



GRINDING HEALTH CHECK

Information Pack

Overview

MinAssist has developed a **simple, easy to run, targeted process mineralogy program** to **optimise a grinding circuit**. It is designed to allow an operator to take a quick, easy and cost effective look at the mineralogical controls on grinding efficiency, and identify potential:

1. **COST SAVINGS;**
2. **RECOVERY IMPROVEMENTS;**
3. **RISK REDUCTION THROUGH IMPROVED UNDERSTANDING OF ORE TYPE(S).**

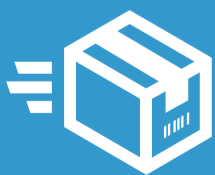
This 'off-the-shelf' program is designed to be run quickly, and to be a simple way to gain economic benefits that do not require major circuit changes, expense or equipment.

What does the program offer?

The two key areas to benefit from this program are in **energy cost savings** and **improved liberation** for recovery. The mineralogy of the ore has a major controlling influence on both of these:

- Grinding can account for **up to 40% of the energy costs** of a concentrator. This program will help operations identify and reduce potential overgrinding.
- The largest single contributor to overall loss of recovery in a flotation circuit is arguably in the **coarse size fractions containing un-liberated target minerals**. This program will help operations identify potential undergrinding, and quantify the liberation and locking characteristics of target minerals.

Advantages of the Program



**OFF-THE-SHELF
CONVENIENCE**



**FAST TURN
AROUND**



**CONCISE & EASY
TO INTERPRET**



**HIGHLIGHTS
COST/RECOVERY
OPPORTUNITIES**

The Options

There are three options in the MinAssist Grinding Health Check for clients to choose between:

Mill Discharge Study



Based on a composite sample of the mill discharge. Potential recovery improvements are identified through understanding the locking and liberation characteristics.

This study requires **15 days** and will result in a report including:

- Identification of the **key ore and gangue minerals**
- Analysis of **liberation and locking** of target ore minerals

\$9,900

[Enquire](#)

Mill Feed Study



Based on a composite sample of the mill feed, the in-situ mineralogy will be examined before milling and any liberation occurs.

This study requires **15 days** and will result in a report including:

- Identification of the **key ore and gangue minerals**
- Indication of **target grain size**
- Key ore mineral **association characteristics**

\$14,900

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Complete Mill Circuit Study



Based on a composite sample of the mill feed, this study will examine the in-situ mineralogy, and will then simulate the mill discharge by crushing to both the current target grind size and either the size above or below this to examine either potential over- or under- grinding.

This study requires **20 days** and will result in a report including:

- **Both Full Reports** - Mill Discharge and the Mill Feed reports
- Identification of possible **over- or under- grinding**
- Insights into **overall circuit efficiency**

~~\$33,900~~
\$29,900

[Enquire](#)

Please note that all pricing is in Australian Dollars.

Contact MinAssist

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