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HEYE

DIAMETER AND OVALITY INSPECTION MODULE (DOM)

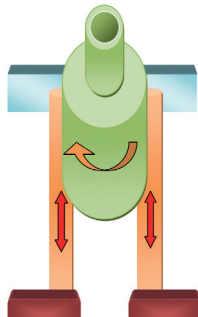


HEYE NON-CONTACT DIAMETER AND OVALITY INSPECTION MODULE (DOM)

With the non-contact diameter and ovality inspection on the SmartLine, it is possible to inspect round bottles for minimum and maximum diameter and the ovality at up to three levels.

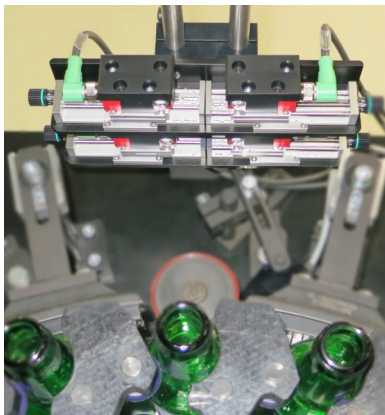
Function Principle

Two sensors per inspection level on both sides of the container scan the sidewall of a spinning container. The sidewall of the container covers the sensor area partly. Thus the value of the sensor signal is related to the hidden area of the sensor. According to these signals, the dedicated software algorithm determines the container diameter and calculates the ovality continuously during container rotation. This allows a 360° inspection.



Inspectable Defects are:

- Maximum container diameter
- Minimum container diameter
- Ovality of the container (out of round)

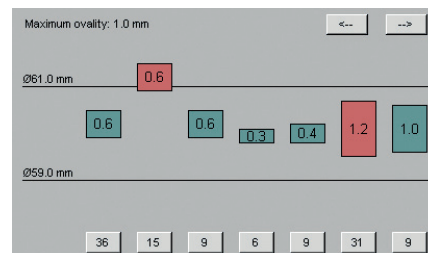


Advantages

- Non-contact inspection
- Easy setup
- Setup support by graphical menu
- Configuration via SmartLine MMI
- Up to 3 independent inspection levels

SmartLine Installation

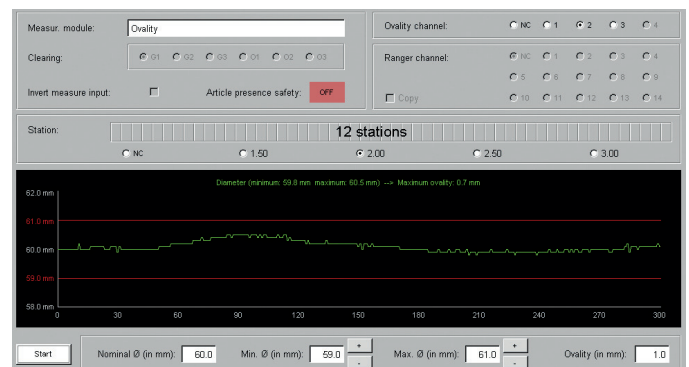
The non-contact diameter and ovality inspection module is installed on the second rotation station of the SmartLine. It is possible to store and load parameter sets for different article types. Thus the data are available for repeated use.



Inspection results displayed as graph

Nominal diameter (in mm):	60.0							
Minimum diameter (in mm):	59.0	59.9	60.9	59.9	59.8	59.8	59.5	59.6
Maximum diameter (in mm):	61.0	60.5	61.5	60.5	60.1	60.2	60.7	60.6
Ovality (in mm):	1.0	0.6	0.6	0.6	0.3	0.4	1.2	1.0
Mould number:	36	15	9	6	9	31	9	

Inspection results as value table



Configuration Page

Technical Data

- | | |
|--------------------------------|----------------------------------|
| ■ Inspection method | optical differential measurement |
| ■ Inspection speed | up to 350 bpm |
| ■ Container diameter | 25 mm - 121 mm |
| ■ Measuring range | 6 mm |
| ■ Accuracy | +/- 0.2 mm |
| ■ Space in between star wheels | 51 mm per level |

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