

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

- Artificial Intelligence Camera for all types of contaminants

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. 0.3 to 1.0 m³/hr at 6 bar (varies based on ejection rate)

* Subject to change without prior notice

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PREMIER

UniQ

Smart contamination sorter

Powered by PolyLinear Camera with
iGaze Technology



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

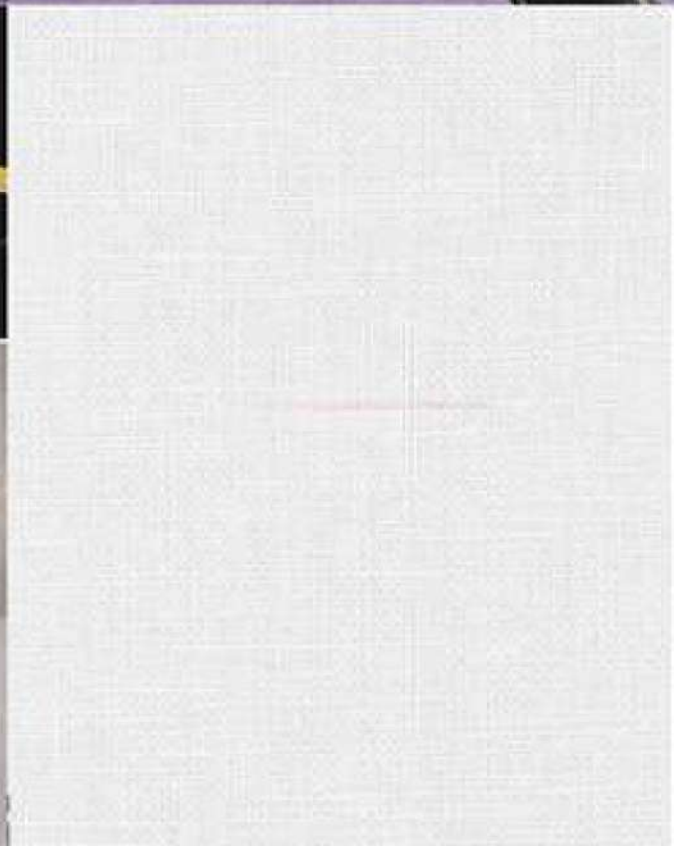
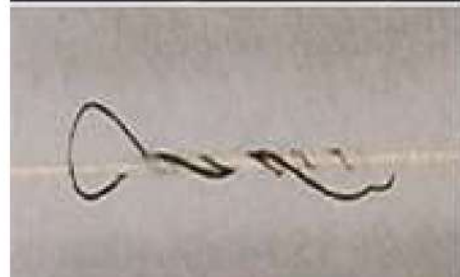
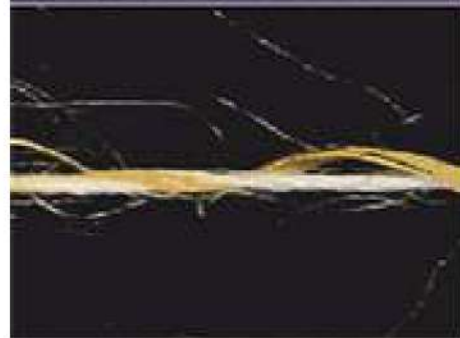
Futuristic detection system for all types of contaminants.

- 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



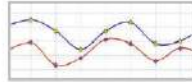


Speed & Pressure Sensor

Pressure in the material flow duct is monitored continuously which is used as an input for adjusting other modules. This sensor also helps in calculating material speed. Automatic delay/ On time is estimated based on real time material speed. Alarm is triggered for any deviations.

Ejection Autoleveller

Real Time Ejection levels are continuously monitored. If any variations observed beyond set limits, machine will automatically adjust the threshold to achieve set ejection rate for efficient contamination removal. Alarm triggers if threshold levels varies beyond set limits,.



Illumination Autoleveller

Brightness levels of illumination source is monitored continuously and in case of any variations, the system automatically adjusts the brightness. Alarm triggers if brightness variations are beyond set limits.

Smart Information System

Touch Interface with intelligent software which provides various information like Ejection Statistics, Graphical analysis etc for easy understanding of performance.

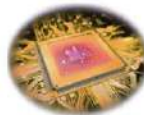


Mobile Apps

Get connected with your machine 24x7 to know the ejection performance with numerical and graphical representations. Dedicated App alarms are triggered for any specific deviations which need immediate attention.

Xtium Controller

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

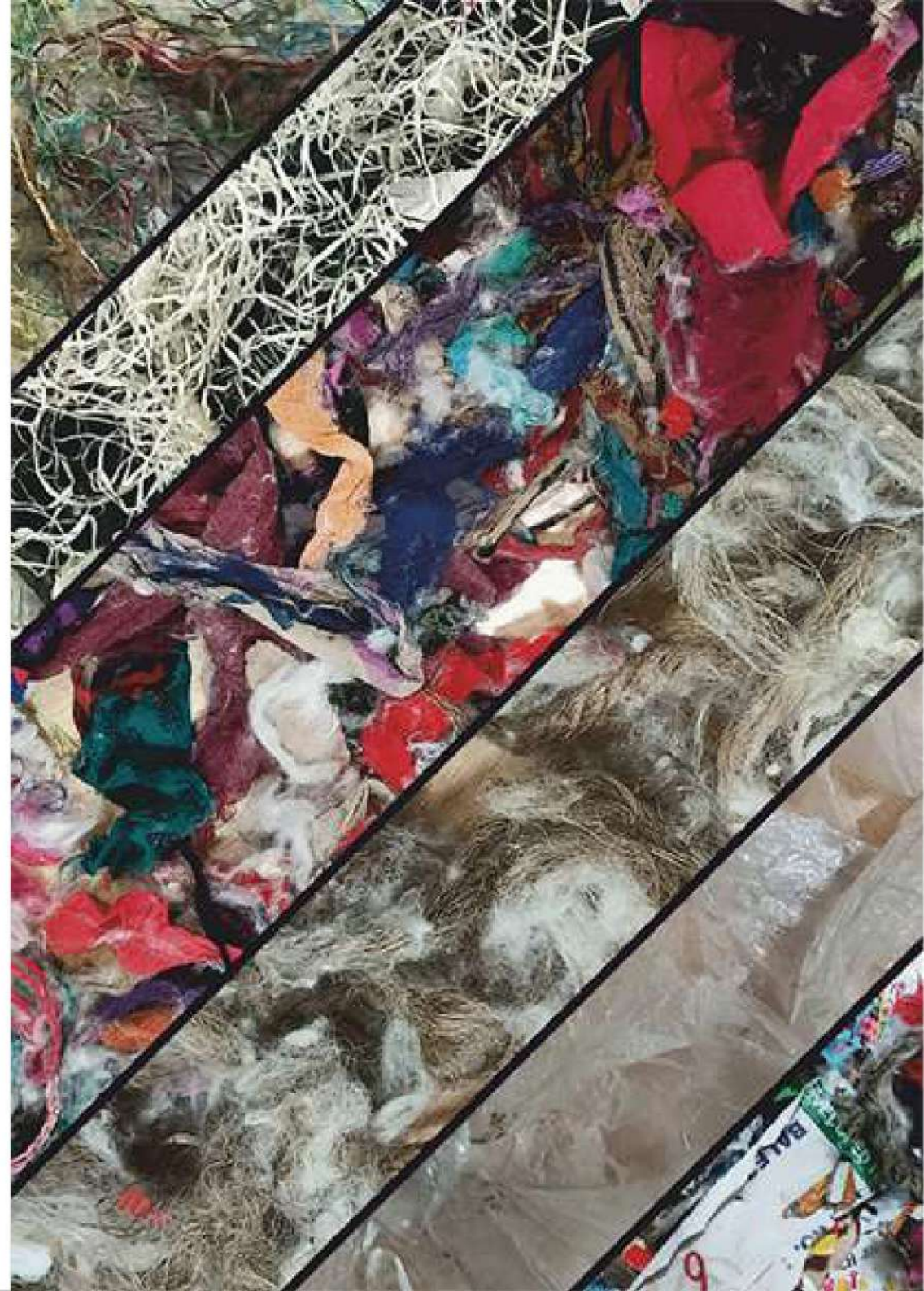


Unrivaled Benefits

- 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



Cleaning time reminder

Cleaning time schedule can be set by user in the information panel. Reminder for cleaning is alerted by the system. Reminder method varies based on the sorter version



Uncleanliness Alarm

The system is equipped with sensors which senses the cleanliness of each module. In case of poor cleaning, alarms are provided automatically. Optionally, line stop signal facility is also available (Line panel support is essential)

Deviation Alarms

Alarm facility for various deviations are available in the following modes based on the sorter version selected.

- Machine Display
- Hooter
- Line stop signal (Panel support essential)
- Mobile Apps
- SMS / Telegram messages



Auto Calibration

All modules are calibrated in real time based on material shades. The response time is too small which gives a consistent performance for any shade variations.

Compatibility for any Blow Room

PREMIER UniQ is suitable for

- Blowrooms for Ring Spinning, Air-jet Spinning, Rotor Spinning, Non-wovens and Ginning processes.
- Cotton and Waste Mixing
- Normal and high speed production lines.



Optimum performance for both slow and high material speeds at any productivity level.



Transfer Zone for Smart Ejection

The contaminant falling in transfer zone is effectively collected by Continuous Waste Evacuation System instantaneously.

