



RECYCLING | MDS M412 IN SCRAP METAL

A customer based in the United Kingdom manages a scrap metal recycling plant. Processing the waste metal presents a challenging application that their current screening set-up could not handle efficiently.

Challenge

The customer currently sorts their material into different grades using a regular flat deck scalper with a belt feeder. The material is harsh on the machine, frequently ripping the conveyor belts and clogging up the screen deck, leading to high levels of downtime for maintenance of the unit. To reduce downtime the unit is fed with extreme caution, stifling their production rates.

Job Requirements

- Separate the fine grade material and oversize for further processing.
- Reduce downtime and increase productivity of the operation.



M412 Heavy Duty Trommel Solution

After hearing the customer's concerns regarding their existing screening setup, our reliable dealer provided them with a demonstration of the mighty MDS M412 Heavy Duty Trommel. Recognizing the key features of the M412, including its heavy-duty pan feeder and crusher-grade conveyor belts, they believed it would offer an ideal solution.

With the implementation of the MDS M412 Heavy Duty Trommel, the customer received enhanced efficiency, reliability, and productivity in their scrap metal recycling process, leading to increased profitability and operational success



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 WITH CHASSIS RISER

Application: SCRAP METAL

Throughput: 250-300 TPH, 7 L/hr

Machine Specs:

- Diesel CAT 2.2 Tier 4 Stage 5
- Fines 75mm (3") fully welded with Drum Cleaner Attachment
- Chassis Riser Option





Key Benefits:

- 1. Heavy-duty feeder.** The M412 feed system is a reciprocating, Hardox lined pan feeder. This eliminates the risk of ripping a rubber belt, and the operator can feed more material at a higher rate with peace of mind.
- 2. Reduced Screen Blockages:** The screening mechanism of a rotating drum offers an advantage over a flat deck in this application as the material is much less likely to hang up in the screen openings. This means that the machine will need to be stopped less for cleaning.
- 3. Engine efficiency:** The M412 is fitted with a fuel-efficient CAT C2.2 engine, resulting in low fuel usage of around 7 liters per hour. Another key feature of the power unit is its swing-out mechanism, helping improve serviceability of the unit.

Conclusion:

The MDS M412 heavy duty trommel offered the customer a perfect solution to a challenging application. In this scenario the customer decided to trade-in their existing screener and replace it with the MDS M412. The throughput of this operation has improved so significantly that the customer is now looking at options to upgrade their secondary screening process.