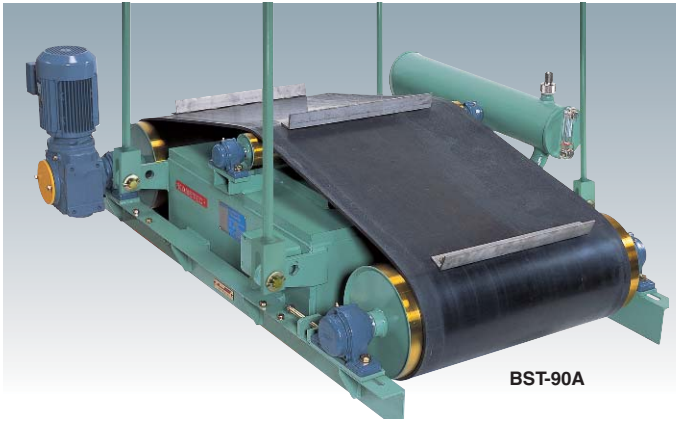


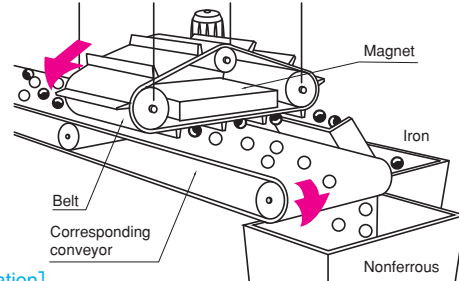
Model **KMDT** SUSPENDED ELECTROMAGNETIC SEPARATOR

“BST Series” renewed based on many years of manufacture and marketing experience and computer-aided magnetic field analysis with significantly reduced weight and volume!

Fully automatic discharge As for separation in wood material for biomass power generator!



BST-90A



Environmentally Friendly



[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 best suited for removing and collecting 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 achievements in magnetic design and our pursuit to develop an optimum magnet based on magnetic field analysis, has resulted in 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 (patent pending) has eliminated the need of such magnets.

■ A wide variety of models available!

A wide variety of models are available according to any belt specifications of belt conveyors. Thus, 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 weight and volume have been reduced significantly, for example, mass reduced by 30% to 40% and cooling water amount by 10% to 50%, as a result of minimizing the overall length and magnet height. 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, that need to be conducted periodically with existing products, are no longer necessary and as the amount of cooling oil has been reduced, replenishing needs to be conducted less frequently. Thus, maintenance load work has been reduced significantly.

■ Trouble-free, robust magnetic separator!

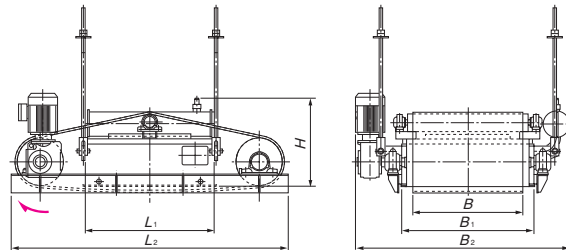
This highly rated effective oil cooling system can be used continuously, day and night. Minimizing the temperature rise of the electromagnet maintains the effective separation performance. Also, our original pole construction is designed to reduce belt wear and ensures a long service life.

■ 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.

We also provide air cooling type, which does not use coolant oil. Please contact us.

*** We can configure a suitable magnetic separator for various kinds of substances. Please consult with us.**



[mm (in)]

Model	Corresponding Conveyor Belt Width		Corresponding Conveyor Installation Distance	Belt Width B	Overall Dimensions			Electromagnet Dimensions		Power Consumption		Mass	Applicable Power Source
	Crosssuspension	Parallel suspension			L ₁	L ₂	B ₂	H	L ₁	B ₁	Electromagnet [*]		
BST-65A-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)	1150 (45.2)	610 (24.0)	650 (25.5)	650 (25.5)	1.5kW	1.5kW	680kg / 1499 lb	BSTR-65I
BST-80A-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)	1305 (51.3)	585 (23.0)	800 (31.5)	800 (31.5)	2.4kW	1.5kW	970kg / 2138 lb	BSTR-80I
BST-90A-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)	660 (25.9)	900 (35.4)	900 (35.4)	3.1kW	2.2kW	1370kg / 3020 lb	BSTR-90I
BST-100A-1.2.3	800 (31.5) — 1000 (39.3)	750 (29.5) — 900 (35.4)	250 (9.84) — 350 (13.7)	900 (35.4)	2250 (88.5)	1720 (67.7)	825 (32.4)	1000 (39.3)	1000 (39.3)	4.0kW	2.2kW	2070kg / 4564 lb	BSTR-100I
BST-115A-1.2.3	950 (37.4) — 1150 (45.2)	850 (33.4) — 1050 (41.3)	300 (11.8) — 350 (13.7)	1050 (41.3)	2400 (94.4)	1865 (73.4)	820 (32.2)	1150 (45.2)	1150 (45.2)	5.2kW	3.7kW	3100kg / 6834 lb	BSTR-115I
BST-130A-1.2.3	1100 (43.3) — 1300 (51.1)	1000 (39.3) — 1200 (47.2)	300 (11.8) — 400 (15.7)	1200 (47.2)	2800 (110)	2115 (83.2)	910 (35.8)	1300 (51.1)	1300 (51.1)	6.6kW	3.7kW	4500kg / 9921 lb	BSTR-130I
BST-150A-1.2.3	1300 (51.1) — 1500 (59.0)	1200 (47.2) — 1400 (55.1)	300 (11.8) — 450 (17.7)	1400 (55.1)	3000 (118)	2315 (91.1)	805 (31.6)	1500 (59.0)	1500 (59.0)	8.7kW	3.7kW	5500kg / 12125 lb	BSTR-150I
BST-170A-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)	865 (34.0)	1700 (66.9)	1700 (66.9)	10.4kW	5.5kW	7500kg / 16535 lb	BSTR-170I

* A type that uses permanent magnets together is also available.

* A type with dustproof cover is also available.

* For overhead pulley suspension (parallel suspension), suspension fixtures need to be changed partially.

* Belt conveyor width for each model is just reference.

As the model to be selected can be different depending on flow width and volume to be treated, please consult with us.

* The electromagnet power consumption applies to the use of 200 VAC (50 Hz).

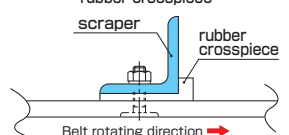
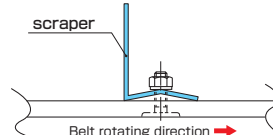
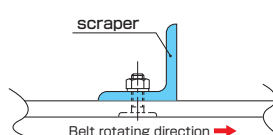
* For use in combination with a vibrator like vibration conveyor, a special type of vibration-proof specification needs to be used.

■ Depending on models, the shape of the scraper is different.

Model : BST-***A-1
Shape : Angle scraper

Model : BST-***A-2
Shape : Scraper with folded SUS plate

Model : BST-***A-3
Shape : Angle scraper with L-shaped rubber crosspiece



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