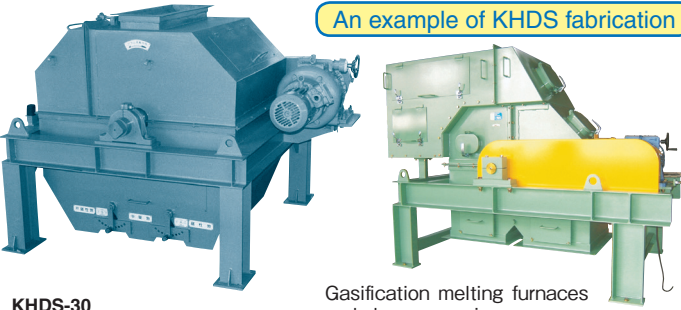


MAGNETIC SEPARATORS

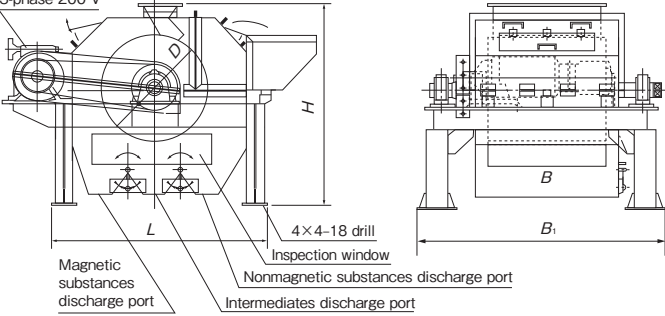
Model KHDS HIGH-SPEED DRUM TYPE MAGNETIC SEPARATOR

An example of KHDS fabrication



KHDS-30

Bayer cyclo variable speed changer
3-phase 200 V



These are high-performance magnetic separators designed to easily separate and collect magnetized fine powder and fine particles that are difficult to separate with other dry type magnetic separators.

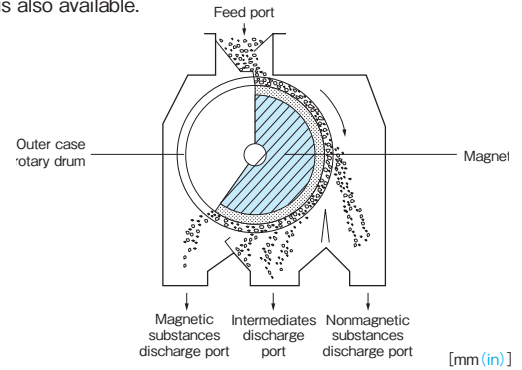
The effect of the magnetic force created by a unique pole layout together with adjustment of the centrifugal force by varying the rotation enables collection and separation of magnetized substances without taking in impurities.

[Application]

Suitable for separation of mine smalls, sorting of weak magnetic ores and separation of iron from aluminum, copper and brass chips. In addition, these separators are also useful for separation of dust, waste sand, casting sand and shots.

[Features]

- The unique pole construction enables separation without taking in impurities.
- The drum speed can be varied according to substances to separate, which enables these separators to be used under various conditions of separation.
- A type for slug is also available.



Relation between amount to process and substances to process

In general, the processing amount varies depending on the specific gravity of substances to process and such processing conditions as the grain size, magnetized state, water content, etc.

Amount to process by KHDS-30 <Example>

Grain Size, etc.	Processing Amount
Grain size 15 - 6 mm	15-7 (t/h)
Grain size 6 - 2 mm	7-5 (t/h)
Grain size less than 2 mm	5-1 (t/h)
Separation of iron wastes from nonferrous metallic chips	1-2 (t/h)

Model	Processing Capacity	Dimensions			Drum		Mass
		B ₁	L	H	φD	B	
KHDS-15	2.2-12.0t/h	900 (35.4)	1470 (57.8)	1500 (59.0)	930 (36.6)	150 (5.90)	1800kg/3968 lb
KHDS-30	4.5-24.0t/h	1000 (39.4)				300 (11.8)	2200kg/4850 lb
KHDS-45	6.7-36.0t/h	1150 (45.2)				450 (17.7)	2600kg/5732 lb
KHDS-60	9.0-48.0t/h	1300 (51.1)				600 (23.6)	3300kg/7275 lb
KHDS-75	11.0-60.0t/h	1500 (59.0)				750 (29.5)	3600kg/7937 lb
KHDS-90	13.0-72.0t/h	1700 (66.9)	900 (35.4)	4000kg/8818 lb			

※ The power source is 3-phase, 200 VAC.

The high magnetic force separators are designed to generate a magnetic force as large as 2.6 T (26000 G) for separation of weak magnetic substances. In addition to the "induction roll type KID-R" and "cross belt type KID-B" that have a large processing capacity, a relatively smaller capacity "induction type KID" and "electromagnetic filter KIF" are also available.

Examples of fabrication of various recycling magnetic separators

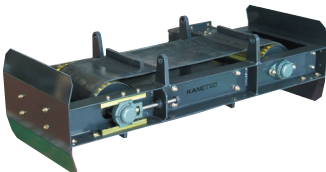


An example of fabrication of high-magnetic force drum type magnetic separator



An example of fabrication of drum type magnetic separator

An example of fabrication of suspended permanent magnetic separator



An example of fabrication of 2-stage drum type magnetic separator



MAGNETIC TOOLS & EQUIPMENT FOR MEASURING OPERATION
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MAGBORE*
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ENVIRONMENTAL MAGNETIZER AND MAGNETIZER AND FOR CONVENIENCE
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MAGNETIC MATERIALS