



AccuWeigh

Production Monitoring Systems

In today's global economy and competitive market place, mine operators are constantly seeking ways to enhance machine and operator performance. Increasing dragline and shovel productivity and reducing maintenance costs are primary objectives of today's successful miners.

Access to real-time information relating to excavator performance and productivity is of paramount importance in achieving these goals.

The AccuWeigh system enables users to achieve these objectives. AccuWeigh systems monitor raw machine signals and convert them into meaningful information that allows managers to make informed decisions.



PLC-Based

Because the system is PLC-based and integrated directly into the control systems of the excavator, there are significantly fewer parts and subsystems required for support of the monitoring system.

This means less spare parts to stock, less training of mine staff, and a much simplified troubleshooting path for mine support staff.

Easy Access to Information

Data is collected and stored in a non-proprietary database. It either can be retrieved manually from the excavator or transmitted at timed intervals to the mine site server for immediate analysis and reporting.

Unprecedented Accuracy

Over 20 parameters are measured and stored on a cycle or truck basis.

The algorithms utilized eliminate errors caused by tightlines, acceleration, motor field variation, loop unbalances, etc.

Sample rates of 20 to 50 times per second are achieved.

By utilizing highly accurate and dependable resolvers on all motions, reliability and resolution are greatly increased over older encoder technology.

Increased Productivity

The ability to make informed decisions on everything from mine planning to maintenance and operator training is of paramount importance. AccuWeigh production monitoring systems provide mine personnel with current information quickly, and spot performance trends for both operators and excavators.

Operators receive immediate feedback on their performance via the operator interface.

Timely information to both the operator and management is essential to increasing operator performance and overall excavator productivity.



Powerful Reporting Tools

All reporting is web based and can be viewed locally or remotely via your computer web browser. Included reports can be generated, printed, exported to a variety of popular file formats (such as Rich Text Format (RTF) or Portable Document Format (PDF)), or e-mailed to colleagues. Customized reporting solutions can be completed by the AccuWeigh reporting team and integrated directly into your specific reporting engine.

Operator Identification		Pa ID	Pa #
Pa Class	Pa Name	Pa ID	Pa #
Cable Change/ Reserve		Beam ID	Beam "11-Cyberluden"
Dig Data Stats			
		This Cycle	Shift Avg
Cycle Time		10	56
Material Weight in Bucket	166	20114	
Bank Cubic Yardage	7236	109	13145
Swing Angle	172	73	
Dump Height	-334	36	
Dig Depth	-334	-24	
Load Time	0	0	
Total Buckets		This Shift: 114	Last Shift: 526
Hoist Rope Out: 92		Drag Rope Out: 263	
		Total Rope Out: 331	
Dig Screen	Front Screen	Daily Summary	Power Outage
Prepel Screen	Limite Screen	Weigh Bucket	Status Screen #1
			Status Screen #2
			Status Screen #3
			Sensor Screen
			Next Screen
			Previous Screen
			Blank Screen
			Alarm Summary
			Boom Lower
			DCS Boom Pro
			Hoist Limits
			Drag Limits
			Tightline Status
			Set Limits Status
			Run Mode
			11:24:46
			12/17/2002

Flexible Operator Interface Options

The AccuWeigh systems are capable of utilizing almost any operator interface device that can be interfaced to the excavator's PLC controls.

Should the AccuWeigh interface be used, it consists of a fully self-contained PC panel with a 12-inch color VGA touch screen that is clearly visible in direct sunlight and has anti-glare characteristics.

Downtime Detection

AccuWeigh production monitoring systems detect if the excavator is not being productive and will prompt the operator via the operator interface to select a reason for the delay.

Unparalleled Support

DCS has knowledgeable personnel available 24 hours a day / 7 days a week to assist with questions, concerns, and in-field support if needed.

If telemetry is utilized in the installation and a remote connection method (such as dial-up or VPN) is available, many maintenance, troubleshooting and/or customization actions can be performed remotely. This functionality is not limited to the AccuWeigh system itself. Many excavator systems and subsystem problems can be troubleshoot and corrected using the remote link.

Alarm / Trip Report Option

As an option, the end user can define excavator Alarms and Trips to be captured by the PLC system. These may be integrated into the AccuWeigh reporting system. This information allows maintenance personnel to track problems that may need to be investigated.

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