Minebea intec
The true measure

# Vision Inspection

## Optical Inspection for quality assurance of packed products

### Benefits

- Ensure quality
- Document quality
- Optimize production
- Increase sustainability

Food Safety | Easy Operation | Industrie 4.0

*Consumers and retailers demand excellence in foods products and packaging. Regulations require correct critical food safety markings, and attention towards reducing waste in the production processes is more important than ever. Minebea Intec´s Vision systems perform a reliable and efficient quality control in food packaging lines and facilitate production optimization. Our standardized Plug-and-Play solutions for packaging inspection are all based on the same leading technology and software.*

### Our product range offers a complete optical packaging inspection

- Reliable, accurate 100 % inspection ensures product quality and food safety by rejecting all products with unacceptable errors.
- Reliable vision data allows complete documentation of all inspections – to meet and exceed any retailer demands.
- Increase efficiency and reduce waste, downtime and through efficient automated inspection, monitoration and intelligent use of vision data.
- Become more sustainable through reduced food loss, waste and environmental impact achieved by optimization features.

Vision | Seal Inspection | Foreign body detection | Statistics

# VisioPointer®

## Stand-alone unit with built-in conveyor & ejector

VisioPointer® reliably automates inspection processes in food packaging lines using leading vision technology and multiple inspection types. Its intuitive interface and intelligent data usage allow operators to ensure product quality, reduce waste and downtime, and optimize the production. As a plug and play vision solution, VisioPointer® makes thorough quality control achievable for any food manufacturer with easy implementation, operation and maintenance.

## Highlights

- Handles unlimited number of product variations
- Automated, compact end-of-line inspection
- Integrated operator panel with touch screen
- Intuitive interface for efficient operation
- Cloud-enabled Production Intelligence
- ERP connectivity
- Control your fleet with Central Product Management

## Vision features

- Print on foil
- Top inspection
- Bottom inspection
- Side inspection
- Punching symmetry
- Contents
- Seal inspection
- Seal presence
- Label
- Label 360°
- Barcode
- Print

# Technical specifications – VisioPointer®

| Configuration | |
|---|---|
| Configuration | 1 top camera |

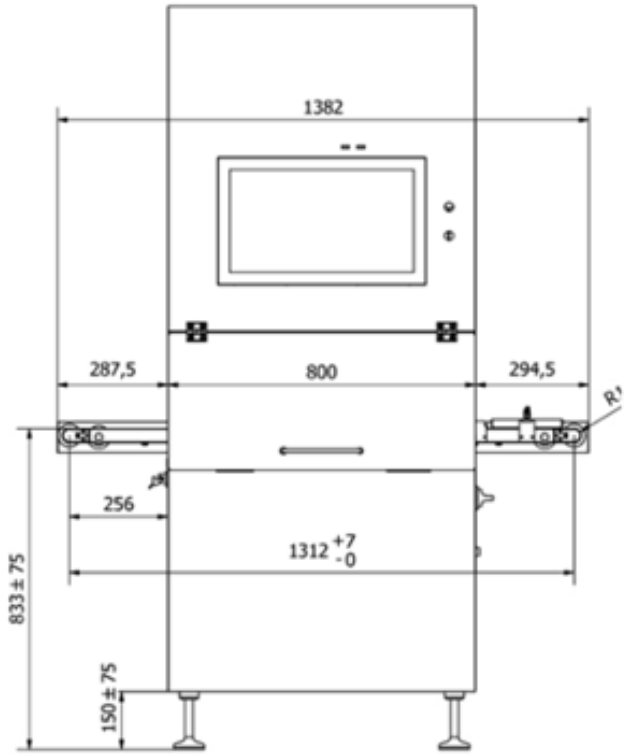
| Inspection Specifications | |
|---|---|
| Camera Type | GigE Line Scan, light included |
| Max. dim. of inspected product | 110 H × 280 W × 350 D mm |
| Max. conveyor speed | 800 mm/s |

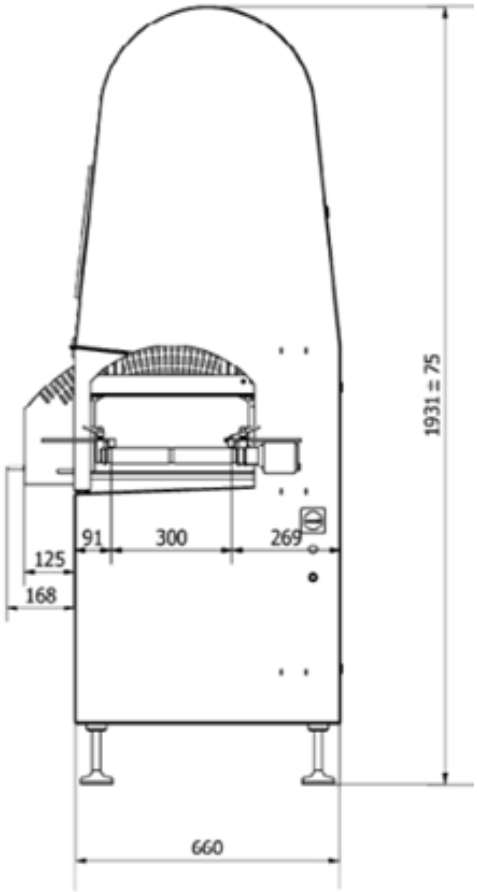
| Mechanical Specifications | |
|---|---|
| Material | AISI 316 Encap. parts: Stainless steel AISI 304 |
| Dimensions | 1930 H × 1382 W × 660 D mm (excl. shield) |
| Weight | 350 kg |
| Conveyor dimensions | 1400 W × 300 D mm |
| Transport Height | 900 mm (+/- 50 mm) |
| Ejection mechanism | Mechanical Pusher (Standard) |
| Enclosure Rating | IP 64 |

| Built-In Computing System | |
|---|---|
| Processing system | Industrial PC |
| Operating system | Windows 10 IOT Enterprise LTSB |
| Interface | Gigabit Ethernet and digital I/O |
| Communication protocol | OPC UA and REST |
| HMI | 21,5″ full HD multi-touch pane |
| Language | All languages available |

| Supply | |
|---|---|
| Processing system | Industrial PC |
| Operating system | Windows 10 IOT Enterprise LTSB |
| Interface | Gigabit Ethernet and digital I/O |

# Technical diagram – VisioPointer®




All dimensions in mm

# VisioCompact®

## Compact Stand-alone unit with conveyor

VisioCompact is a stand-alone vision system that efficiently performs thorough quality control of most types of food packaging within a small footprint. The system has a built-in conveyor, ejector and operator panel. With TriVision's intuitive interface and intelligent data usage, VisioCompact® enables operators to efficiently ensure product quality, reduce waste and downtime, and adjust production parameters for an improved OEE.

## Highlights

- Automated, compact end-of-line inspection
- Integrated operator panel with touch screen
- Intuitive interface for efficient operation
- Quick changeovers and product teach-ins
- Real-time data overview of production performance
- Cloud-enabled Production Intelligence
- ERP connectivity
- Control your fleet with Central Product Management
- Handles unlimited number of product variations

## Vision features

- Label
- Label 360°
- Barcode
- Print
- Print on foil
- Top inspection
- Bottom inspection
- Side inspection
- Contents

# Technical specifications – VisioCompact®

| Configuration | |
|---|---|
| Configuration | 1 bottom + 1 top camera conveyor |

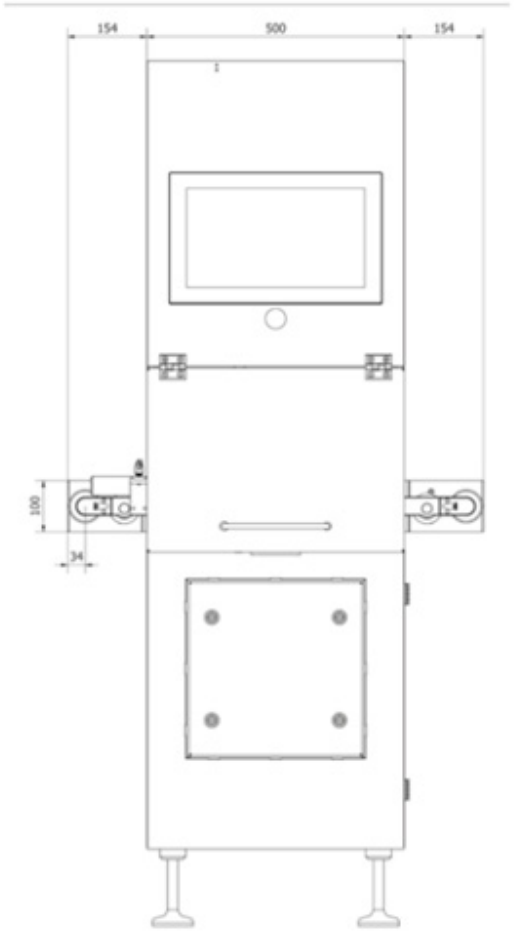
| Inspection Specifications | |
|---|---|
| Camera Type | GigE Line Scan, light included |
| Max. dim. of inspected product | 100 H × 280 W × 280 D mm |
| Max. conveyor speed | 800 mm/s |

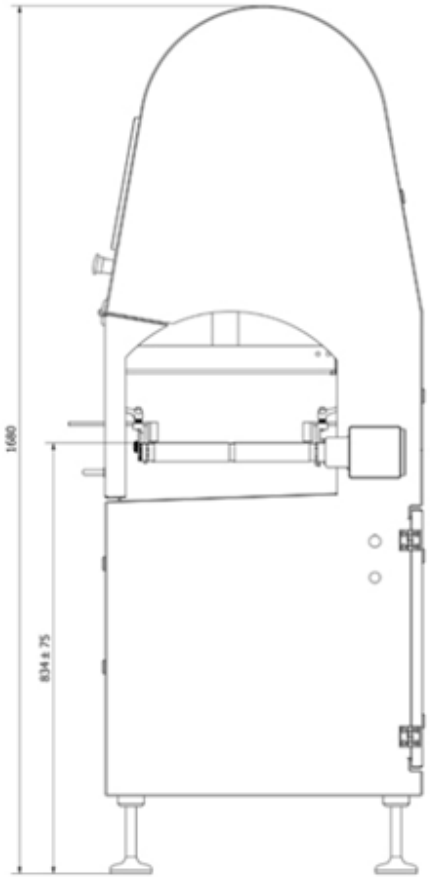
| Mechanical Specifications | |
|---|---|
| Material | AISI 316 Encap. parts: Stainless steel AISI 304 |
| Dimensions | Standard: 1680 H × 1128 W × 610 D mm<br>Optional: 1680 H × 808 W × 610 D mm |
| Weight | 165 kg |
| Conveyor dimensions | Standard: 1128 W × 300 D mm<br>Optional: 808 W × 300 D mm |
| Transport Height | 900 mm (+/- 50 mm) |
| Ejection mechanism | Mechanical Pusher (Standard) |
| Enclosure Rating | IP 64 |

| Built-In Computing System | |
|---|---|
| Processing system | Industrial PC |
| Operating system | Windows 10 IOT Enterprise LTSB |
| Interface | Gigabit Ethernet and digital I/O |
| Communication protocol | OPC UA and REST |
| HMI | 15,5″ full HD multi-touch panel |
| Language | All languages available |

| Supply | |
|---|---|
| Processing system | Industrial PC |
| Operating system | Windows 10 IOT Enterprise LTSB |
| Interface | Gigabit Ethernet and digital I/O |

# Technical diagram – VisioCompact®




All dimensions in mm

# SmartInspector®

## Simple installation on top of existing conveyor

SmartInspector Thorough Inspection of Packaging® is a plug & play vision solution for the most essential inspection requirements. The system is mounted on top of an existing conveyor with brackets, allowing a simple, flexible installation into most production lines. While being the most compact solution for packaging inspection in the TriVision range, SmartInspector® still has TriVision's powerful software, intuitive interface and intelligent data facilitating efficient quality assurance and production optimization.

## Highlights

- Automated, compact end-of-line inspection
- Integrated operator panel with touch screen
- Intuitive interface for efficient operation
- Quick changeovers and product teach-ins
- Real-time data overview of production performance
- Cloud-enabled Production Intelligence
- ERP connectivity
- Control your fleet with Central Product Management
- Handles unlimited number of product variations

## Vision features

- Label
- Label 360°
- Barcode
- Print
- Print on foil
- Top inspection
- Side inspection
- Contents

# Technical specifications – SmartInspector®

| Configuration | |
|---|---|
| Configuration | 1 bottom + 2 top cameras conveyor, rejecter |

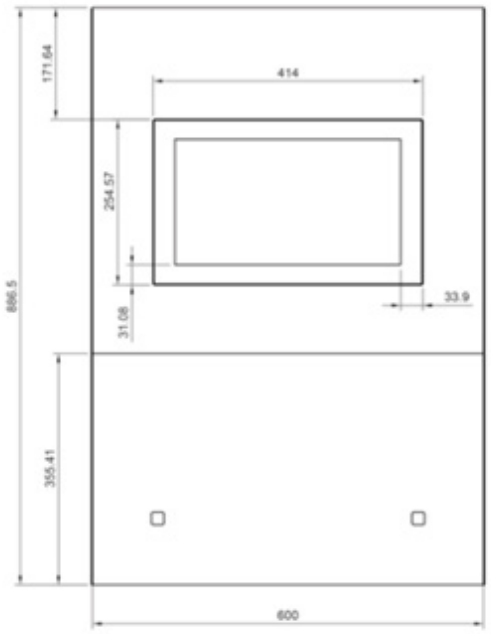
| Inspection Specifications | |
|---|---|
| Camera Type | AV Mako G-507C PoE |
| Max. dim.  of inspected product | 150 H × 280 W × 280 D mm |
| Max. conveyor speed | 800 mm/s |

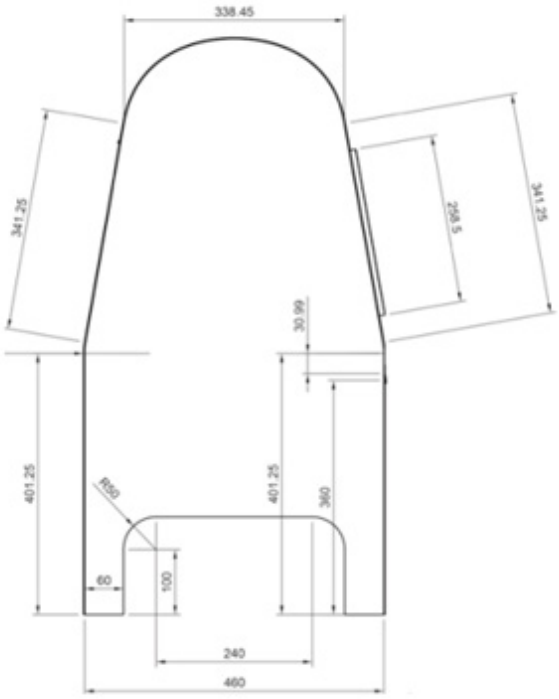
| Mechanical Specifications | |
|---|---|
| Material | AISI 304 steel |
| Dimensions | 885 H × 600 W × 460 D mm |
| Weight | 40 kg |
| Conveyor dimensions | Multiple width available, 340 mm max. conveyor belt width |
| Ejection mechanism | Optional |

| Built-In Computing System | |
|---|---|
| Processing system | Industrial PC |
| Operating system | Windows 10 IOT Enterprise LTSB |
| Interface | Gigabit Ethernet and digital I/O |
| Communication protocol | OPC UA and REST |
| HMI | 15,6″ full HD multi-touch panel |
| Language | All languages available |

| Supply | |
|---|---|
| Processing system | Industrial PC |
| Operating system | Windows 10 IOT Enterprise LTSB |
| Interface | Gigabit Ethernet and digital I/O |

# Technical diagram – SmartInspector®




All dimensions in mm

The technical data given serves as a product description only and should not be understood as guaranteed properties in the legal sense.

Specifications subject to change without notice.
Rev. 04/2022

Minebea Intec GmbH
Meiendorfer Straße 205 A
22145 Hamburg, Germany
Phone +49.40.67.960.303
sales.hh@minebea-intec.com
www.minebea-intec.com