

# Z-SPAN™ 3000

Pulmac's Z-Span 3000 offers a complete Z-Span technology package in one compact and highly automated system.

Any pulp or stock sample is first prepared at the Z-Span 3000 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 Z-Span 3000 brings new certainty to pulp strength.

Based on systematic testing, the numbers generated by the Z-Span 3000 will alert you before creeping process changes deteriorate pulp strength to beyond tolerance limits. Pulmac Z-Span 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 Z-Span numbers are the common language between the pulp and paper mills.*

## Features

- Increased speed of sample preparation while maintaining good repeatability
- 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
    - computer controller
    - modem
    - CD rom player
    - ethernet card
  - D. Supplies and disposable parts
  - E. Sonic cleaner & tools
- 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 backup, Pulmac Remote Service via modem
  - 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 4 levels of sort (date/time, location, description, test)



Z-Span tester



Sheet former

## Physical specifications

### Dimensions Z-Span tester

Tester 95 x 75 x 115 cm (WxDxH)  
Controller 56 x 56 x 36 cm (WxDxH)  
Monitor 56 x 51 x 46 cm (WxDxH)

### Net Weight Z-Span tester

Tester 100 kg  
Controller 21 kg  
Monitor 18 kg



*Work station*

## Performance data

Using the Z-Span 3000, operators can determine the strength of over 100 pulp samples in a 24 hour period.

Z-Span tester :

- 8 bar of instrument quality air
- 6.35 mm slip fitting for air supply
- Power supply 220 V, 50 Hz, 5 A

## Repeatability

Using the Z-Span 3000, shift testers can generate pulp strength numbers “around-the-clock”, with a less than 3 % coefficient of variation. This repeatability can be assessed and monitored on a shift basis using Pulmac’s unique, software directed, reference pulp program.

“Partners in Quality”