

Yankee Dryers

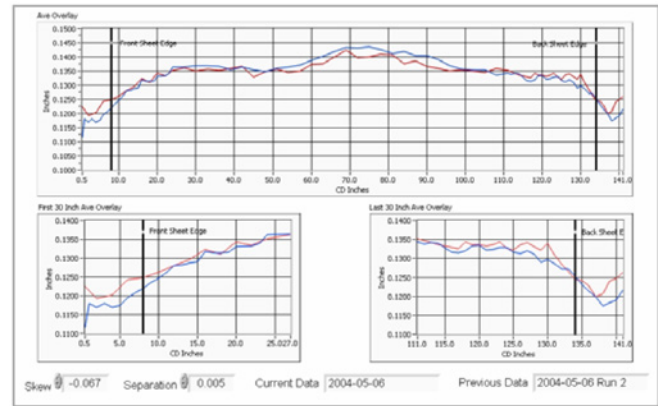
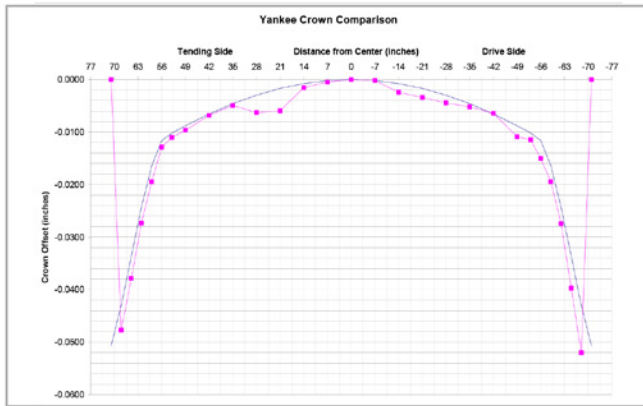
On The Run Profiling of Yankee Dryers

TRIOSIM
CORPORATION

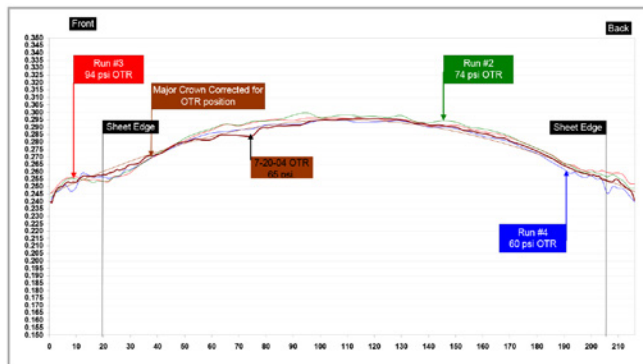
Go Further with Triosim

Production demands require tissue machines to run more efficiently than ever before. Using Triosim Services, On The Run Profiling (OTR) to accurately predict the optimum interval between Yankee grinds, your machine efficiency can be improved and your Yankee life can be extended. Triosim's OTR is used to measure the actual crown of your Yankee while your machine

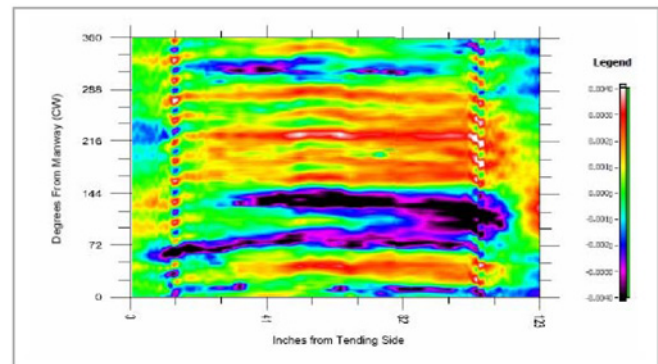
makes paper by collecting position data at a rate of 40,000 readings per second from the surface of the cylinder. This data is used to create two and three dimensional maps of your Yankee dryer surface, which can easily be compared to the most recent grind profile or the optimum theoretical crown.



On the Run Profile and static wire check measurements that depict grater than .006" surface wear after a precision full face grind.



Continuous Monitoring



Extracted Graphs showing high spots at headers

Continuous Monitoring

- After initial bracketing is completed, profiles are taken without the need to shut down.
- Profiles display the Yankee in actual operating condition.
- Profile reports show major profile and detailed edge views.
- Profiles help determine the appropriate timing for your next grind or polish.
- Profiles help determine if the current crown can be optimized.
- Work can be accomplished in 4 to 5 hours.
- Profiles can be taken in either a sheet on or off condition.
- Profiles can be viewed and analyzed within one hour of measurements.

- Final OTR report extracts the Yankee deflection created by the pressure roll(s).
- The OTR data, when combined with machine operating conditions, can show Yankee surface variations independent of changes in condensing load, hood temperature and steam pressure.
- Contact surface temperatures are taken in areas of concern to differentiate thermal conditions from actual surface deformations.
- Profiles are overlaid with your last grind profile for quick reference.

Scope of Work for profiling project

Triosim Service Engineer Will:

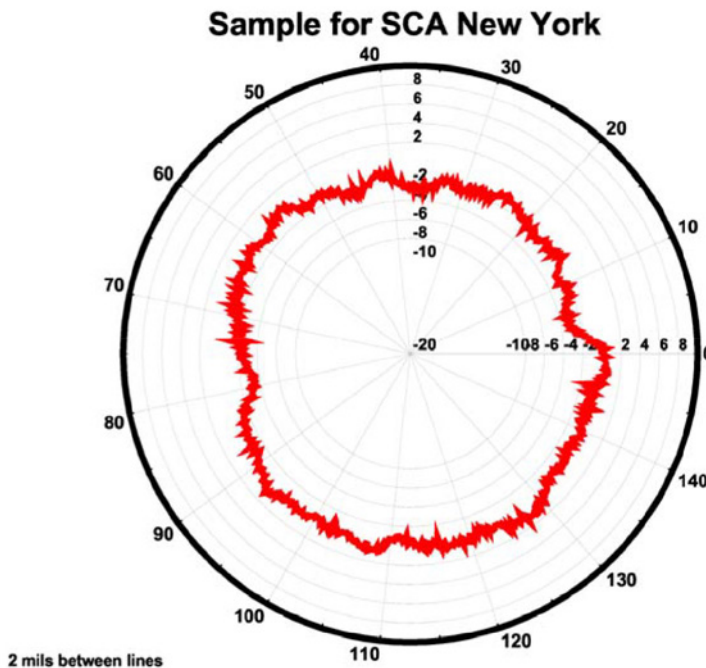
- Design and install OTR support brackets
- Setup and calibrate OTR system
- Stage system for each data set location
- Make all necessary data correlation and skew adjustments
- Take contact surface temperature readings
- Compare raw data to last grind information and theoretical crown (when available)
- Conduct exit meeting to present findings
- Generate detailed report (Optional)

Information Required From Mill:

- Pressure roll load curves
- Loading pressures at the time of the session
- Pressure roll location in reference to the Yankee
- Operational steam pressures
- Machine speed
- Dryness percentages
- Yankee dryer shell material class and shell assembly print
- Header location referenced to the tending side manhole cover

On The Run Head Tilts

Why settle for head tilt data that consumes a day of machine downtime to collect? Triosim can apply our on the run head tilt option, which collects up to 40,000 data points per revolution.



Other Optional Services

- Spot Repairs
- Line scan infrared
- Fitness for service exam
- Routine and Non-routine exam
- UT of fasteners
- Doctor profiling
- Metallurgical services
- Machining services
- Pressure roll loading audits
- Pro-view suction pressure roll inspection
- Dryer Assemblies Inspections
- Millwright Services
- Pipe Fitter Service
- HVAC and Sheet Metal Service
- Re-rates/de-rates with our "R" stamp
- FEA
- Leak repairs