

# Reduced machine downtime through modular track frame maintenance

LIEBHERR

Mining

## Situation

- **Location:** Batu Hijau mine, Sumbawa, Indonesia
- **Application:** open-pit copper and gold mining
- **Operating conditions:** severe-duty tropical open-pit environment with blasted rock, gravel, sandy topsoil, wet-season mud, uneven ground and high undercarriage loading
- **Equipment:** four R 9350 excavators
- **Component:** Liebherr track frame module

## Challenge

The track frames on the R 9350 excavators at Batu Hijau had experienced excessive wear and damage due to their extensive use in the harsh conditions on site. This made it difficult to correctly install new track rollers and track guides, which created a significant maintenance challenge. To remedy this conventionally, the onsite technicians would have had to remove the track frames from the machine, transport them to the onsite workshop, strip them of their components, turn them over and complete major welding and machining work. This would have kept each excavator from working for several weeks.

A third-party supplier offered to supply second-hand bare frames with loose components. However, these frames still required assembly before installation, creating additional labour requirements, installation risk and the potential for hidden costs.

## Field results

**≈ 4 weeks**

**of machine downtime avoided per R 9350**

Compared with conventional onsite repair of track frames

**20 days**

**of assembly work avoided per track frame**

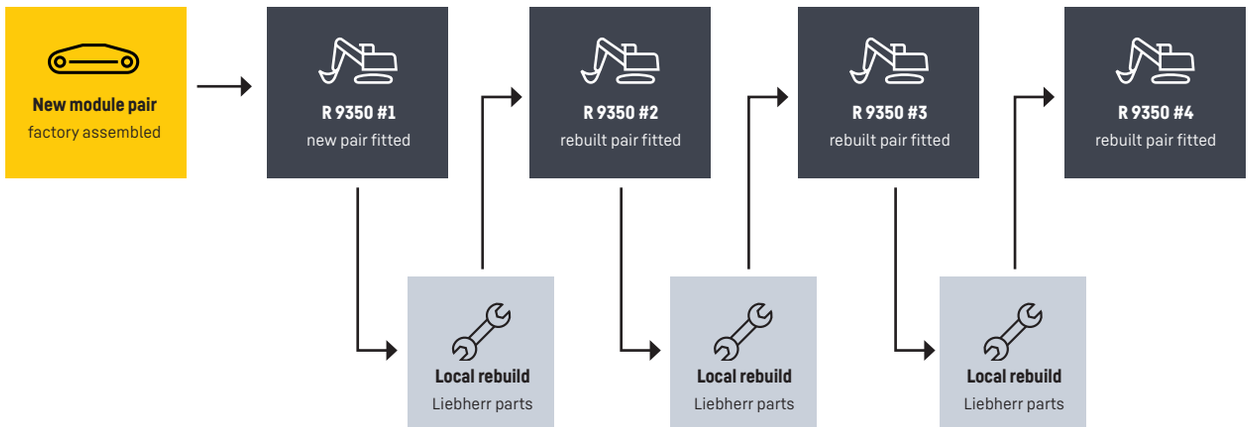
Compared with the third-party option requiring four technicians working for five days

**≈ 75M IDR**

**of assembly work avoided per track frame**

According to Liebherr‘s proposal estimate, based on Indonesia‘s 2026 labour rates

## The Liebherr advantage




Rather than supplying a bare frame and loose components requiring significant assembly, Liebherr provided a pair of complete, pre-assembled track frame modules. The original track frames were removed and replaced with the Liebherr modules, which were designed to suit the customer's site conditions and maintenance requirements and were also supported by Liebherr's comprehensive warranty coverage. The Liebherr's solution avoided approximately four weeks of machine downtime – the time previously took to repair the track frames on Batu Hijau's R 9350 excavators using conventional means.

By using Liebherr's solution, the removed track frame modules are rebuild in the local workshop using Liebherr components, with support from the Liebherr onsite team. Once completed, they can be used on the next R 9350, allowing the process to be repeated across the customer's fleet of four excavators, thus creating a reusable modular maintenance approach that reduces assembly work and simplifies maintenance planning. The genuine Liebherr components, technical support and agreed warranty coverage included within Liebherr's track frame solution also help to support consistent job quality and reliable maintenance execution.

## What this means for your operation

- **Greater installation certainty with a factory-assembled OEM solution**
- **Tailored solution for site and fleet requirements**
- **Reduced labour and assembly work**
- **Increased machine uptime**
- **Lower execution and installation risk**
- **More predictable maintenance planning**

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