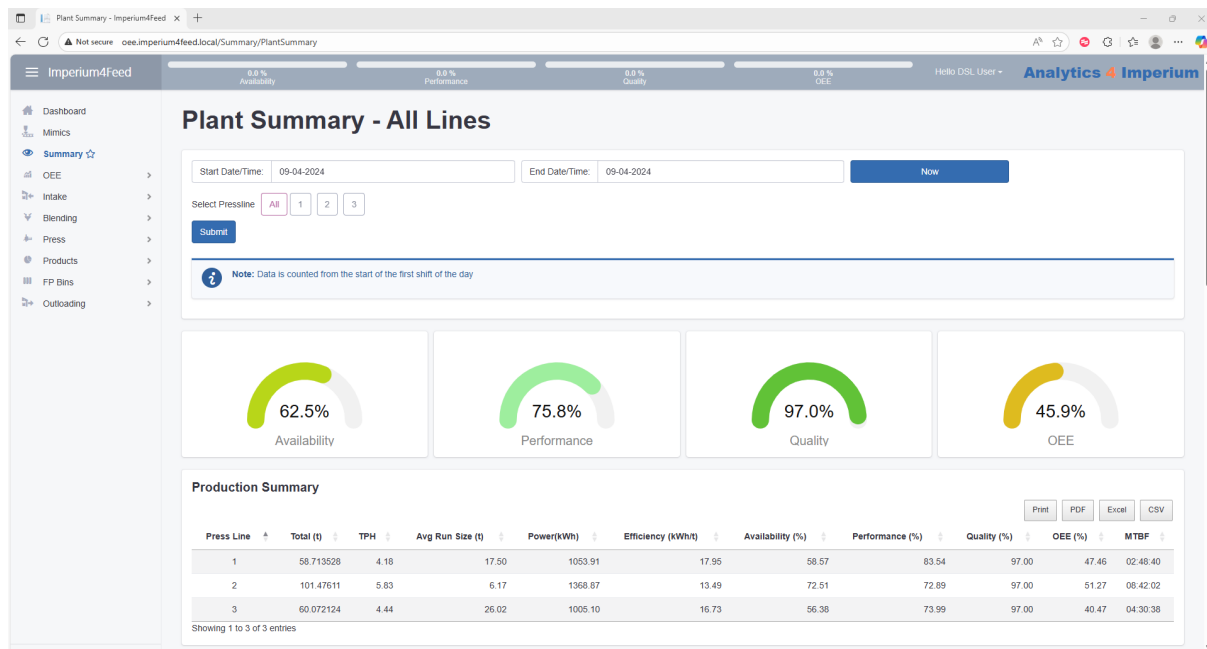


## Datastor/DSL Systems (IPPE booth A1828) launches Imperium<sup>4</sup>Analytics: A Comprehensive Production Performance and Manufacturing Intelligence Platform for Animal Feed Mills.

Datastor/DSL Systems has announced the release of Imperium<sup>4</sup>Analytics, a powerful, secure web-based performance monitoring and optimization platform designed specifically for feed manufacturing operations. Built on industry-standard OEE (Overall Equipment Effectiveness) methodology, Imperium<sup>4</sup>Analytics provides feed mills with unprecedented visibility into production efficiency, downtime, throughput, quality results, energy usage, and bottleneck analysis—empowering teams to reduce losses, optimize processes, and boost profitability.



### Transforming Feed Mill Performance with Real-Time OEE Insight

Imperium<sup>4</sup>Analytics applies globally recognized OEE principles—**Availability**, **Performance**, and **Quality**—to both pelleting and blending operations. Through intuitive dashboards, live timelines, and deep analytical tools, it translates complex plant activity into actionable intelligence.

The platform automatically calculates:

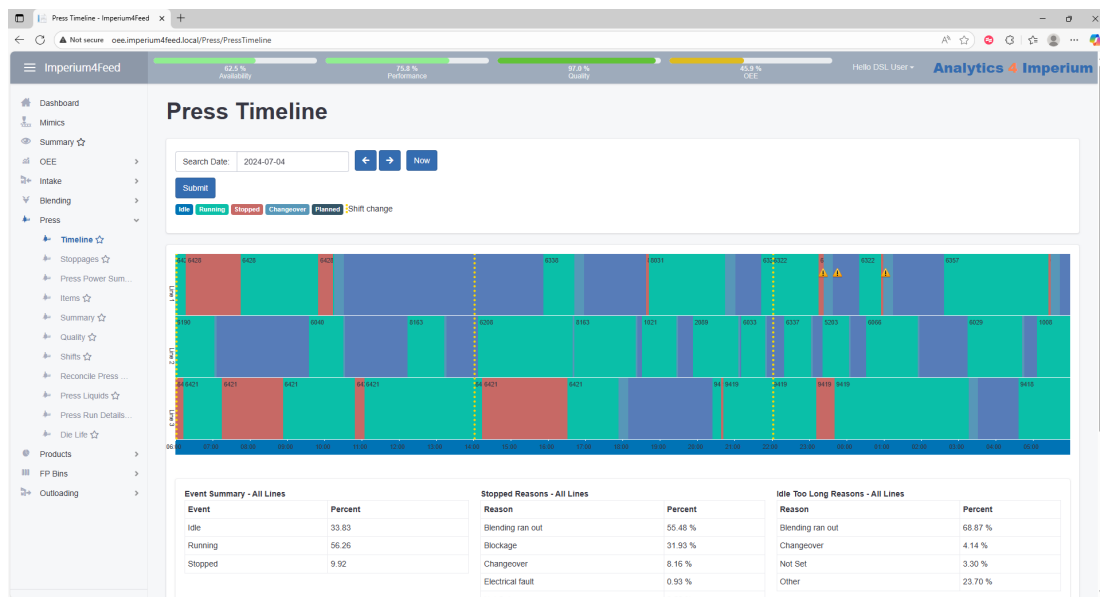
- **Availability (%)** based on planned versus operating time
- **Performance (%)** by comparing actual vs. theoretical production rates
- **Quality (%)** using Holmen test values, batch rejection data, and configurable quality metrics
- **Overall OEE (%)** for each batch and pelleting line, product and shift team

These metrics give production, engineering, and management teams a unified measure of plant efficiency and a consistent way to benchmark improvements.

### A Complete View of Pellet Press and Blending Operations

Imperium<sup>4</sup>Analytics provides a comprehensive suite of plant-wide analytics, including:

## Pellet Press Line Intelligence



- **Plant summary dashboards** with tonnes produced, throughput, power usage, and run/changeover statistics
- **Per-pellet press OEE reporting**, day/week trend analysis, and shift team comparisons
- **Interactive press timelines** showing run, idle, stoppage, and planned downtime events with full drill-down
- **Stoppage analysis & Pareto charts** highlighting root causes and highest-impact downtime
- **Energy reporting** including kWh/t by line, product, and run
- **Product performance analytics**, run details, liquid addition accuracy, die life monitoring, and quality test evaluation

## Blending Line Performance

- **Blending OEE dashboards** with activity breakdown (idle, weighing, ready to discharge, discharging, planned downtime)
- **Hourly throughput analysis** to identify bottlenecks and flow restrictions
- **Weigher idle and ready-to-discharge stoppage tracking**
- **Grinding timelines and batch grinding performance**
- **Feeder accuracy monitoring** with alarm statistics and feed rate performance
- **Batch reconciliation tools** to match blending to press production

## End-to-End Plant Insight

Beyond pelleting and blending, Imperium<sup>4</sup>Analytics also includes detailed monitoring and analysis for:

- **Receiving operations** (truck activity timelines, QC results, rework tracking)
- **Finished product bins** (real-time utilization, retention time, bin capacity status, bin contents snapshot)
- **Load out operations** (timeline views, truck loading performance, bay throughput summaries)
- **Power usage, shift-based comparisons, and product category summaries**

Each module features exportable tables, interactive charts, custom date ranges, product/category filters, and drill-down detail for root-cause diagnosis.

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### **Designed for Operators. Built for Management. Ready for Industry 4.0.**

Imperium<sup>4</sup>Analytics delivers:

- **Real-time visibility** across all production areas
- **Automatic stoppage detection** with operator reason capture
- **Configurable quality defaults, thresholds, and color-coded gauges**
- **User management and administrative control** for stoppage reasons, chart color divisions, and access roles
- **Seamless integration with Imperium<sup>4</sup>Feed mill control system**

With auto-refreshing dashboards, printer-friendly views, and powerful trend analysis tools, Imperium<sup>4</sup>Analytics enables continuous improvement across the entire feed manufacturing process.

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### **About Datastor/DSL Systems**

Datastor/DSL Systems is a leading provider of automation and performance optimization solutions for the feed and grain industries. With decades of experience in plant control, production execution, and manufacturing intelligence, DSL/Datastor Systems delivers technologies that help customers boost efficiency, increase quality, and enhance operational insight.

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### **Availability**

Imperium<sup>4</sup>Analytics is available immediately as part of the Imperium<sup>4</sup>Feed mill control suite of software. For demonstrations, licensing information, or technical details, please contact:

**Email:** tomshoen@dsl-systems.com

**Phone:** (612) 404-1291