

Stone Three MicroTrace Analyzer™

Real-time grade analyses
without complex sampling



Grade Analyzer: At a High Level

The Stone Three MicroTrace Analyzer™ sets a new standard in on-stream elemental analysis. Engineered for real-time slurry monitoring, it enhances metallurgical control with high-frequency, high-accuracy XRF data. Its rugged, modular architecture and integrated thermal management system ensure reliable performance in demanding plant environments – making it an essential tool for advanced process optimization strategies.

1

No Nuclear Sources

Reduced compliance needs and improved safety.

2

Comprehensive Grade Tracking

Analyze from Feed to Tail.

3

Simple Maintenance

No Specialists Required.

4

Simple Robust Sampling

No Sub Sampling Required.

5

IP66 Rated

for Dust and Water Protection.

6

Smart Clean Cycle

Automated Flushing and Cleaning.

7

SLA Plus

Monitoring & Diagnostics and actionable insight.

8

Seamless Automation

Advanced Process Control

Benefits: Real Time Measurements Unlock



**Recovery
Optimization**



**Mass-Pull Control/
Optimization**



**Reagent Dosing
Optimization**

Stone Three MicroTrace Analyzer™



MicroTrace™ XRF: Main Features

Accuracy

Accurate within 3% of
PGM Tails of 0.4g/t.

Repeatability

±0.04ppm over an Hour.
0.001% Ni and Cu.

Measurement

Minor Elements
Measurements.

Small XRF

Small Compact Size
with a Weight of 17kg.

Service

No Field Serviceable
Parts. Plug in
Replacements.

Peltier Cooler

No Chilling or Liquid
Nitrogen.

Factory

Calibration

Link to existing assays
for drift correction

SmartROC

Remote Monitoring
and Support.

MicroTrace	VS	Multiplexing
Easy, flexible installation.	Installations (Green-/ Brownfields)	Large size, more components. Complicated retrofits.
1m x 1m, 2 m height. Excluding sampler.	Footprint	Can span multiple floors.
~ 5 min updates.	Frequency of Analysis	Delayed results. Poor process dynamics.
Swap probe, keep running.	Redundancy	Probe problem, stops all streams.
Simple system.	Sampling & Transportation	Complex pumps & transport.

Learn more about the **Future of Flotation.**
Request a **Sample Tank.**

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