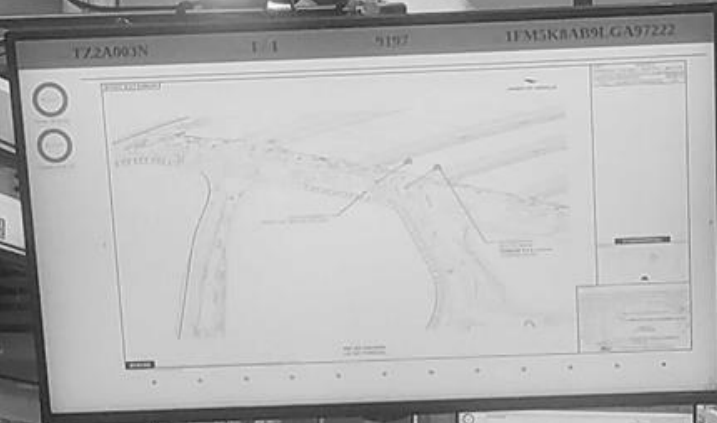




# ARGONAUT™

MANUFACTURING PERFORMANCE PLATFORM



# REDVIKING®

# REDVIKING®

## Continuous Stream of Digital Information from the Plant Floor for Real Time Management

 **ARGONAUT™**  
MANUFACTURING PERFORMANCE PLATFORM



### Challenges

- ⚠ Manufacturing systems and process equipment often work in silos, with no data aggregation or reporting to a cohesive, valuable report structure
- ⚠ Plant floor systems are typically isolated and unique, often built with differing controls, using multiple communication protocols
- ⚠ IT, Engineering and Manufacturing reference different data sets, causing confusion
- ⚠ Connecting of systems and collection of process data has traditionally been viewed as obtainable only by super users in the facility, with highly specialized custom hardware and software
- ⚠ Quality and warranty spills highlight and in bring into realization the challenge of linking information through the manufacturing process

### Ideal Solution

- ⚠ Data from all manufacturing processes is easily linked, searched. Information is readily available to all
- ⚠ Data from external systems is quickly mapped for use on the factory floor. Results from manufacturing and test are instantly reportable
- ⚠ A Common platform used to collect and report across departments, systems and varying equipment
- ⚠ Scalable from individual cells to the entire enterprise

### Desired Outcomes

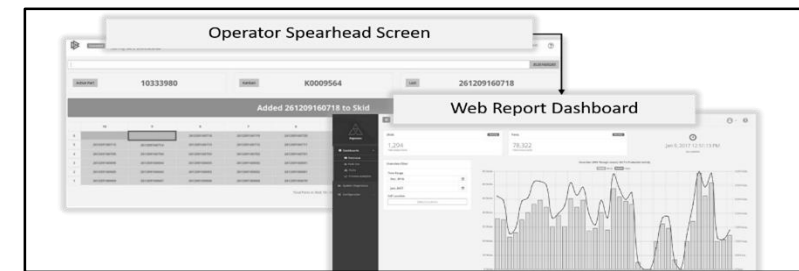
- ⚠ No question on what, who or how something happened. There is a unified single source of truth
- ⚠ Data visibility for Engineering, Operations and IT, executive access from shop floor to top floor
- ⚠ Vertically integrated system empowers all layers of the organization to drive positive change in KPIs
- ⚠ Containment from fallout is minimized when risk avoidance is optimized

*"We wanted to do things like **remote diagnostics** and **configuration** ... we selected **Argonaut**."*

*-Geoffrey Bennet, GKN*

*"Realize **double-digit percentage** throughput improvement, reduced quality fallout & improved uptime."*

*- Remus Pop, Dana Light Vehicle Manufacturing*



# REDVIKING®

Argonaut® Manufacturing Performance Platform

## Digital Solutions for Connected Manufacturing

Argonaut® is a sophisticated solution for connecting, monitoring, and optimizing manufacturing data and information

### End to End Solutions

Data from plant floor to the enterprise data lake; PLM information to your operators. Argonaut connects information

- △ Connect to and collect from virtually any plant floor device
- △ Provide context and meaning to data for local reporting and long term storage and analysis
- △ Real time KPIs enable decisions by Supervisors and Team Leads
- △ Operators are empowered with access to accurate work instruction for the unit in station

### Global Scalability

Start with a Proof of Concept Scale across the Enterprise

- △ Deploy as a proof of concept, a stand alone line, or scaled across your entire organization
- △ Aggregate data across diverse manufacturing processes and divisions.
- △ Derive meaningful insights with correlated data sets
- △ Reduced complexity IT infrastructure costs and interface to modern business systems (ERP, WMS, Azure)

### Application Capability

Varying manufacturing challenges met by a consistent approach

- △ Track and Trace: Part, product, and process traceability
- △ Factory Information System OEE: Process and Equipment Performance Management
- △ Dynamic Visual Work Instructions: Deliver standardized process instructions to operators
- △ Error or Mistake Proofing: Adding feedback from operator tools to Dynamic Instruction

*“Industry 4.0 technology deployed at 28 sites globally, with real-time data driving double digit increases in quality and throughput, dashboards for senior level management, and data preparing us for machine learning and AI enablement of the future.”*

*-Remus Pop  
Connected I4.0 and OT manager*



# REDAVIKING®

Argonaut® Manufacturing Performance Platform  
Azure Platform



**ARGONAUT™**  
MANUFACTURING PERFORMANCE PLATFORM

With RedViking and Microsoft our customers launch Hybrid Cloud enabled solutions to combine the security and reliability of a classic on premise solution with the flexibility and power of the modern Azure cloud infrastructure to realize transformative value

## Deploy Argonaut by RedViking on the Microsoft Databox Edge

### Reliability, Performance and Security

- ⚠ Real-time automation feedback controls and machine data collection are completed on premise
- ⚠ Protect your Operation department's need for 24/7 reliability with on premise performance and up-time
- ⚠ Enable your IT and Engineering departments to configure and monitor your critical manufacturing infrastructure from the cloud

## Deploy Argonaut Federation and Reporting service to your Azure tenant

### First Class Data Accessibility

- ⚠ Data is Federated to the Azure Cloud in order to provide reliable long-term storage and accessibility
- ⚠ Reports support correlation of data from plant-to-plant
- ⚠ Alerts, Notifications and Reports are accessible from anywhere you work
- ⚠ Long term data fidelity is protected from plant interruptions

## Utilize the power of Data Bricks and PowerBI backed by Azure Data Lake

### Ensure your future success today

- ⚠ Data is stored to economical Azure Data Lake Storage
- ⚠ With Azure DataBricks, it easy to extract and transform data in the future to gain Powerful insights from your data to solve tomorrow's problems
- ⚠ Access to data for custom reports and machine learning projects to improve future operations

