



QUARRYING | MDS M413 PROCESSING OVERBURDEN

In the picturesque landscape of Stavanger, Norway, a quarry faced a significant challenge in efficiently processing overburden material.

The MDS M413 Heavy Duty Trommel became the solution to separate waste fines, create a saleable mid-product, and generate a clean oversize material for crushing.

Challenge

The customer's primary challenge was to effectively separate materials, creating a clean oversize product for crushing, a saleable mid-product, and waste fines. Previous attempts using a different scalping screen resulted in wet and sticky fines carrying over to the mid-product. Additionally, some oversize material proved too large for the crushing operation, leading to blockages and downtime.

M413 Heavy Duty Trommel Solution

The MDS M413, equipped with a 450mm (18") tipping grid, drum cleaner provided a tailored solution. The fully welded fines drum and changeable screens in the mid-product ensured efficient material separation. The drum cleaner addressed the issue of wet and sticky fines, keeping the openings clear. The tipping grid

eliminated oversize material larger than 450mm (18") from the crushing operation. This solution allowed the 175-450mm (7"-18") material to be transported to a separate area for processing through a jaw crusher and scalping screen.

Job Requirements

- Process the Quarry overburden material
- Remove the sticky fines
- Produce a saleable mid-product
- Leave a clean oversize material to be crushed



The M413 is ideal for contractor fleets and can operate in quarries cleaning dirty material up to 600mm (24") in size. The M413 can also recycle construction and demolition waste (C + D). It comes complete with three fold out stock piling conveyors and it's compact design makes it ideal for regular transport to different sites.



Location: NORWAY

Machine: MDS M413

Application: PROCESSING OVERBURDEN

Throughput: 200-250tph

Machine Specs:

- Engine, CAT 2.2 Tier 4 Stage 5 Diesel
- Fines, 75mm (3") Fully Welded Drum + Drum Cleaner
- Mid-Product, 175mm (7") Changeable Screens
- Tipping Grid with 450mm (18") Openings





Key Benefits:

1. **Reduced Wear and Downtime:** The M413 delivered a clean oversize product for crushing, reducing wear on the crushing operation and minimizing downtime due to blockages.
2. **Efficient Material Separation:** The drum cleaner effectively separated the 75mm (3") waste fines, ensuring a clean mid-product and oversize for further processing.
3. **Versatility and Adaptability:** The changeable screens and tipping grid provided versatility, adapting to the specific sizing requirements of the customer's operation.
4. **Less Blockages and Downtime:** The elimination of oversize material larger than 450mm (18") from the crushing operation resulted in fewer blockages and increased operational efficiency.

Conclusion:

The MDS M413 Heavy Duty Trommel proved to be a reliable and efficient solution for the customer in Stavanger, Norway. By addressing the challenges of material separation and oversize management, the M413 not only enhanced the overall productivity of the quarry but also delivered a clean, sized material for the crushing process.