Pulp Strength Evaluation System

Z-Span Tester and Automated Sheet Former

Using the PSE System, operators can determine the strength of over 100 pulp samples in a 24 hour period

Description

Pulmac's PSE System offers a complete Z-Span technology package in one compact and highly automated system. Any pulp or stock sample is first prepared at the PSE System's work station. The resulting slurry is then poured into the sheet former reservoir and 5 minutes after activation, 6 sample sheets are automatically delivered, ready to be weighed and loaded onto the tester feed tray. Upon initiating the hands-off test cycle, the custom-configured Z-Span database will be automatically updated within 5 minutes with numbers sensitive to fiber strength, length and bonding.

Benefits

The PSE System brings new certainty to pulp strength. Based on systematic testing, the numbers generated by the PSE System will alert you before creeping process changes deteriorate pulp strength to beyond tolerance limits. Pulmac PSE System strength testing can tell you what you need to know about the fiber strength your customer, the papermaker, wants. Direct benefits to your productivity can include, reducing downgraded pulp, penalty payments, and warehousing costs, all the while improving communication links with pulp users.

Bottom-line: The Pulmac PSE System numbers are the common language between the pulp and paper mills.

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Pulp Strength Evaluation System

Work Station

Z-Span Tester

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

Repeatability

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

System Features:

The Work Station provides:

- Increased speed of sample preparation while maintaining good repeatability
- Automated Z-Span Tester: data management, reference pulp monitoring, CD Rom, Pulmac data to network.

Software Features:
- Auto timing of Dewatering Device.
- Program controlled Mixer.
- Program controlled Sheet Former.
- Humidity control of test sheets.
- Automated Zero Span Tester: data management, reference pulp monitoring,
- Password-protected system manager function and directory access.
- Output data to network and 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
- Computer controller
- Modem
- CD ROM Player
- Ethernet Card

D. Supplies and disposable parts

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