

Optimising Mining Operations with TECO's Advanced Drive Solutions - TECO Electric Motors Australia and New Zealand

Canonical:

<https://electricmotors.teco.com.au/challenges/optimising-mining-operations-with-tecos-advanced-drive-solutions/>

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Optimising Mining Operations with TECO's Advanced Drive Solutions

Innovation and Excellence in the Mining Sector

Location : Gold Mine, Africa

Industry : Mining

TECO customer at a gold mine in Africa faced challenges with their existing milling systems, which affected reliability and efficiency. They needed a robust, high-performance solution to enhance their operational capabilities and ensure smooth, uninterrupted processes.

Solution:

TECO Australia joined the successful commissioning of the TECO MV510-JB0/270 Drive, custom-tailored for a 2800kW, 11000V application. This project, conducted from February 26, 2024, to March 14, 2024, highlights our commitment to delivering innovative and reliable solutions in the mining sector.

Project Highlights:

Drive Details: TECO MV510 11000V, including both SAG and BALL Mills

Commissioning Phases:

1. Initial Setup and Testing:

Rigorous site induction

Visual inspections

Precharging of power cells

Extensive safety and functionality testing from transformers to high-voltage systems

1. Operational Testing:

No-load testing for SAG and Ball Mill motors

High-voltage switchgear testing

Fine-tuning of the MV510 drive for optimized performance

1. Final Phase and Training:

Commissioning the SAG Mill motor

Comprehensive system operation checks

Intensive training for the client's operations team to ensure smooth handling

Benefits to the Customer:

Enhanced Operational Capabilities: The integration of the MV510 drive has significantly improved the reliability and efficiency of the milling processes.

Optimized Performance: Fine-tuning and operational testing ensured the drive operated at peak performance, maximising productivity.

Comprehensive Training: Our intensive training program equipped the client's operations team with the skills needed for smooth, efficient handling of the new system.

Results:

The successful commissioning of the TECO MV510-JB0/270 Drive has optimized the gold mine's milling processes, enhancing reliability and efficiency. This milestone project demonstrates TECO's dedication to innovation and excellence in the mining sector, providing our customers with the advanced solutions they need to thrive.

For more information on how TECO can help improve your operations, please [Click here](#)

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