

CASESTUDY

MACHINE CONDITION MONITORING



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Prologue

Our client is a leading enterprise specializing in digital transformation solutions for businesses of all sizes. Their expertise lies in developing innovative technologies that streamline operations and enhance efficiency. Facing the challenges of modernization and automation, Electrono Solutions sought to integrate Artificial Intelligence (AI) into their operations for real-time decision-making and intelligent solutions deployment.

Obstacle confronted



Lack of real-time insights

Traditional data analysis fell short in delivering real-time insights on machine performance.



Integration complexities

Integration challenges arose from diverse CNC controllers and sensor data, hindered by compatibility issues.



Manual data validation

Manual data validation introduced errors and delays in decision-making processes.



Limited actionable intelligence

Existing systems lacked actionable intelligence, hindering optimization and proactive fault detection.



Resolutions

- DataAct seamlessly integrates with various CNC controllers, enabling comprehensive data aggregation.
- Real-time monitoring identifies machine issues promptly for proactive measures.
- Automated data validation minimizes errors, ensuring accurate insights.
- DataAct delivers actionable engineering intelligence for optimized operations.

Production Dashboard

Date: 29-02-2024 | Shift: General | Line: SMDDC | Machine: MCV-450

ACTUAL / TARGET (PARTS)	OEE (%)	SLOT TIME(HH:MM)	DOWNTIME(%)	REWORK / REJECTION (PARTS)	REASON CODES (MIN)
0/6	0	09:00 - 10:00	100	0	UNALLOCATED : 60
0/6	0	10:00 - 11:00	100	0	UNALLOCATED : 60
0/6	0	11:00 - 12:00	100	0	UNALLOCATED : 60
0/6	0	12:00 - 13:00	0	0	
0/0	0	13:00 - 14:00	0	0	
0/0	0	14:00 - 15:00	0	0	
0/0	0	15:00 - 16:00	0	0	
0/0	0	16:00 - 17:00	0	0	

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Benefits

01 Enhanced operational efficiency

02 Proactive maintenance

03 Improved decision-making

04 Scalability and flexibility

STATUS	COLOR CODE
OPERATE	Green
STOP	Yellow
ALARM	Red
DISCONNECT	Grey

Machine Energy (kWh)			Spindle Energy (MWh)			Spindle Load (%)	Spindle Speed (RPM)
CL	Value	WL	CL	Value	WL	Value	Value
9	1.104	7	1	0.37	2	7	0

Conclusion

DataAct 's implementation has empowered Electrono Solutions to optimize operations, minimize downtime, and make informed decisions, positioning them for sustained success in the era of IIOT.



Get In Touch

**ELECTRONO SOLUTIONS
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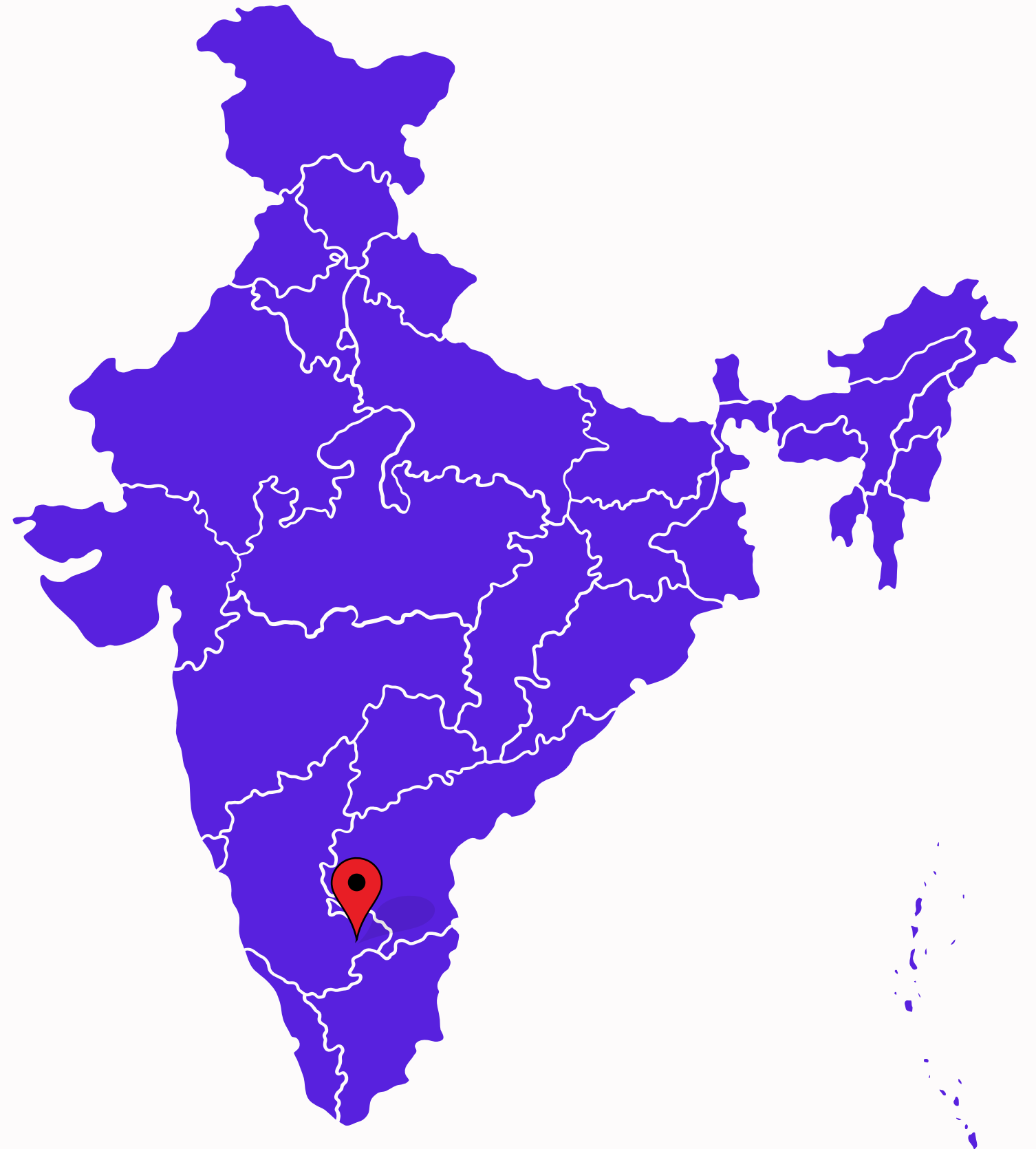
**501 Brigade IRV Centre, Nallurahalli Main Road ,
Whitefield, Bangalore- 560066, Karnataka, India**



080-41268358



info@electronosolutions.com



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