

**VISION MASTER<sup>®</sup>**  
*Quiet, Precise, Intelligent & Fast*

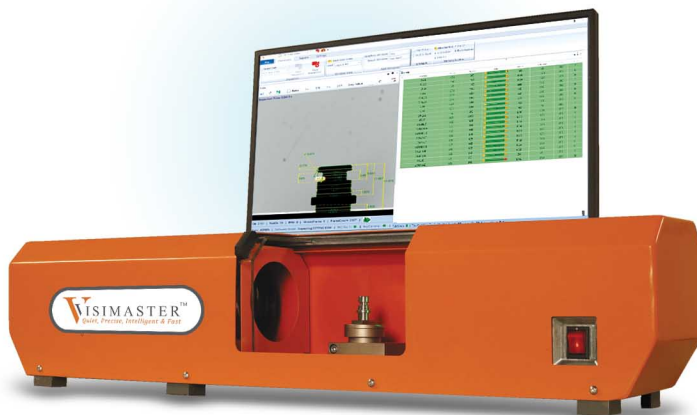


Scan to  
know more

**VARAD AUTOMATION & ROBOTICS  
PRIVATE LIMITED**



## VERTICAL VISIGAUGE



## HORIZONTAL VISIGAUGE

### TYPES OF MACHINE

- ☉ One Click
- ☉ Auto Focus

### TYPES OF MACHINE

- ☉ One Click
- ☉ With Rotary
- ☉ With Air Gauge

### SPECIFICATIONS

Model	3624-20	4530-20	5335-20	6543-20	9060-20
FOV Width	24	30	35	43	60
FOV Length	36	45	53	65	90
Repeatability	1 $\mu\text{m}^*$	1 $\mu\text{m}^*$	1.5 $\mu\text{m}^*$	2 $\mu\text{m}^*$	5 $\mu\text{m}^*$
Data Report & Backup	.xls Through USB	.xls Through USB	.xls Through USB	.xls Through USB	.xls Through USB
Dimensions (L x W x H)	400 x 250 x 850 mm	400 x 250 x 850 mm	940 x 170 x 210 mm	1040 x 270 x 320 mm	1100 x 350 x 350 mm

### WHAT CAN BE INSPECTED



- ☑ Stamping Parts
- ☑ Rubber Parts

### WHAT CAN BE INSPECTED



- ☑ Turned Precision Parts
- ☑ Small Plastic Parts
- ☑ Fasteners

## PRODUCT FEATURES

- ☑ One click dimensional measurement with high precision.
- ☑ Seamless Data Preservation.
- ☑ Batch Wise Report and SPC Report.
- ☑ Can check 25+ dimensions in a fraction of second.
- ☑ Sturdy Machines & Fast Delivery.
- ☑ Trustworthy Assistance.
- ☑ Repeatability starts from 1  $\mu\text{m}^*$ .
- ☑ Easy operation, Simple and user friendly teaching.
- ☑ Prompt online support.
- ☑ Less to zero maintenance.
- ☑ Software Development expertise.
- ☑ Zero changeover time.

\* Repeatability will be measured on OD of Master Part.

*Highly Precise and Reliable*





## NANO GLASS DISC

### ADD ON'S

- ☉ Bowl Feeder ☉ LASER Sensor

### SPECIFICATIONS

Camera	Position	Operation
1 <sup>st</sup>	Top	OD, ID Inspection
2 <sup>nd</sup>	Side	Side Dimension Inspection
<b>Other Specifications:</b>		
	<b>Model</b>	<b>Size</b>
FOV L x D:	NGD3428	30 mm x 20 mm
	NGD4235	40 mm x 30 mm
Dimensions (L x W x H):	1000 x 600 x 900 mm	
Weight:	100 Kg Approx.	

### WHAT CAN BE INSPECTED



- ☑ Precision Parts ☑ O Rings ☑ Washers ☑ Bolts ☑ Nuts ☑ Gears ☑ Brass Inserts ☑ Plastic & Rubber Parts

### PRODUCT FEATURES

- ☑ Detailed Dimensional Inspection.
- ☑ Repeatability starts from 3 µm.
- ☑ Inspection Speed up to 200 PPM.
- ☑ Manual as well as Auto Feeding System.
- ☑ Seamless Data Preservation.
- ☑ Batch Wise Report and SPC Report.



## GLASS DISC

### ADD ON'S

- ☉ Packaging Machine ☉ Batch Wise Ejection

### SPECIFICATIONS

Camera	Position	Operations
1 <sup>st</sup>	Top	OD, ID Inspection
2 <sup>nd</sup>	Side	Side Dimension Inspection
3 <sup>rd</sup>	Taper	Internal Thread Present/ Absent
4 <sup>th</sup>	Top	Top Surface Defects
5 <sup>th</sup>	Bottom	Bottom Surface Defects
6 <sup>th</sup>	Top	Outer 360° Surface Defects
Dimensions (L x W x H):	1500 x 1800 x 2110 mm	
Weight:	600 Kg Approx.	

### WHAT CAN BE INSPECTED



- ☑ Detailed Dimensional & Surface Defects Inspection.
- ☑ Repeatability starts from 5 µm.
- ☑ Inspection Speed up to 500 PPM.
- ☑ Manual as well as Auto Feeding systems.
- ☑ Batch wise separate OK Ejections.
- ☑ Can check Internal Thread Defects.

*We can customise for every requirement.*



## THRU-SCAN MACHINE

### ADD ON'S

☉ Feedback Table

### SPECIFICATIONS

Station	Unit Type	Operations
1 <sup>st</sup>	Camera (Top)	Outer Top Dimensions
2 <sup>nd</sup>	Camera (Side)	Outer Side Dimensions
Dimensions	550 x 350 x 990 mm	
(L x W x H)	Weight: 100 Kg Approx.	
OD, Groove Dia, Total Length, Step Length		

### WHAT CAN BE INSPECTED



☑ Shafts    ☑ Dowels    ☑ Long Bolts

## PRODUCT FEATURES

- ☑ Can check parts length up to 250 mm.
- ☑ Repeatability starts from 1µm.
- ☑ Contactless Measurement.
- ☑ High Speed Precise Scanning.
- ☑ Multiple Variants Quick Changeover.
- ☑ Can measure multiple critical diameters.



## CONVEYORISED INSPECTION MACHINE

### ADD ON'S

☉ Packaging Machine    ☉ Bowl Feeder

### SPECIFICATIONS

Camera	Position	Size	Operations
1 <sup>st</sup>	Side	Upto 30mm	Side Dimension Inspection
2 <sup>nd</sup>	Side	Upto 85 mm	Side Dimension Inspection
Dimensions	1900 x 1400 x 2100 mm		
(L x W x H)	Weight: 400 Kg Approx.		
OD, Total Length, Major/ Minor Dia, Chamfer P/ A			

### WHAT CAN BE INSPECTED



☑ Dowel Pins    ☑ Small Studs    ☑ Small Shafts

## PRODUCT FEATURES

- ☑ High Accuracy Dimensional Inspection.
- ☑ Repeatability starts from 1µm.
- ☑ Inspection Speed up to 200 PPM.
- ☑ Seamless data preservation.
- ☑ Batch Wise Report and SPC Report.
- ☑ Auto Feeding System.

*Our machines are compatible for almost each part.*



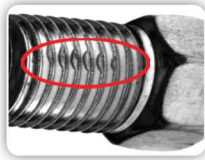
## FASTNERS SURFACE DEFECTS



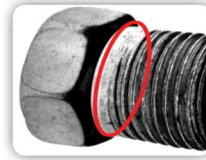
Burr



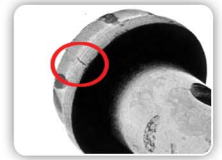
Head Damage



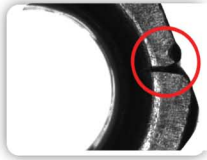
Thread Damage



Half Thread



Head Crack



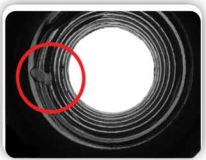
Crack



Hex Damage



Dent

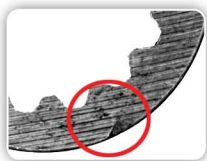


ID Thread Damage



Damage

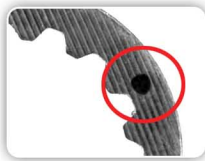
## WASHERS SURFACE DEFECTS



Dent Mark



Chip Off



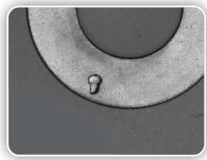
Black Spot



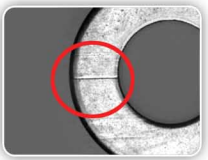
Outer Burr



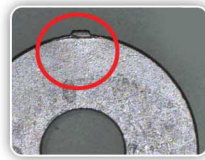
Foreign Material



Pit Mark



Line Mark



Burr on OD

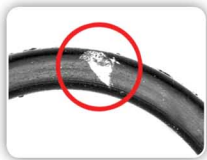


Plating Defect



Cut Mark

## O RINGS SURFACE DEFECTS



Dirt Mark



Flow Mark



ID Dent



ID Cut



OD Dent



Bend



Flash



Cut Mark



Peel Off



Short Mould

## PRECISION PARTS SURFACE DEFECTS



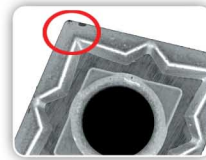
Burning Mark



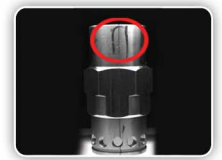
Crack



Scratch Mark



Chip Off



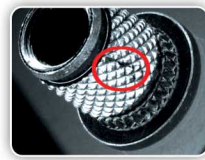
Line Mark



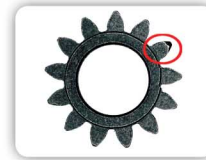
Pit Mark



Black Spots



Crack



Tooth Damage



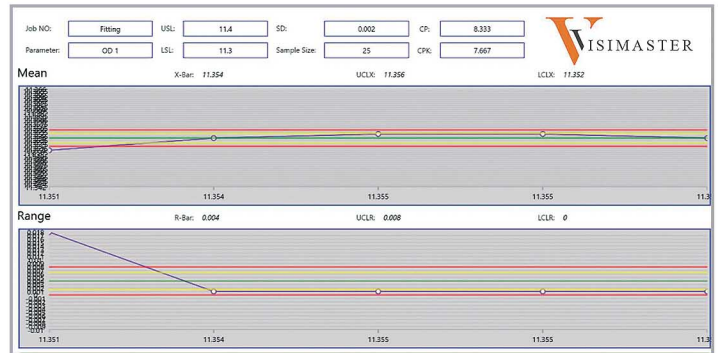
Dent

# REPORT FORMATS

## 1. PDI/ INPROCESS INSPECTION REPORT

Inspection Report							Report Generated By Visimaster
Company Name	Customer Name			Report Number		Fork Bolt	
Part Number	Fork Bolt			Batch Size		0	
Revision Number	0			Inspector Name		admin	
Lot No	Production			Operator Name			
Production Shift	Inspection Shift			Machine No			
Parameters	Collar width	Groove OD	OD 1	OD 2	Shape	Step Length	Total Length
Mean	4	22.5	17	29.42	1	21	30.8
Negative	3.9	22.5	16.93	29.4	0.8	21	30.7
Positive	4	22.7	16.97	29.6	1	21.5	30.9
2022-12-20 12:13:29	3.966	22.532	16.946	29.422	0.931	21.055	30.813
2022-12-20 12:13:35	3.964	22.534	16.949	29.425	0.919	21.061	30.81
2022-12-20 12:13:40	3.969	22.535	16.946	29.425	0.921	21.075	30.816
2022-12-20 12:13:49	3.967	22.532	16.948	29.425	0.931	21.065	30.821
2022-12-20 12:13:54	3.972	22.533	16.948	29.425	0.93	21.072	30.804
2022-12-20 12:14:00	3.965	22.533	16.946	29.423	0.925	21.063	30.821
2022-12-20 12:14:05	3.968	22.532	16.947	29.423	0.93	21.072	30.819
2022-12-20 12:14:10	3.968	22.534	16.946	29.421	0.929	21.067	30.817

## 2. SPC REPORT



## 500+ INSTALLATIONS & 125+ CLIENTS ALL OVER INDIA

**LINEAR PICK & PLACE MACHINE**

**CONVEYORISED INSPECTION MACHINE**

**ROBOTICS INSPECTION MACHINE**

**ROBOTICS ASSEMBLY MACHINE**

LUDHIYANA, BADDI, HARIDWAR, PANTNAGAR, MOHALI, CHANDIGARH, ROHTAK, DELHI, GHAZIABAD, GURGAON, NOIDA, MANESAR, FARIDABAD, BHIWADI, AHMEDABAD, JAMNAGAR, RAJKOT, VADODARA, JAMSHEDPUR, SILVASSA, JALGAON, NAGPUR, NASHIK, CHHATRAPATI SAMBAHAI NAGAR, MUMBAI, PUNE, SHIRWAL, VISAKHAPATNAM, BELAGAVI, DABASPET, BENGALURU, BOMMASANDRA, HOSUR, CHENNAI, MADURAI

**MAKE IN INDIA**

## BENEFITS

- |   |  |
|---|--|
| <b>EFFICIENCY:</b> Better Human-Machine Collaboration | <b>REDUCED ERRORS:</b> Zero Error  |
| <b>ACCURACY:</b> Journey Towards Zero PPM             | <b>BUSINESS REPUTATION:</b> Zero Supply of Defective Products                |
| <b>EASE OF WORK:</b> One Machine Army                 | <b>HAPPY CUSTOMERS:</b> Zero Complaints                                      |
| <b>VALIDATION:</b> Critical Inspection                | <b>HIGHLIGHT YOUR BUSINESS:</b> Increase Your Presence with Quality Products |
| <b>PROFITABILITY:</b> Efficient Return on Investment  |  |

## VARAD AUTOMATION & ROBOTICS PRIVATE LIMITED

Plot No. 169, Sector 7, PCNTDA, Bhosari, Pune 411026, Maharashtra, India 
 +91 8669962225, +91 9130047182  
 sales.a@varadautomation.com, sales@varadautomation.com 
 www.varadautomation.com