the measurement and make recommendations for correction and compensation if needed.

• Check thickness profiles of typical strips and make recommendations for flatness control improvements.
• Check cooling system performance and make recommendations for optimization.
• Check flatness influence from the shape of the work rolls – make recommendations for improvements.
• Check of mechanical actuators – make recommendations for optimal performance from minimum to maximum rolling speed.

Benefits
• Secure best possible long-term performanc and reliability of the Stressometer control system.
• Increases control system utilization and production yield.
• Detect malfunctioning actuators.

Service

Summary statistics

Overview | Actuators | Q1-Q4 classification

```
File name(s) =
QALog_LOG_2010.11.01_07.31.40.csv
QALog_LOG_2010.11.02_07.46.28.csv
QALog_LOG_2010.11.03_08.01.58.csv
QALog_LOG_2010.11.04_09.47.18.csv
QALog_LOG_2010.11.05_10.03.26.csv
QALog_LOG_2010.11.06_10.11.42.csv
QALog_LOG_2010.11.07_10.20.51.csv
QALog_LOG_2010.11.08_09.58.05.csv

Total number of data files = 8
Finish time of first coil = 2010.11.01 07:31:40
Finish time of last coil = 2010.11.08 10:43:46
Total number of coils in data file(s) = 142
Total number of imported coils = 142
Number of ignored/excluded coils = 0
Number of coils that are valid/inside thickness-width ranges = 142
Strip length of coils that are valid/inside thickness-width ranges = 1 158 060 m
Number of coils that fulfill quality limit values = 138
Strip length of coils that fulfill quality limit values = 1 157 739 m
Number of coils that are invalid/outside thickness-width ranges = 0
Strip length of coils that are invalid/outside thickness-width ranges = 0 m

No filters are currently active

Edges included = false
323.62 mm <= actual width <= 351.36 mm
0.07 mm <= actual thickness <= 0.25 mm
3.79 I-Units <= quality value incl edge <= 73.22 I-Units
2.85 I-Units <= quality value excl edge <= 61.58 I-Units
```

Close

Summary statistics

Overview | Actuators | Q1-Q4 classification

Configuration limits for Q1-Q4 classification:

Q1 <= 5.0 I-Units
Q2 <= 10.0 I-Units
Q3 <= 20.0 I-Units
Q4 > 20.0 I-Units

Q1-Q4 classification result:
(accumulated values)

Q1 = 63.8 %
Q2 = 29.9 %
Q3 = 5.7 %
Q4 = 0.6 %

Total length of included passes/coils: 1158060 m
Total number of included passes/coils: 142

Close

Summary statistics

Overview | Actuators | Q1-Q4 classification

Thickness (mm) 0.0 - 1.0	Strip width (mm) 0.0 - 1000.0			1000.0 - 1500.0			1500.0 - 2500.0		
	Actuator	In Auto (%)	In Limit (%)	Actuator	In Auto (%)	In Limit (%)	Actuator	In Auto (%)	In Limit (%)
	Skewing	98.6	0.4	Skewing	98.0	0.3	Skewing	97.8	0.3
	WRBend...	98.6	1.3	WRBend...	98.0	1.9	WRBend...	97.8	4.2
1.0 - 5.0	Skewing	99.9	0.3	Skewing	100.0	0.3	Skewing	99.0	0.3
	WRBend...	100.0	0.0	WRBend...	100.0	0.0	WRBend...	98.1	0.0
5.0 - 10.0	Skewing	0.0	0.0	Skewing	0.0	0.0	Skewing	0.0	0.0
	WRBend...	0.0	0.0	WRBend...	0.0	0.0	WRBend...	0.0	0.0

Close

Quality Analysis Tool

File Tools Help

Result of Quality Analysis

Strip thickness (mm)	Strip width (mm) 0,0 - 1000,0			1000,0 - 1500,0			1500,0 - 2500,0		
	Inside tolerance	Total no. of coils	Q-value limit (I-units)	Inside tolerance	Total no. of coils	Q-value limit (I-units)	Inside tolerance	Total no. of coils	Q-value limit (I-units)
0,000 - 1,000	90,2%	41	10,0	90,9%	22	10,0	81,2%	48	11,0
1,000 - 5,000	100,0%	26	9,0	100,0%	4	8,0	95,7%	23	10,0
5,000 - 10,000	0,0%	0	8,0	0,0%	0	8,0	0,0%	0	8,0

Current time: 2016-01-13 16:01:10 | Automatic file refresh=disabled | Automatic report generation=disabled

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Service duration

Stressometer flatness control health check:
- typical 3 days on-site
- additional time for travel, preparation, analysis and reporting is needed