MAGNETIC TECHNOLOGY
PULLEY MAGNET SEPARATOR
Model PLP

TECHNICAL SPECIFICATIONS

The SGM Head Pulley Magnet separators (PLP) are used in many industries for many applications where there is a need for removing tramp iron and fine iron from a material traveling on a conveyor belt. Therefore, pulley magnets are characterized by the fact of being magnetically active on 360 of their surface. Non-magnetic material is discharged over the head pulley magnet as per its natural ballistic trajectory while iron is held by the pulley magnet and discharged on a shorter trajectory.

Robust mechanical design for industrial use. Available in multiple diameters and widths offering easy installation and/or retrofit.

Unlike suspension magnets that work from a distance, head pulley magnets work at contact with the material they process and can achieve high performance ferrous removal.

The SGM PLP are offered with three different permanent magnet circuits featuring a uniform attraction on their full width. The choice between the different magnetic circuits is mainly based on maximum burden depth of the material to be processed along with minimum and maximum sizes of the tramp iron pieces and belt speed. For the most appropriate choice of your PLP, contact SGM for recommendations.

- High Gradient Circuit (HG) made of Ferrite permanent magnet blocks for burden depth up to 150mm - 6".
- Very High Gradient (VHG) made of a unique proprietary combination of Neodymium and Ferrite permanent magnet blocks for burden depth up to 80mm - 3", where the Neodymium permanent magnets contribute to the strong attraction (gradient), while the Ferrite magnet still guarantee a deep attraction.
- Ultra High Circuit (UHG) made of Neodymium permanent magnet blocks for burden depth up to 40mm - 1 1/2".

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

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TYPICAL APPLICATIONS

Auto shredder residue
Demolition rubbles
Slag
Foundry sand
Incinerated domestic waste ash
Municipal solid waste (MSW)
Wood scrap
Glass scrap
Electronic scrap (WEEE)
Minerals
Any application where material travels on a conveyor belt with a need for ferrous removal