

PULMAC
INTERNATIONAL

A Division of Cowan Technologies Inc.

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 Strength Testing System generated a set of strength numbers within 1/2 and hour. Any pulp or stock sample is first prepared at the Z-Span 4000 workstation. The resulting slurry is poured into the Automated Sheet Former's slurry reservoir. The resulting dried sample sheets are ready to be weighed and loaded onto the Z-Span Tester's feed tray. The Z-Span Tester presents strength numbers that are sensitive to changes in pulp strength.

Benefits

The Z-Span 4000 Rapid Strength Testing System repeatedly comments on the strength potential of pulp coming from the pulp mill and is much more credible than viscosity testing. Replacing viscosity allows for decreasing chemical costs, increasing yield, decreasing wood costs while maintaining papermaking pulp strength stability.

Bottom-line: Increased profitability by decreasing pulp mill costs and increasing papermachine productivity.



Z-Span Tester



Beater



Automated Sheet Former

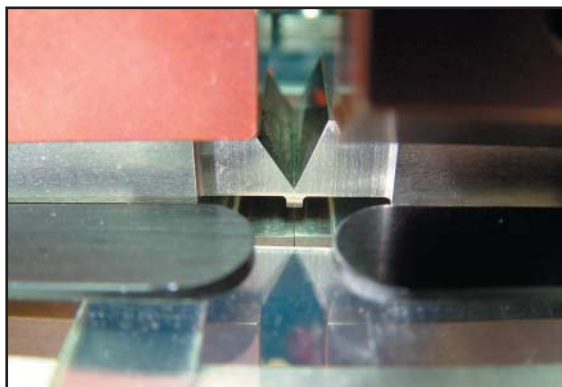
**Fast
Strength
Testing**



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Z-Span™ 4000



Jaws close up

Repeatability

Using the Z-Span 4000, shift testers can generate pulp strength numbers "around-the-clock" with a less than 3% coefficient of variation.

Z-Span Tester

This tester measures 24 peak load zero and/or short span tensile strength numbers within 5 minutes of loading the feed tray.



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System Features:

The Work Station provides:

- Increased speed of sample preparation while maintaining good repeatability
- Computer controlled Z-Span Tester: data management, reference pulp monitoring, CD Rom back-up, Pulmac Remote Service, via modem link, data to network.

Software Features:

- Auto timing of Dewatering Device.
- Program controlled Mixer.
- Program controlled Sheet Former.
- Humidity control of test sheets.
- Computer controlled Z-Span Tester: data management, reference pulp monitoring, CD Rom back-up, Pulmac Remote Service via modem link.
- Password-protected system manager function and directory access.
- Output data to floppy, 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

- Computer controller
- Modem
- CD ROM Player
- Ethernet Card

D. Supplies and disposable parts

E. Sonic cleaner & tools