

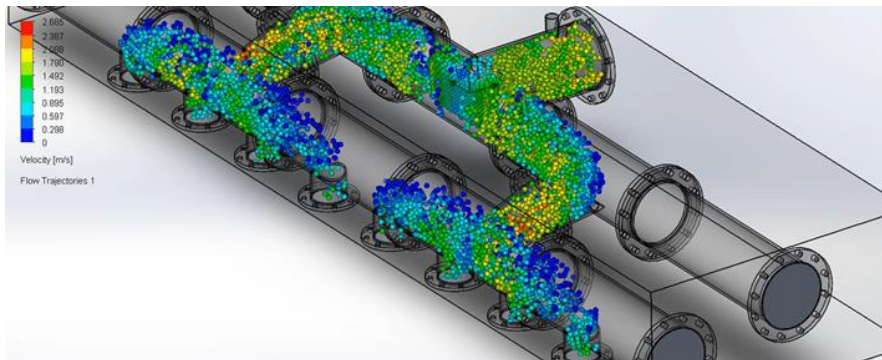


DELKOR's specialized iron ore feeder **MAX-F^eED**

Reducing costs while increasing performance of vacuum belt filters



Utilizing advanced CFD modelling to analyze feed flow patterns with a focus on improved flow distribution and abrasion/wear within the feeder



In order to achieve consistent cake characteristics = proven performance!

BEFORE



AFTER



Reduced costs and increased performance

Case study

After retrofitting our specialized MAX-FeED feeders, onto five belt filters supplied by another OEM at an iron ore site in Australia, significant improvements were seen, both in throughput (66 % increase) and consistency of filter cake characteristics:

- Feed flow increased from 300 to 500 m³/h
- Cake thickness difference across the belt width reduced from more than 10 mm to within 5 mm
- Moisture content was consistent across the entire width of the belt
- Filter cake at the edges were dewatered to the same degree as the rest of the cake

Improved performance and advanced features

Advanced features incorporated into MAX-FeED overcome some of the challenges with existing feeders:

- Feeder design optimized for the process flow pattern and maximized slurry distribution across the belt width through 3D CFD modelling, which minimizes inconsistency in feed flow patterns and vacuum short circuiting
- The adjustable weir system, which provides a wider operational flow range and better handling of flow conditions, prevents fluctuation or surging of slurry flow
- The adjustable spigot nozzle and distribution screens, designed to handle larger throughput and scalability, overcome the limited throughput of conventional feeders
- The front and rear sloped feeding system also provides optimal feeder performance at high throughputs

Aftermarket & Service

- Local support team, incl. Sales, Engineering and Servicing
- Local warehouse for operational spares supply and quick delivery
- Site audit, study, installation and commissioning support
- Comprehensive training on our equipment and product to operator
- Throughput and performance improvements on horizontal belt filters and thickeners
- Local test work facility from bench to pilot scale to meet your dewatering requirements



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