The metrology and machine vision laboratory in Department of Production Engineering has been set up with the aim of providing training and consulting services for industry and academia. The training courses are designed to enhance the skill of students, faculty of engineering colleges and practicing engineers from industry in the field of dimensional metrology used in manufacturing.

Services offered

- Training on basic metrology
- Training on calibration and evaluation of uncertainty of measuring instruments
- Study of Gauge Repeatability and Reproducibility
- Hands on training on optical measuring instruments and surface finish measurement
- Hands on training on operation & programming of Coordinate Measuring Machine
- Inspection of machined and forged parts using Coordinate Measuring Machine
- Training on vision based measurement system
- Dimensional and form measurement of components using coordinate measuring machine and machine vision system

Mitutoyo CRYSTA Apex S 544 CMM

<table>
<thead>
<tr>
<th>Model</th>
<th>CRYSTA-Apex S 544</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>X axis 500mm</td>
</tr>
<tr>
<td></td>
<td>Y axis 400mm</td>
</tr>
<tr>
<td></td>
<td>Z axis 400mm</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.0001mm</td>
</tr>
<tr>
<td>Workpiece</td>
<td>Maximum height 545mm</td>
</tr>
<tr>
<td></td>
<td>Maximum mass 180kg</td>
</tr>
<tr>
<td>Probe used</td>
<td>TP200 (Stylus: ø4 X 10mm)</td>
</tr>
<tr>
<td>Maximum permissible error (µm)</td>
<td>1.9+4 L/1000, ( L in mm)</td>
</tr>
</tbody>
</table>

For Queries, Please Contact:

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