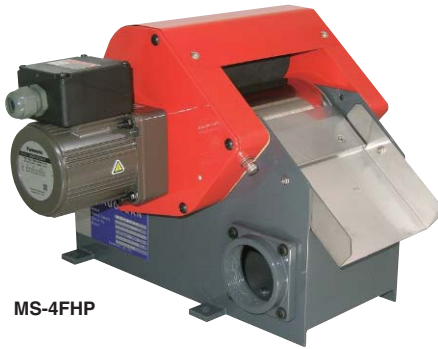


## Model MS-F.FH.FHP MAGCLEAN

### Magnetic coolant separator



MS-2F



MS-4FHP

#### [Application]

This unit is incorporated in the coolant purification and circulation system for grinders to remove iron particles, a major part of purification. When it is used together with a tank in which particles other than iron powder such as abrasive grains are separated by floating and precipitation, re-purified and regenerated coolant can be supplied to grinders again.

#### [Features]

- The construction of a stationary magnet and a rotary outer drum shell has no magnet in the area of the rake plate and allows smooth discharge of sludge. (The life of the rake plate is also prolonged.)
- The magnetic drum rotation drive construction has been modified to improve durability significantly.
- The squeezing roller tensioning mechanism has been designed anew to improve the squeezing performance.
- The squeezing roller and inlet are covered to enhance safety as well as to prevent grinding coolant from splashing/scattering.
- The outlet can be located on the right, left or bottom thanks to a good circulation system layout.
- 2-Available designs, high magnetic force type and super high magnetic force type designed to efficiently collect weak magnetic and minute sludge.
- A type having a motor on the right side (MS-F-R) is also available.



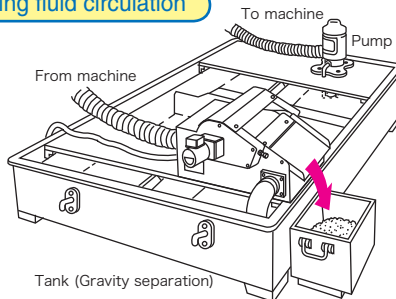
#### Precaution for use

It is exclusive for coolant water ( Water soluble ). In case of use under the below-mentioned conditions or in case selection of model is un-know, please fulfill the inquiry sheet at the end of this catalog and consult with us in advance.

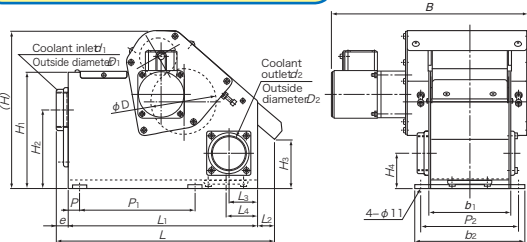
- In case coolant water is krosine,
- In case of the other liquid than coolant water such as pure water, medical liquid and so on.
- In case the type to force squeezing roller to drive, is used,
- In case model is renewed from our MS-D type.
- In case the liquid in use is not normal temperature.

### NEW Max flux density of Drum surface 0.5T!

#### Principle of grinding fluid circulation



#### Maintenance parts for sale!



#### Applications of Magclean

Machine Tools and Equipment	Iron powder (Sludge) and Chips	Magclean	Chip Magclean	Paper Filter after Treatment by Magclean	Magclean after Separation and Collection by Chip Conveyor	(Remarks) Chip Conveyor
Precision grinding machine Honing machine	Sludge, fine iron powder	※3 △	×	※1 △	—	×
Cylindrical grinding machine Centerless grinding machine Surface grinding machine Rotary grinding machine	Flocculent fine iron powder Fine iron powder	○ ○	△ △	※1 ○ ○	— ※2 —	× ×
Machining center Milling machine Lathe Gear cutting machine Broaching machine Drilling machine Special machine	Crushed chips End milling Spiral helical shape 60 mm or less Cylindrical helical shape 60 mm or less Tangled chips 60 mm or less	× × × ×	○ × × ×	× × × ※1 ×	※2 ○ ○ ○ ○	○ ○ ○ ○
Washing machine	Fine iron powder about 100 μm	○	△	※1 ○	—	×
Hardening equipment	Fine iron particles of various shapes	△	△	△	×	×

- : Effectively functions at high collection rate.
- △: Functions but decreases in collection rate and process amount expected.
- ×: Not suitable.
- ※1: Nonmagnetic fine particles such as abrasives can be collected.
- ※2: Two steps of chip collection and fine iron powder collection are possible.
- ※3: There can be cases unable to be collected by the standard type. Please contact us.

[mm (in)]

Model			Flow Capacity	Power Source	Motor	Dimensions																	Mass					
Standard	High Magnetic Force	Super High Magnetic Force				L	B	H	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	e	P	P <sub>1</sub>	P <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>		D	D <sub>1</sub>	d <sub>1</sub>	D <sub>2</sub>	d <sub>2</sub>
MS-2Fa	MS-2FaH	MS-2FHP	20L/min	3P-200/220 VAC 50/60Hz	25W	375 (14.7)	292 (11.5)				15 (0.59)			120 (4.72)	91 (3.58)	141 (5.55)						57 (2.24)	PS-1-1/2			15kg/33 lb		
MS-4Fa	MS-4FaH	MS-4FHP	40L/min			380 (14.9)	342 (13.4)	271 (10.6)	330 (12.9)		50 (1.96)	55 (2.16)	20 (0.78)		200 (7.87)	170 (6.69)	141 (5.55)	191 (7.52)	200 (7.87)	135 (5.31)	84 (3.30)	60 (2.36)		70 (2.75)	PS-2	70 (2.75)	18kg/39 lb	
MS-6Fa	MS-6FaH	MS-6FHP	60L/min			510 (20.0)	528 (20.8)	286 (11.2)	460 (18.1)	30 (1.18)	65 (2.55)	65 (2.55)	20 (0.78)		270 (10.6)	220 (8.66)	191 (7.52)	241 (9.48)	215 (8.46)	142 (5.59)	60 (2.36)	67 (2.63)	114 (4.48)		85 (3.34)	PS-2-1/2	85 (3.34)	21kg/46 lb
MS-8Fa	MS-8FaH	MS-8FHP	80L/min			515 (20.2)	628 (24.7)				86 (3.38)	86 (3.38)	25 (0.98)		420 (16.5)	341 (13.4)	441 (17.3)		151 (5.94)					85 (3.34)	PS-2-1/2	102 (4.01)	32kg/70 lb	
MS-12Fa	MS-12FaH	MS-12FHP	120L/min			678 (26.6)	728 (28.6)	321 (12.6)	600 (23.6)		90 (3.54)	95 (3.74)	25 (0.98)		470 (18.5)	441 (17.3)	491 (19.3)		250 (9.84)	165 (6.49)	95 (3.74)	77 (3.03)		102 (4.01)	PS-3		38kg/83 lb	
MS-18Fa	MS-18FaH	MS-18FHP	180L/min			655 (25.7)									400 (15.7)	520 (20.4)	491 (19.3)	541 (21.3)									45kg/99 lb	
MS-24Fa	MS-24FaH	MS-24FHP	240L/min																							50kg/110 lb		

※The Legs to adjust the height and the Inlet box are optional.

MAGNETIC TOOLS FOR WELDING OPERATION  
 LIFTING MAGNET  
 MAGBORE  
 CHIP & SLUDGE TRANSPORTERS  
 ENVIRONMENTAL EQUIPMENT  
 MAGNETIZERS AND DEMAGNETIZERS  
 MAGNETIC EQUIPMENT FOR TRANSPORTATION  
 MAGNETIC SEPARATORS  
 HIGH GRADE MAGNETIC SEPARATORS  
 MEASURING TOOLS  
 MEASURING INSTRUMENTS  
 MAGNETIC MATERIALS