Eliminate Defective Material from Reaching your Customers

Software Tools for Converting Optimization
Web Inspection can be utilized to inspect 100% of your production and detect defects.
However.......  
Defect Detection has no value

The value lies within the use of the defect data

Data is inherently hard to use - easy to collect and not use

How to get the value out of the data?

Implementing software tools to simplify turning data into decisions is key!
How to Get Beyond Inspection?

How to eliminate defects from reaching your customers?

From Data to Decisions- 3 easy steps:

- Review master roll for critical defects
- Optimize slit pattern for master rolls with critical defects
- Block slits with critical defects
From Data to Decisions

Transfer defect data from coating to slitting

Inspection
Defect Trend Alarming
Repeating Defect Alarming
Inspection Data for Process Improvement & defect reduction

Coating line

Master Roll

Defect Trend Alarming

Roll Release or Block
Slitting Preview
Daughter Roll Blocking

Finished Master Rolls

Released
Blocked

Slitting decisions:
How best to slit to fill the order?

Slit roll grading/sorting to eliminate critical defects

Roll2

Daughter Roll

Slitting
From Data to Decisions

The Coating Process-

• High speed process with thousands of square feet of material

• Inside the roll there can be a single defect that can cause a customer return - a catastrophic defect for your customer

Don’t let it reach your customer!
From Data to Decisions

Inspection for defect detection is not enough!
ok ...so we have a critical defect.....

So now we need to make the best decisions to find and remove this critical defect
From Data to Decisions

Step 1 - review master roll

During inspection defects are classified and critical defects are immediately identified
From Data to Decisions
Step 1 - review master roll

Master roll review & roll quality documentation

- Identify any critical defects in the master roll
- Rolls with critical defects are blocked
- Rolls without critical defects are released for slitting or shipping
From Data to Decisions
Step 2- Optimize slitting

Optimize slitting in blocked rolls to remove critical defects

Track defect data in master roll to slit roll (daughter roll)
From Data to Decisions
Step 2- Optimize slitting

5 steps to ensure quality in 5 minutes!

1. Select/load the master roll
2. Create/load the slit layout
3. Consider any material stretch in Downweb & Crossweb
4. Reviewing the defects in the slits
5. Block defective slits
From Data to Decisions
Step 2 - Optimize slitting

Select the master roll from the database by Roll #
From Data to Decisions

Step 2 - Optimize slitting

Create the slit layout - enter slit widths and lengths
Create waste cut for critical defects or block finished slit

Number & width of each slit

Stretch Factor

Number of cuts (MD length)
From Data to Decisions
Step 2 - Optimize slitting

Entered slit pattern is applied & displayed on master roll map
Slits with critical defects are easily identified
From Data to Decisions

Step 3 - Block slits with critical defects

Any defect in any slit can be selected to view an image of the defect.
Now you can decide what to send to your customer with certainty.
From Data to Decisions
Step 3 - Block slits with critical defects

By pressing the button - the slit roll is blocked
From Data to Decisions
Step 3 - Block slits with critical defects

Slitting views which rolls to block or scrap

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From Data to Decisions

Step 3 - Block slits with critical defects

Additional capabilities:

Warning when the critical defect is near a cut position

Ability to view up to 1 sq. meter of surrounding area of critical defect

Compressed defect neighborhood image

1:1 defect image
Decisions are documented & stored

Data can be stored by customer order for each finished slit in the order

Finished order quality report

Blocked Roll shows that there are 5 critical defects

Images of 5 critical defects in blocked slit
Multiple lines are supported

Network

Your PC

Beyond Inspection
Are you ready to use the tools to turn defect data into decisions to eliminate critical defects from reaching your customer?

Thank you for your attention!