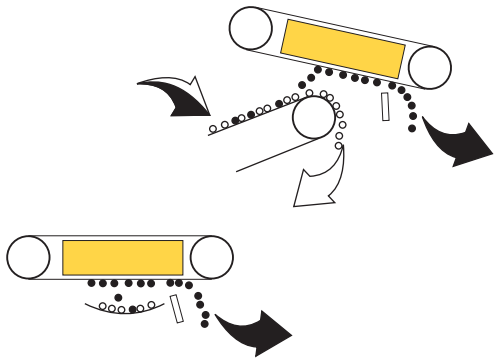
OVP

Over Belt Permanent magnet Separator



OVP self-cleaning overbelt magnets are ideal for applications with substantial quantities of tramp iron or where manual cleaning access is challenging. The separator attracts tramp iron and carries it out of the magnetic field, with ejection performed by a discharge belt running around the magnet. OVP Magnet Separators Powered by ceramic strontium ferrite magnets.

MAG Magnetics self-cleaning over-belt magnets consist of: Magnetic box, supporting structure for the discharge belt, including drive and tail drums, two additional idlers mounted on self-aligning bearings, Geared motor to drive the discharge belt, Device for tensioning the discharge belt on the fixed axle of the tail drum, Suspension lugs, turnbuckles, and suspension wire ropes.

Mag magnetics offers a range of standard permanent OVP overbelt magnetic separators suitable for belt widths up to 2000 mm and operating heights up to 400 mm. The minimum distance between the magnet and the top surface of the material is 100 mm and can be adjusted using turnbuckles.

OVP Feature and Applications

For decades, MAG Magnetics overbelt magnetic separators have been extensively used across various industries. These machines are designed to pick up and remove tramp iron objects from bulk materials such as coal, stone, fertilizers, slag, gypsum, and ores. This protects crushers, pulverisers, mills, conveyor belts, and other valuable equipment in processing plants from excessive wear and damage. The separators can be installed either in-line over the discharge head pulley or across conveyor belts, vibratory feeders, or gravity chutes. Installing the separator magnets in-line above the discharge end of the conveyor enhances separation efficiency and facilitates the discharge of extracted iron parts

Advantages of OVP Magnets

- No rectifier required
- No risk of coil burnout
- No electrical cabling needed
- No power consumption
- No operational costs
- No maintenance required
- No risk of failure
- Easy to mount
- Uniformly powerful
- Cost-effective
- Retains magnetic strength even during power outages
- Moisture-resistant, anti-corrosion, and flameproof
- Fully stabilized and non-deteriorating

Important Factors for Selecting Overbelt Magnetic Separators are material size, type, and density, shape and minimum size of tramp iron, maximum material lump size, percentage of tramp iron in the material, conveyor belt/chute width, bulk material capacity (t/hr or m³/hr), details of machinery or equipment to be protected, conveyor belt speed, angle of trough idlers, head pulley diameter and material (for in-line installations), ambient temperature and available AC power supply.

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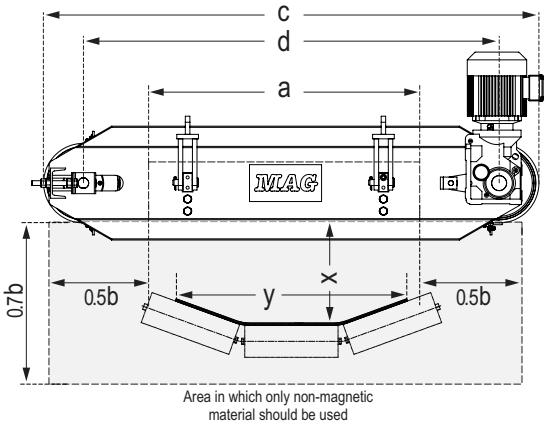

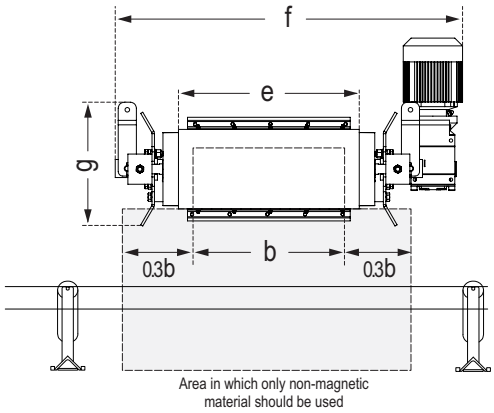

Permanent magnet Over Belt Separator													
Model	Max. Working Distance	Belt Width Installation Position		Drive	Magnet Dimensions		Magnet Weight Approx.	Overall Dimensions					Total Weight Approx.
		Across	Inline		a	b		c	d	e	f	g	
	mm	mm	mm	kw	mm	mm	kg	mm	mm	mm	mm	mm	kg
OVP 20/40		400			532		298	1,471	1,177				647
OVP 20/60		600			735		411	1,674	1,380				774
OVP 20/80	200	800	600	1.5	938	560	526	1,877	1,583	600	1,450	270	903
OVP 20/100		1,000			1,144		641	2,083	1,789				1,032
OVP 20/120		1,200			1,347		755	2,286	1,992				1,160
OVP 25/80		800			938		923	2,091	1,717				1,419
OVP 25/100		1,000			1,144		1,125	2,297	1,923				1,637
OVP 25/120	250	1,200	800	2.2	1,347	730	1,325	2,500	2,126	800	1,620	330	1,854
OVP 25/140		1,400			1,550		1,526	2,703	2,329				2,071
OVP 25/160		1,600			1,760		1,744	2,913	2,539				2,306
OVP 30/80		800			938		1,512	2,256	1,799				2,161
OVP 30/100		1,000			1,144		1,842	2,462	2,005				2,510
OVP 30/120	300	1,200	1,000	2.2	1,347	970	2,170	2,665	2,208	1,000	1,860	540	2,857
OVP 30/140		1,400			1,550		2,499	2,868	2,411				3,204
OVP 30/160		1,600			1,760		2,874	3,078	2,621				3,598
OVP 35/100		1,000			1,144		2,179	2,462	2,005				2,929
OVP 35/120		1,200			1,347		2,568	2,665	2,208				3,337
OVP 35/140	350	1,400	1,200	3.0	1,550	1,170	2,956	2,868	2,411	1,200	2,060	550	3,744
OVP 35/160		1,600			1,760		3,394	3,078	2,621				4,202
OVP 35/180		1,800			1,960		3,736	3,278	2,821				4,564
OVP 40/100		1,000			1,144		2,592	2,462	2,005				3,399
OVP 40/120		1,200			1,347		3,054	2,665	2,208				3,882
OVP 40/140	400	1,400	1,400	3.0	1,550	1,350	3,516	2,868	2,411	1,400	2,240	550	4,364
OVP 40/160		1,600			1,760		4,029	3,078	2,621				4,898
OVP 40/180		1,800			1,960		4,489	3,278	2,821				5,378

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