Model BST SUSPENDED ELECTROMAGNETIC SEPARATOR

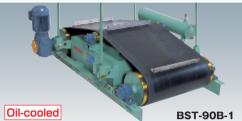
"Air-cooled type" that uses no cooling oil to reduce environmental burden added to "BST Series"!



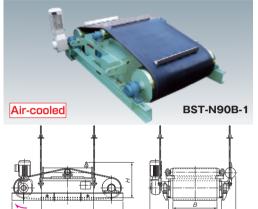
Removing iron in woodprocessing plants for biomass power generation also!

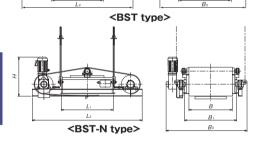


Fully automatic discharge









Different shapes of scrapers according to models.

[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 slug ore and coal and from casting sand, bulky wastes, industrial wastes and ash after waste incineration.

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 longhour operation, select the oil-cooled type.
- •For operation in an explosion-proof area or for relatively short-time operation, select the aircooled 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 Conversation 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!

Model: BST-**B-2/BST-N**B-2

Shape: Scraper with folded SUS plate

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.

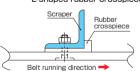
A wide range of applications!

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.

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



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!

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[mm	(in

5 SIZE	s auut	su ivi	5616	CTIO	יט וו		IOI E	; SL	IILa	INIE	Ly	he	;5 :					[mm(in)]
Model		Conveyor	Belt Width	Conveyor	Belt Width		Overall Dimensions				Electromagnet		Power Consumption					Applicable
		Cross	Parallel	Installation		١,	B ₂		Н		Dimensions		Electromagnet*		Drive	Mass		Control
Standard (BST)	Air-cooled (BST-N)	suspension	suspension	Length	В	L ₂	Standard	Air-cooled	Standard	Air-cooled	L ₁	B ₁	Standard	Air-cooled	motor	Standard	Air-cooled	Unit
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)	1640 (64.5)	1170 (46.0)	1095 (43.1)	610 (24.0)	620	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)	1790 (70.4)	1320 (51.9)	1245 (49.0)	585 (23.0)	(24.4)	800 (31.5)	800 (31.5)	2.4kW	1.97kW		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)	1900 (74.8)	1500 (59.0)	1400 (55.1)	645 (25.3)	675 (26.5)	900 (35.4)	900 (35.4)	3.1kW	2.25kW		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	2250 (88.5)	1720	1565	825		1000 (39.4)	1000 (39.4)	4.0kW	3.22kW		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)	(35.4)	(35.4) 2300 (90.5)	(67.7)	(61.6)	(32.4)	710	1050 (41.3)	1050 (41.3)	4.66kW	3.73kW	2.2kW	2600kg/ 5732 lb	2500kg/ 5711 lb	BSTR-105I
BST-115B-1.2.3	BST-N115B-1.2.3	950 (37.4) - 1150 (45.2)	850 (33.4) - 1050 (41.3)	300 (11.8) - 350 (13.7)	1050) 1865 (73.4) (1715 (67.5)	820 (32.2)	(27.9)	1150 (45.2)	1150 (45.2)	5.2kW	4.25kW	_	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)	(41.3)				875 (34.4)		1200 (47.2)	1200 (47.2)	5.58kW	4.5kW		3400kg/ 7495 lb	3360kg/ 7407 lb	BSTR-120I
BST-130B-1.2.3	BST-N130B-1.2.3	1100 (43.3) – 1300 (51.1)	1000 (39.4) – 1200 (47.2)	300 (11.8) – 400 (15.7)	1200 (47.2)	2800 (110)	2150 (84.6)	1965 (77.3)	910 (35.8)	840 (33.0)	1300 (51.1)	1300 (51.1)	6.6kW	5.36kW		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	2900 (114)	2350	2165	835 (32.8)	845	1400 (55.1)	1400 (55.1)	7.48kW	6.09kW	3.7kW	5200kg/ 11464 lb	5200kg/ 11464 lb	BSTR-140I
BST-150B-1.2.3	BST-N150B-1.2.3	1300 (51.1) - 1500 (59.0)	1200 (47.2) - 1400 (55.1)	300(11.8) - 450(17.7)	(55.1)	3000 (118)	(92.5)	(85.2)	805 (31.6)	(33.2)	1500 (59.0)	1500 (59.0)	8.7kW	6.98kW		5500kg/ 12125 lb	5390kg/ 11882 lb	BSTR-150I
BST-170B-1.2.3	BST-N170B-1.2.3	1500(59.0)- 1700(66.9)	1400(55.1)- 1600(62.9)	400 (15.7) – 550 (21.6)	1600 (62.9)	3200 (126)	2570 (101.2)	2385 (93.8)	865 (34.0)	907 (35.7)	1700 (66.9)	1700 (66.9)	10.4kW	8.1kW	5.5kW	7500kg/ 16535 lb		BSTR-170I