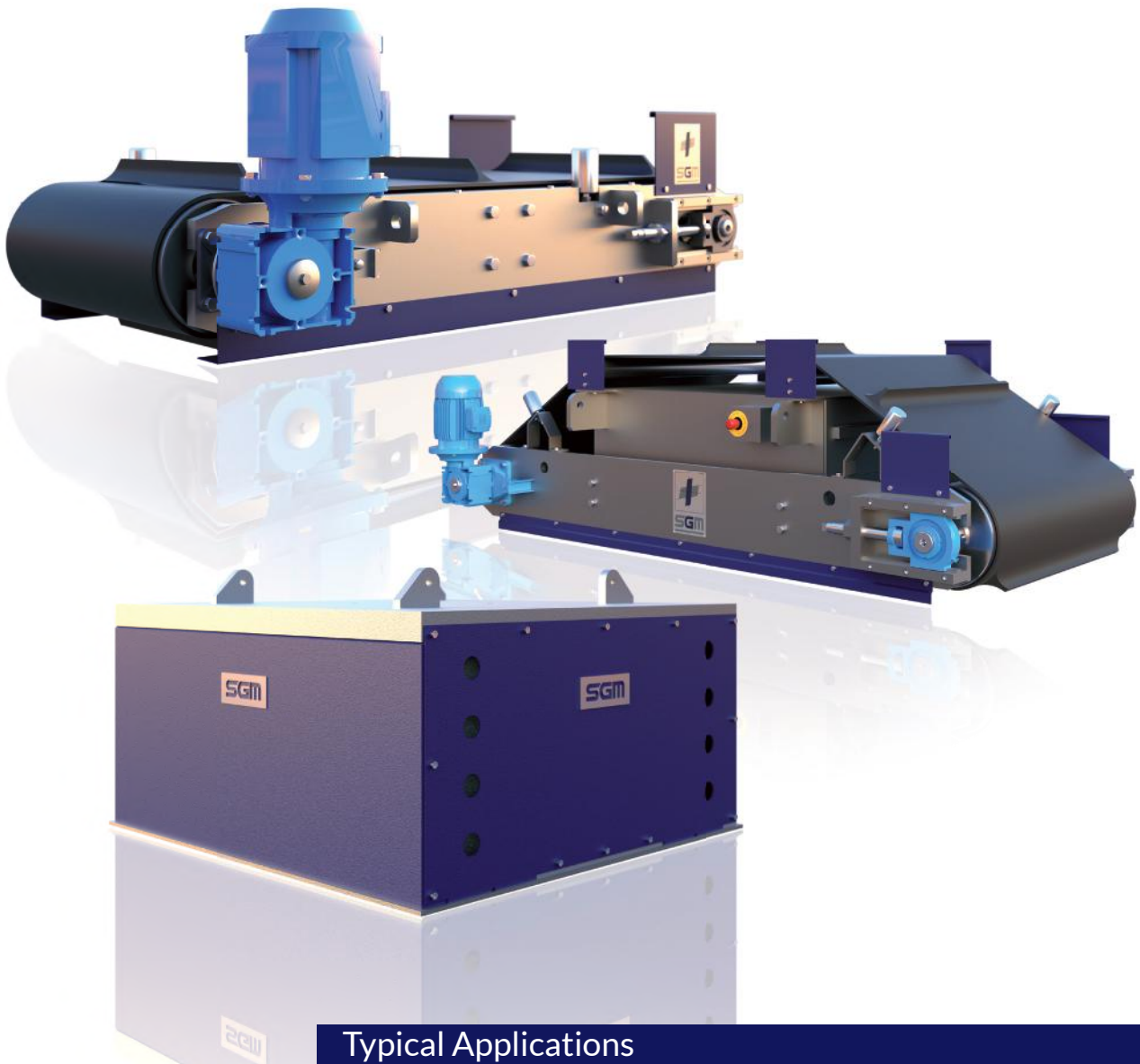


Suspended Magnet Separators

Models DNE | DNP | DBE | DBP



Typical Applications

SGM offers multiple sizes for each version of its suspended magnet separators.

- 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

Suspended Magnet Separators

Models DNE | DNP | DBE | DBP

Technical Specifications

The SGM Suspended Magnet separators are used for many industrial applications for the recovery or removal of tramp iron present in a material traveling on a conveyor belt. The SGM Suspended magnets are offered in different versions that can be electromagnetic or permanent magnet with each version that can be stationary or provided with a self-cleaning belt.

The choice of the most appropriate suspended magnet will depend on the combination of a variety of elements that are:

- Minimum and maximum sizes of the ferrous particles to be separated (the smaller the minimum size, the more demanding the application)
- Typical possible shapes of the ferrous particles (the more spherical (vs longitudinal) the shape, the more demanding the application)
- Burden depth of the material to be processed (the larger the burden depth, the more demanding the application)
- Bulk density of the material to be processed (the higher the bulk density, the more demanding the application)
- Moisture content of the material (the higher the moisture content, the more demanding the application)
- Speed of the belt that conveys the material (the higher the speed, the more demanding the application)
- Width of the belt that conveys the material that will dictate one of the two dimensions of the separators to be active on the overall width.

The SGM Suspended Magnet separators can either be placed above the conveyor belt of the material or above its head pulley depending on the application and the general assembly situation of the conveyor belt. The more demanding the application, the more appropriate to position the suspended magnet separator above the head pulley allowing the separator to take advantage of the natural opening of the material as it leaves the head pulley.

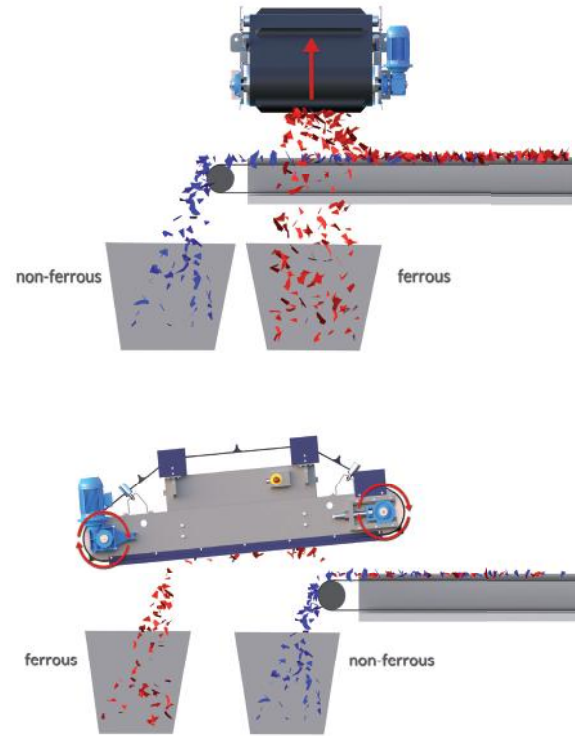
Stationary suspended magnet separators are for applications where ferrous is rare.

For the most appropriate choice of your SGM suspended magnet, please refer to SGM questionnaire and ask SGM for recommendations.

Suspended Electro Magnet Separator Self-cleaning Belt - Model DNE



- Designed to maximize the active length of the magnet and its relevant deferrization performance
- Strong carbon steel frame including a bottom running surface in manganese steel to ease the discharging of ferrous metals
- External surfaces are coated with Chrome-Zinc and anti-corrosion paint



Optional Features

- RPM belt sensor
- Belt stop buffer sensor
- Protection kit for outdoor installation

MODEL	OVERBELT SPEED ft/sec	MOTOR POWER kW	MAGNET WIDTH inches	LENGTH inches	WIDTH inches	HEIGHT inches
DNE 80/80 L	6	2,2	31	77	54	23
DNE 80/100 L	6	2,2	31	85	54	23
DNE 80/120 L	6	2,2	31	93	54	23
DNE 90/100 L	5,2	2,2	35	94	57	25
DNE 90/120 L	5,2	2,2	35	102	57	25
DNE 90/140 L	5,2	2,2	35	110	57	25
DNE 90/175 L	5,2	2,2	35	123	57	25
DNE 90/210 L	5,2	2,2	35	137	57	25
DNE 100/100 L	5,2	2,2	39	93	61	26
DNE 100/120 L	5,2	2,2	39	102	61	26
DNE 100/130 L	5,2	2,2	39	106	61	26
DNE 120/120 L	5,5	3,0	47	105	69	28
DNE 120/140 L	5,5	3,0	47	113	69	28
DNE 120/160 L	5,5	3,0	47	121	69	28
DNE 120/210 L	5,5	3,0	47	140	69	28
DNE 140/140	4,9	3,0	55	117	77	30
DNE 140/160	4,9	3,0	55	125	77	30
DNE 140/240	4,9	3,0	55	156	77	30
DNE 160/160	4,9	4	63	125	85	33
DNE 160/240	4,9	4	63	156	85	33

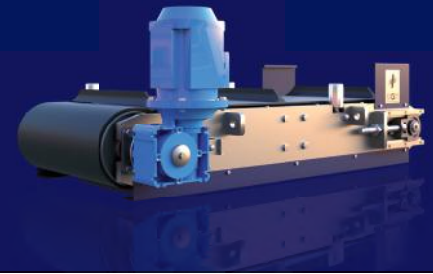


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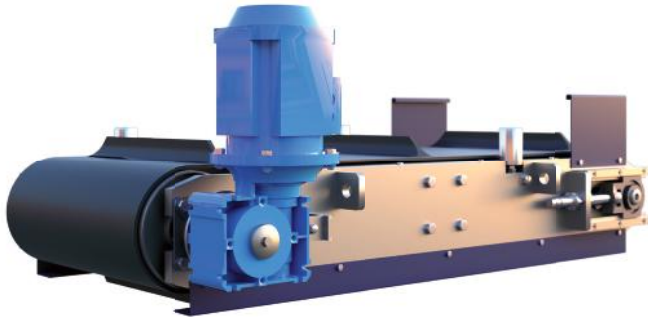
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Suspended Permanent Magnet Separator Self-cleaning Belt - Model DNP

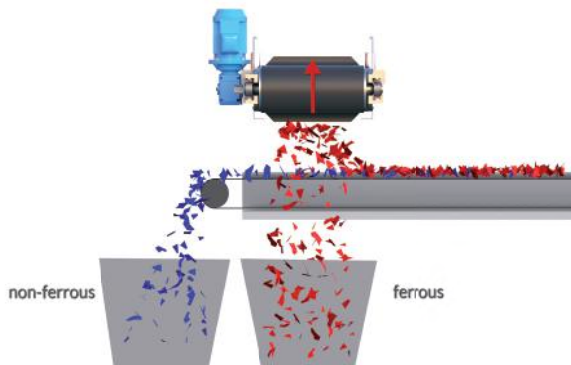
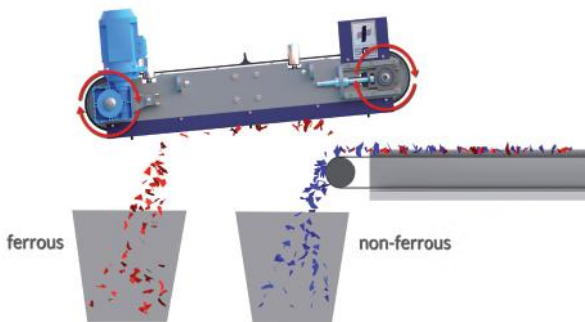


Semi-closed magnetic circuit with permanent magnet blocks between the two polarities for maximum attraction towards the material



Optional Features

- RPM belt sensor
- Belt stop buffer sensor
- Protection kit for outdoor installation



MODEL	OVERBELT SPEED ft/sec	MOTOR POWER kW	LENGTH inches	WIDTH inches	HEIGHT inches
DNP 50/90	4,5	1,1	57	34	18
DNP 50/110	4,5	1,1	72	34	18
DNP 50/130	4,5	1,1	80	34	18
DNP 50/150	4,5	1,1	91	34	18
DNP 50/180	4,5	1,1	99	34	18
DNP 50/200	4,5	1,1	107	34	18
DNP 50/220	4,5	1,1	61	46	25
DNP 65/65	5,5	2,2	68	46	25
DNP 65/80	5,5	2,2	74	46	25
DNP 65/95	5,5	2,2	78	46	25
DNP 65/115	5,5	2,2	90	48	25
DNP 75/130	5,5	2,2	72	50	25
DNP 80/80	5,5	2,2	78	50	25
DNP 80/95	5,5	2,2	86	50	25
DNP 80/115	5,5	2,2	93	50	25
DNP 80/135	5,5	2,2	101	50	25
DNP 80/155	5,5	2,2	109	50	25
DNP 80/175	5,5	2,2	117	50	25
DNP 80/195	5,5	2,2	80	56	27
DNP 95/100	5,5	2,2	84	59	27
DNP 100/105	5,5	2,2	89	59	27
DNP 100/115	5,5	2,2	96	59	27
DNP 100/135	5,5	2,2	104	59	27
DNP 100/155	5,5	2,2	111	59	27
DNP 100/175	5,5	2,2	120	59	27
DNP 100/200	5,5	2,2	128	59	27
DNP 100/220	5,5	2,2	100	65	27
DNP 115/150	5,5	3	94	65	27
DNP 115/130	5,5	3	100	80	27
DNP 155/155	5,5	3	100	80	27

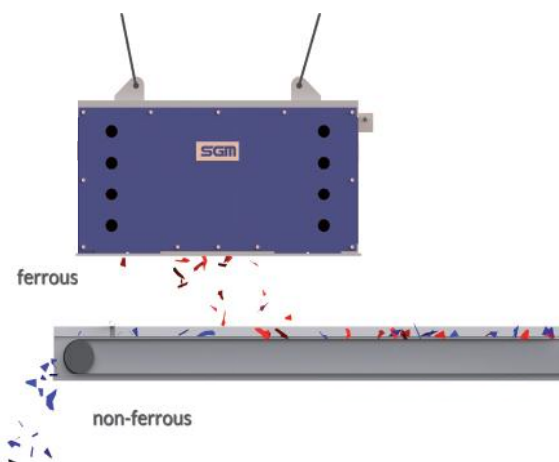
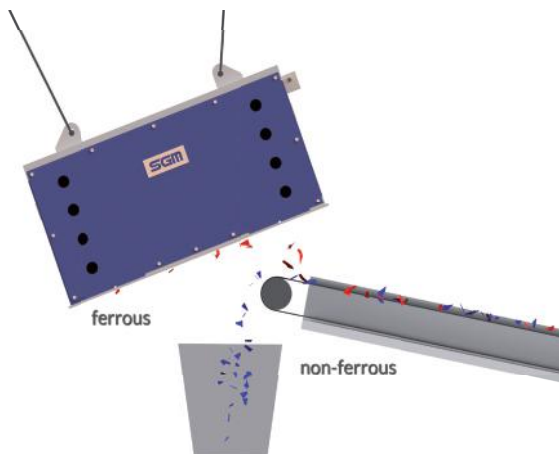
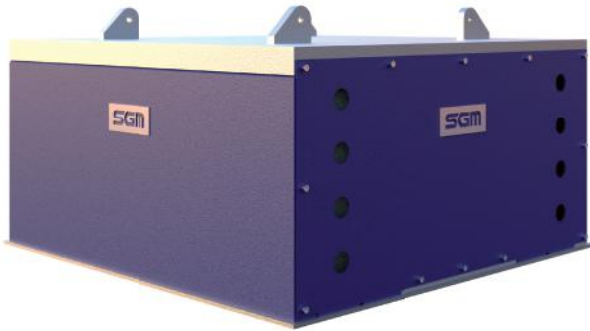
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Suspended Electro Magnet Separator Stationary Suspended Magnet - Model DBE

Suspended Permanent Magnet Separator Stationary Suspended Magnet - Model DBP



MODEL	POWER kW	LENGTH inches	WIDTH inches	HEIGHT inches
DBE 60/40	1200	23	15	17
DBE 60/50	1500	23	19	17
DBE 60/60	1700	23	23	17
DBE 80/60	2200	31	23	18
DBE 80/70	2500	31	27	18
DBE 80/80	2900	31	31	18
DBE 90/80	3100	35	31	20
DBE 90/90	3500	35	35	20
DBE 90/100	4000	35	39	20
DBE 100/100	5000	39	39	21
DBE 100/110	5500	39	43	21
DBE 100/120	6000	39	47	21
DBE 120/120	6500	47	47	22
DBE 120/130	7000	47	51	22
DBE 120/140	8000	47	55	22
DBE 140/140	9000	55	55	25
DBE 140/150	9500	55	59	25
DBE 140/160	10000	55	63	25
DBE 150/160	11500	59	63	26
DBE 150/170	12500	59	67	26
DBE 150/180	13000	59	70	26
DBE 160/180	14000	63	70	27
DBE 160/190	14500	63	74	27
DBE 160/200	15500	63	78	27

MODEL	LENGTH inches	WIDTH inches	HEIGHT inches
DBP 50/40	20	16	6
DBP 50/50	20	20	6
DBP 50/60	20	24	6
DBP 50/70	20	28	6
DBP 60/60	24	24	7
DBP 60/70	24	28	7
DBP 75/70	30	28	8
DBP 75/80	30	32	8
DBP 75/90	30	36	8
DBP 75/100	30	40	8
DBP 75/110	30	44	8
DBP 75/120	30	48	8
DBP 90/100	36	40	10
DBP 90/120	36	48	10



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