

UniQ

Smart contamination sorter

Powered by PolyLinear Camera with
iGaze Technology

PREMIER



iQ
intelligent QUALITY

UniQ

PREMIER UniQ, the first Smart contamination sorter powered by PolyLinear Camera with *iGaze* technology is the only solution for efficient elimination of foreign matter in Blowroom line. Thanks to the intelligence in technology & programming which help spinning mills to achieve the best performance in further processes.

Features

- PolyLinear AI cameras with QuadVisor
- *iGaze* Technology for White & Transparent PP
- Uniform and Autolevelled Illumination
- Colour & Grayscale scanning in one solution
- Ionized Ejection system
- Auto Calibration to material base shade
- Auto Calibration to tuft speed
- Smart connectivity



Smart Illumination

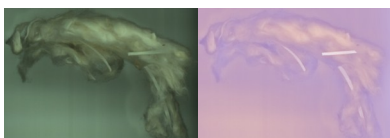
Accurate detection is achieved with a perfect lighting. **PREMIER UniQ** achieves uniform lighting using CCS & apposite CT. This has advantage of consistent illumination for a longer period.

- Uniform & Autolevelled lighting
- Automatic intensity adjustment
- Zero optical distortion
- Automatic temperature control

Detection: PolyLinear Cameras with QuadVisor

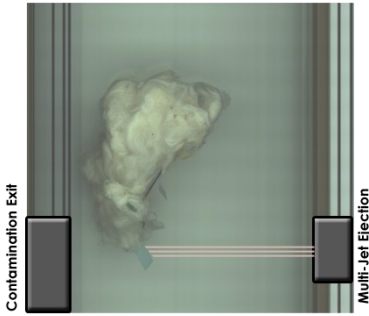
Futuristic detection system for all types of contaminants.

- Custom Made Special cameras with inbuilt AI
- Four Cameras - Two on each side
- World's first contamination sorter with QuadVisor



Detection: *iGaze* technology for White PP

- Detects White & Transparent PP
- INVISIBLE becomes visible
- Highest detection efficiency compared to any other systems

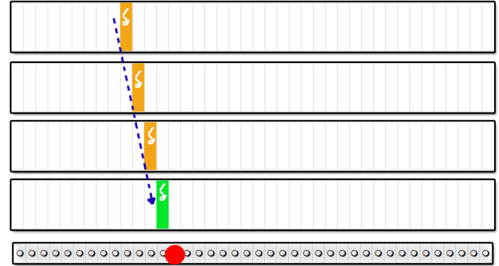


Ionized Ejection Module

- Multi-point Ejection
- Optimal and adoptive triggering
- Precise and pointed ejection with least response time
- Minimum lint loss

Ejection Mapper Technology

- QuadVisor cameras integrated with Ejection Mapper algorithm
- Identifies contaminant movement instantly
- Triggers exact ejection position based on contaminant path



Smart Information Systems



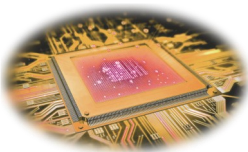
- User friendly GUI
- Numerical & Graphical representations
- Ejection trend analysis
- Audio-visual alarms

Mobile App Integration



- Live updates of ejections
- Ejection History
- Numerical & Graphical representations (Mix / Contamination wise)
- Status Monitoring

Xtium Controller



- Designed for extremely superfast processing in nanoseconds
- Self calibration for material shade time to time
- Colour, Grayscale and **iGaze** processing simultaneously

HiTech Speed Sensor



- Continuous velocity sensor
- Direct sensing without calculations to optimize processing time
- Extremely superfast processing software to calculate delay time accurately

Unrivalled Benefits



- Highest sorting efficiency
- Minimum good fibre loss
- Improves downstream machinery performance

Global Presence



- Global network for sales and service
- Quick reaction time for requirements and services
- Online remote support for Diagnosis and Troubleshooting

UniQ

Technical Data

Contaminants detected

- All Coloured, White and transparent foreign matters, Strings, Films, Paper, Fabric, Feather, Jute bits etc.

Line Integration

- Recommended at the end of Blow room line

Key Technology

- AI based PolyLinear Cameras with QuadVisor Technology (4 Cameras, 2 on each side)
- iGaze Technology to detect White and Transparent PP
- Ejection Mapper Technology for precise ejection of contaminants
- Ionized Multi-Jet ejection module
- Auto adjustment of modules for tuft speed
- Auto adjustment of modules for material shade variations

Options

- Wider width model for high production Blowroom lines (6 cameras, 3 on each side)

Power Supply

- Single Phase 1.5 kW consumption (for machine electronics)
- Three phase 1.2 kW (for evacuation motor)

Configuration

- Production rate up to 1500 kg/h
- Material velocity up to 20 m/sec

Output parameters

- Ejections: Hour, Shift and day wise, Mix wise
- Audio-visual Alarms for exceptions

Calibration

- Self calibration
- Manual option available

Ambient Conditions

- Relative Humidity : 40 to 65%
- Temperature : 5° to 55° C

Compressed Air Requirement

- Approx. 0.2 to 0.5 m³/hr at 6 bar

* Subject to change without prior notice

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Premier Presence



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