

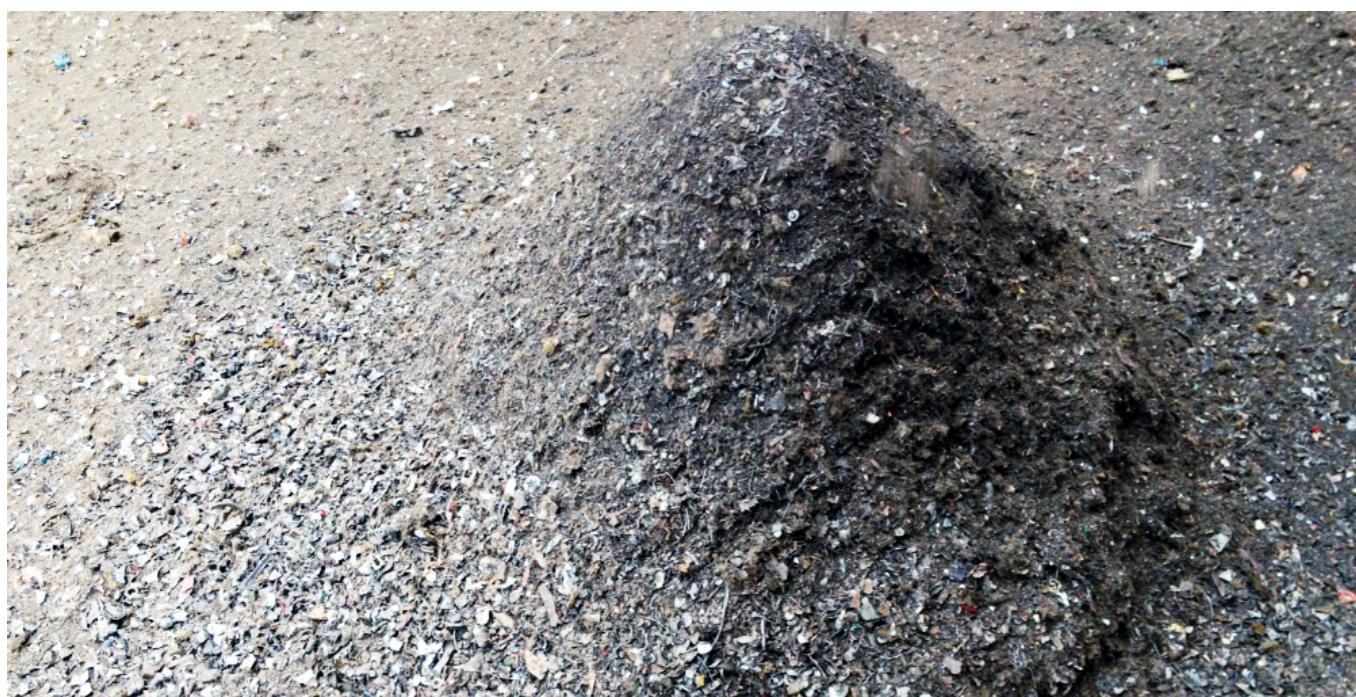
PULLEY MAGNET SEPARATOR MODEL PLP

The SGM PLP (Pulley Magnet Separator) is a powerful and versatile magnetic separator designed to **extract raw iron and fine ferrous particles from materials transported on a conveyor belt**.

Unlike overhead suspension magnets that attract ferrous material from a distance, the PLP head pulley operates in direct contact with the conveyor belt, ensuring consistent and efficient ferrous removal. This 360-degree magnetic coverage enables optimal separation, with non-magnetic material following its natural ballistic trajectory while ferrous particles are securely held and discharged into a dedicated collection area.

HOW IT WORKS

Positioned at the discharge end of the conveyor belt, the PLP magnetic pulley plays a key role in the separation of ferrous metals. Its powerful magnetic field attracts ferrous material, holding it on the surface of the pulley until it is discharged into a dedicated collection hopper. Non-ferrous materials, unaffected by the magnetic field, continue along their natural trajectory and are directed into a separate container.



The system is highly versatile, as the PLP pulley can be easily integrated into a wide range of machinery to improve the efficiency of ferrous separation processes. Thanks to its robust construction and high-intensity magnetic field, the PLP ensures reliable and consistent performance, even in the most demanding operating conditions.

SGM Magnetics offers three specialized magnetic circuits, each optimized for different depth loads:

High Gradient (HG)

- Made with ferrite permanent magnet blocks.
- Ideal for materials with a load depth of up to 150 mm (6 inches).

Very High Gradient (VHG)

- Patented combination of neodymium and ferrite permanent magnets.
- Provides strong magnetic attraction.
- Suitable for load depths up to 80 mm (3 inches).

Ultra High Gradient (UHG)

- Constructed with pure neodymium permanent magnets.
- Supports load depths up to 40 mm (1.5 inches).
- Delivers exceptional separation strength for fine ferrous particles.



TYPICAL APPLICATIONS

- Coal
- Automotive Shredder Residue (ASR)
- Ash from MSW incinerator (IBA)
- Electronic scrap (WEEE)
- Scrap
- Municipal solid waste
- Scrap glass
- Upgrade of aluminum scrap

MODEL	DIAMETER	LENGTH	SHAFT Ø
PLP 32/55	320 mm - 12.6"	550 mm - 21.6"	Ø 50 mm - Ø 2"
PLP 32/65	320 mm - 12.6"	650 mm - 25.6"	Ø 50 mm - Ø 2"
PLP 32/75	320 mm - 12.6"	750 mm - 29.5"	Ø 50 mm - Ø 2"
PLP 32/85	320 mm - 12.6"	850 mm - 33.4"	Ø 50 mm - Ø 2"
PLP 32/95	320 mm - 12.6"	950 mm - 37.4"	Ø 55 mm - Ø 2.16"
PLP 32/105	320 mm - 12.6"	1050 mm - 41"	Ø 55 mm - Ø 2.16"
PLP 32/110	320 mm - 12.6"	1100 mm - 43"	Ø 60 mm - Ø 2.36"
PLP 32/115	320 mm - 12.6"	1150 mm - 45"	Ø 60 mm - Ø 2.36"
PLP 32/120	320 mm - 12.6"	1120 mm - 44"	Ø 60 mm - Ø 2.36"
PLP 32/125	320 mm - 12.6"	1125 mm - 44"	Ø 60 mm - Ø 2.36"
PLP 32/140	320 mm - 12.6"	1140 mm - 44.8"	Ø 60 mm - Ø 2.36"
PLP 32/155	320 mm - 12.6"	1155 mm - 45.4"	Ø 60 mm - Ø 2.36"
PLP 32/165	320 mm - 12.6"	1165 mm - 45.8"	Ø 60 mm - Ø 2.36"
PLP 40/55	406 mm - 16"	550 mm - 21.6"	Ø 45 mm - Ø 1.77"
PLP 40/65	406 mm - 16"	650 mm - 25.6"	Ø 45 mm - Ø 1.77"
PLP 40/75	406 mm - 16"	750 mm - 29.5"	Ø 65 mm - Ø 2.55"
PLP 40/85	406 mm - 16"	850 mm - 33.4"	Ø 65 mm - Ø 2.55"
PLP 40/95	406 mm - 16"	950 mm - 37.4"	Ø 65 mm - Ø 2.55"

MODEL	DIAMETER	LENGTH	SHAFT Ø
PLP 40/105	406 mm - 16"	1050 mm - 41.3"	Ø 70 mm - 2.75"
PLP 40/115	406 mm - 16"	1150 mm - 45.2"	Ø 70 mm - 2.75"
PLP 40/125	406 mm - 16"	1125 mm - 44.2"	Ø 70 mm - 2.75"
PLP 40/135	406 mm - 16"	1135 mm - 44.6"	Ø 70 mm - 2.75"
PLP 40/145	406 mm - 16"	1145 mm - 45"	Ø 70 mm - 2.75"
PLP 40/155	406 mm - 16"	1155 mm - 45.4"	Ø 70 mm - 2.75"
PLP 40/165	406 mm - 16"	1165 mm - 45.8"	Ø 70 mm - 2.75"
PLP 40/205	406 mm - 16"	2050 mm - 80.7"	Ø 70 mm - 2.75"
PLP 50/85	508 mm - 20"	850 mm - 33.4"	Ø 70 mm - 2.75"
PLP 50/105	508 mm - 20"	1050 mm - 45"	Ø 90 mm - 3.54"
PLP 50/115	508 mm - 20"	1250 mm - 49"	Ø 90 mm - 3.54"
PLP 50/120	508 mm - 20"	1120 mm - 44"	Ø 100 mm - 3.93"
PLP 60/97	610 mm - 24"	970 mm - 38"	Ø 100 mm - 3.93"
PLP 60/128	610 mm - 24"	1280 mm - 50"	Ø 100 mm - 3.93"
PLP 60/130	610 mm - 24"	1300 mm - 51"	Ø 100 mm - 3.93"
PLP 60/157	610 mm - 24"	1570 mm - 61.8"	Ø 100 mm - 3.93"