



AGGREGATES | MDS M412 SEPARATING CLAY MATERIAL FROM ROCK

The M412 Heavy Duty Trommel with chassis riser is separating clay material from rock at 75mm+ (3") that is then sent to a crusher to produce road base material.

The customer was tasked with producing a usable road base material from a large amount of excavated rock and dirt.

Challenge

The customer faced a significant challenge in the form of a large quantity of excavated rock and dirt. They needed to transform this material into usable road base material but were hindered by the high clay and fines content present in the excavated material that was unsuitable for road base. They were also limited by the amount of room available to process the material on-site.



M412 Heavy Duty Trommel Solution

The MDS M412 Heavy Duty Trommel, became the ideal solution for the customer's predicament. This mighty machine was designed to handle challenging materials, making it an excellent choice for processing the excavated rock with high clay and fines content.

Job Requirements:

- Process the excavated material without blocking the site access road
- Remove the dirt and fines, leaving only clean aggregate for the crusher



The MDS M412 Mobile Track Trommel, the smallest of our range is perfect for screening everything from lightweight materials to recycling hefty demolition waste. With the ability to handle material as large as 600mm (24") in height, it's equally adept at cleaning dirty quarry material.



Location: GERMANY **Machine:** MDS M412

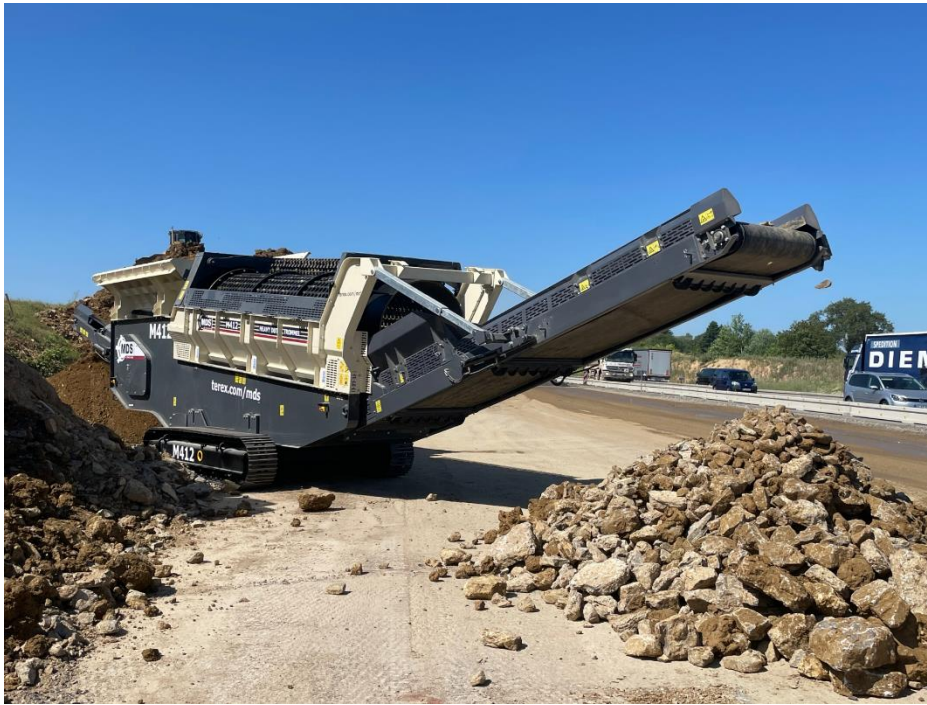
Application: CLAY MATERIAL

Throughput: 200-250 TPH, Fuel Efficiency 8 L/hr

Machine Specs:

- CAT 2.2 Tier 4 Stage 5 Diesel Engine
- 75mm (3") Fully Welded Drum with Drum Cleaner Attachment
- Chassis Riser





Key Benefits:

1- Fines Separation: The MDS M412 Trommel demonstrated exceptional fines separation capabilities. It effectively isolated clean rock at 75mm and larger from the fine material, even in the presence of heavy clay contamination. The incorporation of a drum cleaner mechanism ensured that the trommel openings remained clear, maintaining consistent performance.

2.Space Optimization: The M412's innovative design contributed significantly to space optimization. Its product belts offered both front and rear discharge options, providing flexibility in material handling. Additionally, the trommel's feed hopper could be side loaded, allowing the machine to operate in close proximity to the material stockpile. This feature, combined with the chassis riser, resulted in a relatively small footprint, making efficient use of the limited on-site processing space

Conclusion:

The installation of the MDS M412 Heavy Duty Trommel with chassis riser proved to be the perfect solution for the customer. Not only did it efficiently recover clean rock from the excavated material, but it also addressed the challenge posed by the high clay and fines content. The machine's fines separation capabilities, coupled with its space-optimized design, resulted in a highly efficient and productive solution.

By choosing the MDS M412, the customer achieved their objective of producing high-quality road base material, demonstrating the machine's exceptional performance in handling demanding materials. The successful implementation of this solution highlights the effectiveness and reliability of MDS heavy-duty trommels in challenging industrial applications.

