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INTELLIGENT INSPECTION SOLUTIONS FOR ADHESIVE FILMS

In modern manufacturing, precise and efficient inspection solutions for adhesive films are essential to ensure the highest quality standards. This presentation highlights innovative approaches and technologies that revolutionize the inspection of adhesive films.

Key Points of the Presentation:

1. Smart Cameras:

- Utilization of high-resolution smart cameras to capture fine details and identify defects on adhesive films.
- Integration of real-time image processing technologies for immediate defect detection and analysis.

2. Very Bright LED Lighting at Various Angles:

- Use of LED lighting systems with variable intensity and different angles of incidence to enhance the visibility of defects.
- Optimization of lighting arrangements to minimize reflections and maximize contrast during inspection.

3. AI Classifier:

- Implementation of advanced AI classifiers for automated identification and classification of defect types.
- Training of AI models based on extensive datasets to improve detection accuracy and reduce false alarms.

4. AI Software:

- Development and use of specialized AI software solutions for processing and analyzing the image data captured by smart cameras.
- Application of machine learning and deep learning algorithms to continuously improve inspection processes and adapt to new defect types.

The presentation provides practical insights into the latest technological advancements and their application in the inspection of adhesive films. By employing intelligent camera systems, optimal lighting techniques, and powerful AI software, quality assurance is elevated to a new level, minimizing production downtimes and increasing efficiency.

Target Audience: Production managers, quality managers, engineers, and technologists in the manufacturing industry who are interested in advanced inspection solutions and their practical implementation.

Experience an exciting journey through the world of modern inspection technologies and discover how AI and smart cameras are shaping the future of quality control.