Case Study

Industry | **Manufacturing**

TEAMASV
A People and Knowledge Network

Xtrakt™ PDA Revolutionizes Pyrolysis Process in Manufacturing

Challenges:

- In Pyrolysis, any rapid or uncontrolled increase in temperature & pressure can cause accidents and endanger persons and equipment.
- It was difficult for the customer to retain real-time knowledge of the pressure within the chamber while heating. Accurate pressure monitoring is critical for process control and safety.
- To minimize accidents and assure product quality, early identification and action in cases of deviations from the standard were critical.

Our Solutions

- The Xtrakt™ PDA uses a cloud server to log temperature and pressure data at 20-second intervals.
- This data is available for real-time analytics, allowing operators to closely monitor the process.
- The system integrates temperature and pressure sensor feedback, providing critical insights to operators and allowing them to respond quickly to any irregularities.
- Precise process control in pyrolysis is performed by opening and shutting a solenoid valve, which is handled by Xtrakt™ PDA. This automation guarantees that the progression is safe and regulated.

Benefits

- Pyrolysis process improved significantly after using Xtrakt™ PDA.
- Real-time data access and monitoring enabled for more efficient planning and resource allocation.
- The use of scanning technologies reduced mistakes and increased data accuracy.
- The ability to interlock machines ensured that the pyrolysis process ran smoothly, lowering the chance of accidents.
- A user-friendly interface streamlined operations, making it easier for operators to precisely manage the pyrolysis process.