

CASE STUDY

Product: HFP Screening Application

Region: Chengde Area, China

Technology Groups: Screening

Companies: Multotec Screening Systems (Tianjin) Co. Ltd



MULTOTEC

Problem: The customer was experiencing low screening efficiency in its multi-deck high-frequency screening machines. The key challenges they were experiencing were, screening efficiency was only 59.8%, inefficient screening was negatively affecting downstream operations and higher-than-desired load on the ball mill, resulting in increased grinding volume and potentially higher operating costs.

Key Project Outcomes

- Significant increase in total production
- High screening efficiency
- Economic benefits
- Long lifetime

Multotec's solution: MSS supplied HFP screening panels

(1045 × 400 mm, 0.15 mm aperture) to replace the existing domestic screening panels. With features such as

- High wear resistance and longer service life.
- Open area greater than 30%, improving screening efficiency and capacity.
- Inverted conical aperture design reduces blockage and improves material flow.
- Special material formulation suitable for long-term use in water and oil-based media.
- Integral molding technology provides:
 - High tensile strength
 - Better screen tensioning
 - Improved material rebound
 - Higher particle penetration through the screen
- Screening efficiency increased to 68.1%, ball mill load decreased significantly, and the panels showed no damage after two months on trial, delivering strong operational and economic benefits.