VISION INSPECTION SYSTEMS
FOR THE PLASTIC PACKAGING INDUSTRY

CLOSURES

WWW.INTRAVIS.COM

WE SOLVE PROBLEMS BEFORE THEY OCCUR.
1 | The Inline Quality Laboratory

With an inspection performance of over 5 million closures per day and up to 40 inspection criteria per closure, the CapWatcher® Q-Line gives you a comprehensive overview of your current product quality with more than 200 million cavity-related product data in 24 hours! Due to the high data density, you can make important decisions about production releases or blocked goods directly at the production line – not after 24 hours have already passed*.

2 | Data analytics

Big Data Analysis – Use IntraVisualizer® to link product data from your INTRAVIS inspection systems with process data from other production machines. Through the evaluation of quantitative data, you gain important insights for the optimization of your production processes across lines or plants.

*Comparison with tactile laboratory instrument: 96 closures in about 24 hours
At full capacity, an INTRAVIS Closure Line easily inspects, sorts and packages the production quantity of two 72-cavity machines with a cycle time of two seconds – you save a fully equipped inspection line!
Sports caps, Tube closures, Closures for chemical industry, Dosing inserts, Liner, Child protection, Closures > ø 38 mm

INSPECTED OBJECTS
2672, 2925, 3025, PCO1810, PCO1881, 38mm, CSD & Non-CSD Specialty closures

INTEGRATION
Inline, Offline, Laboratory

INSPECTION SPEED
Parts / h

180,000 288,000 288,000 216,000
## Inspection Criteria

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Contamination</th>
<th>Long shots/short shots</th>
<th>Color</th>
<th>Cavity number</th>
<th>Missing tamper evident band</th>
<th>QR Code</th>
<th>Laser engraving</th>
<th>Upside-Down</th>
<th>Micro holes</th>
<th>Sitting quality of the tamper evident band</th>
<th>Temperature</th>
<th>Injection point</th>
<th>Printed image</th>
<th>Closure positioning</th>
<th>Index mark</th>
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Child protection, Closures > ø 38 mm
CapWatcher® Q-Line

The inline quality laboratory. With eight cameras, the CapWatcher® Q-Line collects up to 144,000 cavity-related product data of your closures in just one minute. Coupled with the high-quality measurements, the CapWatcher® Q-Line enables the production release already at the production line. An integrated temperature measurement of each individual cap in combination with the reliable cavity reading offers comprehensive protection. Thus, process fluctuations and material wear can be detected as early as possible and necessary steps can be taken accordingly!

CapWatcher® S-Line

High-speed sorting system for your closure production. Save purchasing and operating costs for the quality control in your production line. With speeds of 4,800 closures per minute, you can easily check the production of two injection molding machines and more. With six cameras, the CapWatcher® S-Line sorts out all faulty closures. Full product control – at maximum speed!
**CapWatcher® SC**

*Special solutions for special closures.* Special products require special solutions. The CapWatcher® SC is such a solution. With over 70 engineers and technicians specialized in software development, automation, electrical engineering, mechanics and imaging, we develop your inspection system together with you - adjusted to your requirements and needs!

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**IntraOne®**

*The all-round solution - also for closures.* The IntraOne!® is our flexible single camera solution for various applications. Whether as an inspection solution in the feed to the capping unit, integrated in laser and printing machines or as a final control in the filling line: the IntraOne!® combines the advantages of a smart camera with the proven IntraVision software.