



How to get the most from your IsaMill™

Maintenance training and mechanical audit tour 2023



IsaMill™ client services

Glencore Technology provides IsaMill™ installations with ongoing support to ensure their successful operation. Part of this support includes the offering of technical support on an annual or ongoing basis.

This year, we're launching a Maintenance Training and Mechanical Audit Tour, where our IsaMill™ Maintenance Specialists will be visiting your region to deliver maintenance training as well as mechanical audits.

Maintenance Training

Our IsaMill™ Maintenance Specialist will cover topics like:

- How to record maintenance values.
- Storage and handling of spare parts.
- **Minor inspections:** open up the mill, check and measure rubber wear components, rotate discs as necessary.
- **Normal inspections:** open up the mill, check and measure rubber wear components, replace discs and liners as necessary.
- **Major inspections:** open up the mill, check and measure rubber wear components, replace discs and liners as necessary, rotate or replace shell liner, check and replace rotor fingers and repack the gland.

Eight hours of classroom work is scheduled per group, but you can split the time between the classroom and hands-on training or tailor the content to you needs.

The number of Maintenance Training days on-site can be increased depending on the roster and the number of people who require training.

Mechanical Audit

The Mechanical Audit is intended to identify any existing problems and help you resolve them. Our IsaMill™ Maintenance Specialist can also supervise typical maintenance routines and provide recommendations.

Our IsaMill™ Maintenance Specialist will:

- Check all fluids levels, including lubrication oil for bearings, hydraulic system, gearbox system, and motor if necessary.
- Once the mill is open, check for wear on rubber components: NDE flange, discs, spacers, etc.
- Inspect shell liner and rotate it as required.
- Remove and check rotor assembly and extended discharge ring, strip mill to the gland.
- Inspect gland assembly and replace packing and components as necessary.
- Undertake any bearing work identified by vibration analysis.
- Check shaft alignment if laser alignment equipment and operator are available.
- Check hold-down bolts are torqued correctly.
- Strip and inspect couplings.
- Clean lubrication systems.
- Inspect IsaCharger™ for wear.
- Inspect the gland water system.

Proposed schedules

Maintenance Training

7:00 am	• Arrival on site
8:00 am	• Introductions
8:30 am	• Training: Component identification and wear measurements
10:30 am	• Training: Gland and agitator shaft
12:30 pm	• Lunch break
1:00 pm	• Training: DE and NDE flange assemblies
3:30 pm	• Training: Q&A session

Mechanical Audit (allow one day per IsaMill™)

7:00 am	• Arrival on site, access IsaMill™
8:00 am	• Check gland water flow, oil levels and other fluids
10:00 am	• Open the mill, inspect discs, spacers, rotor • Strip mill to the shaft
12:30 pm	• Lunch break
1:15 pm	• Check DE flange assembly, gland, etc.
3:30 pm	• Maintenance records and Q&A



Avoid the costs associated with a dedicated maintenance call-out and join the tour! Get your training straight from experts who service more than ten M10Ks each month.

Costs

All days on site, including inductions, medicals, and safety requirements to access site incur the per day rate. The number of days on site will depend on the number of IsaMill™ installations, your specific needs and the size of your crews.

Maintenance Tour	Rate (AUD)
IsaMill™ Maintenance Specialist per day– as part of the maintenance tour	\$ 1,470.00
Airfares	–
Accommodation	–
Standard Call-out	Rate (AUD)
IsaMill™ Maintenance Specialist per day – standard call-out	\$ 3,000.00
Airfares	As incurred + 20%
Accommodation	As incurred + 20%

Preparation and requirements

- Our IsaMill™ Maintenance Specialist will **supervise** the on-site maintenance activities.
 - You'll need to provide **suitably qualified on-site labour** comprising operators, fitters, electricians, trades assistants/labourers and crane operators to carry out the operations and maintenance activities under the direction of the IsaMill™ Maintenance Specialist.
 - All on-site **crane** requirements will need to be supplied.
 - Check your **consumable items** and IsaMill™ **spare parts** ahead of the tour to make sure you have what's needed available – we can help you plan this.
 - You'll need to supply all **lubricants**, including **anti-seize**, and **hydraulic oils**.
 - We'll need your IsaMill™ to be operational when the IsaMill™ Maintenance Specialist arrives – this will provide the opportunity to see how the gland water is flowing and to observe all running conditions.
- We will need the following reports supplied at least two weeks in advance:**
- **Maintenance inspection reports** for at least three previous inspections for analysis.
 - The last three **bearing vibration analysis reports**.



To book your place in the tour, contact our Aftermarket Engineer Lilly Sanchez – lilly.sanchez@glencore.com.au or +61 7 3833 8504



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