

# Mining Industry



## **Innovations for the Mining Industry** Laboratory and Industrial Solutions

**METTLER TOLEDO**



# Laboratory Instrumentation

## Guaranteed Precision

### XPR Analytical & Precision Balances



- High performance, reliability, and ease of use
- Weigh accurately from 0.001mg to 64kg
- SmartGrid™ and SmartPan™ provides stability in all environments
- GWP Approved ensures results meet all quality and compliance requirements
- Designed for durability and easy cleaning

### XPR Microbalances



- Weigh accurately from 0.1µg to 52g
- Delivers unmatched precision with a compact space-saving design
- Obtain the ultimate accuracy levels of 1 part in 10,000
- High accurate weighing for gravimetric fire assay samples of gold flakes
- Accurate weighing of micro samples, such as prill and regulus

### ErgoClips



- Securely fastens tare containers of all shapes and sizes
- Ergonomic, easier and faster weighing routine
- Dosing directly into the tare container eliminates transfer errors and saves money by minimizing sample loss

### Halogen Moisture Analyzers



- Provides dry mass, moisture content or total solids results in minutes of processed and solid ores, tank contents, slime, cake, pulp or sludge
- Intuitive operation with step-by-step user guidance to avoid errors in routine operation
- Easier and quicker method development with a guided method development tool and faster results using prediction mode
- Suitable for low moisture contents with 0.001% MC readability



## pH & Conductivity Meters



- Full GLP Support
- Ability to measure pH, conductivity, ion selectivity and dissolved oxygen
- IP54 Water and Dust resistant
- Multiple language options
- Easy to use menu and parameter measurements
- Bench and Portable options available

## Titration



- Systems range from the modular Titration Excellence Series to the Compact Line. Analyses include potentiometric titration and volumetric and coulometric Karl Fischer titration.
- One Click sample measurement
- Quick sample processing
- Touchscreen interface
- Optimized leach consumption and process efficiency

## InMotion™ Autosamplers



- Works with any Excellence titrator, density meter, refractometer, UV/VIS spectrophotometer or pH meter to simplify lab operations using One Click® operated instruments
- Secure and efficient sample identification with SmartSample™ RFID weighing
- Flexible size and throughput options

## LabX Software



- Power your lab bench with automated data handling, high process security, and full SOP guidance
- Centrally monitor all connected instruments and view results in real-time

# Mining Operations

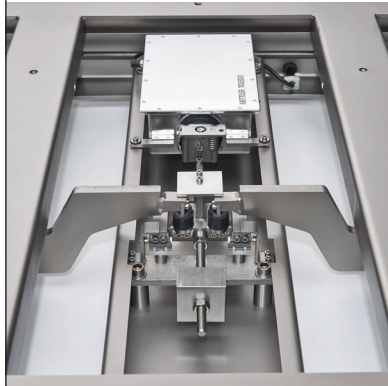
## Maximize Efficiency and Yield

### PowerDeck™ Digital Floor Scale



- For harsh conditions where uptime and accuracy are key
- Most durable structure and longest lasting calibration built to thrive in harsh environments
  - Elimination of most common analog failure points, automatic alerts of problems
  - Smart load cells adjust to conditions and monitor their own health
  - 10x precision of analog systems for the same price

### PBK9 & PFK9 High Precision Scales



- Ideal for high risk measurements where the margin for error is extremely low
- Highly accurate measurements of up to 750,000 scale divisions with weighing capacities from 600 grams to 3 tons eliminate the need for secondary scales
  - Ensure reproducible product quality, minimize raw material waste, and improve yield
  - Achieve lab and QC level tolerances in production

### Load Cells, Weigh Modules & Load Sensors



- Convert any conveyor into a scale
- Compression weigh modules
  - Tension weigh modules
  - Strain gauge load cells
  - Load cell sensors/single point load cells



## ACT350

Easily Integrate Weight into PLC controlled processes

- Simple and easy connectivity – Out of the box to reading weight in minutes with Custom AOPs, Device Drivers, and Sample Code
- Fast update rate for more accurate control – unparalleled visibility to device status, data integrity, and alarms in automated applications
- PLC Experience is the same throughout the entire range – from 1 microgram to 1,000 tons!



## Good Weighing Practice

GWP® is a global weighing standard that can be applied to new or existing weighing equipment from any manufacturer in any industry and workplace.

- GWP® Recommendation: Science-based qualification to ensure you select the right scale or balance for your process
- GWP® Verification: Unique service certifies the accuracy of new or existing equipment from any manufacturer
- SOP Consulting: Establish or modernize your procedures to integrate balance and scale quality management according to the latest global standards

# Mining Vehicle Operations

## Ensure Accuracy and Reliability

### Truck Scales



- Over 50 years of manufacturing durable weighbridges
- Real lifecycle testing to withstand rugged use
- DataBridge Transaction Processing Software
- Available up to 19' width for off-road haulers

### Rail Scales



- Designed to weigh rail cars safely, accurately, & reliably
- Coupled-in-motion weighing at 3-5mph
- Unattended systems for automated operation
- Numerous sizes and configurations for various cars

### Portable Truck Scales



- Quick and easy transport
- Simple installation
- Inexpensive relocation
- Two frame types available



### Unattended Terminals



- Suitable for truck and rail scales
- Provides custom tickets in remote locations
- Stand-alone, unattended operation
- Works with DataBridge software for easy documentation

### DataBridge™ Software



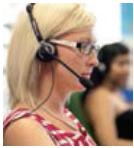
- Integrate your scales and weighing data into your operation
- Reduce transaction errors
- Simplify complex transactions

### POWERCELL® PDX®



- 10-year Comprehensive Warranty
- No junction boxes for superior reliability
- More accurate than competitive digital load cells
- Proven lightning protection

## METTLER TOLEDO's Portfolio of Services



### Equipment Qualification

While Equipment Qualification has long been a mandatory requirement in the pharmaceutical, biotechnology, and medical industries, today many customers in non-regulated environments also see the clear benefits of a qualified installation and calibration procedure.



### Equipment Requalification

Performance qualification certifies that the instrument continues to meet requirements.



### Initial Training

On-site training by METTLER TOLEDO product specialists after instrument installation reduces familiarization time.



### Calibration

Periodic calibration and adjustment guarantees accurate and high quality results.



### Preventive Maintenance

Regular maintenance of your equipment ensures maximum instrument uptime over many years and protects your investment.



### Training

Hands-on training courses run by METTLER TOLEDO experts help you achieve a high level of competence for measurements and for the evaluation and interpretation of results.



### In-House Service

Repair work and instrument system upgrades performed by experienced product service specialists at our METTLER TOLEDO depot repair center often save time and travel costs.



### On-Site Service

Rapid on-site repair by local, well-trained service engineers is readily available whenever you need it. With the premium level service contract, you can expect a professional service visit within hours.

[www.mt.com/mining](http://www.mt.com/mining)

For more information

### METTLER TOLEDO



Canada  
2915 Argenta Road, Unit 6  
Mississauga, Ontario L5N 8G6  
Tel. (800) METTLER  
Fax (800) 786-0042

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