



Magnetic Separation Pulleys

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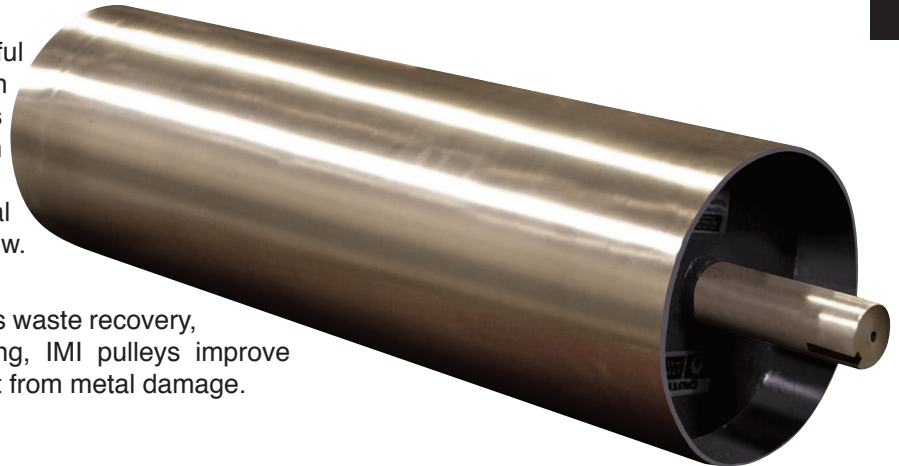
Prevent Costly Damage & Reduce Product Liability

TRAMP METAL

TG-11A

INTRODUCTION:

IMI's comprehensive line of powerful permanent Magnetic Separation Pulleys are typically installed as head pulleys in conveyor system applications. They provide effective, automatic and continuous removal of tramp metal from a material flow.



Commonly used in industries such as waste recovery, mining and bulk material processing, IMI pulleys improve product purity and protect equipment from metal damage.

OPERATION:

As the belt conveyed product travels over the magnetic head pulley, any ferrous metal that's mixed in with the product is attracted and held to the face of the belt and carried to the underside of the conveyor. After the metal passes out of the magnetic field, it is released and discharged into a chute or bin for disposal.

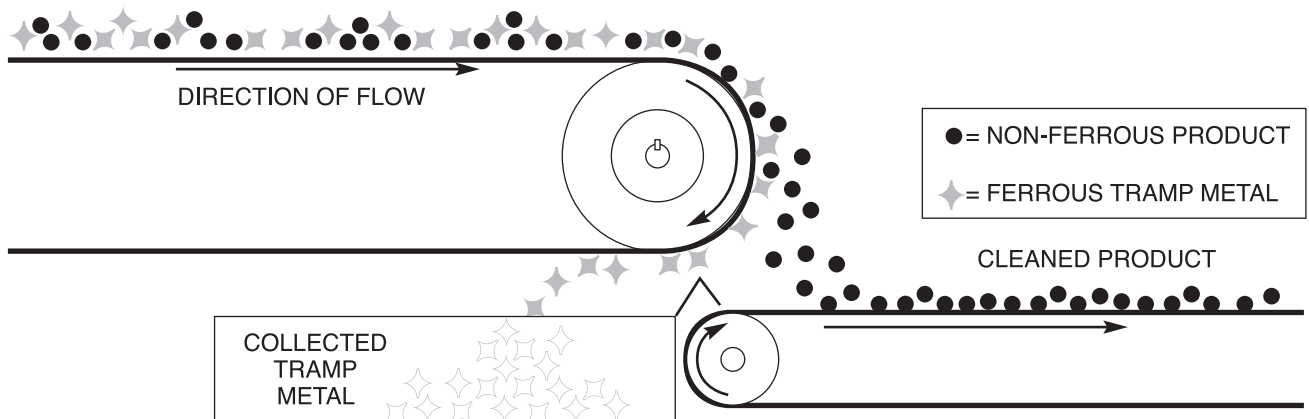
The cleaned product, which is unaffected by the magnetic field, is discharged normally over the pulley away from the tramp metal.

FEATURES:

- Removable Steel Shaft
- Stainless Steel Shell
- Powerful Permanent Magnet Circuit
- Shaft locking devices for shaft diameters up to 3"
- Straight hub with keyway and set screws for shaft diameters over 3"
- Axial magnetic circuit design

OPTIONS:

- Crowned Face
- Stainless Steel Shaft
- Lagging Available
- Special diameters and lengths
- Many hub styles available including Taperlock and QD styles
- Radial magnetic circuit designs
- Custom computer designed magnetic circuits for difficult applications
- Pulley sizes available up to 60" in diameter and up to 96" wide



Industrial Magnetics, Inc. • 1385 M-75 South • Boyne City, MI 49712

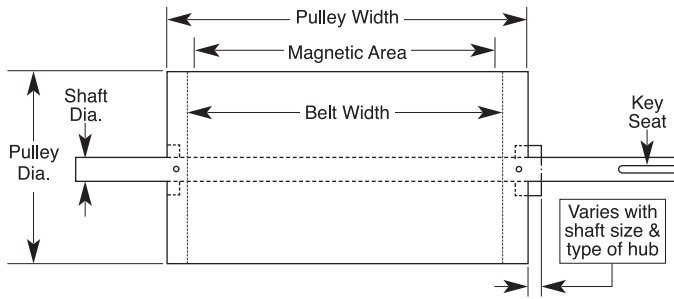
Key Markets

Mining & Aggregate, Waste Recovery, Pulp & Paper, Foundry

Related Products

Suspended Overhead Magnets, Drum Separators

MAGNETIC SEPARATION PULLEY DIMENSIONS:



NOTES:

The shaft sizes listed are nominal, however, due to variables in belt loading, every application must be evaluated by the factory before final sizes are determined.

SELECTION:

- IMI Pulleys are available in a wide variety of standard sizes to fit most belt configurations with diameters ranging from 6" to 24".
- Pulleys can be supplied with or without shafts.
- IMI welcomes the opportunity to design a pulley to meet your application.

APPLICATION QUESTIONNAIRE:

Part Number if Standard Pulley: _____

Pulley Dia.: _____ Pulley Width: _____

Supply Shaft with Magnet? Yes No

If "No", provide Bore Diameter: _____

Shaft Dia.: _____ Shaft length: _____

Standard Hubs? Yes No

If "No", Hub Type or Brand: _____

Drive Keyway: Width _____ Depth _____ Length _____

Magnet Strength: Standard Super Strength (SS)

Options

Crowned Face: Degree (Std 1°x7") _____ Length _____

Lagging (L) _____ Type _____ Thickness _____

If Lagged & Crowned can Lagging be Crowned? _____

Application Description (Conveyor System Details and

Desired Tramp Metal Size for Separation): _____

Budget and Time Frame

A. Is this a funded project? Yes _____ No _____

B. What is the Budget range for Magnetic Separation Pulley: _____

C. What is the Time Frame for purchase and installation: _____

Part Number	Pulley Dia.	Pulley Width	Belt Width	Magnet Area	Weight (Lbs.)	Shaft Dia.
PS0610	6-5/8"	10"	8"	8	39	1-7/16"
PS0612	6-5/8"	12"	10"	10	46	1-7/16"
PS0614	6-5/8"	14"	12"	10	56	1-7/16"
PS0616	6-5/8"	16"	14"	12	60	1-7/16"
PS0618	6-5/8"	18"	16"	14	66	1-7/16"
PS0620	6-5/8"	20"	18"	16	72	1-7/16"
PS0622	6-5/8"	22"	20"	18	78	1-7/16"
PS0626	6-5/8"	26"	24"	20	92	1-7/16"
PS0810	8-5/8"	10"	8"	8	65	1-7/16"
PS0812	8-5/8"	12"	10"	10	75	1-7/16"
PS0814	8-5/8"	14"	12"	10	95	1-7/16"
PS0816	8-5/8"	16"	14"	12	105	1-7/16"
PS0818	8-5/8"	18"	16"	14	110	1-7/16"
PS0820	8-5/8"	20"	18"	16	130	1-7/16"
PS0822	8-5/8"	22"	20"	18	140	1-7/16"
PS0826	8-5/8"	26"	24"	22	155	1-7/16"
PS1010	10"	10"	8"	8	113	1-15/16"
PS1012	10"	12"	10"	10	128	1-15/16"
PS1014	10"	14"	12"	10	155	1-15/16"
PS1016	10"	16"	14"	12	175	1-15/16"
PS1018	10"	18"	16"	14	195	1-15/16"
PS1020	10"	20"	18"	16	217	1-15/16"
PS1022	10"	22"	20"	18	239	1-15/16"
PS1026	10"	26"	24"	22	278	1-15/16"
PS1214	12"	14"	12"	10	220	1-15/16"
PS1216	12"	16"	14"	12	250	1-15/16"
PS1218	12"	18"	16"	14	275	1-15/16"
PS1220	12"	20"	18"	16	325	1-15/16"
PS1222	12"	22"	20"	17	350	2-7/16"
PS1226	12"	26"	24"	21	410	2-7/16"
PS1232	12"	32"	30"	27	500	2-7/16"
PS1238	12"	38"	36"	31	590	2-15/16"
PS1244	12"	44"	42"	39	685	2-15/16"
PS1251	12"	51"	48"	46	780	2-15/16"
PS1616	16"	16"	14"	12	360	2-7/16"
PS1618	16"	18"	16"	14	365	2-7/16"
PS1620	16"	20"	18"	16	450	2-7/16"
PS1622	16"	22"	20"	17	480	2-15/16"
PS1626	16"	26"	24"	21	560	2-15/16"
PS1632	16"	32"	30"	26	730	2-15/16"
PS1638	16"	38"	36"	32	860	2-15/16"
PS1644	16"	44"	42"	38	1,000	2-15/16"
PS1651	16"	51"	48"	45	1,135	2-15/16"
PS1818	18"	18"	16"	13	510	2-15/16"
PS1820	18"	20"	18"	15	650	2-15/16"
PS1822	18"	22"	20"	17	670	2-15/16"
PS1826	18"	26"	24"	20	800	2-15/16"
PS1832	18"	32"	30"	26	1,025	2-15/16"
PS1838	18"	38"	36"	32	1,260	2-15/16"
PS1844	18"	44"	42"	38	1,480	2-15/16"
PS1851	18"	51"	48"	45	1,700	2-15/16"
PS2420	24"	20"	18"	15	805	3-7/16"
PS2422	24"	22"	20"	17	950	3-7/16"
PS2426	24"	26"	24"	20	1,165	3-7/16"
PS2432	24"	32"	30"	26	1,530	3-7/16"
PS2438	24"	38"	36"	32	1,800	3-7/16"
PS2444	24"	44"	42"	38	2,050	3-7/16"
PS2451	24"	51"	48"	45	2,300	3-7/16"
PS2457	24"	57"	54"	51	2,700	3-15/16"
PS2463	24"	63"	60"	54	3,000	3-15/16"

Pulley Part Number Guide: PS

2 Digit Pulley Diameter
2 Digit Pulley Width

Options: (A) Special Shaft (SS) Super Strength (L) Lagging

Example: PS1224SSL = 12" Dia. x 24" Wide, Super Strength, Lagging