

Fibrescan is a simple and reliable system for removal of foreign fibre and white PP contaminants in cotton Blowroom lines.

Fibrescan Pearl 2 is a Multi-Camera Sensor based technology working on the principle of monochromatic light intensity variation for color detection and spectral imaging.

Multiple Miniature Camera Array Sensors interlaced with advanced technology are at the core of FibreScan.

- \* DIPT (Digital Image Processing Technology) ,
- \* PMAC (Pixel Mapping Across Camera Sensors) and
- \* PABE (Pilot Air Boosted Ejector)

DIPT, PMAC, PABE in combination enhance the effectiveness of the equipment and provide the best efficiency among this technology machines in the world.

### Features:

- \* Multi-Camera Sensor one for every 65mm of duct width.
- \* Hybrid Embedded Controller enhances reliability.
- \* Very low clean cotton ejections typically 0.5% for 50 Ejections / Min.
- \* Easy to clean and maintain, No PC Needed.
- \* DIPT - Digital Image Processing Technology for optimum detection of Contaminants.

### Triple Clearing

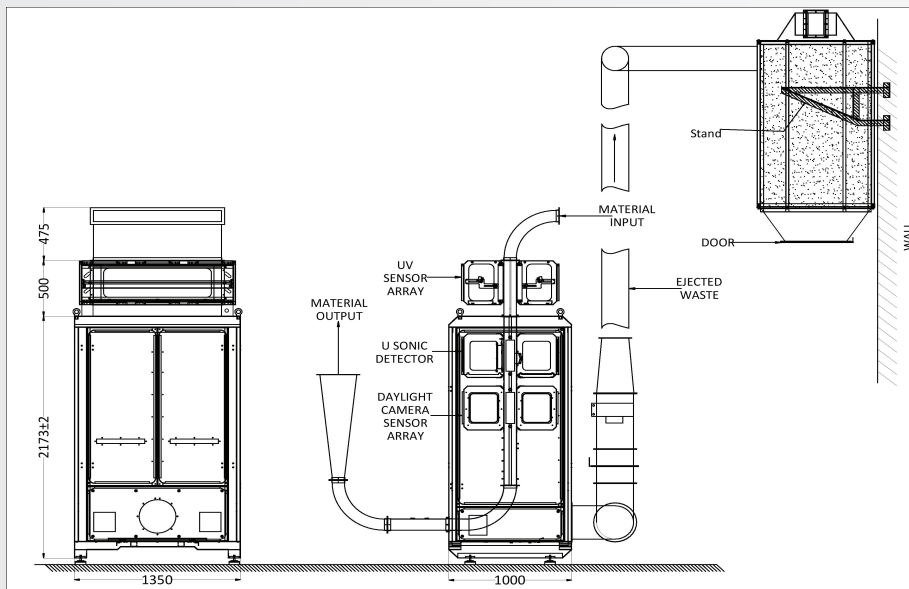
- Daylight Camera Array for Color Scanning
- UV Camera Array for Spectral Imaging
- U-Sonic for Reflective Transmittance detection



Foreign Fibre Control Chamber

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# FibreScan Pearl 2



## Technical Specifications:

Description	FibreScan Pearl 2
Sensing Technology	MultipleTech with Daylight Camera Array Sensing & UV Spectral Imaging and U-Sonic for Reflective Transmittance detection
Processing	Embedded Controller with DIPT – Digital Image Processing Technology PMAC – Pixel Mapping Across Camera Sensors PABE – Pilot Air Boosted Ejector
Type and No of Cameras	Multiple Camera Array Sensors - 64 Nos MonoChrome Daylight Camera Array Sensor UV Spectral Imaging Camera Array Sensor
Resolution	2048 * 1 with 128 pixels for each camera
Camera scanning speed (LPS)	upto 12000 LPS for Camera Sensor Array
White PP Detection	Ultra – Sonic principle ( U-Sonic) & UV Spectral Imaging
Ejection Solenoid	Ultra Quick PABE Ejector with Sub 7Ms response for both ON and OFF
Production Capacity	800 / 1000 Kgs / Hour
Throughput Duct size	1040 * 100 mm
Size of Machine	2670 x 1350 x 1000 mm
No of Ejection Valve	26 Nos
Ejection Waste %	Below 0.5 % - 1 % Maximum 50 Ejections / Min
Sensitivity setting	On Area, Vertical, Horizontal Sizes & Size Wise Color selection Settings
Diagnostics	Camera Sensor , Ejection Valve & Lighting Hours, Intensity and Performance graphs
Display Features	Comprehensive for both Camera Array Sensor & UV Camera Array Sensor
Tube Light Nos and Wattage	12 Nos ( 6 * 2 - 28 Watts ) Day light & 12 Nos ( 6 * 2 - 36 Watts ) UV light
Control System	Dedicated Embedded controller for Camera Array Sensor, UV Spectral Imaging & U-Sonic
Operator Interface	HMI and Console on Mc and also Web Interface on remote PC
Power consumption	2 Kw + Fan
Power	415 Volts 3 Phase 50 Hz
Ejected material Collection	EMCH – Ejected Material Collection Hanger – Optional
Booster Fan for Ejected Material	Booster Fan based on Feed Mc Specs
Ejected Cotton Grams/ Ejection	0.5 Grams / Ejection after Fine Cleaner 0.9 Grams / Ejection after coarse Cleaner
Compressed Air Requirements	3 - 4 CFM based on 50 Ejections / Min @ 6.5 Bar

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\* Product specifications subject to change without notice due to continuous improvements

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**APPLIED**

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