



PLASTIC SHEET INSPECTION

Vision Inspection specifically designed for plastic sheet manufactures

Our sheet inspection system was designed from the ground up to supports the special needs of plastic sheet manufactures.

Using the latest area scan camera technology we implement different illumination types for enhanced defect detection capabilities. bright field, darkfield, distortion measurement and more – all using a single set of cameras.

Advanced cross saw/sheer cutting optimization and sub-sheet evaluation features allow automatic scrapping of disqualified sheet sections with minimal scrap removal, while relaying the required information to the operator, to enable quick fix of quality issues during the run.

Our systems configurations are customized to meet your quality requirements and shorten ROI. From the very basic to the most challenging quality requirements, our systems cover an entire range of specifications and applications, including transparent optical sheets, two-side opaque sheet inspection, optical distortion measurements and more.

This turn-key solution to all of your sheet inspection challenges includes installation, startup and comprehensive training and support for your operators and maintenance personnel.



inspecttech



Main Feature

- Online, 100% distortion measurement for optical sheets
- Complete range of defect classification and detection: scratches, crystals, gels, bubbles, black specks, and more.
- Cross-cut integration to minimize scrap
- Sub-sheet evaluation to maximize yield
- Complete run documentation

Advantages

- Higher product quality and yield.
- User friendly yet sophisticated Windows-based interface
- Lower manufacturing costs through targeted process improvements
- Designed specifically for sheet manufacturers

Specification / Application Range



Specifications	Minimum	Maximum	Remarks
Line width	1,300mm/51"	4,500mm/177"	Other line widths upon request
Resolution	300 microns / pixel 12 mil / pixel	30 microns / pixel 1.2 mil / pixel	Other resolutions available upon request
Line Speed	-	70 meters / minute 230 feet / minute	Higher speeds can be achieved when distortion measurement is off
Distortion measurement spatial resolution	3mm/0.12"	1.5mm/0.08"	-
Illumination Types	Dark field, Bright field and more		Transmitted and reflected According to product type
Distortion measurement method	According to DIN 52305 (refractive power)		With higher spatial resolution
Product Types	Clear, translucent, tinted and opaque sheets		Optical and non-optical