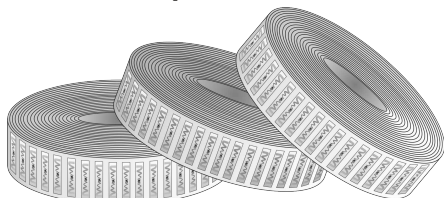


UHF Tag Performance Testing the New Era of RFID Quality Assurance

Reelsurance™



Sample based testing with
significant sample size



or 100% inspection for moderate
volumes with an offline process



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METAG
Delivering Unique Value in RFID

Reelsurance RFID Label Counting and Inspection System is equipped with the Voyantic Tagsurance™ UHF tester. It verifies the UHF RFID tag operation sensitivity using communications tests at several frequency and power level combinations with high resolution, stability and high speed.

The Reelsurance high quality mechanics with the unique programmable logic control (PLC) platform ensures 100% accuracy and repeatability of test results, tag counts, missing and bad tag count and the actual position on the roll. The automatic constant speed control capability guarantees the appropriate alignment accuracy of the measured tags to the antenna and perfect even roll tension throughout the roll, assuring reliable test results and preventing damage on the tags.

Reelsurance operates in multiple motion and test modes. Tags can be indexed to dwell in the test position for more complete analysis with the threshold sweep test mode, or tags can be tested in continuous motion and at speed with the points test or the sensitivity measurement test. The tags can be even encoded based on the test outcome. The Reelsurance system is a real asset to any quality assurance department.



Reelsurance mechanical platform

The Reelsurance can be equipped and delivered with different print options to mark the failed tags. The printer system can be either a simple ink dot marker or a more configurable print system for user defined marking. The Reelsurance can also be set to automatically stop the bad tag on the splice table for immediate rework by the operator.



Bad tag marking with a dot printer

The RFID performance testing is done by using communication tests to verify the tag operation on multiple frequencies. Additionally, the exact threshold power levels can be measured throughout the tag operational frequency band to determine the variance and enable more detailed analysis on the quality. These results can be analysed post-test with a separate 'Tagsurance Sweep Data Analyser' software tool.



Tagsurance UHF production testing system

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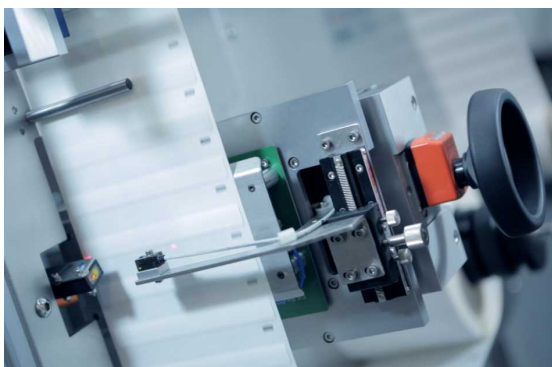
e-mail: smoos.peng@voyantic.com



15" panel PC with touch screen



Stopping bad tags on splicing table



Snoop Pro assembly with infra-red and contrast sensor



Tagsurance Sweep Data Analyzer

Standard System Features

- Integrated 15" panel PC (both PLC HMI and Tagsurance GUI running on same screen)
- Maximum speed for testing up to 50m/min
- Maximum rewind speed 100m/min
- High precision constant speed control
- Forward & rewind operation
- Communication test with Class 1 Gen 2 protocol
- Frequency range for testing 860MHz - 960MHz
- Snoop Pro measurement antenna assembly
- Integrated adjustable infra-red trigger sensor
- Missing label detection
- Dispensing of defined amount of labels
- Embedded mechanical splicer

Optional System Features

- 24" (610mm) diameter roll size handling
- Bad tag marking (different inkjet options)
- Extended frequency range 800MHz - 1100MHz
- Reading and writing tag memory
- Tag sensitivity measurement
- Complete tag analysis with threshold sweep
- Encoding based on test outcome
- Indexing mode to stop for measurement
- Different sensors or multi-sensor combination
- Different diameter core mandrels

Machine Properties

Machine dimensions:

1289mm x 1642mm x 847mm (L x H x D)

54" x 64 2/3" x 31 1/3" (L x H x D)

Roll dimensions:

Maximum roll diameter: 460mm (18")

Maximum width: 180mm (7 1/16")

Standard core mandrel: 76mm (3")

Roll weight: 30kg

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