

# MEGA DRUM MAGNET MODEL MDM

The SGM Mega Drum Magnet (MDM) is a high-performance electromagnetic drum separator specifically engineered for **high-capacity ferrous recovery in car shredder applications**. Featuring a larger ferrous core section and an optimized current density, the MDM delivers exceptional magnetic strength while ensuring reliable, continuous operation, even under the most demanding processing conditions.

## HOW IT WORKS

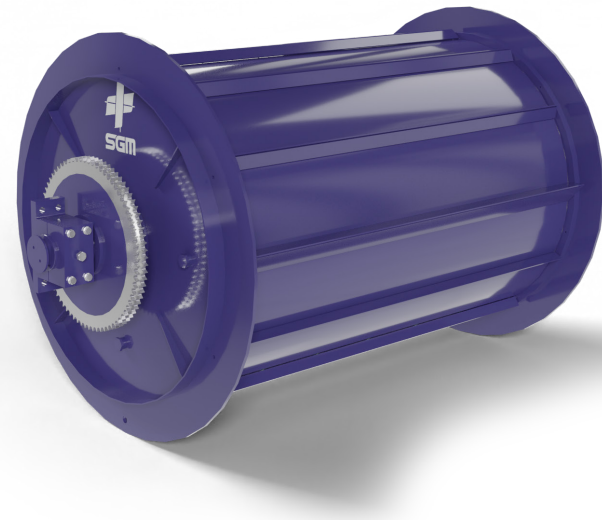
Installed above the feeder, the MDM is capable of attracting ferrous materials from distances exceeding 1270 mm (50 inches). This extended reach allows non-ferrous residues to fall naturally before coming into contact with the drum, enhancing the overall separation process and reducing contamination.

Thanks to its powerful magnetic circuit, the **MDM efficiently recovers large ferrous items from shredded material streams such as Auto Shredder Residue (ASR)**. Its counterweighted design ensures precise alignment of magnetic polarity for consistent performance, while the double manganese steel shell, 10 mm

inner and 8 mm outer, offers superior wear resistance and easy maintenance through straightforward shell replacement.

To meet a wide range of application needs, the MDM is available in nine different models, each offering a variety of configurations and drum sizes to match specific throughput and layout requirements. The system also features adjustable drum speed, allowing operators to fine-tune separation efficiency based on material characteristics and processing goals. Additionally, the optional drum sprocket and drive assembly provide further customization for unique installation scenarios.

Designed for precision, durability, and high recovery rates, the SGM MDM is an ideal solution for large-scale metal recycling operations seeking to maximize ferrous recovery while maintaining operational efficiency.



## TYPICAL APPLICATIONS

- Automotive Shredder Residue (ASR)

MODEL mm - ft	MAGNET WEIGHT	MAGNET POWER	WORKING DISTANCE	LENGTH	DIAMETER
MDM 130x150 51x59	7,900 Kg 17,420 lbs	11.5 kW	250-300 mm 10"-12"	1500 mm 59"	1300 mm 51"
MDM 130x180 51x71	9,000 Kg 19,800 lbs	13 kW	250-300 mm 10"-12"	1800 mm 70"	1300 mm 51"
MDM 130x210 51x83	10,500 Kg 23,150 lbs	14.5 kW	250-300 mm 10"-12"	2100 mm 82"	1300 mm 51"
MDM 150x180 60x71	12,000 Kg 26,500 lbs	11.5 kW	300-350 mm 12"-14"	1800 mm 70"	1500 mm 59"
MDM 150x210 60x83	15,000 Kg 33,000 lbs	16 kW	300-350 mm 12"-14"	2100 mm 83"	1500 mm 59"
MDM 150x250 60x98	17,000 Kg 37,500 lbs	16 kW	300-350 mm 12"-14"	2500 mm 98"	1500 mm 59"
MDM 180x210 71x83	16,200 Kg 35,700 lbs	16 kW	350-400 mm 14"-16"	2100 mm 83"	1800 mm 70"
MDM 180x250 71x98	19,850 Kg 43,800 lbs	19 kW	350-400 mm 14"-16"	2500 mm 98"	1800 mm 70"
MDM 180x280 71x110	20,300 Kg 44,800 lbs	20 kW	350-400 mm 14"-16"	2800 mm 110"	1800 mm 70"