

Converting higher velocity to higher productivity

Challenge

A copper mine in Peru needed to improve productivity. To achieve this, a drilling solution that increased drill velocity and reduced drilling time could increase productivity by up to 10%.

Approach

ASSESS THE SITUATION

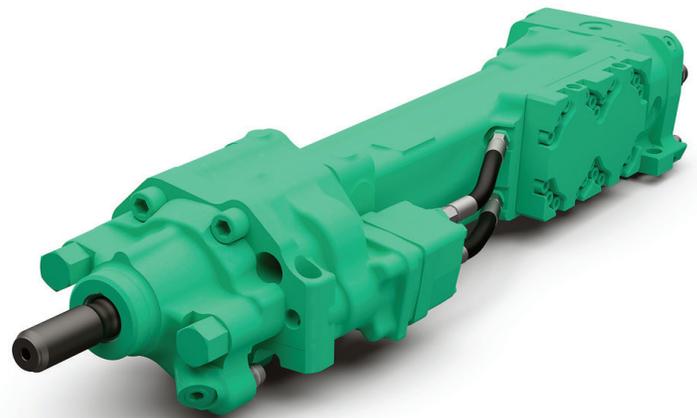
A team of Komatsu Mining experts visited the site in order to gain a comprehensive understanding of our customer's entire operation. Working closely with the site's managers and operators, they conducted an assessment that included:

- Application-specific investigation
- Equipment analysis
- Procedure review

MAKE A RECOMMENDATION

Our team reviewed the research, and determined the customer could benefit from a drill that offered better penetration and higher velocity rates. The mine agreed to validate the Montabert HC-110 for drill times, operating costs and maintenance.

- Ease in conversion
- Improved penetration rates



Gather specific job site data

To ensure the tests on production drilling and drifting were performed successfully, a technician, drillmaster and operator were deployed to the site.

First, the team gathered information on the usual operating conditions, among them:

- Pressure and temperature
- Defining specific areas and equipment
- Operators
- Types of rock drilling tools
- Rock abrasiveness

Test the conversion

With initial data collected, the team applied our Montabert HC-110 drifter conversion and collected the same data for comparison to previous procedures and equipment.

The pre-conversion data confirmed low production levels when compared to post-conversion data.

By helping crews set and track methods to improve efficiency, we were able to help the operation achieve its goal of increased productivity.



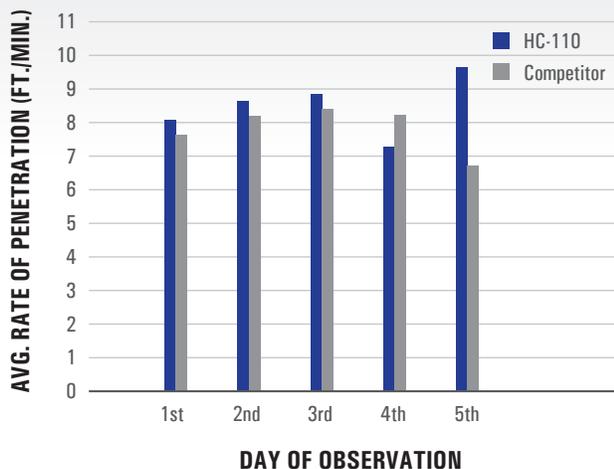
Results

After converting to the Montabert HC-110 drifter, the copper mine experienced the following improvements:

- Drill velocity increased by more than 10%
- Reduced drilling time by 22%

This led to the opportunity for the customer to:

- Drill patterns with more holes
- Increase amount of time available to charge explosives



THE MINE NOW HAS THE POTENTIAL TO MEET ITS GOAL OF INCREASING PRODUCTIVITY BY ROUGHLY 10%.*

*When compared to other equipment and previous procedures.

LEARN MORE ABOUT CONVERTING TO MONTABERT DRIFTERS.

Contact your Komatsu Mining service rep or visit mining.komatsu for more information on drifter conversions.