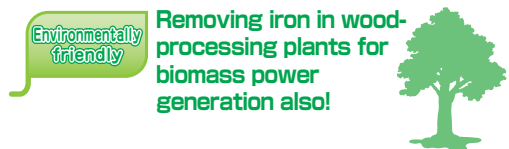


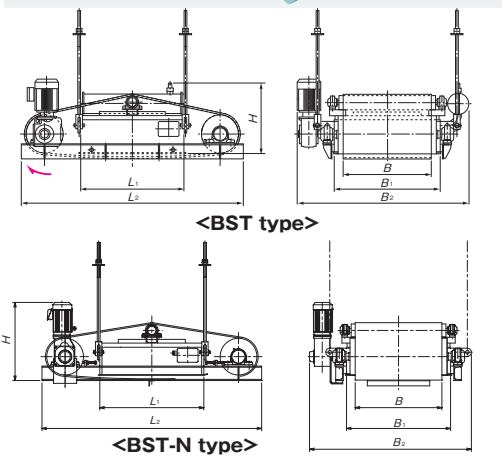
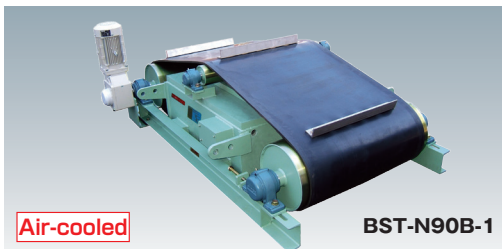
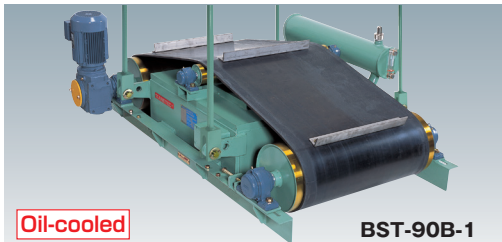
MAGNETIC SEPARATORS

Model **BST** SUSPENDED ELECTROMAGNETIC SEPARATOR

“Air-cooled type” that uses no cooling oil to reduce environmental burden added to “BST Series” !



Fully automatic discharge



[Application]

A suspended magnetic separator is suspended above a belt conveyor to continuously separate such magnetic substances as iron pieces and lumps mixed in materials being transported on the conveyor. This separator is most suitable for removal and collection of iron from such raw materials as slag, ore and coal and from casting sand, bulky wastes, industrial wastes and ash after waste incineration.

[Features]

■ Ideal magnet configuration realized!

Our valuable data based on experience and our pursuit to develop an optimum magnet based on magnetic field analysis have realized a magnet configuration that exhibits the best separation and collection performance.

To lengthen the iron piece discharge length, a general practice is to use permanent magnets together, but our original pole construction has eliminated a need of such magnets.

Selection of the oil-cooled type or the air-cooled type

- For the full-cover specification and for operations where ambient temperature is high or for long-hour operation, select the oil-cooled type.
- For operation in an explosion-proof area or for relatively short-time operation, select the air-cooled type. There are other conditions to consider for selection. Please fill the Selection Data form at the end of the catalog and send it to our sales office.

■ All models employ the IE3 motors!

The top runner motors in compliance with the Energy Conservation Act in Japan are used.

■ A wide variety of models available!

A wide variety of models are available to meet any belt width of belt conveyors. You can find the optimum model for your specifications. Cross suspension as well as overhead pulley suspension (parallel suspension) is available. (The corresponding conveyor belt width is the same.)

■ Can be installed in any environment!

Compared with KANETEC's previous model designs, the overall length and magnet height have been minimized. BST type: The mass reduced by 30% to 40% and cooling oil amount by 10% to 50%, BST-N: Since this type does not use cooling oil, the mass and size have been further reduced from those of BST type. Thus, this model can be installed in any environment and under any conditions of installation.

■ Easy maintenance for significant reduction in work time and running cost!

As the iron piece discharge belt drive system is directly coupled, such maintenance as chain tension adjustment and lubrication, which need to be performed periodically with existing products, are no longer necessary. BST-N type that requires no cooling oil offers running cost reduction and further reduces the power consumption by the electromagnet by about 20% from that of the oil-cooled type.

■ Trouble-free, robust magnetic separator!

This highly rated system can be used continuously, day and night. The temperature rise of the electromagnet is little and its influence on the performance drop is minimal. Also our original pole construction is designed to reduce belt wear to ensure a long service life.

■ A wide range of applications!

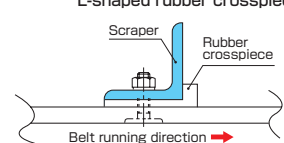
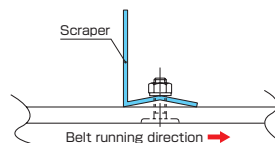
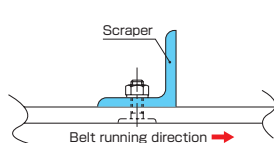
The robust construction allows this separator to be used outdoors under any conditions of use. It can be used in a wide range of applications.

■ Different shapes of scrapers according to models.

Model: BST-**B-1/BST-N**B-1
Shape: Angle scraper

Model: BST-**B-2/BST-N**B-2
Shape: Scraper with folded SUS plate

Model: BST-**B-3/BST-N**B-3
Shape: Angle scraper with L-shaped rubber crosspiece



3 sizes added for selection of more suitable types!

Model		Conveyor Belt Width		Conveyor Installation Length	Belt Width		Overall Dimensions				Electromagnet Dimensions		Power Consumption		Mass		Applicable Control Unit	
		Cross suspension	Parallel suspension		B	L ₂	B ₂		H		L ₁	B ₁	Standard	Air-cooled*	Standard	Air-cooled		
Standard (BST)	Air-cooled (BST-N)					Standard	Air-cooled	Standard	Air-cooled	L ₁	B ₁	Standard	Air-cooled	Standard	Air-cooled	Standard	Air-cooled	
BST-65B-1.2.3	BST-N65B-1.2.3	450 (17.7) - 650 (25.5)	300 (11.8) - 450 (17.7)	150 (5.90) - 200 (7.87)	450 (17.7) (64.5)	1170 (46.0)	1095 (43.1)	610 (24.0)	650 (25.5)	650 (25.5)	1.5kW	1.29kW	1.5kW	680kg (1499 lb)	625kg (1377 lb)		BSTR-65I	
BST-80B-1.2.3	BST-N80B-1.2.3	600 (23.6) - 800 (31.5)	450 (17.7) - 600 (23.6)	150 (5.90) - 250 (9.84)	600 (23.6) (70.4)	1320 (51.9)	1245 (49.0)	585 (23.0)	800 (31.5)	800 (31.5)	2.4kW	1.97kW	1.5kW	970kg (2138 lb)	930kg (2050 lb)		BSTR-80I	
BST-90B-1.2.3	BST-N90B-1.2.3	700 (27.5) - 900 (35.4)	600 (23.6) - 750 (29.5)	200 (7.87) - 300 (11.8)	750 (29.5) (74.8)	1500 (59.0)	1400 (55.1)	645 (25.3)	900 (35.4)	900 (35.4)	3.1kW	2.25kW	1.5kW	1370kg (3020 lb)	1310kg (2888 lb)		BSTR-90I	
BST-100B-1.2.3	BST-N100B-1.2.3	800 (31.5) - 1000 (39.4)	750 (29.5) - 900 (35.4)	250 (9.84) - 350 (13.7)	900 (35.4) (88.5)	1720 (67.7)	1565 (61.6)	825 (32.4)	1000 (39.4)	1000 (39.4)	4.0kW	3.22kW	2.2kW	2070kg (4564 lb)	1930kg (4254 lb)		BSTR-100I	
BST-105B-1.2.3	BST-N105B-1.2.3	950 (37.4) - 1050 (41.3)	750 (29.5) - 950 (37.4)	250 (9.84) - 350 (13.7)	900 (35.4) (90.5)	1865 (73.4)	1715 (67.5)	839 (33.0)	1050 (41.3)	1050 (41.3)	4.7kW	3.73kW	2.2kW	2600kg (5732 lb)	2500kg (5711 lb)		BSTR-105I	
BST-115B-1.2.3	BST-N115B-1.2.3	1050 (45.2) - 1150 (45.2)	850 (33.4) - 1050 (41.3)	300 (11.8) - 350 (13.7)	1050 (41.3) (94.4)	1865 (73.4)	1715 (67.5)	887 (34.9)	1150 (45.2)	1150 (45.2)	5.2kW	4.25kW	2.2kW	3100kg (6834 lb)	3080kg (6790 lb)		BSTR-115I	
BST-120B-1.2.3	BST-N120B-1.2.3	1050 (41.3) - 1200 (47.2)	950 (37.4) - 1050 (41.3)	300 (11.8) - 350 (13.7)	1050 (41.3) (96.4)	2150 (84.6)	1965 (77.3)	887 (34.9)	1200 (47.2)	1200 (47.2)	5.6kW	4.5kW	2.2kW	3400kg (7495 lb)	3360kg (7407 lb)		BSTR-120I	
BST-130B-1.2.3	BST-N130B-1.2.3	1300 (51.1) - 1400 (55.1)	1100 (43.3) - 1200 (47.2)	300 (11.8) - 400 (15.7)	1200 (47.2) (110)	2150 (84.6)	1965 (77.3)	910 (35.8)	1300 (51.1)	1300 (51.1)	6.6kW	5.36kW	3.7kW	4500kg (9921 lb)	4400kg (9700 lb)		BSTR-130I	
BST-140B-1.2.3	BST-N140B-1.2.3	1300 (51.1) - 1400 (55.1)	1100 (43.3) - 1300 (51.1)	300 (11.8) - 400 (15.7)	1400 (55.1) (114)	2350 (92.5)	2165 (85.2)	835 (32.8)	1400 (55.1)	1400 (55.1)	7.5kW	6.1kW	3.7kW	5200kg (11464 lb)	5200kg (11464 lb)		BSTR-140I	
BST-150B-1.2.3	BST-N150B-1.2.3	1300 (51.1) - 1500 (69.0)	1200 (47.2) - 1400 (55.1)	300 (11.8) - 450 (17.7)	1400 (55.1) (118)	2570 (101.2)	2385 (93.8)	805 (31.6)	1500 (69.0)	1500 (69.0)	8.7kW	6.98kW	3.7kW	5500kg (12125 lb)	5390kg (11882 lb)		BSTR-150I	
BST-170B-1.2.3	BST-N170B-1.2.3	1500 (69.0) - 1700 (66.9)	1400 (55.1) - 1600 (62.9)	400 (15.7) - 550 (21.6)	1600 (62.9) (126)	3200 (125.0)	2385 (93.8)	865 (34.0)	1700 (66.9)	1700 (66.9)	10.4kW	8.1kW	5.5kW	7500kg (16535 lb)	7350kg (16203 lb)		BSTR-170I	

*A type that uses permanent magnets together is also available. *A type with a dustproof cover is also available. *For overhead pulley suspension (parallel suspension), suspension fixtures need to be changed partially. *The electromagnet power consumption is based on 200 VAC (50 Hz). *The belt conveyor width for each model is for reference only. As the model to be selected can be different depending on the flow width and volume of objects to process, please consult with us.