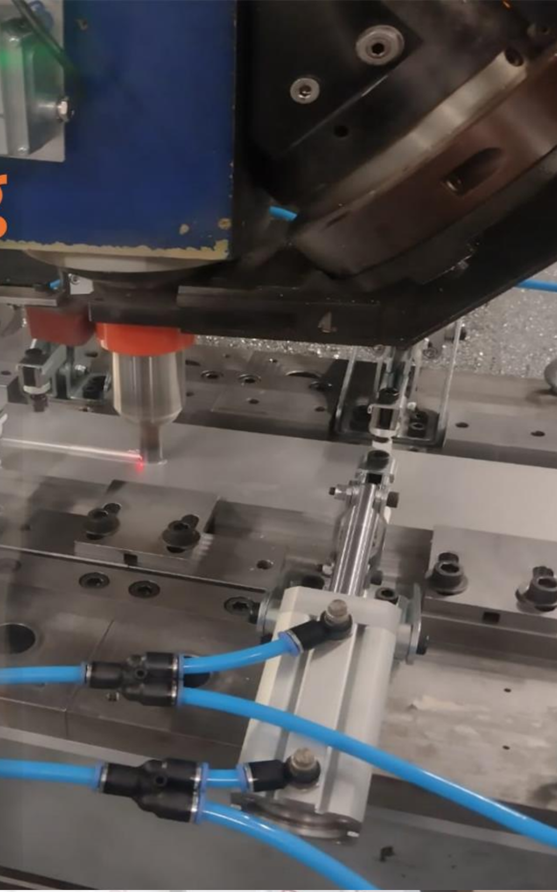


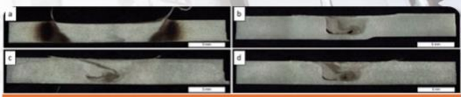
Optimize Manufacturing processes Using Machine Learning , AI & Digital Twin

- Increase efficiency and productivity through automation.
- Improve quality and reduced defects.
- Get real-time monitoring and predictive maintenance to minimize downtime.
- Get greater customization and flexibility in production.

Ongoing Project: Enhancement and Optimization of the Friction Stir Welding Process

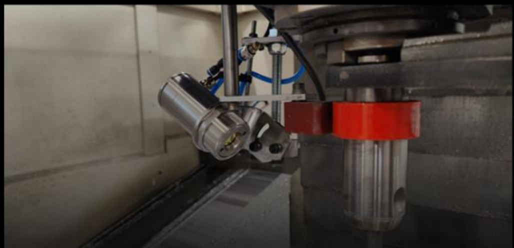
Irregular Shoulder Contact

Flash Side Defect



Tunneling Defect

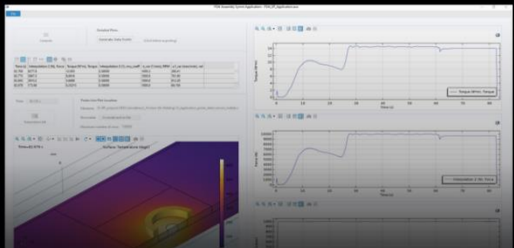
Discover the possibilities



Sensor Training Data

We train Machine Learning AI models using real-world, customer-specific inputs to identify patterns and relationships.

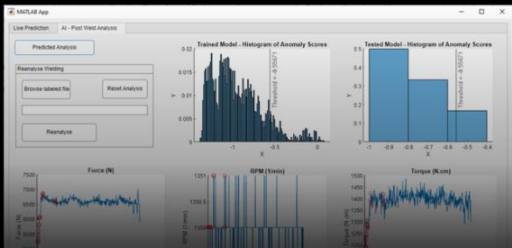
This allows the models to make accurate predictions or informed decisions based on new data from similar sensors.



Digital Twin

To enable real-time monitoring, we developed a Digital Twin that mirrors the welding process conditions and operations digitally.

It serves as a virtual welding machine, assisting in forecasting defects and generating unlimited synthetic training data.



ML / AI Application

The trained Machine Learning AI model analyzes new data to generate predictions or classifications based on defect patterns learned during training.

It identifies relevant features and delivers actionable insights to aid in defect prevention.

Let's go

With our experience and dedication to innovation, we encourage you to connect with us. Let us help you transform technical challenges into opportunities for growth and success. Reach out to us today to start the conversation.

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