

SpinTrak™ Spinnerette Inspection System



SpinTrak Benchtop B25

SpinTrak Benefits

- Eliminates operator errors from fatigue or subjectivity.
- Allows 100 % inspections.
- Increases fiber quality and consistency.
- Maximizes spinnerette run times.
- Minimizes change over time.
- Decreases the waste of materials and operator time.
- Maximizes profits through minimized risk of defects.

The SpinTrak family of spinnerette inspection systems is specifically designed to inspect all types of fiber extrusion dies used in yarn, staple, spunbond, melt-blown and spunlace applications.

To accommodate various spinnerette sizes and configurations, SpinTrak is available in a variety of models, including the Bench top, Table top and Floor standing units.

Using state of the art vision technology, SpinTrak inspects all of the capillaries of each spinnerette. Capillary defects, which result in slow holes, drips, stoppages, dog legs, short life and other extrusion problems, are detected. The capillary defects include dirt, carbon build up, additive build up, blockage, damage, edge, chipping, and edge wear.



Controller, monitor and printer

ASPEX INCORPORATED

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SpinTrak™ Spinnerette Inspection System

Inspection Table Specifications

| | |
|---|---|
| Inspection Area: | Up to 250 mm (10") deep x up to 250 mm (10") wide |
| X axis Travel | Approx. 290 mm (11.4") |
| Y axis Travel | Approx. 350 mm (13.8") |
| Z axis Travel | Approx. 75 mm (2.9") |
| Inspection Table Dimensions | 900 mm (54.4") deep x 666 mm (26.2") wide x 720 mm (28.3") high |
| Spinnerette Holding Fixture Dimensions: | 335mm (13.2") wide x 381mm (15") long |
| Microscope | 1X - 7X variable zoom microscope (make – Optem) |
| Camera | 1/3" CCD Monochrome (make – Sony) |
| Illumination | LED backlight & LED frontlight |
| Auto Air / Illumination | Air purge nozzle and red indicator |
| Calibration scale | Glass protected reticle (make - Aspex) |
| Inspection Speed: | 1.25 seconds per capillary (after automatic setup) |
| Inspection Table weight | Approx. 68 kg |

Computer / Controller Specifications

| | |
|-------------------------|--|
| Operating System | Windows 7 Professional |
| Computer monitor | 19" LCD flat screen monitor |
| Video monitor | 15" LCD flat screen monitor (monochrome) |
| Motor drive-Control | 3 Independent Micro-stepping Motor Drive Modules (make - Parker) |
| Hard Disk | 3 Solid State Drives (SSD) >= 40 GB Each (make - Intel) |
| PCB's | Video Image Processor, Multifunction I/O Board (make - Aspex) |
| Printer | B&W Laser printer |
| Power Supply | 430 W |
| Input Voltage | 120 V – 50 Hz AC |
| Controller Overall Size | 523 mm (20.6") deep x 440 mm (17.31") wide x 267 mm (10.5") high |
| Controller weight | Approx. 30 kg |



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SpinTrak features

- Automatic recalibration before every inspection
- User-controlled settings for pass/fail criteria
- LED lighting systems eliminate bulb failures and burned optics cables
- Automatic focusing correction for warped or misshapen spinnerettes
- Automatic air purge removes debris, cleaning beads, etc.
- Capillary illuminator facilitates manual cleaning/plugging

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