

# Z-Span 4000

Using the Z-Span4000, 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.



Z-Span Tester and Automated Sheet Former

## 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 papermachine approach systems.

## Features

### System Features:

The Work Station 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 including 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 (Date/Time, Location, Description, Test)

### Hardware Features:

#### A. Work Station

- 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

#### E. Sonic cleaner & tools



workstation

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