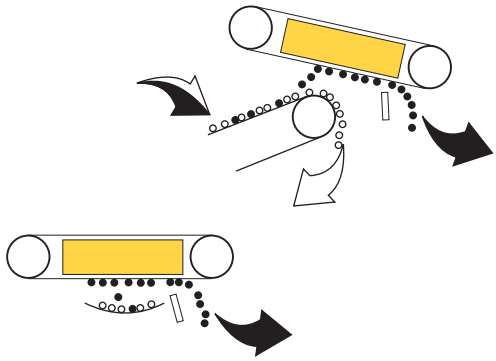
OVP

Permanent magnetic Over Belt Separator



OVP magnets are used when substantial quantities of ferrous metals and or long and bulky pieces are contained in the conveyor burden or where access to the suspension magnet for cleaning is difficult. Iron contamination material is attracted by the magnet and is carry out of the magnetic field and ejected by the discharge belt running around the magnet.

MAG self cleaning OVP magnets consist of magnetic box, supporting structure for the discharge belt with drive drum and tail drum are mounted on suitable self aligning bearings. A suitable geared motor is used to drive the discharge belt. For re-tightening the discharge belt, the fixed axle of the tail drum is fitted with a tensioning device. Suspension lugs and one set of turn buckles and suspension wire rap are normally supplied. The minimum distance between the magnet and the top surface of material would be 100mm and it is adjustable by means of turnbuckles.

OVP Feature and Applications:

Over the years MAG Over Belt magnetic separators have been extensively used in various industries. These machines used for pick up and removing ferrous metal parts from the bulk materials such as coal, stone, fertilizers, slag, gypsum, ores and similar in order to protect crushers, pulverizers, mills, conveyor belts and other costly equipment in processing plants against too much wear and damage of turnout Tramp Iron parts. These units are designed for installation either in-line over the discharge head pulley or for installation across the conveyor belts, vibratory feeders or gravity chutes. Mounting the suspension magnets in-line above the discharge end of the conveyor increases the efficiency of the magnet and facilitates the iron discharge.

OVP permanent magnets are powered by ceramic strontium ferrite magnets.

- Extremely powerful computer designed permanent magnet
- Compact design
- No rectifier is required
- No coils to burn-out
- No electrical cabling required for magnet
- No power consumption
- No operative cost
- No maintenance
- No failure
- Easily mounted
- Uniformly powerfully
- Less expensive to purchase and operate
- Magnet holds if power fails
- Moisture, corrosion and flame proof
- Fully stabilized and non-deteriorating

Some important factors in OVP selection should be considered as Material details(size,type and density), amount and minimum size of tramp iron for removing, Conveyor details (belt width and speed), chute width , Bulk material capacity (t/hr or m3/hr) and burden depth , type of machinery to be protected, Angle trough idlers, Head pulley details (diameter and material) at in-line installation, Ambient temp & Available power supply AC.

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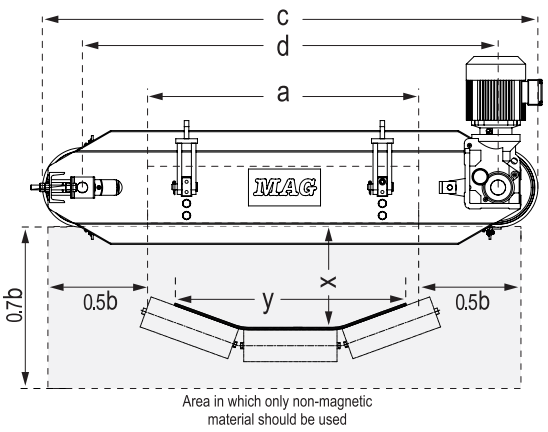

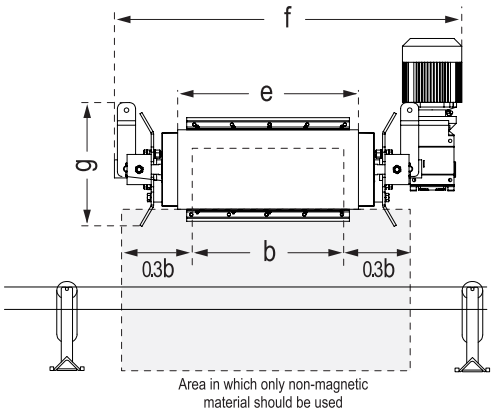

Model	Max. Working Distance x	Belt Width y Installation Position Across	Belt Width y Installation Position Inline	Drive	Magnet Dimensions a	Magnet Dimensions b	Magnet Weight Approx.	Overall Dimensions c	Overall Dimensions d	Overall Dimensions e	Overall Dimensions f	Overall Dimensions g	Total Weight Approx.
	mm	mm	mm	kw	mm	mm	kg	mm	mm	mm	mm	mm	kg
OVP 20/40	200	400	600	1.5	532	560	298	1,471	1,177	600	1450	270	647
OVP 20/60		600			735		411	1,674	1,380				774
OVP 20/80		800			938		526	1,877	1,583				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	250	800	800	2.2	938	730	923	2,091	1,717	800	1620	330	1,419
OVP 25/100		1,000			1,144		1,125	2,297	1,923				1,637
OVP 25/120		1,200			1,347		1,325	2,500	2,126				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	300	800	1,000	2.2	938	970	1,512	2,256	1,799	1,000	1860	540	2,161
OVP 30/100		1,000			1,144		1,842	2,462	2,005				2,510
OVP 30/120		1,200			1,347		2,170	2,665	2,208				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	350	1,000	1,200	3.0	1,144	1,170	2,179	2,462	2,005	1,200	2060	550	2,929
OVP 35/120		1,200			1,347		2,568	2,665	2,208				3,337
OVP 35/140		1,400			1,550		2,956	2,868	2,411				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	400	1,000	1,400	3.0	1,144	1,350	2,592	2,462	2,005	1,400	2240		3,399
OVP 40/120		1,200			1,347		3,054	2,665	2,208				3,882
OVP 40/140		1,400			1,550		3,516	2,868	2,411				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