



Mayura Automation & Robotic Systems

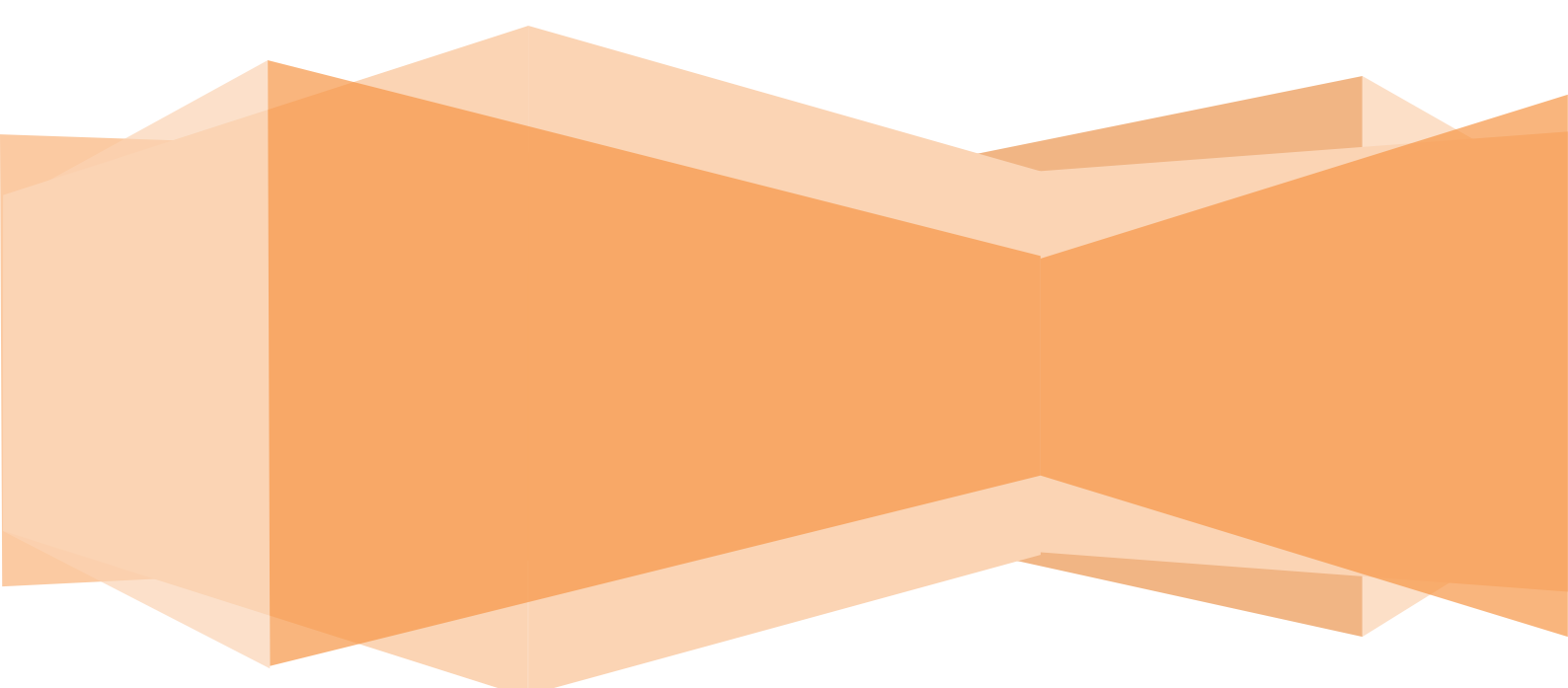
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CLUTCH PLATE MEASUREMENT SYSTEM

Test Rig Automation

LAB VIEW BASED SOLUTION





PROJECT DESCRIPTION:

A Clutch plate was the device under observation and the parameter under measurement was the depth of the clutch plates. A Dial Gauge (TESA) was used as the field measurement device.

INDUSTRY

Manufacturers of Jigs, fixtures, gauges & Special purpose machines

PRODUCTS USED:

Dial Gauge TESA
NI-LabVIEW.

THE CHALLENGE:

To develop a data acquisition system for Measuring the Depth of Clutch Plates and to display the obtained results in SPC.

THE SOLUTION:

National Instruments LabVIEW and **Dial Gauge TESA** was used to develop a highly reliable and flexible Data Acquisition and control system resulting in increased accuracy.

DIAL GAUGE TESA BASED AUTOMATION SYSTEM

The Data Acquisition System Dial Gauge (TESA) was used for measuring the depth of the Clutch Plates and results are displayed in SPC format.



Conclusion

The Clutch Plate Measuring System after being automated by LabVIEW proved to be more accurate when compared to the manual system. The Dial Guage (TESA) based Data Acquisition System provided the customer with enhanced accuracy in monitoring depth measurement of clutch plates and the obtained results were stored in SPC.