

Plastic Container Inspection



Plastic container inspection can be performed on a wide range of different sizes and shaped containers

JLI's plastic container inspection system is a compact and portable stand alone unit. The system has been developed to meet the high demands for the pharmaceutical industry with regards to quality and validation. The system can be used for any type of plastic container production, including injection blow moulding, and employ up to nine high resolution industrial area scan cameras. By using specially designed LED lighting inside the container the system is capable of inspecting an entire plastic container on both the inside and the outside while being rotated in front of a camera.

Being a portable unit the inspection system can be used for 100% online inspection as well as an offline sampling unit adding flexibility to your production. All containers are inspected for dimensional defects, visual imperfections, fins caused by extra material and incomplete products. Through the user-interface, the sensitivity and different setups can be selected. This is easily done through a touch panel. When defects exceed a selected tolerance, a signal is timed and sent to the built-in reject mechanism. On request the system can create production / batch reports.

Features

- High accuracy for visual imperfections, dimensional defects, fins and unfinished products
- 21 CFR PART 11 compliant and complete validation
- Compact and portable stand alone unit for 100% online and offline sampling inspection
- Fast changeover between different container types
- Built-in reject mechanism
- Containers are rotated in front of cameras
- Clever and innovative integration of illumination
- Internet connectivity
- Easy setup via user friendly software
- Trend analysis and statistical process control tool
- Dedicated for pharmaceutical
- Trends and statistics possible on cavity level

General

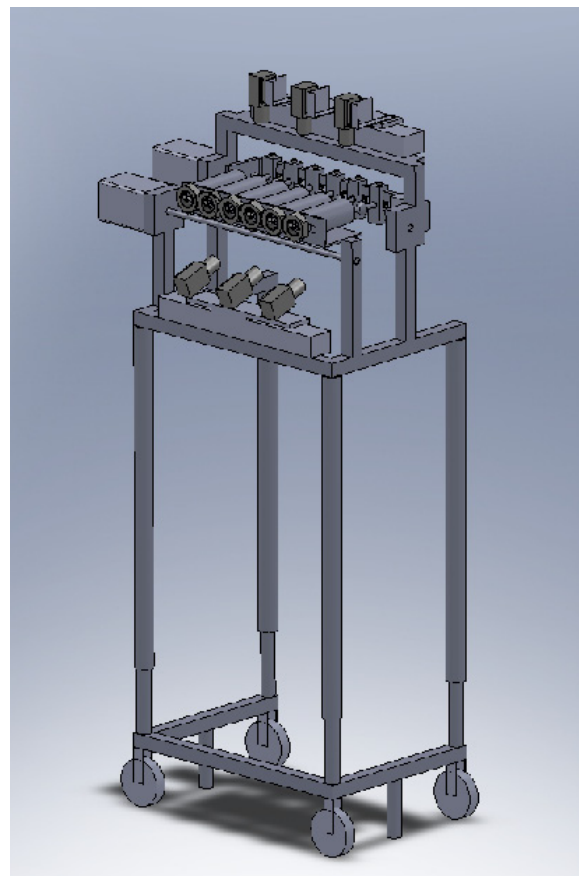
Capacity:	< 8 containers/10s
Cameras:	Industrial high resolution CCD
Container size:	ø 10-150 mm other sizes on request
Operating temperatures:	+5° C - 45° C
Humidity:	20-80% non condensing
Power:	200-230V, 50-60Hz
Lens:	Special macro optics
Computer:	Industrial vision PC
Monitor:	17" touchscreen
Lamp life:	+ 3 year
Dimensions:	1.8 x 1 x 0.5 m (H x W x D)

Measurements

Visual defects:	All visible spots > 0.1 x 0.1 mm
Fins:	> 0.1 mm
Dimensions:	> 0.1 mm
Lid colour:	All non transparent colours
Optional:	Wall thickness distribution / trend

Interface

Vision input/output:	24V, Internet Production / batch report
----------------------	--



Typical setup of JLI plastic container inspection system

Company Profile



JLI vision a/s develops, designs and manufactures dedicated turnkey vision systems for the international industry.

With more than 27 years of experience, JLI is among the oldest companies in the computer vision field. Our customers include well known international companies. JLI works in many different industries ranging from food processing to material handling, glass, steelworks, pharmaceutical, plastics and packaging.