



ORANGEREPORT

METALWORKING INDUSTRY

Punch-Outs from Roll-Formed Storage Racks at Ridg-U-Rak Move Easily and Safely to Hopper Bins Thanks to Eriez® Magnetic Conveyors with Tuf-Trac™



ERIEZ TUF-TRAC™ CONVEYOR

Problem:

Ridg-U-Rak® processes more than 50,000 tons of roll-formed storage racks a year. Creating the vertical and horizontal-shaped units that ultimately form a storage rack system starts with coils of blank steel or galvanized steel, which is flattened out and fed into a hydraulic or mechanical press. The press punches holes into the steel strip prior to being formed into the rack system components. The punched-out slugs fall onto a network of conveyors that move the excess scrap throughout the plant and into awaiting salvage bins. Ridg-U-Rak had to act quickly when they began experiencing problems in an area of the plant where the punch-outs are dropped below floor level onto a typical hinged steel belt conveyor that lifts them into awaiting scrap bins. The steel belt conveyors in place featured hinged apron plates with rollers, connecting pins and welded side tabs. The smaller slugs being transported on the belt were constantly jamming between moving belt components, causing breakdowns.

Solution:

Ridg-U-Rak turned to Eriez® conveyors, which feature permanent ceramic magnets inside a liquid-tight housing. They have a unique internal track system called Tuf-Trac™, designed for low maintenance, quiet operation and long service life. The punch-outs now glide along the stainless steel slider plate and there are no moving external parts to jam, break or endanger plant personnel. Except for an externally-mounted drive motor, the unit is self-contained, and the conveyor mechanism is completely enclosed and not exposed to the material being conveyed. Ridg-U-Rak now utilizes Eriez conveyors throughout their plant.



ERIEZ TUF-TRAC™ CONVEYOR IN ACTION AT RIDG-U-RAK

Result:

Ridg-U-Rak is pleased with the durability and performance of their Eriez conveyors. They report that maintenance costs have decreased and machine downtime due to conveyor issues has been virtually eliminated.

Note: Some safety warning labels or guarding may have been removed before photographing this equipment.

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