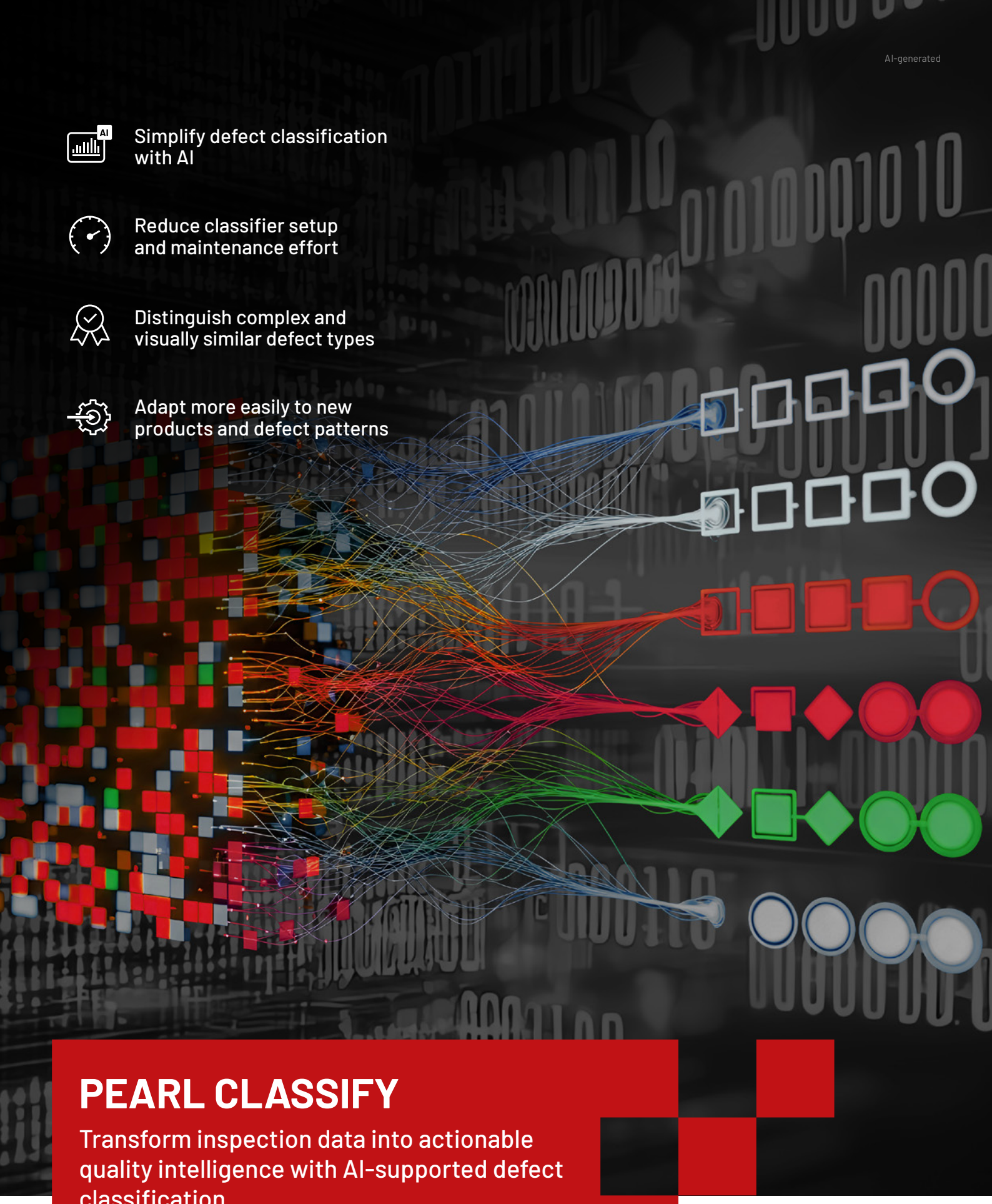



Simplify defect classification with AI

Reduce classifier setup and maintenance effort

Distinguish complex and visually similar defect types

Adapt more easily to new products and defect patterns

# PEARL CLASSIFY

Transform inspection data into actionable quality intelligence with AI-supported defect classification.

ISRA VISION

Part of Atlas Copco Group

## About PEARL Classify

PEARL Classify is an AI-powered software solution that simplifies defect classification by automatically assigning detected defects to predefined classes based on their visual characteristics. Instead of relying solely on manually engineered features and rule-based algorithms, the system learns from training data to recognize even complex and highly variable defect patterns. This enables a more efficient and scalable classification process while reducing engineering effort, manual tuning, and ongoing maintenance.

By transforming inspection data into actionable quality intelligence, PEARL Classify helps manufacturers achieve more consistent classification results and make faster, better-informed quality decisions. Manufacturers spend less time defining and refining classification rules while achieving more reliable and consistent results. **Less effort. More consistency. Better quality decisions.**

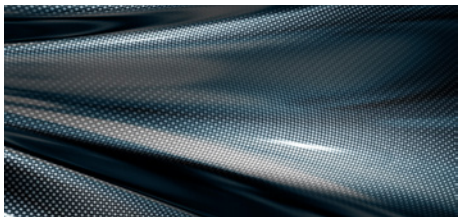
## Key Features

- **Simplify defect classification with AI**
- **Reduce classifier setup and maintenance effort**
- **Distinguish complex and visually similar defect types**
- **Adapt more easily to new products and defect patterns**
- **Improve consistency across lines, plants, and operators**
- **Support faster and more confident quality decisions**

## Applications

**Battery film**

(separator film, electrode coating)



**Composites**

**Glass**

AI-generated

**Nonwovens**

**Plastic film, foil & sheets**

**Steel & Aluminum**

ISRA VISION

Part of Atlas Copco Group