



QUARRYING | M413 PROCESSING OVERBURDEN

A Customer's quarry in Austria contained a large amount of un-used overburden material that needed to be processed.

Challenge

The overburden material that had been previously classed as waste was taking up a large area of the quarry. This was making it difficult for the customer to expand. They needed to process this material to access a new area of the quarry, but they knew there was also a lot of good useable aggregates contained in the overburden.

M413 Heavy Duty Trommel Solution

Our MDS M413 offered the customer a unique solution to processing the overburden material. The 80mm (3") fully welded drum removes the fines



material from the overburden and the drum cleaner means the customer can continue to run even when they encounter very sticky clay-bound material. The heavy-duty design means the M413 can accommodate large in-feed material up to 600mm without the need to pre-process and a changeable mid-product screen gives the customer the versatility to make different sized saleable products.

Job Requirements

- Process the Quarry overburden to accommodate quarry expansion
- Create a clean over-sized product that can be further processed by a crusher without causing blockages and excessive wear
- Produce a mid-product correctly sized for direct sale



The M413 is ideal for contractors 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: AUSTRIA

Machine: MDS M413

Application: PROCESSING OVERBURDEN

Throughput: 200-250 TPH

Machine Specs:

- CAT 2.2 Tier 4 Stage 5 Diesel
- Fines, 80mm (3") Fully Welded + Drum Cleaner
- Mid-Product, 250mm (10") Changeable screens
- Hopper Extension + Deflector Plates



Key Benefits:

- 1.The Fully welded drum and drum cleaner combination helps to keep the openings clear in all conditions. Meaning efficient screening all year round even in the stickiest material.
- 2.Extension plates on the feed hopper increase the capacity to accommodate a larger excavator bucket and deflector plates help protect the engine cabinet from any accidental spillages.
- 3.Changeable screens in the mid-product drum gives the customer flexibility in the size of their material. Allowing for changes in the top size of their mid-product and bottom size of the oversize material

Conclusion:

The M413 gave the customer a solution to processing their overburden. Scalping screens had been tried previously but failed because the large material caused excessive wear and the screens would blind over in the sticky

clay-bound material. By effectively processing the overburden, the customer was able to minimize waste and access new areas of the Quarry.

