



Mayura Automation & Robotic Systems

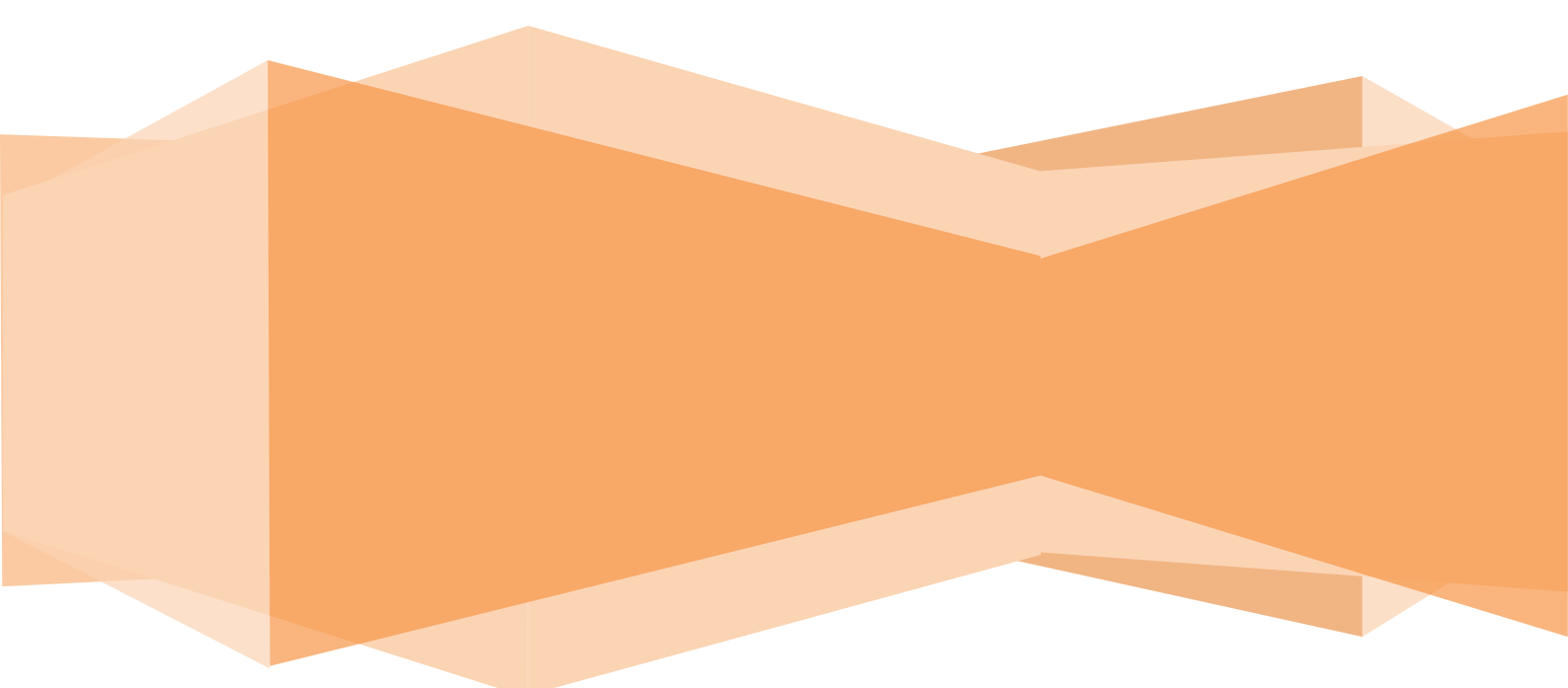
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HIGH SPEED DIMENSION MEASUREMENT AND SEGREGATION SYSTEM

Vision BASED SOLUTION





MARS has developed indigenously a high Speed **DIMENSION MEASUREMENT AND SEGREGATION SYSTEM** for a precise polished and ground component – ‘pump vane’ with deliverable measurement accuracy of 0.5 microns.

The machine measures both thickness and length in one go using four numbers of LVDT's and also segregates the approved components into three distinct groups on a band of 5 microns each. The vane measures **3 mm \pm 6 microns thick and 9.9 mm length \pm 15 microns**

The machine is capable of measuring and segregating 12000 components per shift. It has eliminated a band of inspectors and also the errors of judgment that goes with manual inspections.

Our machine uses a servo motor for the positioning, NI MOTION card for Controlling and NI Digital I/O card for activating the pneumatics.

The PC interface presents Statistical Process Control (SPC) Reports, Trending Graphs, Alarms and Events logging, Diagnostics, Maintenance options and database logging.

MARS can give a similar system for any other component requiring critical checks and segregation.