

Closure Testing

Preform Testing

Bottle Testing

OEM Applications

CLOSURE Testing System

Complete System Solutions from **Cooling Conveyor** through the unique **IMDvista Vision System** to the **Filling Box**, all from one source. The new **INOX Line** (all in stainless steel) brings more than **10 Years of Experience** in building **Vision Systems** to a common denominator.

PREFORM Testing System

Inline and Offline Preform Testing System (sorting of bad lots only) including orienting system. **Flexibility and Ease of Operation** are the most important features.

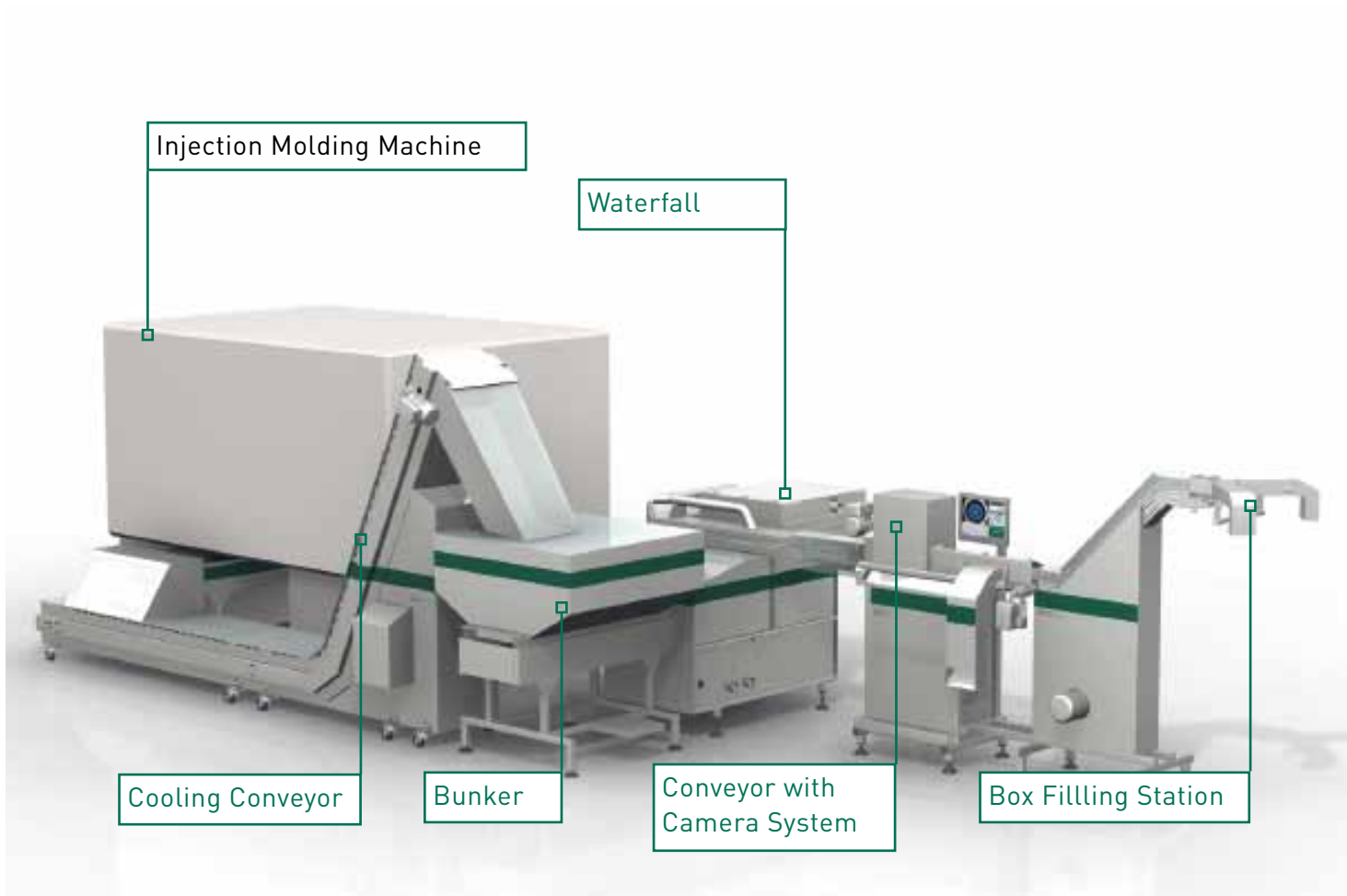
BOTTLE Testing System

Integrated into Blow Molding Machines or stand alone **Sorting Systems**, ask us we have your specific application. **IMDvista Bottle Testing System** is a flexible up to date **Vision System**.

OEM Integrated Applications

Specific **OEM** solutions, where **Easy Integration** is of the utmost importance and where our broad knowledge and experience is to your advantage. Ask us for your specific **OEM Integrated Application**.

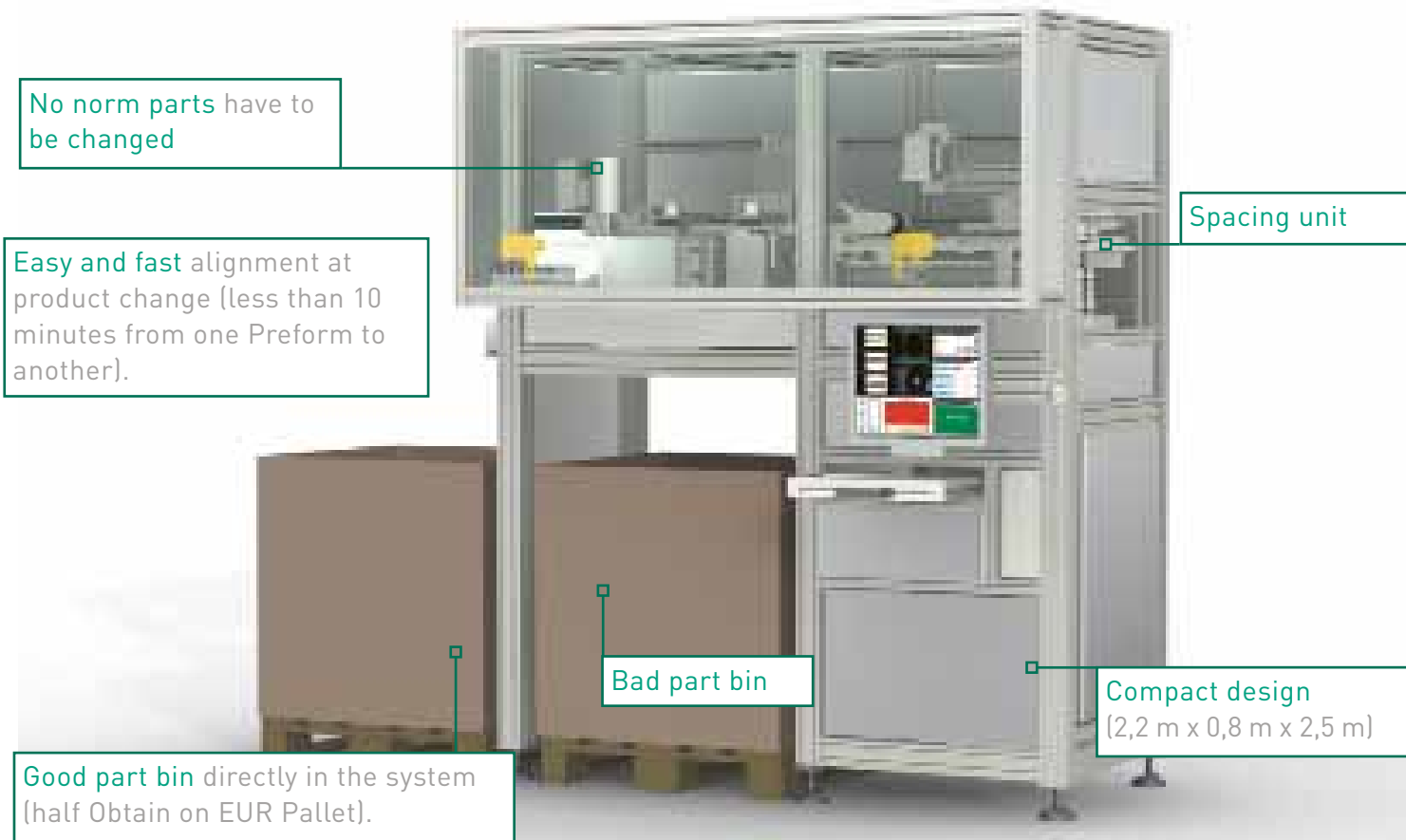
IMDvista® Complete System Overview



**For more Details see specific
Closure Brochure on
www.imdvista.ch**

IMDvista® products are continuously developed and adapted to the newest technical progress, for which reason optical adjustments and improvements of the technical specifications are subject to change at any time.

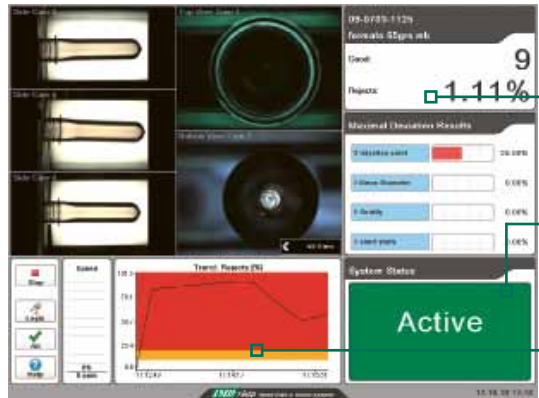
IMDvista® Preform Handling System for INLINE Testing (Pat. Pend. Nr. EP08155029 for Preform Testing System)



IMDvista® products are continuously developed and adapted to the newest technical progress, for which reason optical adjustments and improvements of the technical specifications are subject to change at any time.

IMDvista® Vision System

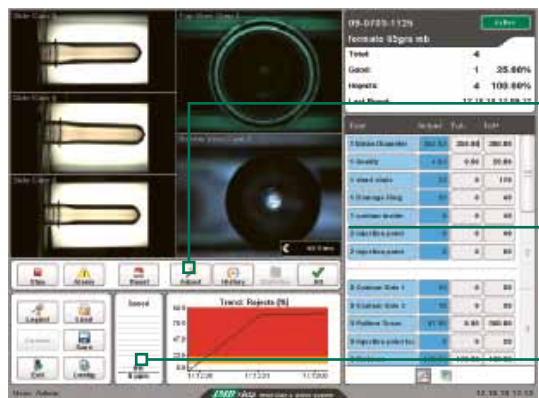
Facts



Fast overview for most important values
(Reduced to the max!)

Clear Indication of System Status
(System Activated, Alarm Message, etc.)

Trend Chart for immediate System History
Analysing



Teach in system (no specific vision technology
knowledge necessary)

Solid state technology
(no Hard drives)

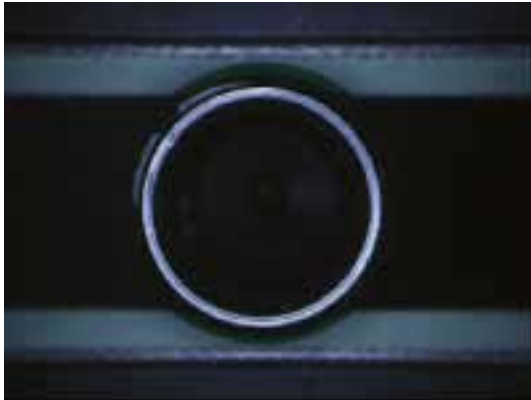
Fast application with Color cameras
(over 2'000 parts/min.)

Facts

Applications

IMDvista® Vision System

Neck Inspection (typical defects, more can be detected on demand)



Defects on Mouth area

- _ Short shots around the top of the Neck
- _ Scratches / notches independent of the positioning
- _ Color and Colorchanges using color cameras

Applications

Neck Inspection

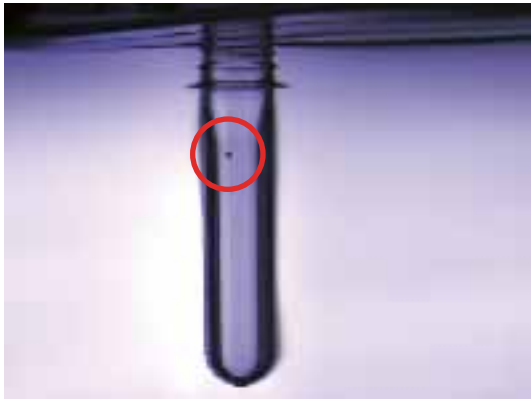


Diameter and Ovality checking

- _ Ovality and
- _ Diameter on any edge with contrast

IMDvista® Vision System

Body Inspection with up to three views. Absolutely free view from all sides! No view obstruction through brackets or clamps!



Contamination detection

- _ Black spots,
- _ impurities even with dark colors with special light (this is a picture of a blue preform)

Applications

Body Inspection



Defects at the body

- _ Bubbles all around the body
- _ 100% detection with 3 Cameras

IMDvista® Vision System

Body Inspection with up to three views. Absolutely free view from all sides! No view obstruction through brackets or clamps!



Color and Color changes

- _ 100% detection with Color cameras

Applications

Body Inspection

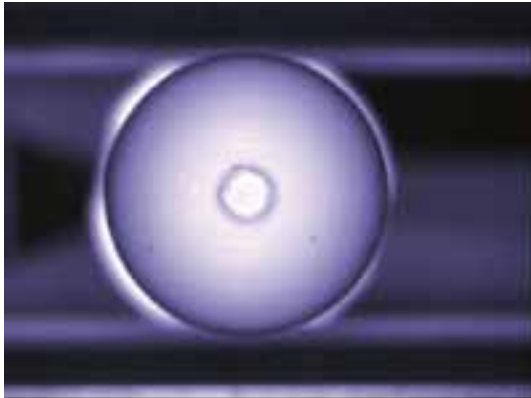


Defects on shape

- _ Injection gate
- _ Walthickness
- _ Deformation (to vertical line)

IMDvista® Vision System

Bottom Inspection

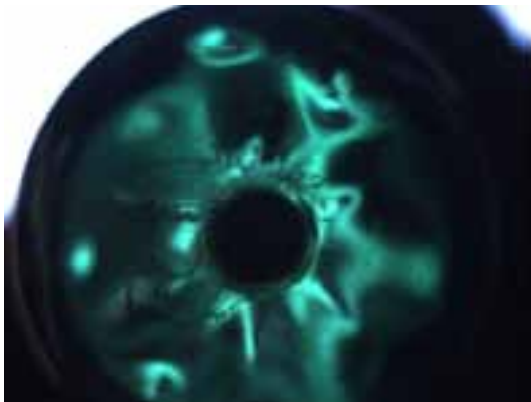


Defects

- _ Deformation,
- _ Translucent etc.

Applications

Bottom Inspection



IMDvista® Vision System

Details

High resolution CCD **Color** Camera, incl. special lens

Adapted flashlight, white, software guided, including cabinet for lighting

Software License for one workstation

(Operating surface German, English, Spanish, Polish and French etc. more languages on demand)

System software for inside testing

Menu driven testing plans

Testing functions such as: Not fully injected, damaged, size, deformation, ovality, overfill, thread deformation, color etc.

It is possible that one test may exclude another one

- _ Easy to use Windows surface for parameter settings
- _ Picture in Picture - Technology with online display for camera picture and measuring data's
- _ Continues statistics with separate indication of error.
- _ Programmable software - FIFO for a precise ejection from the conveyor belt, time or pulse based.

"Good / Bad" signal 24V with Toggle - Signal for BDE - connection.

Industrial, crash proof operating system

Applications

Details

IMDvista®Portal - connects your shop floor to your office

Facts



Easy overview for Superior 360°
Production & Quality Transparency

Remote access to your installed
IMDvista Vision Systems

Customized , up-to-the-minute KPI
(Key Performance Indicator)



Plug & Play installation (automatically
locating IMDvista Vision Systems in your Network)

Interface to your Business System
possible
(ERP, MES, LIM's etc., Date access via SQL Database)

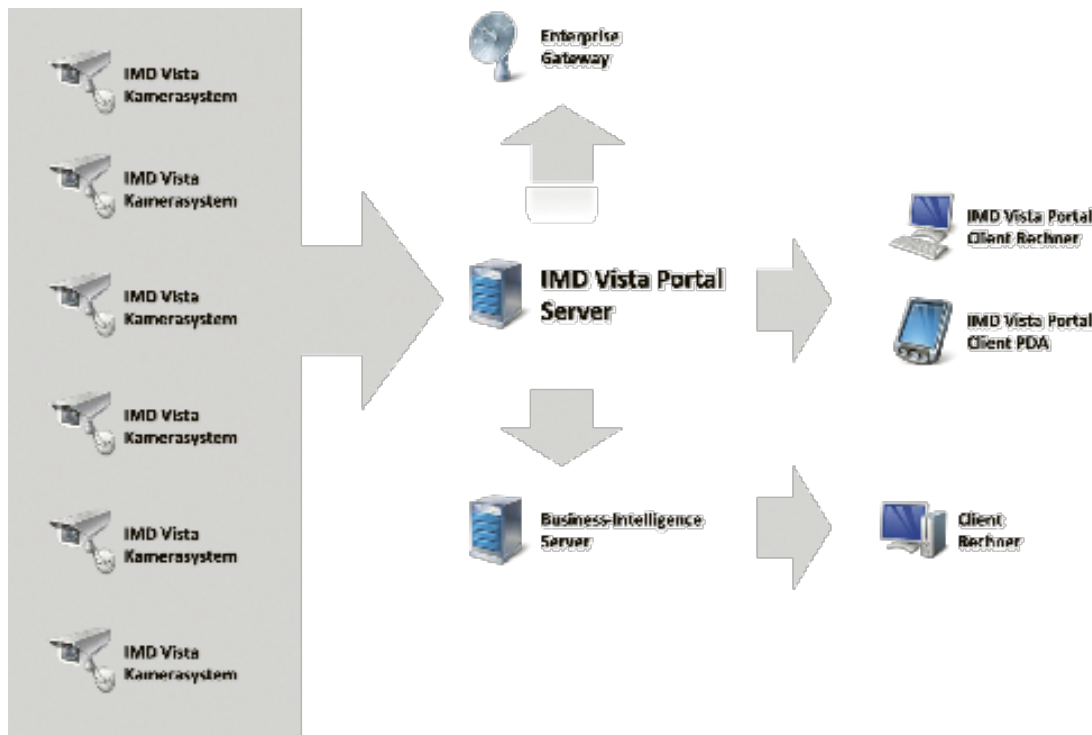
Easy-to-configure connectivity to
external automation and IT systems

Facts

Applications

IMDvista®Portal - connects your shop floor to your office

Factory Model



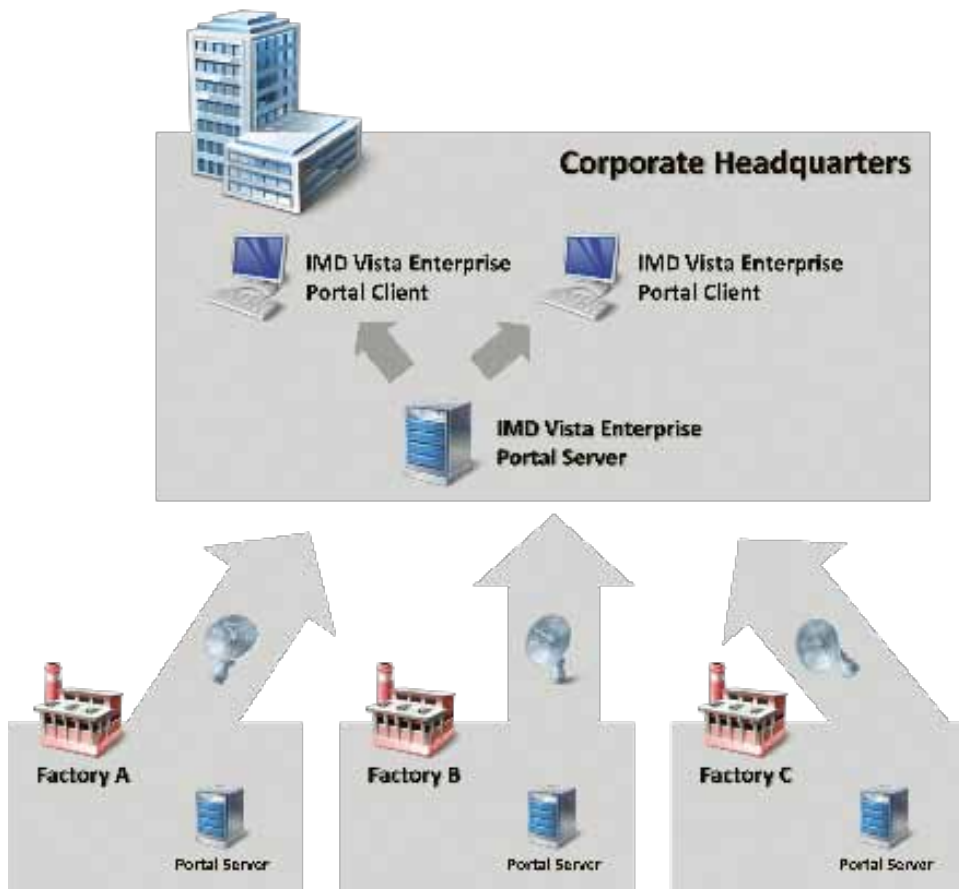
IMDvista Portal Factory Model delivers:

- _ Superior Factory-wide **Production & Quality Transparency**
- _ **Easy Installation** by intelligent plug & play mechanisms (cost efficiency)
- _ **Network** connectivity
- _ Excellent **Factory Performance Management**
- _ The IMD Vista Portal allows flexible **factory-related KPI calculations**,
- _ storage of **historical data**
- _ enables **automatic data back-ups**

Applications Factory Model

IMDvista®Portal - connects your shop floor to your office

Enterprise Model



IMDvista Portal Enterprise Model delivers:

- _ Superior **Enterprise-wide Production & Quality Transparency**
- _ **Easy Installation** by intelligent plug & play mechanisms
- _ The IMD Vista Enterprise Portal and the IMD Vista Factory Portals have to be **connected by an appropriate Internet or Intranet**
- _ The IMD Vista Factory Portals are **automatically detected** and integrated by the Enterprise Gateway technology
- _ The IMD Vista Factory Enterprise Portal can be **easily connected** to any type of Business Systems by using different interface protocols
- _ The IMD Vista Portal enables **up-to-the minute performance comparison between factories**

Applications

Enterprise Model

IMDvista®Portal - connects your shop floor to your office

Details

Functionalities:

- _ Visualize any number of IMD Vista Vision Systems
- _ Realtime KPIs Calculation (OEE, Efficiency, Quality, Availability)
- _ Overall Status Monitoring
- _ Robust Connection Management
- _ Zero configuration portal server setup
- _ Remote Connection of IMD Vista Vision Systems by intelligent plug & play mechanism (Vision Discovery)
- _ Remote Connection of IMD Vista Factory Portals by intelligent plug & play mechanism (Enterprise Gateway)

Used Client Technologies:

- _ Operating System: Windows XP and later
- _ Based on Xavo Smart Client Tools
- _ Eclipse Rich Client Platform
- _ Automatic Client Updates (one time installation)

Server Technologies:

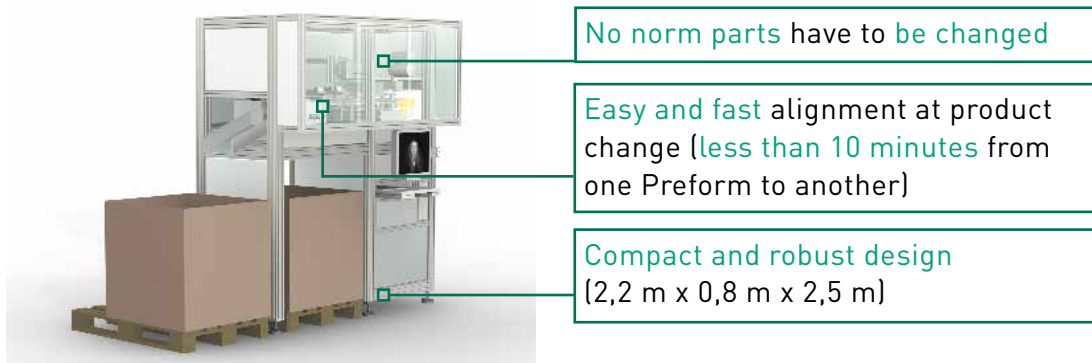
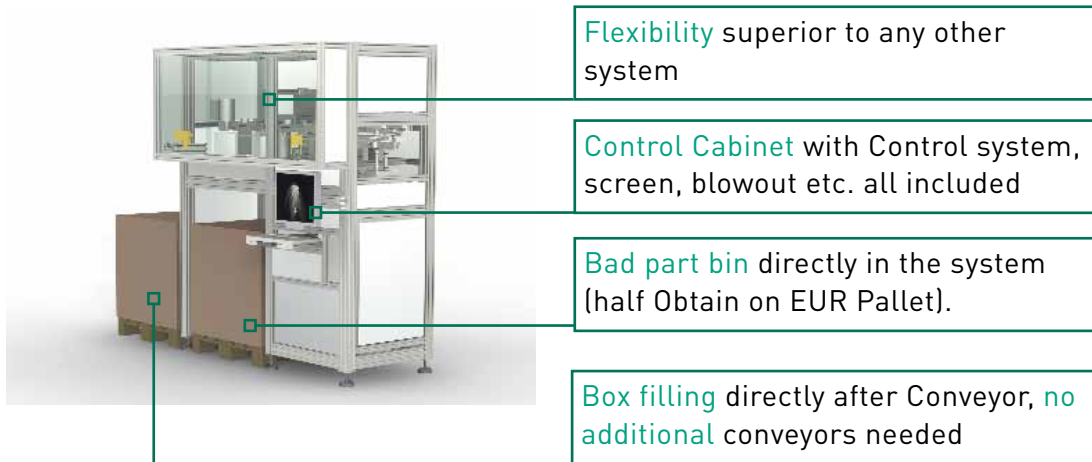
- _ Operating System: Windows 2000 Server and later, Client: Windows XP or later
- _ Based on Xavo Operational Excellence Foundation
- _ Enterprise Java Backend hosted on any compliant Application Server

Applications

Details

IMDvista® Preform Handling System – INLINE or OFFLINE Testing

Facts



Facts

Applications

IMDvista® Preform Handling System - INLINE or OFFLINE Testing

Overhead Conveyor. Body Inspection with up to three views. No view obstruction through brackets or clamps!



- _ Absolutely free view from all sides!
- _ No view obstruction through brackets or clamps!
- _ 100 % detection independent of the preform positioning
- _ Additional Spacing not necessary and no turnings of closures

Applications

Overhead Conveyor



IMDvista®Preform Handling System - INLINE or OFFLINE Testing

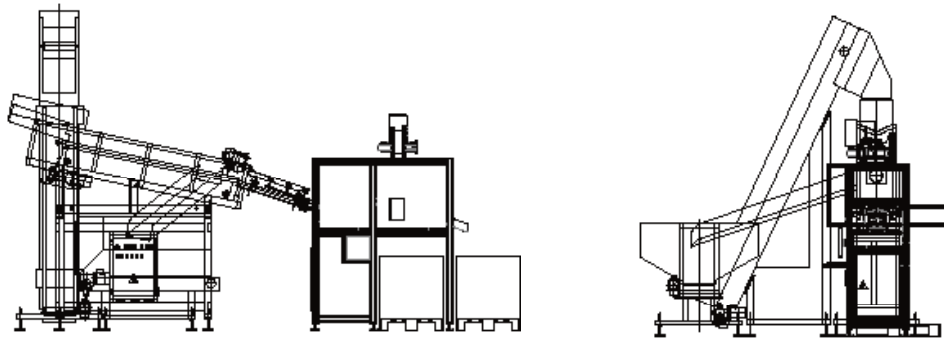
Details

Preforms	Must be oriented (see IMDvista Orienting Systems)
Light barrier	Built in triggering the closures and incremental counter
Conveyor belt	Special belt with holes
Side channel compressor	Producing vacuum (with filter)
Spacing device	Adjustable from 18 - 52 mm standard (Special exec. up to 65 mm)
Ejection station	For "Bad parts" (VA steel)
Valve	High speed valve with nozzle and mounting
Guidance	Adjustable side- and height guidance for a proper alignment of the Preform
Cover	For protection
Mounting	For camera mounting in light tunnel
Construction	Alu Profile and Stainless Steel, standard heights of the input of the parts 1'600 mm ± 25 mm. (different heights on demand)
Flexible system	With possibility of customized adjustments

Applications

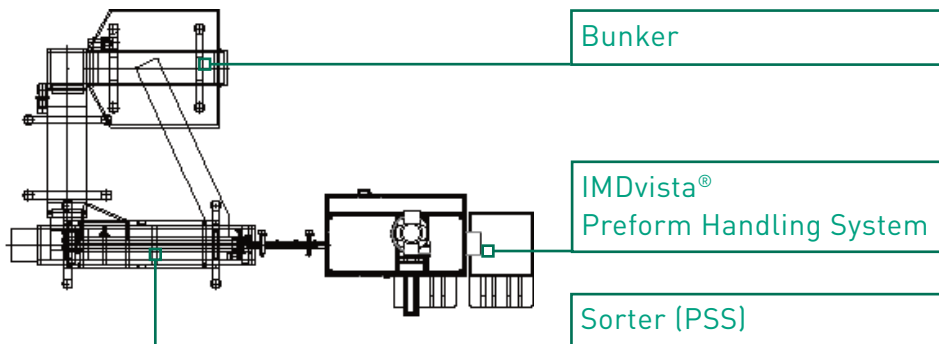
Details

IMDvista® Preform Sorter (PSS) Preform Sorting System - INLINE or OFFLINE Testing Facts



Facts

Applications



- _ Gentle feeding of the closures due to gravity sorting
- _ Compact design
- _ Incl. Bunker (1'200 Liter) and Feeder
- _ High output rate, (depending on preform design)
- _ Flexible layouts

IMDvista® Preform Sorter (PSS) Preform Sorting System - INLINE or OFFLINE Testing Details

Flexible layout (output right or left)

Small and compact

Adjustable speed

Automatic control system, filling sensor, etc.

Easy exchange from one preform to another

Empty running of the system is possible

All components possibly in contact with the conveyed closures are built in stainless steel or other materials approved by the F.D.A. It is the best possible conveying solution for packaging in the food-, beverage- and medical industry

Feeding out of an optional bunker

Ask for your specific solution

Applications

Details