

SCRAP CLEANING LINE MODEL HMS

The SGM HMS Model represents a state-of-the-art Scrap Cleaning Line (SCL), **specifically developed to eliminate contaminants from Heavy Melting Scrap (HMS).**

By significantly improving the cleanliness of incoming scrap, the system:

- Boosts steel production efficiency
- Reduces operating costs.
- Enhances material quality for downstream applications.

HMS scrap commonly contains 6–12% contaminants, which negatively affect multiple aspects of the steelmaking process, including:

- Furnace yield
- Energy consumption
- Slag generation.
- Lime usage.

The SGM Scrap Cleaning Line is designed to reduce these contaminants to less than 1%, leading to a dramatic improvement in furnace efficiency.

Using cleaner scrap boosts productivity, lowers energy and lime consumption, reduces slag, and minimizes emissions, resulting in better efficiency and sustainability.

Built for continuous, heavy-duty use, the SGM HMS Cleaning System helps steel mills and scrap processors boost efficiency and maximize profits.

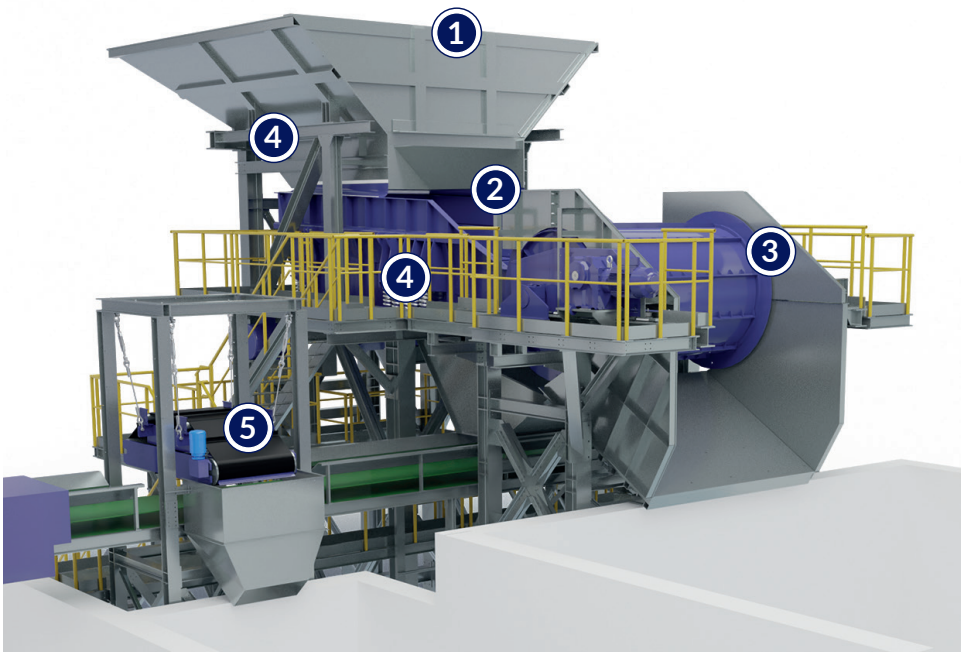
HOW IT WORKS

The cleaning process begins with a vibrating feeder combined with a de-dusting screen that removes fine contaminants and optimizes material flow.

The core of the system is the proprietary TME Electro-Drum Magnet, featuring a radial polarity design that maximizes contaminant removal and metal liberation.

A ferrous belt magnet completes the process by separating clean HMS from residual impurities.

The system is available in three capacities (50, 100, and 150 tons per hour) and can be configured as either a modular setup or a complete solution, depending on operational needs.



- ① Charging Hopper
- ② Vibrating Feeder + De-dusting Screen
- ③ Drum Magnet
- ④ Structure
- ⑤ Ferrous Belt Magnet

TYPICAL APPLICATIONS

- Heavy Melting Scrap (HMS)

MODEL	OVERALL LENGTH	OVERALL WIDTH	OVERALL HEIGHT
50 t/h	12456 mm - 40.8 ft	9000 mm - 29.5 ft	10500 mm - 34.4 ft
100 t/h	12994 mm - 42.6 ft	9000 mm - 29.5 ft	10500 mm - 34.4 ft
150 t/h	13294 mm - 43.6 ft	9000 mm - 29.5 ft	10500 mm - 34.4 ft

THIS SOLUTION IS IDEAL FOR A WIDE RANGE OF USERS:

- Steel mills and foundries benefit from cleaner scrap and more efficient operations;
- Scrap processors increase the value of HMS by delivering a premium-quality product;
- Heavy-duty recycling facilities optimize resource recovery and reduce waste.

