

DRX™ 3000 Impact Bed Replaces Rollers for Less Maintenance, More Productivity at Quarry

Industry

Aggregate

Application

Crushed Stone Quarry

Product

DRX™ 3000 Impact Bed

Objective

Better impact protection, less maintenance

Conveyor Detail

60" belt width, carrying large rocks weighing up to 670 lbs.



Problem:

A crushed stone producer was replacing impact rollers every month due to the large size and weight of the material falling on the belt at one of its quarries. Sometimes, this equated to one roll a week being replaced at a cost of \$200-\$300, plus the time lost and service performed by the maintenance team. The producer also experienced belt sag because of the spacing between the idler rolls. Belt sag affected the ability to seal and contain the material being conveyed.

Solution:

The producer decided to replace the impact rollers with a Flexco DRX™ 3000 Impact Bed. The impact bed was designed to protect the belt and the product because of the exclusive Velocity Reduction Technology™. This technology deadens the impact energy and reduces reaction forces for less rebound and material degradation. The impact bars on the DRX 3000 have a unique inverted design that acts as a first level of impact defense, while channel crossbeams efficiently transfer impact energy to the isolation mounts. The isolation mounts provide additional force reduction by absorbing impact energy and minimizing transmission back to the belt. Angled impact bars also aid in centering the material on the belt to help keep the system on track.

Result:

Monthly maintenance trips to the impact zone have not been necessary since installing the DRX Impact Bed. The producer has saved both time and money by installing appropriate impact protection. The impact bed was also more effective at sealing the load and containing the materials, resulting in less spillage and maintenance.