



IN-LINE PLASTIC PELLET PRODUCTION MONITORING, AND SORTING

Cost-effective solutions for inspecting each pellet produced



inspect.tech offers an innovative solution for the in-line inspection of plastic pellets using the latest machine vision technologies and specialized lighting solutions.

The plastic pellet inspection system's simple mechanical design is engineered for easy integration into existing production lines, providing a comprehensive inspection solution for the entire production stream, throughput optimization, and quality assurance.

The basic system supports throughput of 1,000 kg/hr (2,200 lbs/hr).

Systems up to 9,000 kg/h (19,800 lbs/hr) are available as standard.

The system is delivered fully assembled and ready to use.



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Detection Capabilities

- Impurities in the material
- Median pellet size variation and pellet size distribution
- “Tails” caused by improper cutting
- Angel hair, fines, and streamers caused by the transfer system
- Color variations (color camera system only)
- Cross-contamination



Unique Design

- Simple mechanical structure
- No motors, belts, or vibrators
- Easy cleaning and maintenance for fast product changeovers
- Easy recipe development and editing
- User-friendly yet sophisticated Windows-based interface

Advantages

- Decrease in-house waste and your customer’s waste caused by disqualified pellets
- Continuous process monitoring and optimization
- Set objective standards for consistently higher pellet quality
- Safely extend preventive maintenance intervals
- Reduce customer complaints and returns

Specifications

Line capacity	1,000 kg/hr / 2,200 lbs/hr	With a single camera
	9,000 kg/hr / 19,800 lbs/hr	With multiple cameras
Inspection resolution	50-150 microns/pixel / 1.9-5.9 mil/pixel	
Illumination systems	Transmitted and reflected	VIS/UV
Sorting	Air blow nozzles unit	
	Optional diverter valve	