

### SPECIALTY PRODUCTS AND SOLUTIONS

Our products, services, and people deliver enhanced performance and continuous technological innovation with unmatched experience. In addition to PLC control and HMI systems, KSS also provides: database design & development, networking design, web services & reporting.

**WeighMaster**® Truck scale data collection system.

**WeighMasterWEB**® Web-based software application for secure database administration for use with WeighMaster for truck scales.

**WeighMasterAG**® Scale data collection system designed for fast and easy weighing and reporting of bulk agricultural yields.

**BatchMaster**® Automated data collection and control of truck and railcar loadouts utilizing batch-weighing technology.

**Automatic Equipment Identification (AEI)** RF-based tag solutions for asset and fleet management/tracking.

**Online Analysis Solutions** Analyzer products with software to allow display, control, and reporting of mineral and moisture measurements for bulk materials management.

**Pioneer** data terminals, software, and weighing equipment offering the reliability, durability, and accuracy material handling companies demand for their operations.

### TECHNICAL SUPPORT

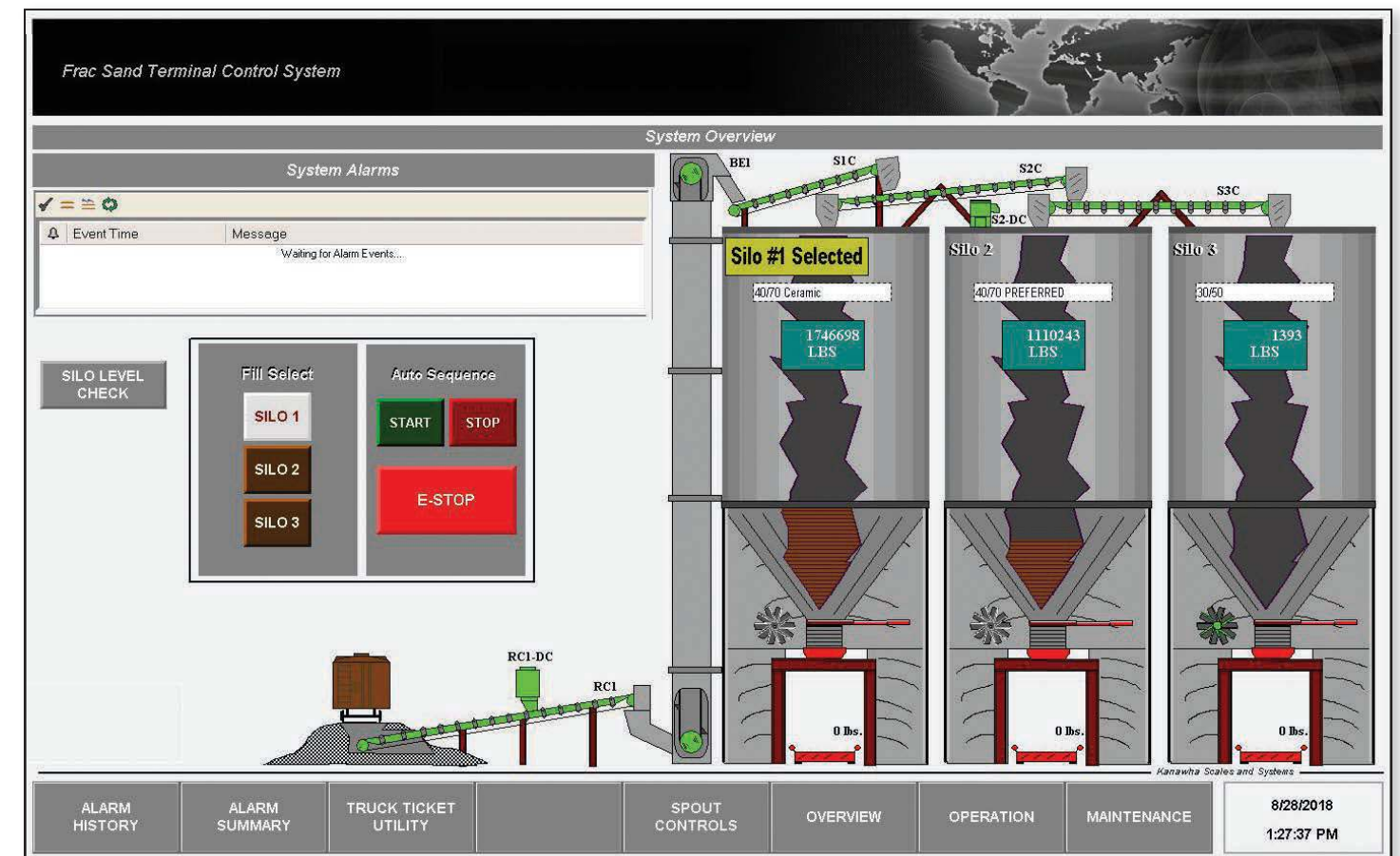
We provide 24/7 customer service for all our systems because we realize that minimizing downtime is critical. Our highly trained support team provides both remote and on-site repairs and maintenance to ensure your operations experience minimal downtime when issues arise. We support our customers via whatever methods are required to resolve issues as quickly as possible.

*"In a world where technology is a major driving force behind economic growth, Kanawha Scales & Systems stands ready with a full array of quality products and services designed to meet our customers' most challenging requirements."*



## Leading the 'Weigh'

WITH INNOVATIVE SOLUTIONS AND TECHNOLOGY®



Since 1954, Kanawha Scales & Systems has been a leader in weighing products and systems – from floor scales, truck scales, and rail scales to our flagship product, **BatchMaster™** loadout, which is now the standard for rail loading and truck batch systems around the world. But our expertise far exceeds industrial scales and weighing applications!

KSS' engineering group specializes in developing and implementing solutions for process control, material handling, and data management applications. We work with customers from conceptualization and design to installation and implementation and beyond. We deliver customized solutions around the world, ensuring efficient and cost-effective ways of doing business. KSS is your technology solutions provider for industrial automation and data collection needs.

## THE POWER OF TECHNOLOGY, EXPERIENCE AND INNOVATION

### MARKETS SERVED

With fourteen offices in the US and customers throughout the world including China, Australia, India, Saudi Arabia, Colombia, and Brazil, KSS serves industries such as: Mining and Minerals, Chemicals, Plastics, Agriculture, Pharmaceuticals, Automotive, Construction, Utilities, Manufacturing, and many more.

### ENGINEERING SERVICES

Whether your operation is simple or complex, large or small, our engineers can design and build an efficient solution for your unique application. Our engineering team will meet with you to determine your needs and outline the goals you're working toward with the system requirements. We work with you to determine a budget and the components you will need to meet your goals and stay within that budget. The KSS engineering staff specializes in:

- PLC/HMI Design & Programming
- Networking Integration
- Web Based Solutions
- Custom Control Panel Design, Layout & Assembly
- Motor Control Center (MCC) Design & Configuration
- AutoCAD Design (2D & 3D Modeling)
- Structural & Mechanical Engineering
- Project Management
- Electrical Engineering
- Hydraulic Engineering

We offer total flexibility by working with plant operations for standalone control systems or customized, totally integrated turnkey solutions.

### PLC CONTROL SYSTEMS

Programmable Logic Controller (PLC) control systems are the heart of almost every industry for process control and automation. KSS is a leading-edge integrator, providing programming, engineering, and installation of PLC systems for operations of all sizes.

We offer systems from simple standalone PLCs to larger networked systems utilizing industry standard networks. We also offer PLC upgrade services to improve runtime capabilities and help reduce the possibility of unplanned downtime.



### CUSTOM PANEL FABRICATION

Our panel fabrication department ensures that the closest attention to detail is maintained and that every panel is tailored to fit the precise application of the PLC or control for which it was intended. We manufacture control panels for various environments, from general purpose to hazardous area classified. Our fabricators take pride in providing customers with high-quality units that are precisely wired, assembled, and labeled.

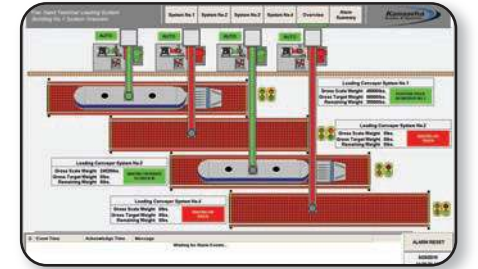


### HMI SYSTEMS

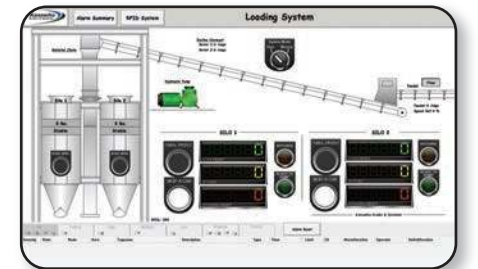
KSS designs easy-to-use Human Machine Interface (HMI) systems customized to fit your application. A properly designed PLC/HMI system allows your plant personnel to view critical process information and adjust system parameters, ensuring optimum performance of your operation.

At its simplest, an HMI may be a control panel with indicator lights, selector switches, and push buttons. More sophisticated HMIs use networked equipment to display process information and provide control capabilities where needed, along with diagnostic and maintenance interfaces.

This system controls the loading process of frac sand into a truck. The truck is then loaded on truck scales to a desired target weight and a ticket is printed as the shipping manifest. This information is also kept in the **WeighMaster®** database.



This system controls the loading of aggregate into rail cars. The operator has full control of the reclaim system, as well as the loading of each railcar, in automatic or manual modes of operation. KSS' **BatchMaster®** software is utilized as the loading manifest for weighing, invoicing, and shipping records.



## Kanawha Scales & Systems provides the solutions for all your automated production needs.

### MATERIAL HANDLING SYSTEMS

Process control and automation are critical when integrating material handling processes into your plant-wide control network. Our engineering group has the experience to select the proper equipment and design the control system to optimize your operating efficiency for material handling applications such as:

- Conveying
- Bagging
- Blending
- Palletizing & Indexing
- Batching
- Level Monitoring & Control
- Drum Filling



In addition, KSS can design and supply the various mechanical equipment and components for material handling systems. We specialize in the design and supply of:

- Bins & Hoppers
- Control Valves
- Gates & Chutes
- Hydraulics & Pneumatic Systems

