

# THE FENNER DUNLOP NEWS

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## ROCKY MOUNTAIN RECYCLING WAS TOLD IT COULDN'T BE DONE.

‘Give us a proposal to design and build a conveyor system for processed scrap steel’ – that’s the request Fenner Dunlop’s Denver service branch got from the Rocky Mountain Recycling plant in August 2012.



The Fenner Dunlop ECS team used two cranes to set the metal apron conveyor in one assembled piece that weighs 105,000 lbs. The tail of the conveyor had to fit into a concrete bunker with only ½” of clearance on each side.



**The end results were impressive. The new Fenner Dunlop system handles heavy materials at a production rate of fifty tons/hour, increasing Rocky Mountain Recycling’s scrap steel output by approximately 40 percent.**

Rocky Mountain Recycling processes construction demolition materials like I-beams, pipe, rebar, fencing and steel plates – and had just purchased a state-of-the-art shear from Italy to break scrap steel into “regularly irregular” pieces weighing as much as 50 pounds/cubic foot.

Fenner Dunlop’s Engineered Conveyor Solutions team came up with a conveyor system that:

- ▶ Consists of the following – all 30 feet off the ground:
  - an 85-foot long, 34 degree inclined metal apron conveyor
  - a vibrating dirt screen that rotates 180 degrees
  - a 32-foot picking conveyor
  - a 200-foot tripper conveyor with 9 programmable discharge stations
- ▶ Has the non-flowable, very heavy material make two 90 degree turns before discharge
- ▶ Fits in a small space between the shear and the rail spur

They needed a conveyor system in a relatively small space to handle a tough load. It had to be built and installed while the plant remained operational throughout construction, presenting many technical and engineering dilemmas.

When Rocky Mountain Recycling asked 12 vendors for proposals, 11 said it couldn’t be done. Fenner Dunlop, on the other hand, viewed this difficult task as a welcome challenge. A representative from Rocky Mountain Recycling would later say, “Fenner Dunlop was the only candidate willing to come up with a dynamic resolution to fix our unique and arduous problems.”

Fenner Dunlop took on a project that was deemed impossible... and created a real life, working **Solution.**



*To learn more about Fenner Dunlop Engineered Conveyor Solutions, call*  
**(800) 661-2358**

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