

Waste Recycling Plant Reduces Mess with Rockline® Belt Cleaners

Industry

Waste Recycling

Application

Waste Conveyor

Product

Rockline® EZP Precleaner

Objective

Reduce fugitive carryback material, and labour time associated with clean up.

Details

Belting: 1.8 m wide, 12 mm thick, with 3 mm x 2 mm rubber top/bottom covers over fabric construction

Drive Pulley Diameter: 350 mm

Belt Length: 10 m between end pulley centres

Configuration: straight conveyor inclining upward at 10° feeding onto another conveyor, troughed at 25°

Typical Load: granite crushed to -200 mm, industrial refuse, metal, aluminium, glass, plastic @ 25 tonnes/hour

Typical Speed: 1.3 m/sec



Problem

Conveyors at a London waste recycling plant experienced considerable carry back. The existence of carryback created considerable mess in the buildings which required regular cleanup maintenance. Clean up was difficult given the tight space around the conveyors, and caused the plant to be shut down regularly. A range of cleaning products had been previously tried, with very little success.

Solution

Flexco installed a Rockline® EZP1 Primary belt cleaner to the head pulley. The faceted profile of the ConShear™ blade sets it apart from ordinary solid blades. Conventional blades lose their cleaning edge and become dull and bull-nosed. But the ConShear blade renews its edge as it wears. The blade forms a new shearing edge once wear reaches each new faceted blade section, resulting in continuous cleaning efficiency throughout the life of the blade. The cleaner was fitted with a self adjusting mechanism to ensure constant blade contact with the belt.

Result

With Rockline® cleaners fitted to the head pulleys, material carryback was reduced considerably around the conveyors. This has allowed the plant to run more efficiently, take a pro active approach to maintenance shut downs, and has reduced the capacity for accidents associated with waste material lying under conveyors.