INDEC VACUUM INSPECTION

INDEC

INDEC VD 400

VACUUM Inspection

INDEC monitors the tightness of containers such as bottles, jars, and cans fully automatically and contactlessly directly in the production process. Containers with insufficient vacuum, crooked or missing lids are reliably detected.

As a standalone solution, the INDEC VD 400 is independent of the conveyor belt direction and can be used in different locations, making it cost-effective to integrate into existing systems. This opens up the possibility of efficiently utilizing the latest measurement technology.

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The new operating concept

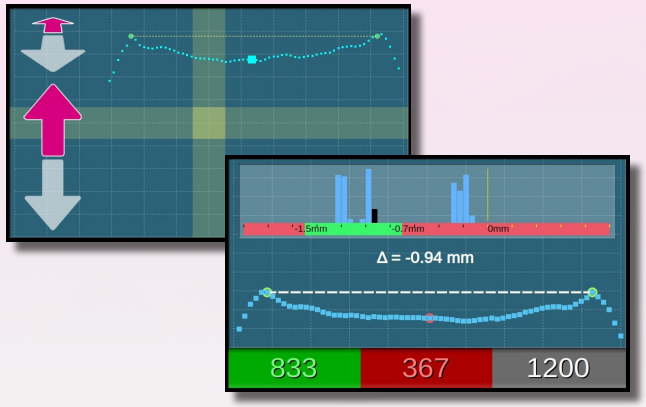
The modern user interface ensures intuitive operation of the touch screen software and clear display of all information. This is based on powerful hardware. Clear menus guide the user quickly and intuitively to their goal. Simple step-by-step instructions are provided for creating or selecting recipes.

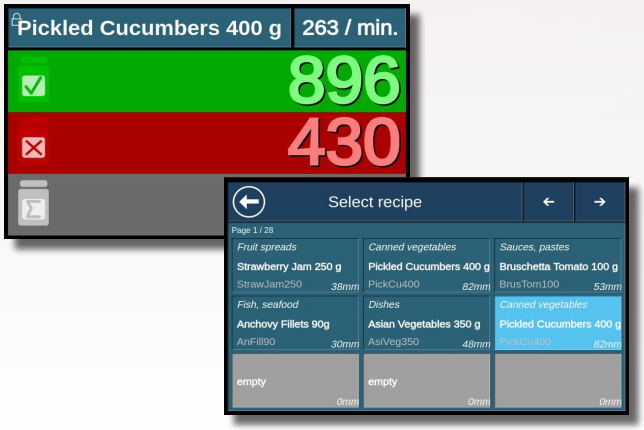
The measurement

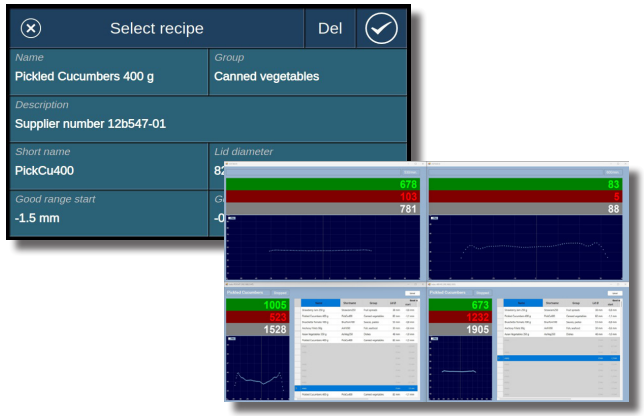
The laser sensor provides measured values for the profile shape of the maximum closure diameter. These height profiles are used to evaluate the tightness of the containers. This allows absolute statements to be made about the quality of the vacuum. The GOOD range is defined by the minimum and maximum retraction values of the closure. The operator is guided through a graphically supported dialog for selecting recipes for different containers. This adjustment display enables horizontal and vertical alignment of the sensor head. A light barrier is used to detect the maximum diameter. All parameters are stored in a format-dependent manner and can be called up at the touch of a button.

Easy handling

- 5" touchscreen with graphical user interface for intuitive operation
- Clear, unambiguous menus for simple, fast parameterization
- Color graphics for displaying measurement results and operating states
- Display with easy-to-understand graphics and symbols
- Smart touch technology for outstanding ease of use
- Control elements easily accessible with visual contact to the process







FDA-compliant hygienic design

All INDEC assemblies meet hygienic design requirements and FDA guidelines. The housings are made of stainless steel and designed to protection class IP69K. This means that high-pressure cleaners can be used without any problems.

Laser profile sensor

With the help of the profile sensor, all types of closures can be reliably measured with a trained vacuum, regardless of material, color and surface structure. The large working range of 100 mm usually allows a recipe change without readjusting the sensor head.

Safe thanks to working distance

The 200 mm measuring distance prevents collisions between the sensor head and the container. This means that dimensional tolerances and track misalignment in the containers as well as vibrations in the conveyor belt are tolerated.

Intuitive software

The additional PC software enables remote monitoring of multiple measuring systems in the production process. Statistical functions and simple recipe selection and changeover contribute to an optimal overview.

Versatile accessories

The INDEC equipment options make it easy to adapt to existing conditions. Accessories such as the ejector unit or conveyor belt synchronization are available. A tripod is used for independent installation.

Collection tray for rejected containers

System synchronization for different transport speeds

Technical data

Area of application	Any vacuum closures
Closure diameter	25 ... 110 mm
Throughput	max. 1200 Stck./ min
Recipe memory	250
Measuring principle Sensor head	Detection of surface shape with laser profile sensor, laser class 2
Sensor cable	5 m
Working distance	150 ... 250 mm optimal: 200 mm
Working range	100 mm
User interface	5" color graphic display with touchscreen, 800 x 480 pixels
Inputs	2 x semiconductor input channel 24 VDC 1x rotary encoder input 10 ... 30 VDC
Outputs	8 x semiconductor output channel 24 V DC, 0.5 A
Connections	1x Ethernet 1x USB
Operating voltage	88 ... 264 V AC, 47 ... 63 Hz
Power consumption	200 W max.
Materials	Stainless steel FDA-compliant plastics
Protection class	IP69K
Ambient temperature	5 ... 50 °C
Humidity	5 ... 90% rel.

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