



FOR THE MINING INDUSTRY

- Level
- Pressure
- Pump Protection
- Rotational Motion Control
- Linear Position
- Cable Management
- Static Grounding



Mining Operation

he process of mining is complex, with several important stages to bring raw minerals to a finished product. From actual mining, crushing, transport, preparation and beneficiation to waste collection and reclamation, there are numerous processes that require critical measurements to insure the proper handling of minerals. Ametek is a leading manufacturer of level, pressure, temperature and position measurement instrumentation that is robust enough to withstand the harsh environmental conditions in the mining industry.

We thank you for considering Ametek Sensors' products, and we appreciate the opportunity to provide you with the very best in measurement solutions. We are committed to providing you with:

- Best level, pressure and position measurement expertise in the industry
- Best value in the most state of the art instrumentation
- Best customer support and service
- Widest breadth of technologies
- Highest possible product quality
- Best in class products

Ametek Sensors, Test and Calibration is known worldwide as a premiere manufacturer of high quality instrumentation. We have earned our reputation as a world leader by providing reliable and accurate solutions to the most demanding

Cable Management Systems

Series 8060 Catrac Model Protects cables and hoses from abrasion, wear and twisting for machines in motion Durable Steel construction to withstand severe hydraulic loads Available in a variety of heights, widths, lengths, and materials to meet your needs





applications in virtually every industry. It is the goal of Ametek Sensors, and our worldwide network of representatives and distributors, to provide the most appropriate technology solution to meet your requirements..

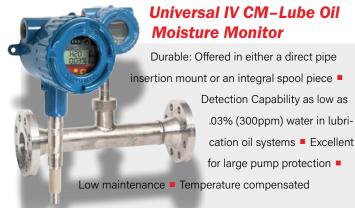
We pledge to provide you with a quality solution based on over 50 years of field experience that will be perfectly suited for your application.





The Products You Need for the Mining Industry

Guided Wave and Open Air Radar DR Series Models with 2-wire output and easy 3-step setup process ■ Class I, Div 1, Zone 0 installation - Special process separator for the most extreme conditions Stable measurement through agitated surfaces, foam, and fine dust in the tank Probe types and materials for all applications



Point Level Detection ThePoint or Intellipoint Models - Excellent in liquid, slurry or granular applications Ignores coatings on the measurement probe Switching relay or mA output - 2-wire or line powered -No calibration; easy to install



Plugged Chute Detector

Unique sensor design does not interfere with flow of material ■ Cote-Shield™ technology eliminates false alarms due to coatings - Electronics can be mounted remotely, away from high vibration • Great for feed bin, conveyor, storage tanks and delivery chute applications



Rotary Position Gemco manufactures a complete line of mechanical

rotary limit switches that can provide end limits for moving machinery and mechanisms. We also offer

absolute single and multi-turn resolvers in a variety of package styles to meet your mounting requirements.

ment transducers - Available in Rod, Profile, and Embedded style packages A variety of outputs to meet your sensing needs Most designs are lab tested to a shock resistance of 1,000 G's and vibration to 30 G's



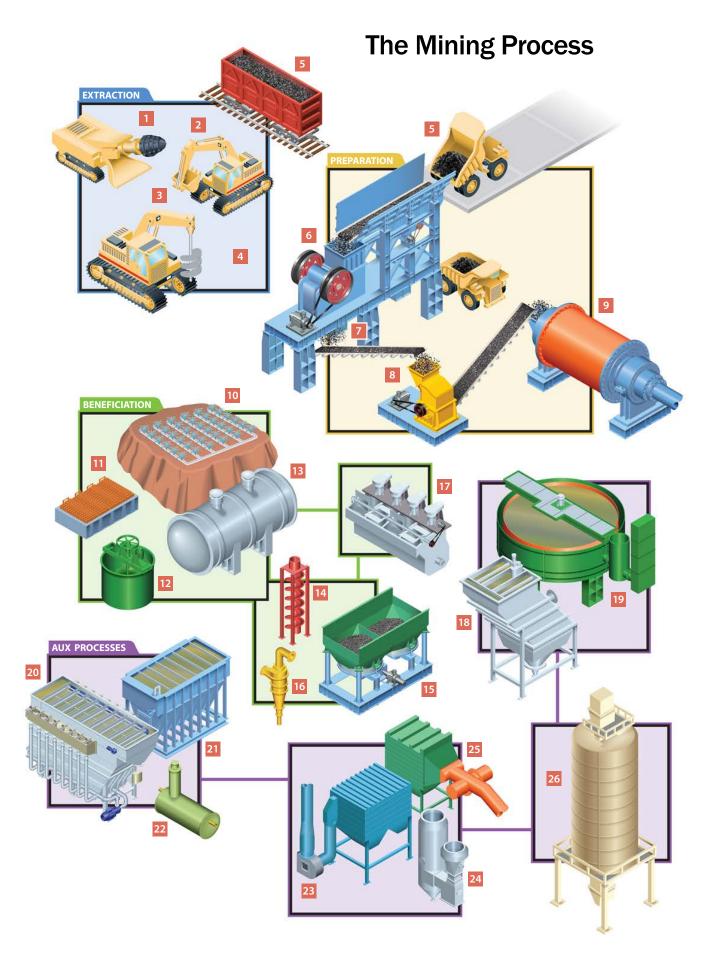
Industrial Brakes

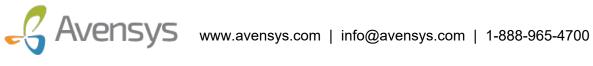
Gemco Industrial brakes stop virtually any type of industrial machine. These field proven, high performance brake systems are

tough, reliable, and provide trouble-free service. AISE rated and made in the U.S.A.









FLOATATION	MINERAL EXTRACTION			APPLICATION	MEASUREMENT	AMETEK SOLUTION
			1	Tunnel Boring	Position of tunnel boring tools.	955 Brik & 957 Brik Linear Displacement Transducers (LDT).
		MENT	2	Hydraulic Cylinders	Accurate position of hydraulic cylinders.	Model 958A Embedded LDT.
		HEAVY EQUIPMENT	3	Drills and Shovels	Rotation control on shovel position and deflection measurements on booms.	Resolvers, 955 Brik LDT.
		НЕАVY	4	General Mining	Rotary position.	2006 Rotary Limit Switch (NEMA 7 & 9).
			5	Mineral Dumpers	Brake control on rail cars and end limit determination during mineral dumps.	Brakes and 1980 Cam Boxes.
	PREPARATION	SOLIDS & GRANULES	6	Primary Crusher	Bulk solids overflow protection. Blockage. High level. Continuous level monitoring and pump protection.	LEVEL: ThePoint Level Switch; Plug Chute Detector; Intellipoint Level Switch; DR7100 GWR; DR6300 Radar; Clearline Pump Protection. PRESSURE & TEMPERATURE: Model 1981 Solid Front Pressure Gauges and Bimetallic Thermometers.
			7	Screen		
			8	Secondary Crusher		
		SOLIE	9	Mill	Lube oil pressure and temperature measurement.	POSITION: 955 Brik Linear Displacement Transducer.
	BENEFICIATION (LIQUIDS & SLURRIES)	CHEMICAL METHODS	10	Heap Leaching	Bulk solids and liquids overflow protection. Blockage. High level. Continuous level monitoring and interface detection. Head and seal pressure. Autoclaving. Pressure and temperature. Air supply in floatation cells.	LEVEL: ThePoint Level Switch; Plug Chute Detector; Intellipoint Level Switch; DR7100 GWR; DR6300 Radar; Clearline Pump Protection; TLS Magnetostrictive Level System; Desalter Probe. PRESSURE & TEMPERATURE: Model 1981 & 656 Solid Front Pressure Gauges and Bimetallic Thermometers. ANALYTICAL: Universal IV CM Lube Oil Moisture Monitor.
			11	Electrowinning Cells		
			12	Leaching Tank		
			13	Autoclaver		
		HODS	14	Spiral Chute		
			15	Jigging Machine		
			16	Cyclone		
STORING	AUXILIARY PROCESSES	THICKENING	18	Lamelia Thickener	Bulk solids and liquids overflow protection. Blockage. High level. Continuous level monitoring. Interface detection and pump protection. Spigot, sorption, and dedusting pressure. Storage tank pressure and temperature.	LEVEL: ThePoint Level Switch; Plug Chute Detector; Intellipoint Level Switch; DR7100 GWR; DR6300 Radar; Clearline Pump Protection; TLS Magnetostrictive Level System; Desalter Probe. PRESSURE & TEMPERATURE: Model 1981 & 656 Solid Front Pressure Gauges and Bimetallic Thermometers. ANALYTICAL: Universal IV CM Lube Oil Moisture Monitor.
			19	Radial Thickener		
		WATER TREATMENT	20	Floatator Tank		
			21	Neutralizer Tank		
			22	Sorption Filter		
		DEDUSTING	23	Cyclonic Dust Filter		
			24	Scrubber		
			25	Electrostatic Filter		
		•	26	Big Bag Tank Storage		







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