



QUARRYING | MDS M515 PROCESSING LIMESTONE

A limestone quarry in Texas, USA, faced the challenge of meeting very specific state specifications for Rip Rap production while maintaining a high tonnage output. The customer required a reliable solution that could produce various sizes of Rip Rap efficiently and meet the stringent Texas State specifications.

Challenge

The challenge was twofold - achieving specific state specifications for Rip Rap 0-6" (0-152 mm), 6"-12" (152-305 mm), 12"-18" (305-457 mm), 18" to oversize (457 mm and above) and maintaining a high tonnage output according to project requirements.



M515 Heavy Duty Trommel Solution

The MDS M515 Heavy Duty Trommel was identified as the optimal solution for the limestone quarry's requirements. This robust machine had the capability to produce the required specifications to meet Texas Department of Transportation (TDOT) standards while ensuring a high tonnage capacity.

Job Requirements

- 0-6" (0-152 mm) Fines Product
- 6"-12" (152-305 mm) Product on mid conveyor
- 12"-18" (305-457 mm) Product on Oversize Conveyor
- 18" (457mm) to Oversize Product



The MDS M515 Heavy Duty Trommel can handle large feed loads of up to 20T in its massive 12.6m³ (16.5yd³) hopper, taking up to 800mm (32") size rocks in the feed. This unit offers a different screening mechanism to regular screens, allowing it to effectively clean rocks and screen materials. It has a rotating drum that tumbles and agitates the material inside, allowing it to break impurities from the rocks.

Location: Texas, USA

Machine: MDS M515

Application: PROCESSING LIMESTONE

Throughput: 450 TPH

Machine Specs: 6" (152 mm) Heavy Duty Screens, 12" (305 mm) Heavy Duty Screens, and an 18" (457 mm) Tipping Grid



Key Benefits:

- 1. Tipping Grid Functionality:** The inclusion of an 18" (457 mm) Tipping Grid allowed the production of a sellable product of 18" + oversize, meeting specific state specifications.
- 2. Tonnage Capacity:** The M515 efficiently kept up with the project tonnage requirement of 400 TPH, ensuring a consistent and reliable production rate.
- 3. Multiple Sellable Materials:** The MDS M515's capability to produce 0-6" (0-152 mm), 6"-12" (152-305 mm), 12"-18" (305-457 mm), and 18" (457mm) + oversize materials meant the quarry could generate four sellable products meeting TDOT standards.

Conclusion:

The customer expressed satisfaction with both the production output and the quality of the Rip Rap produced by the MDS M515. The unique combination of being able to produce multiple sizes and meet specific state specifications with one machine set the M515 apart in the market. The successful implementation of the M515 in this limestone quarry demonstrated its versatility and efficiency in addressing complex requirements for Rip Rap production.

