

GLASSO

INSPECTING EVERYTHING IN GLASS

ABOUT GRIDBOTS

We are a Technology company from India and work in the field of Robotics - Artificial Intelligence and Machine Vision. Founded in August 2007 by young and passionate innovator Mr. Pulkit Gaur [TED Fellow and MIT Young Innovator of the year]. We today are a team of more than 50 people- Head quartered in Ahmedabad and having offices in Pune and Delhi.

We design and develop ultra high performance systems which are used in the industry for defect detection - dimension measurement - sorting applications - grading application and many other ways. With our machine vision and robotic solutions we are helping our clients achieve digital factory goals in a time bound manner.

We would be glad to hear about your industry 4.0 adaptation strategy and would love to get in touch with you to explore the synergies in working together !

NO.1

Market Share In Solar Glass Inspection in India

12+

Glass Projects Completed

10+

Research Team

200+

Components Used per Machine



GLOBAL PRESENCE



- 01** ROBOTRIK SYSTEMS.
CANADA
- 02** DIGITAL OCEANIC.
SF
- 03** DAIT COMPANY.
RUSSIA
- 04** ATM.
DAMMAN
- 05** ZARP LABS.
INDIA
- 06** SIGNET SYSTEMS.
AUSTRALIA
- 07** ENCODE SYSTEMS.
SINGAPORE

GLASSO PATTERNSCAN

BEST PATTERNED GLASS
INSPECTION SYSTEM IN THE WORLD !



THE INDUSTRY STANDARD FOR
PATTERN GLASS INSPECTION



Gridbots Glasso - PATTERNSCAN is a state of art inspection system for the pattern glass ribbons and sheets of any width and running at a speed of up to 36 Meters/Minute. The system can detect the various types of defects found in the float glass like blisters, stones, scratches, inclusions and knots.

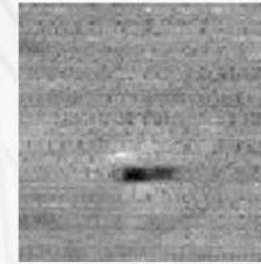
The system can interface with any existing glass line and can provide data to the cut optimisers.

The principle of detection of defects is based on multiple reflection, refraction and transmission pictures captured during the glass pass through and then analysed with ultra high speed algorithms which can utilise the prior knowledge of data and patterns to detect and classify the defects in the glass ribbons.

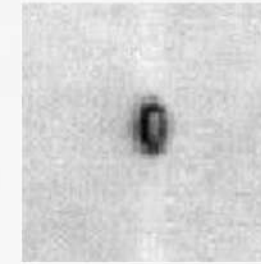
The system comprises of 10 or more area scan cameras which are directly connected to individual processing units for minimal delays.

GLASS INSPECTION SYSTEM

IDENTIFIED GLASS DEFECTS



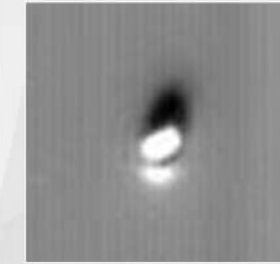
BUBBLE



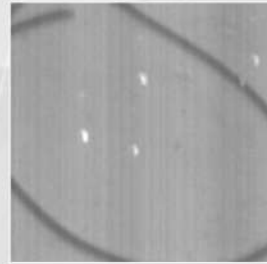
BIG BUBBLE



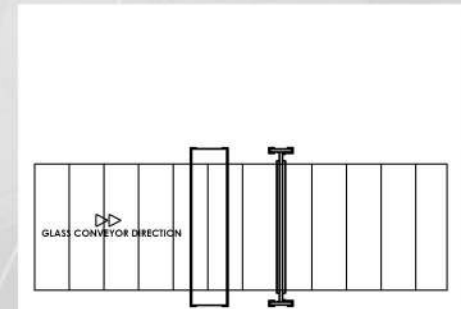
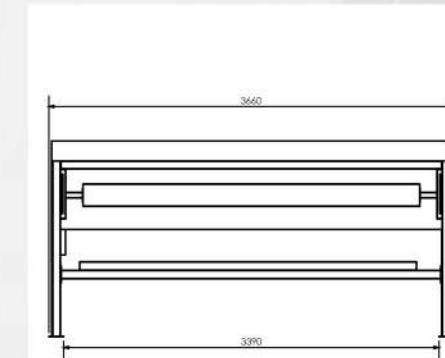
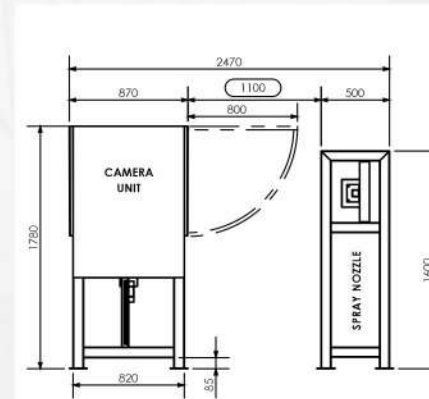
INGOT



STONE



DEBRIS



SPECIFICATIONS

Defect Size	100 Microns and above microns upwards
Defect Type	Open and Closed Blister, Stones, Spots, Chips, Knots, Scratches, Inclusions and Other defects
Defect Detection ratio	> 98%
Defects Classification	AI enabled defects classifiers for multiple defect categories based on size and defect type and severity
GUI	Multilevel GUI, Password Control, Intuitive and Multilingual
HMI	Twin 17" Touch Panels
Controllers	GPU based Computing Units running of complex algorithms by Gridbots Technologies
Lights	Multispectral LED Lighting [Million Lumen Capacity]
Cutting Line Integration	Grenzebach / Lisec / Bottero / Millennium
Physical Defect Marking	Real time defects marking system using Patch Markers [Optional]
Environment	Non Clean Room Inspection
IOT Architecture	Remote login & Maintenance, Wifi Enabled, Cloud Based Reporting
Ambient Temperature	60 degrees and Non Condensing

THE KEY TO SUCCESS AND HIGHEST PRODUCTIVITY



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