



## RECYCLING | MDS M412 IN CONCRETE DEMOLITION

### A UK RECYCLING YARD USES AN MDS M412 HEAVY DUTY TROMMEL TO PROCESS CONCRETE DEMOLITION WASTE

#### Challenge

The Customer had no way to regulate the size of material that was being dumped at their site, so there were often large pieces of concrete up to 600mm (24") in size. The material was also contaminated with steel which had previously caused issues ripping feeder belts on their other equipment.

#### Job Requirements

- Remove the fines material to leave clean concrete to be fed to a crusher
- Handle in-feed material up to 600mm (24") in size
- Process material all-year round



#### M412 Heavy Duty Trommel Solution

The MDS M412 provided the perfect solution for the customer to recycle this material. Most scalping screens utilize a belt feed system which is susceptible to damage from heavy material and steel contamination. The MDS however features a unique Hardox lined reciprocating feeder that can handle the harshest of material without fail.

The Drum cleaner works to keep the openings of the trommel clear all year round ensuring that the customer can continue to process throughout the winter and periods of heavy rain, when other screening systems would 'blind' over.



The M412 Track Trommel is ideal for screening from light material to recycling heavy demolition waste. This machine can also operate in the quarry, cleaning dirty material up to 600mm (24") in height. It comes complete with the fold out stockpiling conveyors and ideal for moving around the quarry and from one site to the next.



**Location:** UK

**Machine:** MDS M412

**Application:** Demolition Concrete

**Throughput:** 250 - 300 TPH, 7 -8 L/hr

#### Machine Specs:

- Diesel CAT 2.2 Tier 4 Final
- Fines 75mm (3") fully welded Drum Cleaner Attachment





### Key Benefits:

1. **Heavy Duty Feeder:** The heavy-duty feeder can take loads up to 10 ton and is lined with Hardox wear resistant steel, meaning it can handle the most abrasive, heavy material.
2. **No Screen 'Blinding':** The drum cleaner mechanism (unique to MDS Machines), keeps the trommel openings clear in all applications and conditions.
3. **Adjustable Drum Speed:** Drum speed on the M412 can be adjusted between 8 and 12 RPM via a speed control valve. The rotation of the drum can be sped up to increase production and reduced to help better clean the oversize in the stickiest applications.

### Conclusion:

The Robust features of the MDS M412 in combination with the drum cleaner mechanism meant this customer could process material with little to no downtime, all year round leading to increased profitability. Concrete material free from sticky clay and fines also reduced unnecessary wear and tear in their crushing operation.