

## 1-On-2 Feeding PRB Coal to Two Crushers

### Industry

Powder River Basin Coal Mining

### Application

Run of mine coal is fed to two large roll crushers via a transfer chute that provides an accurate and controllable split of the proportion of coal flow fed to each crusher.

### Material

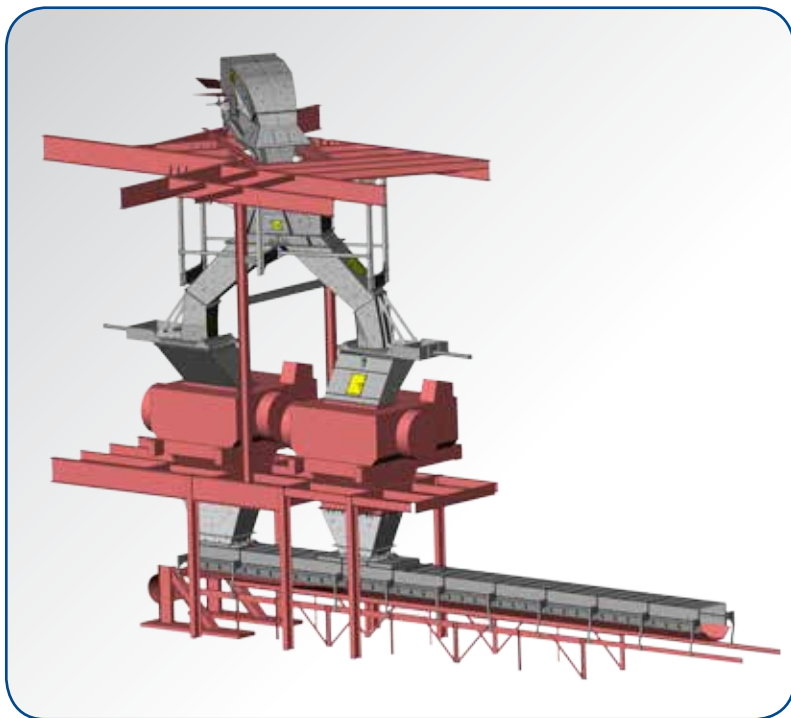
Powder River Basin Coal

### Objective

- Provide a system capable of delivering an accurate and controllable split of material flow
- Deliver coal to each crusher by evenly spreading across the full feed width of each crusher

### Transfer Detail

Feed belt is a 72" wide 8,000 tph system feeding two roll crushers.



### Challenge

The mine needed a system capable of controlling flow to their two large roll crushers, which are the life line for feeding the mine's rail car loading operations. In addition to being capable of feeding either crusher individually and providing a controllable split of the material to both crushers, the system had to provide an even feed of material across the full feed width of each crusher.



### Flexco Solution

Flexco designed and fabricated a 1-on-2 transfer chute with Tasman WarajayTechnology™ which included removable chrome carbide overlay wear liners.

The system features Flexco's proprietary bucket diverter technology coupled with a spreader section in front of each crusher.

### Result

The new Flexco transfer chute provides the operational flexibility this high-productivity mine requires. The mine is now able to control the split of material to both crushers. The chutes also allow the material to be evenly distributed to the crusher, preventing uneven wear of the rollers.