Acerta
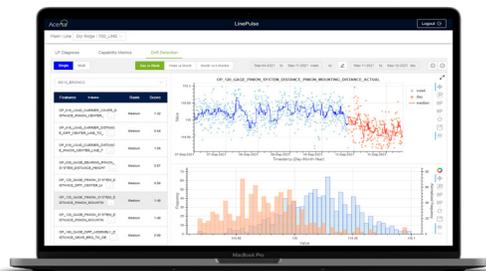
Improve Your Part Quality With Data Insights

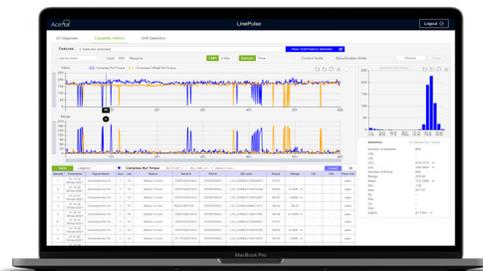## Operationalize Machine Learning With LinePulse

LinePulse uses machine learning and artificial intelligence (ML/AI) on product and production data generated during precision manufacturing of automotive and off-highway vehicles. The LinePulse SaaS suite of solutions enhance data understanding across the manufacturing line to accelerate root cause analysis and improve first time yield.
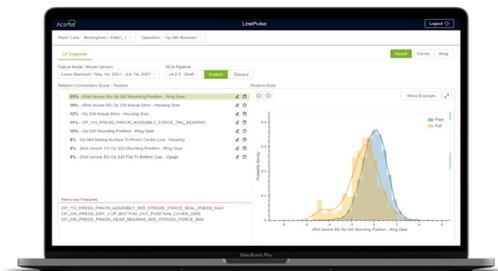
The LinePulse Suite of Solutions

Anomaly Detection

- Machine learning monitors for abnormalities in real time
- Configure real-time alerts so you can focus elsewhere

Capability Metrics

- See how the data has changed over time
- Explore data without the burden of data engineering

Root Cause Analysis

- Identify the origin of hard-to -troubleshoot problems
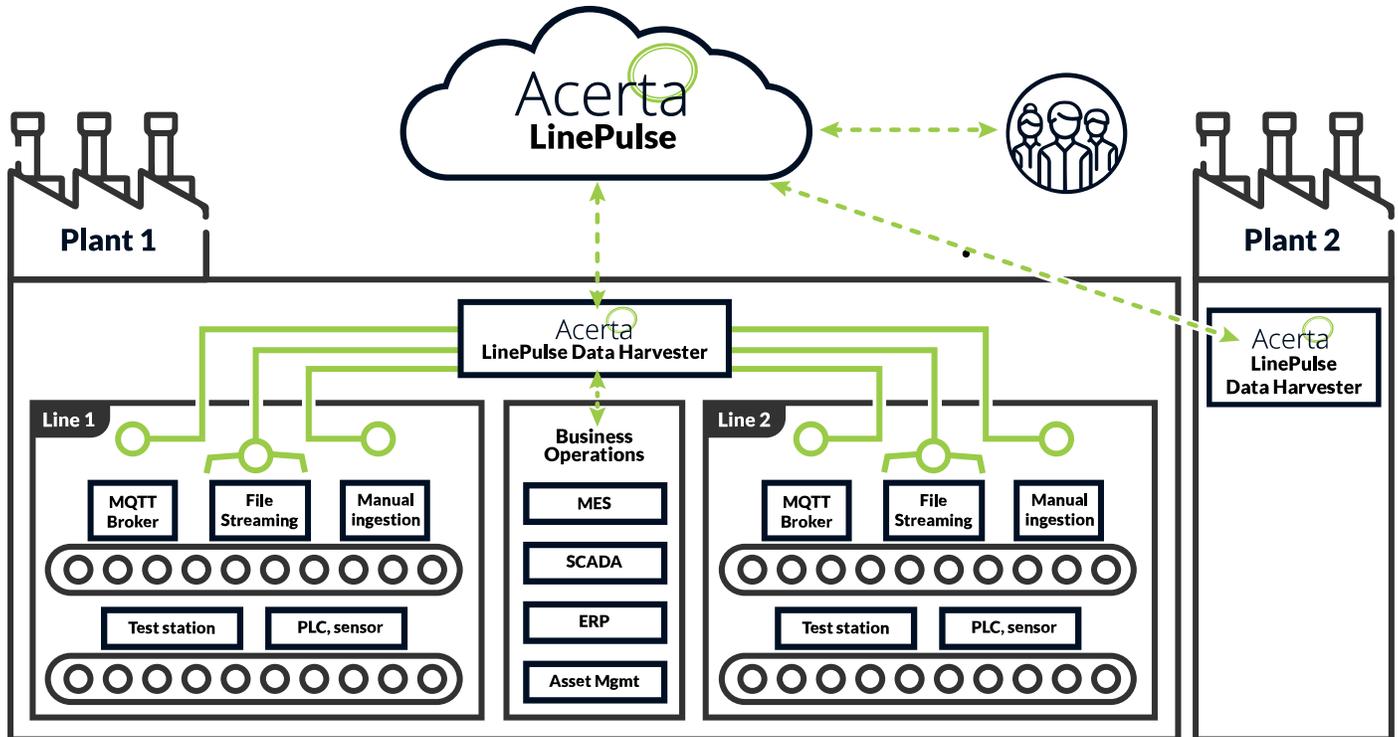- Locate the causes of defects with greater accuracy

Reduce Scrap and Improve Throughput

Machine learning has the power to continuously analyze masses of data points. LinePulse operationalizes ML/AI to do it smoother and faster – streamlining the process of accessing and analyzing your data across product lines and facilities.

- Improve manufacturing throughput and quality while reducing rework and scrap.
- Reduce or eliminate repetitive data processing and analytics tasks.
- Get a real-time view of production and quality from anywhere in the world.
- Receive alerts and notifications, flagging where to look for issues.
- Resolve problems proactively and eliminate disruptive impacts on production.
- Develop data-driven action plans.

How Does LinePulse Work?

We deploy a local device to access the data generated by your existing data acquisition and/or advanced testing equipment. Installation and integration can be done on your own or through LinePulse Implementation Services offered by Acerta's Customer Success team. They have the expertise and domain knowledge to map all of the data needed from your existing sources, set up future data feeds, and then determine how best to integrate LinePulse into your systems to ensure a successful implementation.

- Leverage the cloud to combine complete datasets and eliminate silos.
- Deliver the insights via our web-based dashboard or though integrations with plant systems.
- Understand the digital thread of data for every part on your line and utilize the predictions in:
    - In-line testing of sub-assemblies and complete assemblies.
    - Pilot production lines, newly launched lines, and inefficient existing lines.
    - Pre-production testing, such as reliability testing.

As users build trust, our ML/AI insights can be quantified through the platform using traditional methods, eliminating the need to validate and cross-check results.

What Sets LinePulse Apart?

Built by engineers for engineers in precision manufacturing, LinePulse provides insights not available before – without the need for a degree in data science. It is the only suite to use ML/AI for anomaly detection, root cause analysis, and capability metrics on your manufacturing line. LinePulse improves product quality, simplifies troubleshooting, and provides early warning of changes in the production process – all within one platform.

- Provides greater transparency into your data with the ability to continuously investigate the feasibility of new data models.
- Delivers quick and reliable alerts of even the slightest change in the manufacturing process and the impact a process is making on the final part quality.
- Ensures your data is highly accessible, allowing you to work more efficiently and drive greater profitability.