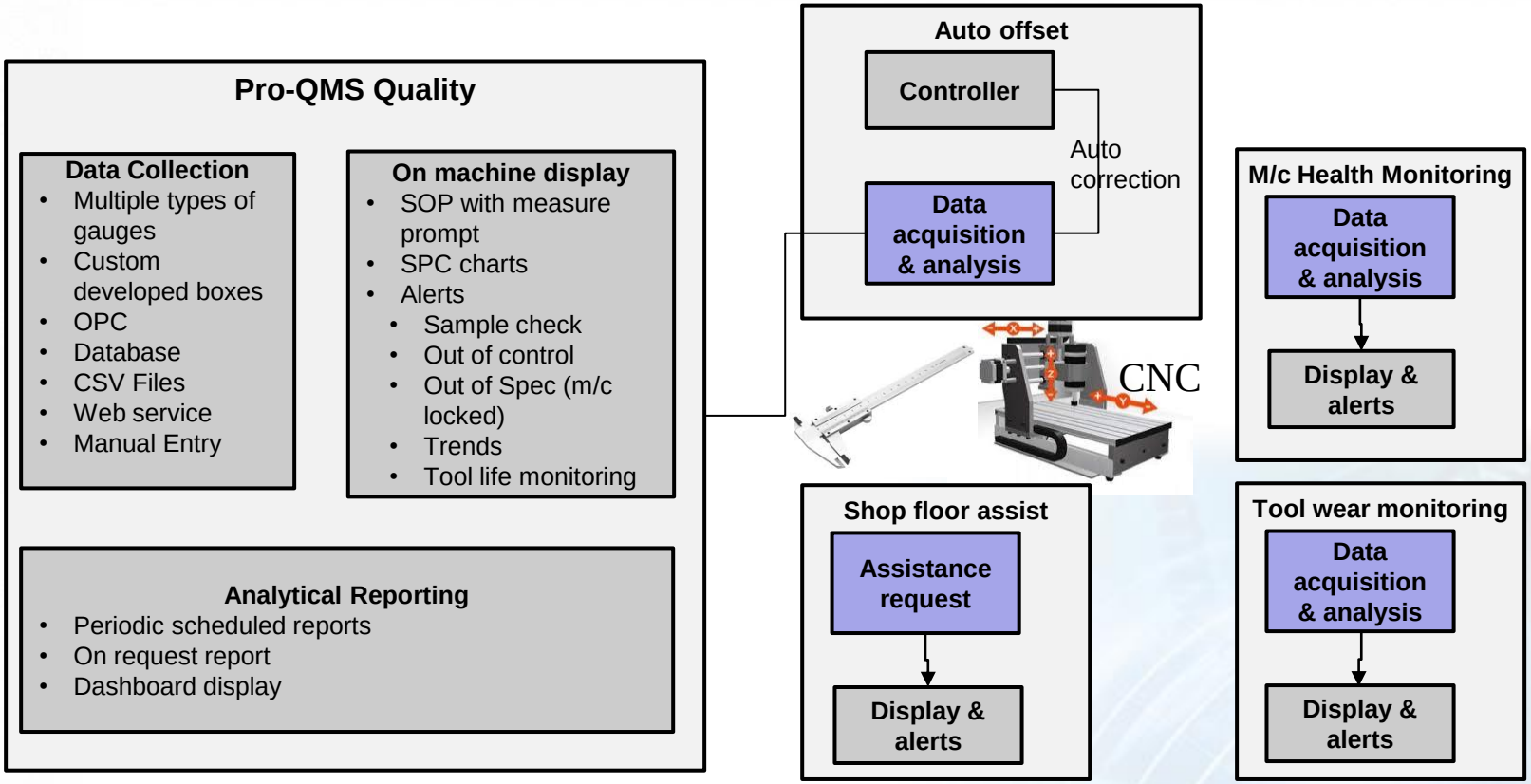
Focus Area for Product Machine Shop OEE



- **Data pushed to cloud server (AWS or Azure) for IoT and display on dashboards.**
- **OEM monitoring**
- **Lot of data on machine performance for the parts manufactured**
- **Analytics on data collected**

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Functional Areas Coverage

On-Line In-Process CTQs Data Capture from Gauges and Other Sources like Data Bases

SPC Control Charts Display, Interpretation and Alerts at the Work-Station

Dashboard at the Production Line and Plant Level with Drill Down

On-line Machine Health, Production Data, and Down Time, Data Collection and Andon Display

Supplier On-Line CTQs Data Capture from Gauges and SPC Control Charts Displays with Alerts

Web Dashboard for Access from Anywhere at Anytime

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Pro-QMS
Improved Quality

Quality Process made Intuitive. Easy and Fail-Proof

Control Panel –
I/O Module

Bottom View of Gauge Table
(Proximity Sensors to link
Gauges and User Interface)

Industrial PC

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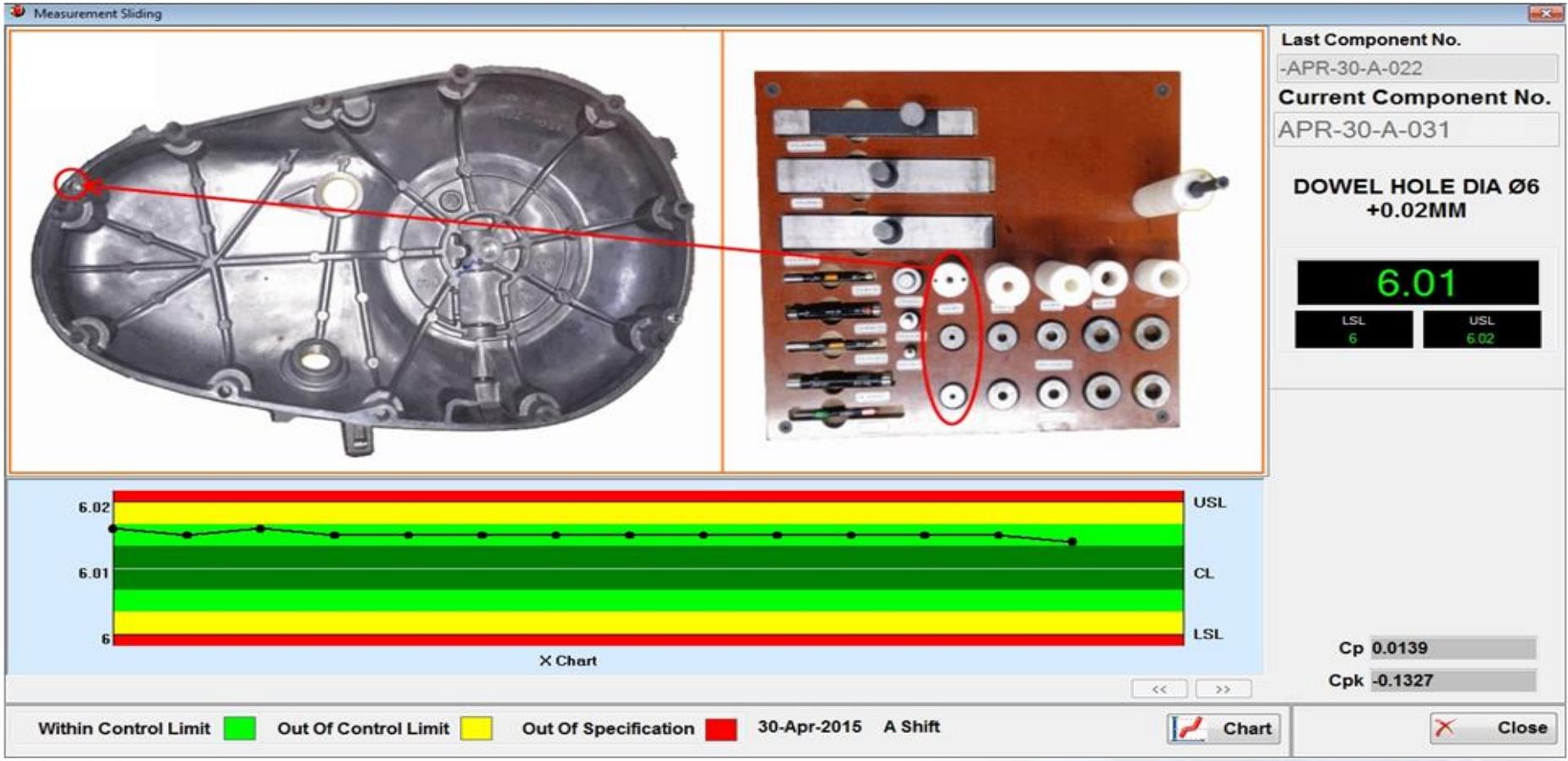
Pro-QMS
Improved Quality

Quality Process made Intuitive, Easy and Fail-Proof For Variable Parameters



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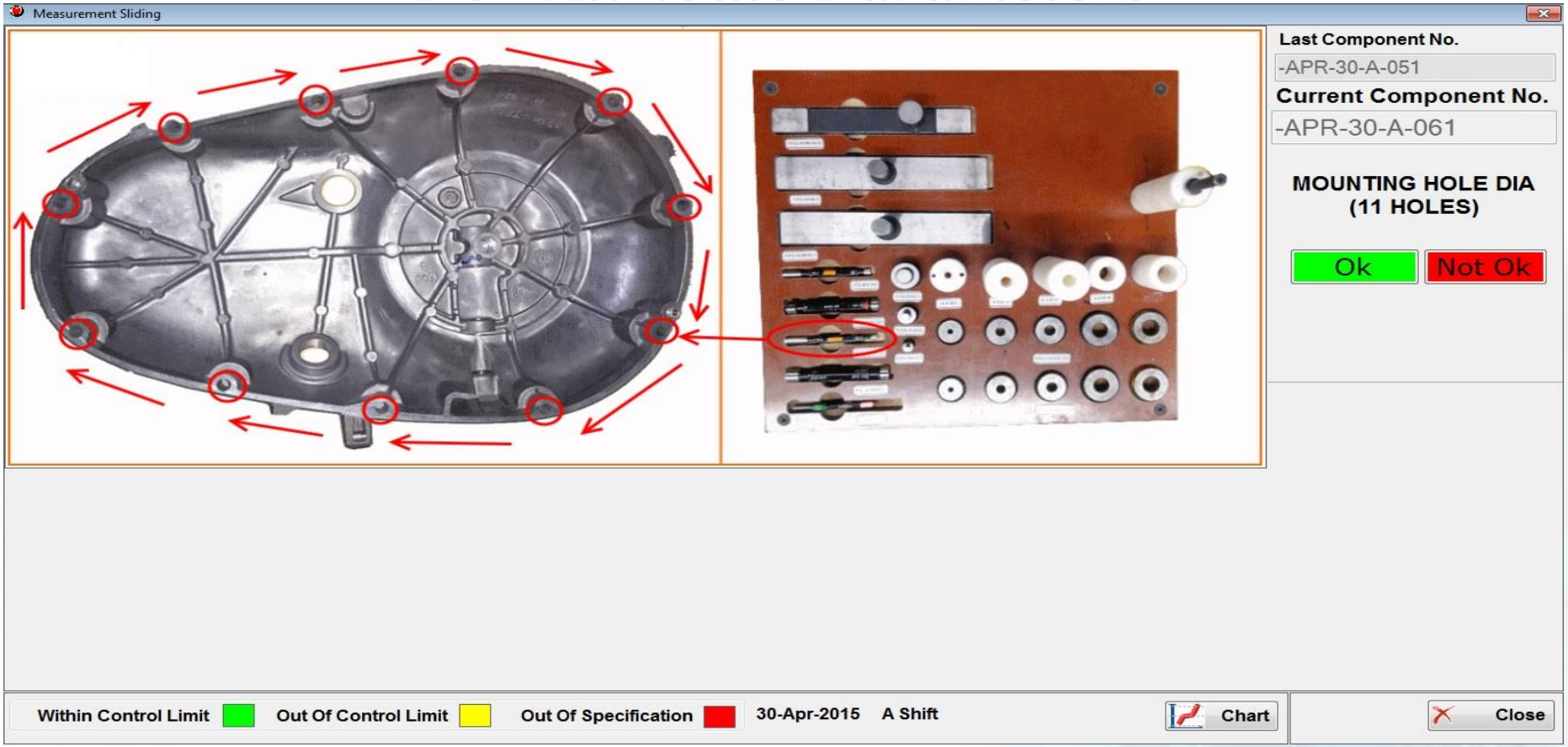
Pro-QMS
Improved Quality

Quality Process made Intuitive, Easy and Fail-Proof For Attribute Parameters



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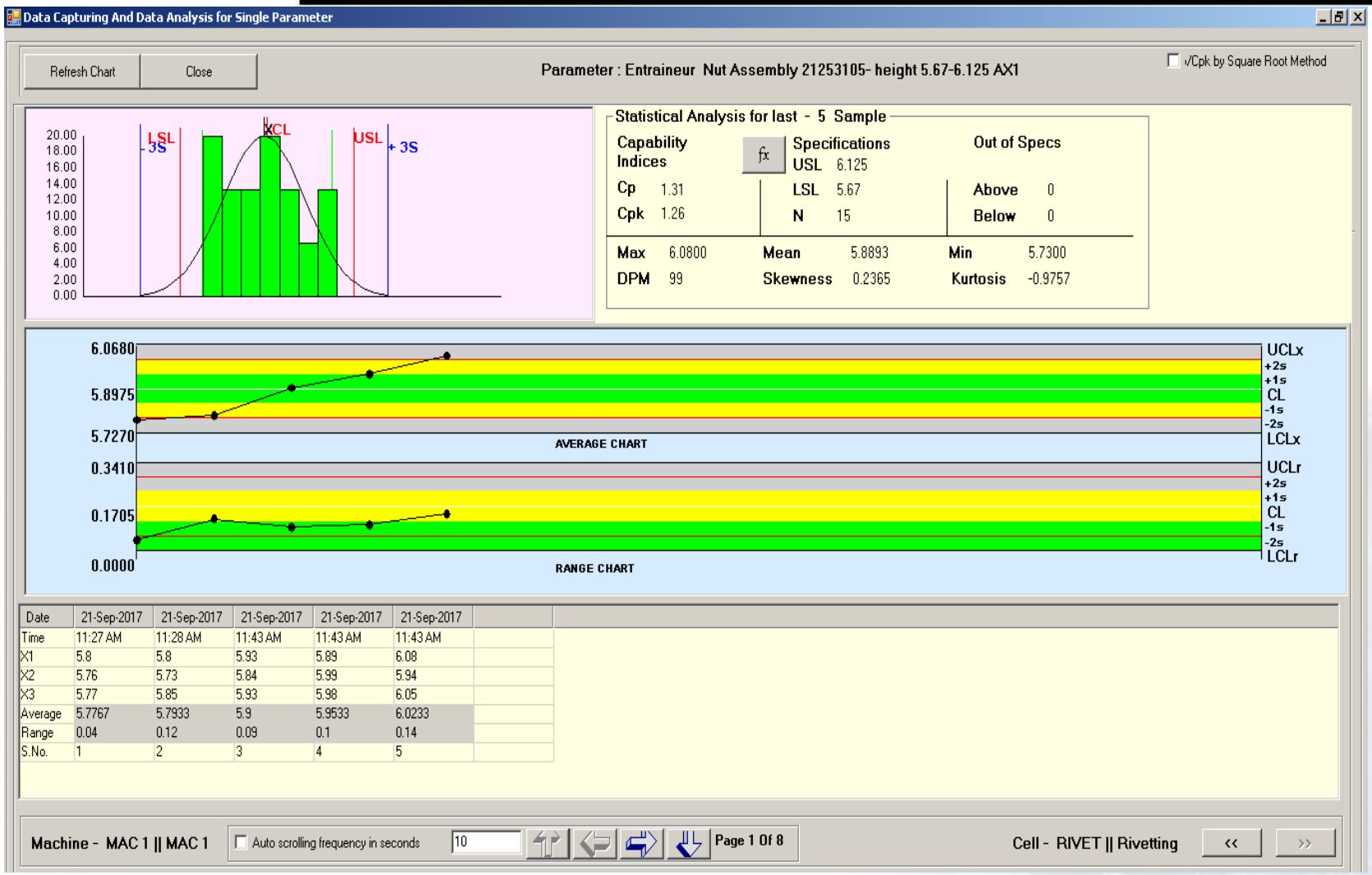
Pro-QMS
Improved Quality



Date	21-Sep-2017	21-Sep-2017	21-Sep-2017	21-Sep-2017	21-Sep-2017
Time	11:27 AM	11:28 AM	11:43 AM	11:43 AM	11:43 AM
X1	5.8	5.8	5.93	5.89	6.08
X2	5.76	5.73	5.84	5.99	5.94
X3	5.77	5.85	5.93	5.98	6.05
Average	5.7767	5.7933	5.9	5.9533	6.0233
Range	0.04	0.12	0.09	0.1	0.14
S.No.	1	2	3	4	5

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Pro-QMS
Web Dashboard view – Plant Level

Pro-QMS

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admin1

Plant	Location	Product\Line	Subline	
Hyderabad	ACB	MainLine	BML-1	Refresh

Station	Image	Cp	Cpk	Parts	Operation	Parameters
CTWiring1 Torque		2.02	1.94	MVS 3 Part	CT Wiring1 Torque	CT Wiring Torque 4 NM
CTWiring2 Torque		3.58	2.96	MVS 3 Part	CT Wiring2 Torque	CT Wiring Torque 0.8NM
Mechanism Torque		4.29	2.38	MVS 3 Part	Mechanical Torque	Mechanism Torque 5NM
Bornier Torque		15.27	4.19	MVS 3 Part	Bornier Torque	Bornier Torque 15NM
MPole Torque		7.07	6.32	MVS 3 Part	MPole Torque	Mobile Pole Torque 7NM
Inferior Torque		7.71	7.31	MVS 3 Part	Inferior Torque	Inferior Torque 7NM

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Pro-QMS

Salient Features of the system

- Ability to create comprehensive Quality Assurance Plan for all components & operations.
- Facility to create masters and configure the system.
- Online data acquisition from multi-gauging fixtures and digital measuring equipment, SCADA System, Files, Databases, CMM and so on…..
- Online instantaneous computation and display of Control Charts and Run Charts (XbarR, XbarS, XMR, X, Pre-Control, P, NP, U, C, etc.) as well as Histograms (including the test for normality) with calculation / display of Skew ness, Kurtosis, Cp, Cpk, Pp and Ppk values.
- Interpretation of Run Charts / Control Charts and feedback to the operator.
- Display of Control Charts of the critical operations on manager's stations for remote monitoring.
- Email/SMS Alerts for Non-Conformity.
- Online non-conformity management with respect to both disposal and corrective actions with causes.
- Measurement Systems Analysis (MSA) including GR & R, Linearity, Stability & Bias.
- Monitoring of gauges with respect to calibration, feedback on Instruments due for Calibration.
- Facility to print / email several reports like performance analysis by shift / machine / operator; corrective actions pending; cost of rejection; gauges due for calibration; etc.
- Facility to export measurement data, for the selected period, for a component, to MS Excel for root cause analysis.
- Scalable client / server architecture.
- Ability to provide data to the other ERP or any other Specific systems like Tableau.
- Facility for customization.

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Thank You

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