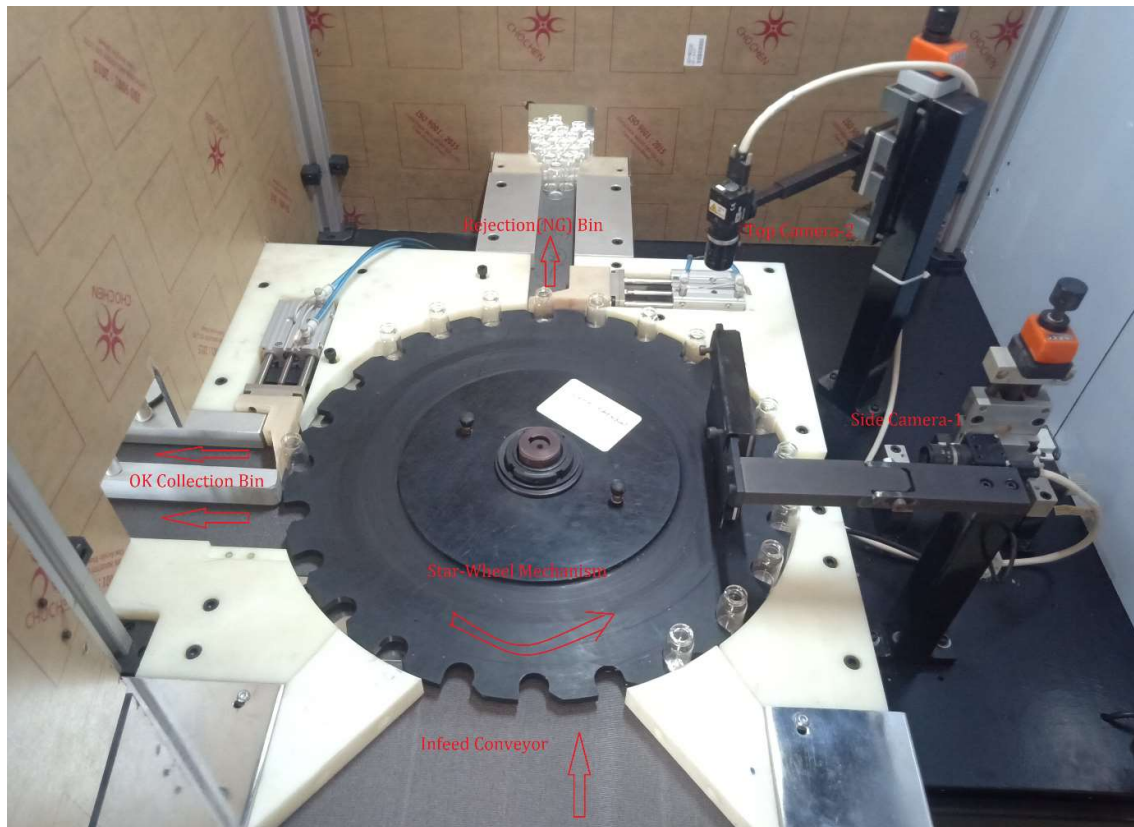




SA007-VIAL INSPECTION SYSTEM

Solution and trial report for vial inspection





About:

The vials are loaded batch wise on the infeed conveyor where the machine uses two cameras to capture the top view and the side view of the vial and check the given parameters. Easily interchangeable star wheel ensures that various sizes of vials can be used in the same machine. Rejected vials go out from the rejection conveyor and Good 1 and good 2 vials are collected in the collection chute via outfeed conveyor

Salient Features:

- Batch wise loading and unloading
- Works in an industrial environment
- Optional Data logging system which gives the users statistics on the number of products inspected and rejected, and tabulates the data according to different faults so that the consumer can identify the main cause of rejection.
- Speed of upto 90 Vials per minute
- Easy to use controls
- Multiple Size bottles can be used with just one easy interchangeable Part.
- Optional multiple output system so that vials can be separated according to the industry grades.

The system consists of the following stations:

- Infeed Conveyor
- Rejection conveyor and rejection tray
- Outfeed conveyor with Good one and good two collection tray
- Two Camera Systems with Image processing software
- PLC based control system with a HMI
- LCD screen to show captured images

Optional Data logging system: The data logging package allows the users to tabulate all the data in a tabulated form and creates graphs and charts based on the following data:

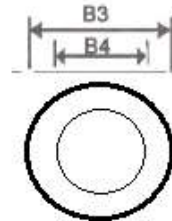
- Total Number of samples inspected
- Total number of accepted samples
- Total number of Rejected Samples
- Rejected samples tabulated fault wise

Camera Inspection Solution: The machine uses two high resolution camera based inspection systems. There is one camera for the top view and another camera for the side view. They check the following parameters:

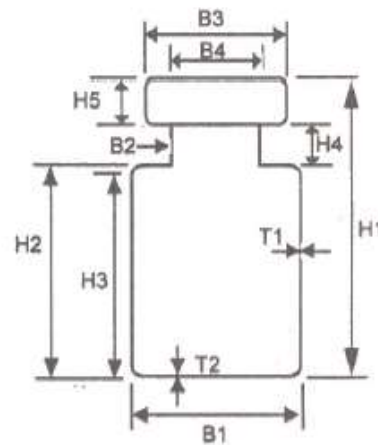
- Body Diameter
- Overall height
- Neck diameter
- Lip diameter
- Lip thickness
- Cracks

VIAL INSPECTION MACHINE - LIST OF DEFECTS

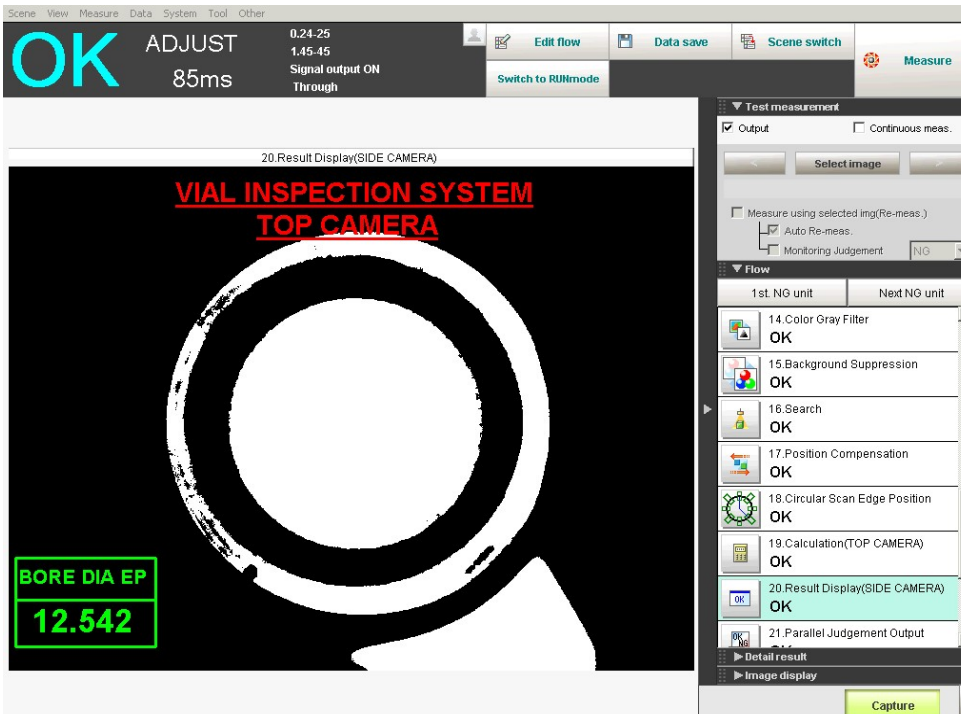
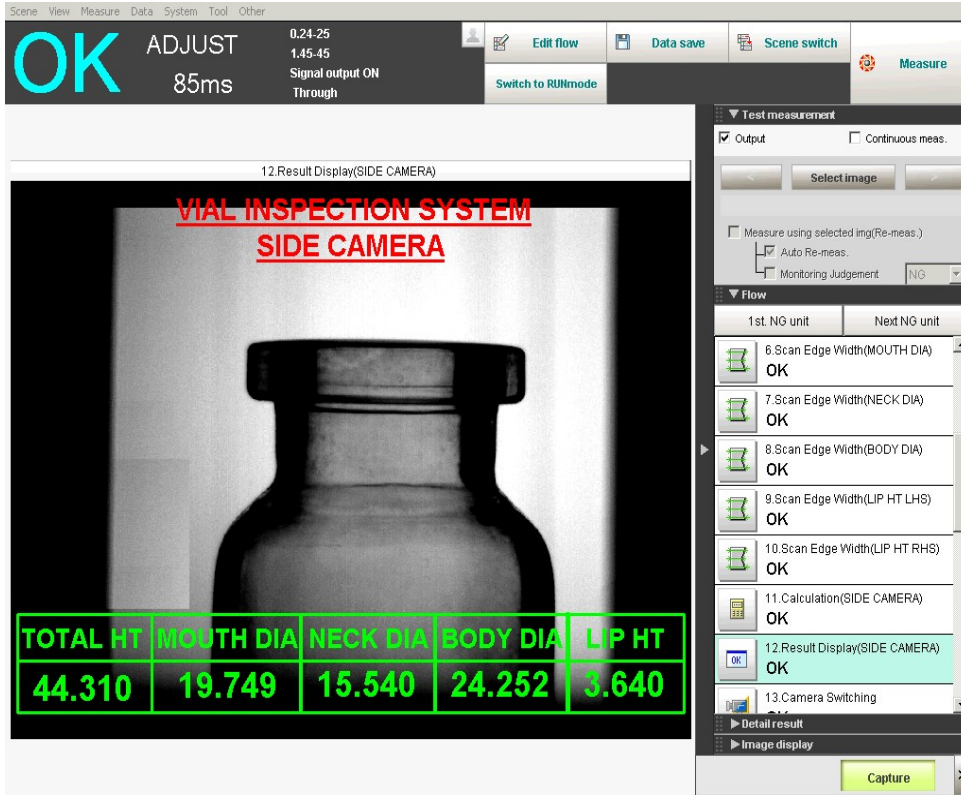
B3	Mouth Dia
B4	Bore Dia



H1	Total Height H1
H2	Height H2
H3	Base To Shoulder
H4	Neck height
H5	Lip Height
B1	Body Dia
B2	Neck Dia



Actual Images taken during trials:





Why Us

We have a team of experienced individuals who can cater to all your specific problems and give a tailor made solution just for you. We have experts in Machine building, Machine vision and Automations, and project management. At Sigma Automations we constantly thrive to achieve and accomplish more with each and every passing day.

- Understanding the customer requirements properly and suggesting them multiple solutions along with trial reports.
- Progress Reports and regular updates about the project
- Quality control
- An enthusiastic team of members who are innovative, focused and eager to learn.

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