



PROBLEM SOLVED™ PAPER

SOLUTION: Martin® Trac-Mount™ Idlers and Martin® Support Cradles

INDUSTRY: Mining

LOCATION: Newmont Mining Corporation
Mineria Yanacocha Mine, Peru



New conveyors at a Peruvian gold mine include modular, slide-in cradles to support the belt.

PROBLEM

A major expansion at Newmont Mining Corporation's Mineria Yanacocha Gold Mine in Peru included an innovative idler design developed by Martin Engineering in conveyor transfer areas. The mine's high-capacity conveyor system faces continuous loads and heavy impact from 8-inch minus lumps of copper ore.

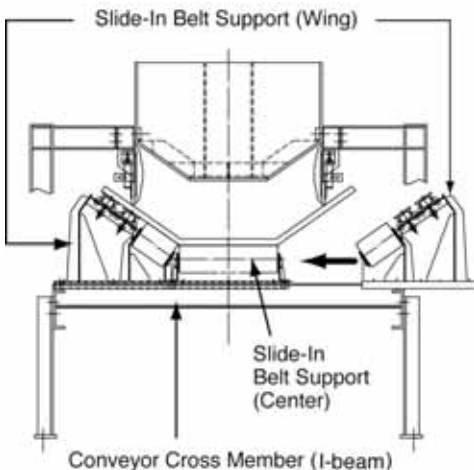
SOLUTION

Martin® Trac-Mount™ Idlers and Martin® Support Cradles

To withstand this impact, Martin Engineering designed a special belt support system composed of picking idlers and Martin® Support Cradles. The unique feature is that the support system is designed to slide in and out for service on the I-beam cross members of the conveyor structure. This ensures the conveyors' load zones have a rugged, reinforced structure to withstand loading forces, and allows the installation of the support cradles on the conveyor structure without use of a crane.

RESULTS

This unique design developed by Martin Engineering also makes it possible to service the belt support system during brief outages from the mine's "24/7" operating schedule.



The belt support system features components that slide into position on the conveyor's cross members.

Martin® Support Cradle is protected by U.S. Patent No. 4,898,272.