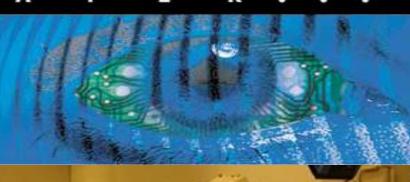
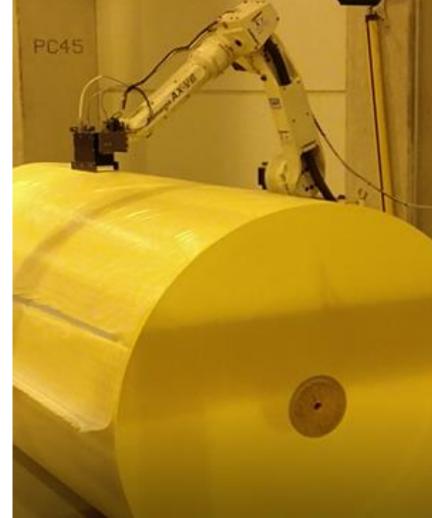


AUTOMATIC TAPIO RQP

Key features of Automatic Tapio RQP:

- Fully automated roll quality profile
- Precise robotic sensor movements to avoid human hand errors
- Confirm overall roll quality
- Rule out off-spec rolls
- Roll ranking based on profile and key values (COV)





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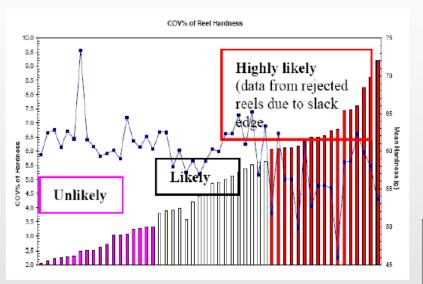
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TAPIO Analyzers

Tapio Automatic Roll Quality Profiler

COV% roll hardness and mean hardness*



Roll Ranking Good/Fair/Poor

Rule of thumb in deterning poor roll structure *

| Variation in Reel hardness COV% | 0-3.5% | 3.5-6.0% | >6.0% |
|--|-------------------------------------|---|--|
| Comment | Unlikely to cause runnability | May cause poor runnability. Consider other factors | Highly likely to cause problems |



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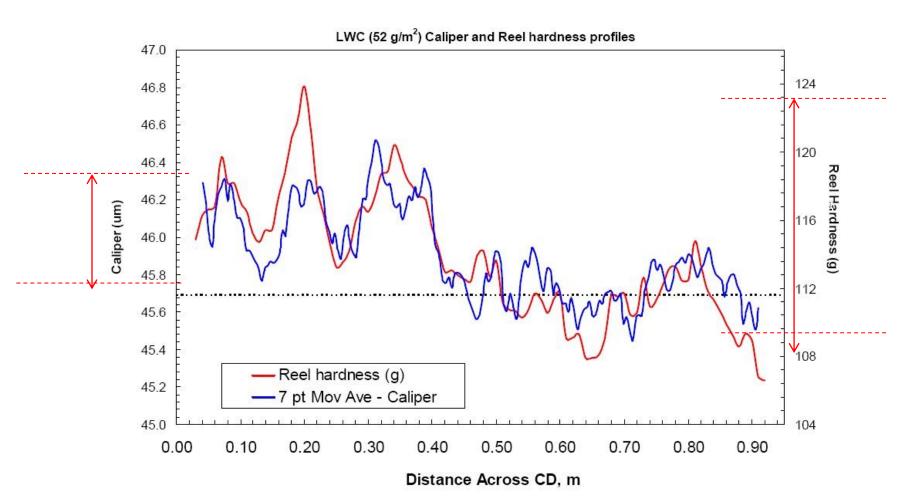
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TAPIO Analyzers Tapio Automatic Roll Quality Profiler

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- 0,5 um thickness variation
- 15 % hardness variation

⇒HARDNESS IS VERY SENSITIVE PROFILE MEASUREMENT

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TAPIO Analyzers

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