

Z-SPAN 4000

Using the Z-Span 4000, operators can determine the strength of over 60 pulp samples in a 24 hour period.

Description

The Z-Span 4000 Rapid Pulp Testing System generates a set of strength numbers within 25 minutes. The pulp or stock sample is first prepared at the Z-Span 4000 workstation. The prepared slurry is poured into the Automated Sheet Former's slurry reservoir. In ten minutes the sheets are ready to be weighed and loaded onto the Z-Span Tester's feed tray. The operator initiates a test by pushing the run button. At the end of the test, the operator checks the data and initiates the transfer of the calculated data to the mill's information system.

Benefits

Pulp Mill

The Z-Span 4000 Rapid Pulp Testing System produces fiber strength, length and bonding numbers that are sensitive to changes in pulp quality. Replacing viscosity with Z-Span testing allows for decreasing chemical costs, increasing yield, decreasing wood costs while maintaining papermaking stability. Bottom-line: increased profitability by decreasing pulp mill manufacturing costs and reducing variability of pulp quality.

Paper Mill

The Z-Span 4000 Rapid Pulp Testing System is also used to characterize pulp development associated with refining, blending and broke handling in paper machine approach systems; Bottom-line: increased profitability by optimizing paper machine approach systems.



Z-Span Tester



Beater



automated sheet former

System features

The workstation provides :

- increased speed of sample preparation while maintaining good repeatability
- embedded controller for running Z-Span Tester: serial link to native PC for data management, for reference pulp monitoring and to get data to mill information system

Software features

- auto timing of dewatering device
- program controlled mixer
- program controlled sheet former
- humidity control of test sheets
- custom software for data management and reference pulp monitoring
- password-protected system manager function and directory access
- output data from native PC to flash drive, LAN file, printer or screen
- intuitive touch screen menu control
- reference pulp program incl. chart with auto limit settings to monitor tester calibration
- custom sampling location settings
- custom descriptor field for unique test identification
- custom rogue data rejection settings
- scroll-through screen display of stored data with four levels of sort (data/time, location, descriptor, test)

Hardware features

A Workstation

- de-watering device
- fluffer
- fluff pulp scale/cup
- mixer/mixing cups/dilution jug
- timer/paper scale/hygroscopic standard

B Automated sheet former

C Z-Span tester

- embedded controller
- menu operated touch screen
- serial connection to PC
- ethernet card

D Supplies and disposable parts

C Sonic cleaner & tools

*This tester measures
24 zero and short span
tensile strength numbers
within 5 minutes of initiating the test*

*Shift testers can generate
pulp strength data
with a less than 3 %
coefficient of variation.*



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