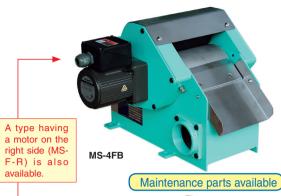
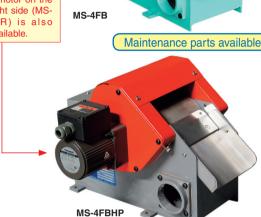
# Magnetic coolant separator





Drum surface max. flux density 0.5T!

To machine

Pump

[Application]

This unit is incorporated in the grinding fluid purification and circulation system for grinders to remove iron powder, a major part of purification.

When this is used together with a tank in which particles other than iron powder such as abrasive grains are separated by floating and precipitation, repurified and regenerated grinding fluid can be supplied to grinders again.

- ●The construction of a stationary magnet and a rotary outer drum shell has no magnet in the area of the rake plate to allow 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 areas are covered to enhance safety as well as to prevent grinding fluid from splashing/scattering.
- The outlet location can be selected by the user, right, left or bottom, to allow flexible change of the circulation system layout.
- ●The high magnetic force type (MS-FaH: drum surface max. flux density 0.3T (3000G))/ super high magnetic force type (MS-FHP: 0.5T (5000G)) are most suitable for collection of weak magnetic and minute sludge.
- A type having a motor on the right side (MS-F-R) is also available.

# Precaution for use

This is dedicated to grinding fluid (water soluble) only. If you plan to use the Magclean under the following conditions or if you cannot decide a suitable model, please fill the Magclean inquiry sheet at the end of this catalog and consult with us in advance.

- · Grinding fluid is oil based.
- · Liquid other than grinding fluid is used (such as fresh water and chemical liquid).
- · The squeezing roller forced drive type is used.
- · KANETEC MS-D type is to be updated. · Liquid to use is not at normal temperature.

\*Please see the Facsimile Communication Form (Selection Data) on page 173 also.

# Applications of Magclean

Machine Tools and Equipment	Iron Powder (Sludge) and Chips	Magclean	Chip Magclean	Paper Filter after Treatment by Magclean	Separation and Collection by Chip Conveyor	(Ref.) Chip Conveyor
Precision grinding machine Honing machine	Sludge Fine iron powder	Δ	×	<b>※1</b> △	-	×
Cylindrical grinding machine Centerless grinding machine	Flocculent fine iron powder	*3	Δ	<sup>₩1</sup> <sup>₩3</sup>	_	×
Surface grinding machine Rotary grinding machine	Fine iron powder	0	Δ	*1	_	×
Machining center	Crushed chips End milling	×	0	×	*2	0
Milling machine Lathe	Spiral helical shape 60 mm or less	×	×	×	*2	0
Gear cutting machine Broaching machine Drilling machine	Cylindrical helical shape 60 mm or less	×	×	×	*2	0
Special machine	Tangled chips 60 mm or less	×	×	×	*2	0
Washing machine	Fine iron powder about 100 μm	0	Δ	*1	-	×
Hardening equipment	Fine iron particles of various shapes	Δ	Δ	*1 △	×	×
O: Effectively functions and h	sigh collection rate	%1: Nonmon	notio fino no	rtiolog guob og	obrooiyoo oon b	o collected

x · Not suitable

- ○: Effectively functions and high collection rate.
   △: Functions but collection rate and processing amount expected to drop.
- \*1: Nonmagnetic fine particles such as abrasives can be collected.\*2: Two steps of chip collection and fine iron powder collection are
- \*3: May not be collected by the standard type. Please contact us

H <sub>2</sub> H <sub>1</sub>	et <u>d1</u> D \( \phi D_1 \)	Pi		Outlet $d_2$ OD $\phi D_2$
-	e		+1   <u>, L</u> 4	<u>L2</u>

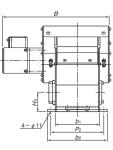
(Gravity separation)

Principle of grinding

fluid circulation

Tank

From machine





			Lmm (in) _
Model		Dimensions	
iviodei	L	W	Н
MS-2F*	193 (7.59)	148 (5.82)	82 (3.22)
MS-4F*	267 (10.5)	165 (6.49)	95 (3.74)
MS-6F*	267 (10.5)	165 (6.49)	95 (3.74)

[mm(in) Dimensions Model W MS-8F 308 (12.1) MS-12F\* 410(16.1) 210(8,26) MS-18F 460 (18.1) 230 (9.05)

_	W3-2-1	310 (20.0)	
12/18/24F*>			

(Imm)														mm (in)														
	Model		Processing	Power												Dimer	nsions											
Standa	High mag. force	Super high mag. force	Capacity	Source	Motor	L	В	Н	L1	L2	Lз	L <sub>4</sub>	е	Р	P1	P2	b1	b <sub>2</sub>	H1	H2	Нз	H4	D	D1	d1	D2	d <sub>2</sub>	Mass
MS- 2	FB MS- 2FBH	MS- 2FBHP	20L/min			375 (14.7)	278 (10.9)						15 (0.59)			120 (4.72)	91 (3.58)	141 (5.55)						57 (2.24)	PS-1· 1/2			15kg/ 33 lb
MS- 4	FB MS- 4FBH	MS- 4FBHP	40L/min		25W	380	328 (12.9)	271 (10.6)	330 (12.9)		50 (1.96)	55 (2.16)			200 (7.87)	170 (6.69)	141 (5.55)	191 (7.52)	200 (7.87)	135 (5.31)	84 (3.30)	60				70 (2.75)	PS-2	18kg/ 39 lb
MS- 6	FB MS- 6FBH	MS- 6FBHP	60L/min	3-phase		(14.9)	378 (14.8)						20 (0.78)			220 (8.66)	191 (7.52)	241 (9.48)				(2.36)		70 (2.75)	PS-2			21kg/ 46 lb
MS- 8	FB MS- 8FBH	MS- 8FBHP	80L/min	200 VAC/ 220 VAC,		510 (20.0)	505 (19.8)	286	460	30 (1.18)	65 (2.55)	65 (2.55)		20 (0.78)	270	320 (12.6)	291 (11.4)	341 (13.4)	215	142 (5.59)	60		114 (4.48)			(3.34)	PS-2· 1/2	70 lb
MS-12	FB MS-12FBH	MS-12FBHP	120L/min	50/60 Hz	40W	515 (20.2)	605 (23.8)	(11.2)	(18.1)		86 (3.38)	86 (3.38)			(10.6)	420 (16.5)	391 (15.3)	441 (17.3)	(8.46)	151 (5.94)	(2.36)	67 (2.63)		85 (3.34)	PS-2· 1/2	102 (4.01)	PS-3	38kg/ 83 lb
MS-18	FB MS-18FBH	MS-18FBHP	180L/min		4000	655	655 (25.7)	321	600		80	95	25 (0.98)		400	470 (18.5)	441 (17.3)	491 (19.3)	250	165	95	77		102	PS-3		PS-4	45kg/ 99 lb
MS-24	FB MS-24FBH	MS-24FBHP	240L/min			(25.7)												(9.84)	(6.49)	(3.74)	(3.03)		(4.01)	P3-3	_	ro-4	50kg/ 110 lb	

# Model MS MAGCLEAN\* HEIGHT ADJUSTABLE LEGS/INFLOW BOX (Optional)

# Inflow box (Facilitates alignment of inlet) Height adjustable leg (Facilitates adjustment of height of inlet)

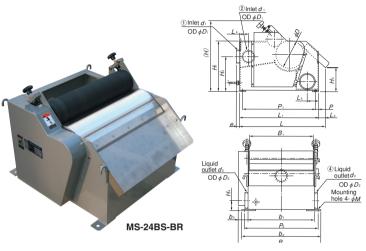
# [Application]

An optional unit to enable the Magclean to be mounted on a machine easily.

		Model			Dimensions	;
	Standard	High mag. force	Super high mag. force	h	L	Н
)	MS- 2FB	MS- 2FBH	MS- 2FBHP		110(4.33)	
	MS- 4FB	MS- 4FBH	MS- 4FBHP	105(4.13)	130(5.11)	105(4.13)
	MS- 6FB	MS- 6FBH	MS- 6FBHP		150 (5.90)	
	MS- 8FB	MS- 8FBH	MS- 8FBHP	155(6.10)	170(6.69)	115(4.52)
	MS-12FB	MS-12FBH	MS-12FBHP	155(6.10)	190(7.48)	115(4.52)

\*For MS-18FB/FBH/FBHP and MS-24FB/FBH/FBHP, please contact us.

### Model MS-BS **MAGCLEAN\***



## [Application]

Suitable for removal of iron powder from grinding fluid.

If you plan to use this model for washing purpose (fresh water and other liquids), please contact us.

### ■Model designation of MS-BS

When ordering MS-BS Series, be sure to specify the direction of the inlet and liquid outlet in the model designation as follows:

# MS-24BS-B L

## Direction of liquid outlet

- L: Left when viewed from the sludge discharge direction. (Liquid outlet 3) in the following figure)
- R: Right when viewed from the sludge discharge direction. (Liquid outlet 4 in the following figure)

# Direction of the inlet

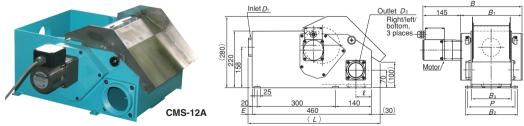
- B: Backside (Inlet  $\widehat{\mathbb{O}}$  in the following figure) R: Right when viewed from the sludge discharge direction. (Inlet 2) in the following figure)

[mm(in)]

Model	Inlet	Liquid	Processing	Power	Motor												Din	nensi	ons												Mass
iviouei	Direction	Liquid Discharge Direction	Capacity	Source	IVIOLOI	L	В	Н	L <sub>1</sub>	L <sub>2</sub>	Lз	L <sub>4</sub>	е	P	P <sub>1</sub>	P <sub>2</sub>	B <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	bз	H <sub>1</sub>	H <sub>2</sub>	Нз	H <sub>4</sub>	М	D	D <sub>1</sub>	d <sub>1</sub>	D <sub>2</sub>	d <sub>2</sub>	IVIASS
MS-24BS-BL	1	3											25																		
MS-24BS-BR	] "	4	240L/		90W	670	645	534	620		90	_	(0.98)	25	570	572	495	515	615	80	386	268	189	77	17	214 (8.42)	102	PS-3	127	PS-4	115kg/
MS-24BS-RL		3	min		9000	(26.3)	(25.3)	(21.0)	(24.4)		(3.54)	70		(0.98)	(22.4)	(22.5)	(19.8)	(20.2)	(24.2)	(31.5)	(15.2)	(10.5)	(7.44)	(3.03)	(0.66)	(8.42)	(4.01)	173-3	(5.00)	P3-4	253 lb
MS-24BS-RR		3									(2.75)	_																			
MS-36BS-BL	(1)	3		3-phase						]			35																		
MS-36BS-BR		4	360L/	200 VAC,			839			50	105	_	(1.37)			730	630		790			345		100			127	PS-4	154	PS-5	292kg/
MS-36BS-RL		3	min	50/60			(33.0)			(1.96)	(41.3)	80			(		(24.8) (26.3) (31.1)			(13.5)		(3.93)			(5.00)	P3-4	(6.06)	P3-3	643 lb		
MS-36BS-RR		4		Hz	100W	830		670	780			(3.15)	_	30	720					110	500		264		22	317					
MS-50BS-BL	(I)	3			10000	(32.6)		(26.3)	(30.7)				35	(1.18)	(28.4)					(4.33)	(19.6)		(10.4)		(0.86)	(12.4)					
MS-50BS-BR		4	500L/				1139				120		(1.37)			1030	930	968	1090			358		115			154	PS-5	182	DC 6	375kg/ 826 lb
MS-50BS-RL	(2)	3	min				(44.8)				(3.54)	90				(40.5)	(36.6)	(38.1)	(42.9)			(14.0)		(4.52)			(6.06)	P3-5	(7.16)	P3-6	020 ID
MS-50BS-RR		4										(3.54)	_																		

※The numbers in "Inlet Direction" and "Liquid outlet" correspond to No. ① to ④ in the figures above. Be sure to check the directions.

# **CHIP MAGCLEAN\***



# [Application]

This Chip Magclean is designed to remove/collect chips in coolant that is discharged from cutting operations by machine tools.

- ●The employment of a magnetic drum with special magnetic pole array ensures a high rate of collection.
- ●The newly designed scrapper improves performance to separate and remove chips from the magnetic drum.
- ●The expanded discharge space helps stable discharge. The higher side wall helps prevent overflowing.
- The overall height has been reduced by 80 mm by changing the motor mounting position, enabling the Chip Magclean to be mounted in places where it could not be mounted.

[mm (in)]	

Model	Processing							Dim	mensions					Mass		
iviodei	Capacity	Source	Motor	L	В	E	l	B <sub>1</sub>	B2	Вз	P	D1	D <sub>2</sub>	IVIdSS		
CMS-4A	40L/min	3-phase 200 VAC/ 220 VAC. 25V		200 VAC/		505(19.8)	380 (14.9)	20(0.78)	70(2.75)	234(9.21)	200 (7.87)	152 (5.98)	180 (7.08)	PS-2	PS-2	22kg/ 48 lb
CMS-8A	80L/min				220 VAC,	25W	505(19.0)	430 (16.9)	20(0.76)	/0(2.75)	284(11.1)	250 (9.84)	202 (7.95)	230 (9.05)	1 175-2	PS-2·1/2
<b>CMS-12A</b> 120L	120L/min	50/60 Hz		515(20.2)	580 (22.8)	25 (0.98)	60 (2.36)	434(17.0)	400 (15.7)	352 (13.8)	380(14.9)	PS-2·1/2	PS-3	41kg/ 90 lb		

LIFTING MAGNET

MAGBORE\*

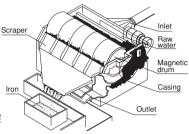
ENVIRONMENTAL EQUIPMENT

MAGNETIZER AND DEMAGNETIZER MAGNETIC MAGNETIC EQUIPMENT SEPARATORS FOR CONVEYANCE

POWERFUL MAGNETIC | SEPARATORS







### [Application]

Suitable for removing iron from waste water in ironworks and cooling water for steel rolling. This model is also used to remove/ collect iron from washing water from blast furnaces, sintering furnaces, dust collectors and other industrial waste water.

### [Features]

- ■A large capacity ranging from 60 t/h to 360 t/h and a wide variety of types. Highly economical.
- A high rate of collection of iron from waste water for economical operations. A collection rate of 94.5% from waste water of 5% concentration (mixture ratio) of rolled scales of 0.02 to 2 mm in grain size.
- The simple mechanism is likely to cause less trouble. The magnetic effect is unchanging and lasts long.
- Smooth inflow and outflow of raw water. As a secondary effect, part of oily substances is also removed.

														[mm (in)]			
Model	Processing	Power	Motor	Drum Revolution				Dimens	sions					Mass			
Model	Capacity	Source	IVIOLOI	Didili Revolution	D	В	B <sub>1</sub>	L	l 1	h <sub>2</sub>	d <sub>1</sub>	Н	h <sub>1</sub>	IVIdSS			
FMS- 60	60t/h		0.4 kW	4.1/4.8rpm (50/60Hz)		650 (25.5)	1130 (44.4)	2020 (79.5)			280 (11.0)	1450 (57.1)		2100kg/ 4630 lb			
FMS- 120	120t/h		0.75kW	4.2/5.0rpm		1300 (51.2)	1780 (70.0)	2300 (90.5)	1700 (66.9)		305 (12.0)	1530 (60.2)		3500kg/ 7716 lb			
FMS- 180	180t/h	3-phase 200 VAC/ 220 VAC	200 VAC/	200 VAC/	U./ SKVV	(50/60Hz)	800	1950 (76.7)	2470 (97.2)	2300 (90.5)		900	330(12.9)	1530 (60.2)	1150	5300kg/11685 lb	
FMS- 240	240t/h	220 VAC, 50/60 Hz	1 = 1/1/	4.3/5.2rpm	(31.5)	2600 (102.4)	3140(123.6)	2600 (102.4)		(35.4)	330(12.9)		(45.2)	7350kg/16204 lb			
FMS- 300	300t/h	1.5 kV	50/60 HZ	50/60 HZ	1.5 kV	1.5 kW	(50/60Hz)		3250 (128.0)	3820(150.4)	2800 (110.2)	1800 (70.9)		350(13.7)	1591 (62.6)		9450kg/20834 lb
FMS- 360	360t/h			2.2 kW	3.9/4.7rpm (50/60Hz)		3900 (153.5)	4490 (176.8)	2900 (114.2)			350(13.7)			11300kg/24912 lb		

# Examples of data

Liquid to Process	Iron Scale Grain Size (mm)	Super Magclean	Amount of Processing Water	Raw Water Concentration	Processing Water Concentration	Collection Rate
Rolling cooling water	0.04 -5	FMS-240 (4000L/min)	3000L/min	20000P.P.M.	909P.P.M.	95.5%
Continuous casting cooling water	0.04 -0.3	FMS-180 (3000L/min)	1500L/min	14800P.P.M.	784P.P.M.	94.7%
Sand filter backwash water	0.005-0.04	FMS-120 (2000L/min)	200L/min	41600P.P.M.	1780P.P.M.	95.7%

<sup>\*</sup>The collection rate varies according to the concentration of raw water and grain size distribution.

# **SPIRAL MAGNETIC CONVEYOR**



# A guide for selection of models

Machine Tool	Drilling	machine	Lathe	Milling	machine	Gear cuttin	ng machine	Broaching machine	Special	machine	Grinding machine
Shape of Chips	Ribbon shaped	Tangled	Flat and helical	Skew and helical	Long cylindrical and helical amminum	Short cylindrical and helical	Spiral and helical	Spiral	Curled	Crushed	Fine iron powder
Magnetic Chip Conveyorr MCO · MCOL	0	0	0	0	0	0	0	0	0	0	
Spiral Magnetic Conveyor KSC · KSCT							0	0	0	0	
Magclean MS-F · MS-BS											0
Chip Magclean CMS						0	0	0	0	0	

## [Application]

Widely used as a means to transfer chips produced from machining by machine tools to a point of collection. If oil is sticking to chips, they can be degreased by letting oil drop naturally when chips are being transferred. In particular, this model is suitable for transferring chips from gear cutting machines, end milling machines and milling machines.

This model can also be used for continuous transfer of granular parts. [Features]

# Superb durability and safety

Simple construction and practically no maintenance required.

Since the mechanically moving (rotating) parts are housed in the enclosed cylinder, there is no fear of accidents due to collision.

### Economical functions

High processing capacity and high transfer efficiency.

As chips are carried by the spiral slide movement, their movement causes sticking oil to drop off effectively.

There is no place where oil stays and therefore oil natural drop is ideal to improve the efficiency of collection of liquid.

# Low running cost

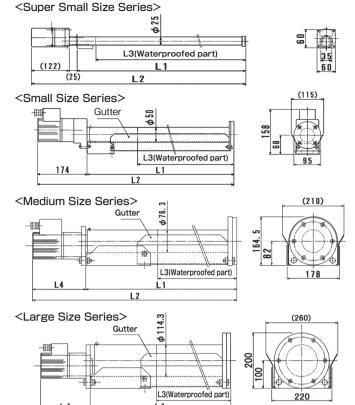
Only a slight amount of power is required to drive the rotation. Most of the work is handled by the permanent magnets.

\*For other special lengths, please contact us. The length can be increased in units of 100 mm.

# The waterproof feature enables collection of chips in liquid.

\*The motor is not waterproofed. Keep it away from water.





### (Construction)

The spiral magnetic conveyor motor slowly rotates the internal shaft with spirally arranged magnets inside the nonmagnetic stainless steel cylinder. Magnetic chips/pieces attracted on the outside of the cylinder are transferred in a sliding motion.

# Qupor Small Siza Sarios

Super Small Siz	e Series								[mm (in)]
Model	Nominal Size	Dimensions			Processing	Power Source	Motor	Revolution	Mass
Wodel	Norminal Size	L <sub>1</sub>	L2	Lз	Capacity	Power Source	IVIOLOI	Revolution	IVIASS
KSC -W0340	$\phi 25(1.96) \times 400(15.7)$	400 (15.7)	547 (21.5)	315(12.4)		100 VAC		10/12rpm (50/60Hz)	Approx. 3.0kg/ 6.61 lb
KSC -W0360	$\phi 25(1.96) \times 600(23.6)$	600(23.6)	747 (29.4)	515(20.2)	2kg/h		6W		Approx. 3.5kg/ 7.71 lb
KSC -W0380	$\phi 25(1.96) \times 800(31.5)$	800 (31.5)	947 (37.2)	715(28.1)		(50/60Hz)		(50/60HZ)	Approx. 4.0kg/ 8.82 lb

Small	size Serie	S								[mm(in)]
Model	Type	Nominal Size		Dimensions		Processing	Power Source	Motor	Revolution	Mass
Wodel	Туре	Northi ai Size	L <sub>1</sub>	L <sub>2</sub>	Lз	Capacity	1 ower source	IVIOLOI	rievolation	IVIGSS
KSC -W0505	Standard	φ50(1.96) × 500(19.6)	551 (21.6)	725 (28.5)	350(13.7)					Approx. 6.0kg/ 13.2 lb
KSCT -W0505	Gutter included	φ30(1.90) × 300(19.0)	331(21.0)	725(28.5)	330(13.7)					Approx. 7.0kg/ 15.4 lb
KSC -W0510	Standard	φ50(1.96)×1000(39.4)	1041 (40.9)	1215(47.8)	840 (33.0)	60kg/h	3-phase	25W	30/36rpm	Approx.10.0kg/ 22.0 lb
KSCT -W0510	Gutter included	φ30(1:90) × 1000(39:4)	1041 (40.9)	1215(47.8)	040 (33.0)	OUNG/11	200/220 VAC	2500	(50/60Hz)	Approx.11.0kg/ 24.2 lb
KSC -W0515	Standard	φ50(1.96) ×1500(59.0)	1531 (60.2)	1705 (67.1)	1330(52.3)					Approx.14.0kg/ 30.8 lb
KSCT -W0515	Gutter included	φ50(1.96) × 1500(99.0)	1531 (60.2)	1705(67.1)	1330(52.3)					Approx.16.0kg/ 35.2 lb

# Medium Size Series

iviediui	n Size Se	ries									[mm (in)]
Model	Туре	Nominal Size	1.	Dimer	nsions	1.	Processing Capacity	Power Source	Motor	Revolution	Mass
KSC -W0705	Standard	φ76.3(3.00) × 500(19.6)	514	656	270	L <sub>4</sub>	Capacity				Approx.15.0kg/ 33.0 lb
KSCT -W0705	Gutter included	φ /6.3 (3.00) Χ 500 (19.6)	(20.2)	(25.8)	(10.6)	142		25W	OEW		Approx.17.0kg/ 37.4 lb
KSC -W0710	Standard	φ76.3 (3.00) × 1000 (39.4)	1014	1156	770	(5.59)			2500		Approx.21.0kg/ 46.3 lb
KSCT -W0710	Gutter included	φ / 0.3 (3.00) × 1000 (39.4)	(39.9)	(45.5)	(30.3) 90kg/h	3-phase		30/36rpm	Approx.26.0kg/ 57.3 lb		
KSC -W0715	Standard	φ76.3(3.00) ×1500(59.0)	1514	1694	1270		90kg/II	200/220 VAC		(50/60Hz)	Approx.25.0kg/ 55.0 lb
KSCT -W0715	Gutter included	ψ 7 6.3 (3.00) × 1300 (39.0)	(59.6)	(66.6)	(49.9)	180			40W		Approx.33.0kg/ 72.7 lb
KSC -W0720	Standard	φ76.3(3.00)×2000(78.7)	2014	2194	1770	(7.08)			4000		Approx.30.0kg/ 66.1 lb
KSCT -W0720	Gutter included	Ψ70.3 (3.00) ×2000 (78.7)	(79.2)	(86.3)	(69.6)						Approx.41.0kg/ 90.4 lb

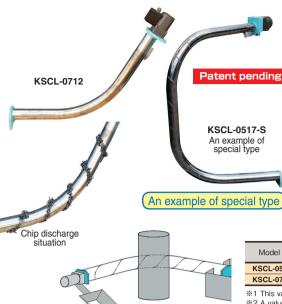
# I arge Size Series

Laige .		55									[mm (in)]		
Model	Type	Nominal Size	Dimensions				Processing	Power Source	Motor	Revolution	Mass		
Model	Type	Norminal Size	L <sub>1</sub>	L <sub>2</sub>	Lз	L <sub>4</sub>	Capacity	1 Ower Source	IVIOLOI	rievolution	IVIBSS		
KSC -W1110	Standard	φ114.3(4.49) ×1000(39.4)	1021	1201	770						Approx.35.0kg/ 77.1 lb		
KSCT -W1110	Gutter included	φ114.3(4.49) × 1000(39.4)	(40.1)	(47.2)	(30.3)						Approx.40.0kg/ 88.2 lb		
KSC -W1115	Standard	φ114.3(4.49) ×1500(59.0)	1516	1696	1270	180			40W		Approx.46.0kg/101.4 lb		
KSCT -W1115	Gutter included	φ114.3(4.49) × 1300(39.0)	(59.6)	(66.7)	(49.9)	(7.08)					Approx.54.0kg/119.0 lb		
KSC -W1120	Standard	φ114.3(4.49) ×2000(78.7)	2011	2191	1770				250kg/h	3-phase		30/36rpm	Approx.56.0kg/123.4 lb
KSCT -W1120	Gutter included	φ114.3(4.49) ×2000(76.7)	(79.1)	(86.2)	(69.6)		250Kg/11	200/220 VAC		(50/60Hz)	Approx.67.0kg/147.7 lb		
KSC -W1125	Standard	φ114.3(4.49) ×2500(98.4)	2506	2708	2260				60W		Approx.07.0kg/147.7 lb		
KSCT -W1125	Gutter included	φ114.3 (4.49) ×2500 (96.4)	(98.6)	(106.6)	(88.9)	202					Approx.81.0kg/178.6 lb		
KSC -W1130	Standard	φ114.3(4.49) ×3000(118.1)	3001	3203	2760	(7.95)			6000		Approx.78.0kg/171.9 lb		
KSCT -W1130	Gutter included	Ψ 114.5 (4.49) \ 3000 (116.1)	(118.1)	(126.1)	(108.6)						Approx.95.0kg/209.4 lb		

<sup>\*</sup>The processing capacity is a value measured in conveying SS400 chips from a gear cutting machine in a horizontal posture.

<sup>\*</sup>The drive posture is allowed up to an inclination of 60 degrees with the motor on top. (However, the capacity drops as the inclination angle increases.) \*Model KSCT is equipped with a gutter to receive oil that drops from chips during conveyance. \*For other special lengths, please contact us. The length can be increased in units of 100 mm.

# Model KSCL Magnetic Transfer Unit "TRANSFERLESS CONVEYOR" (CREEPER MAG)



# Flexible chip transfer! Lean layout to keep work environment neat! Shapes that fit installation space!

# [Application]

This model is suitable for places where the linear type KSC is difficult to install.

- The bending shape has been realized by a special construction to allow setting of the bending direction and angle according to installation conditions.
- This model can be installed in a very small space such as inside a machine.
- ●The layout where two linear type units are used to circumvent the existing facilities can be replaced by one unit.
- Special treatment of the pipe surface ensures reliable transfer. (Model KSCL-05)

### Precaution for use

If you want to use the main unit immersed in liquid, please consult with us

[mm(in)]

Model	Max. Length	Applicable Pipe Dia.		Max. No. of Bending Times	Processing Capacity	Power Source	Motor **4	Mass
KSCL-05	Max. 4m	50 (1.96)	250 (9.84)	2 times *1	18kg/h *2	3-phase 200/220 VAC	25W	12kg/26.4 lb
KSCL-0712	Max. 3m	76.3 (3.00)	500(19.6)	∠ times ∞ i	25kg/h *3	50/60Hz	40W	25kg/55.1 lb

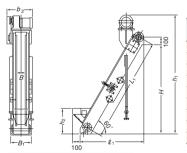
- ※1 This varies according to shapes. Please contact us in advance.
- \*\*2 A value obtained with SS400 chips using the KSCL-0517-S spec.
  \*\*3 A value obtained with SS400 chips using the KSCL-0712 spec.
- ¾4 Varies according to specifications such as length

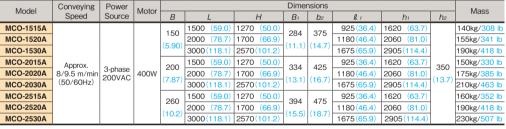
# Model MCO MAGNETIC CHIP CONVEYOR

### [Application]

This model is designed to effectively attract, convey and remove chips produced from machine tools by a magnetic force while letting oil sticking to chips drop naturally. (This model is suitable for chips shorter than 60 mm.)

- As chips are held by magnets, they can be conveyed on a sharp inclination. This feature enables it to shorten the line and reduce the floor area, thus contributing to effective three-dimensional utilization of factory space.
- Fine chips can be attracted and oil can be removed efficiently.
- The optimum design by use of high-performance permanent magnets and little attenuation of the magnetic force. Simplified mechanism for trouble-free operation.



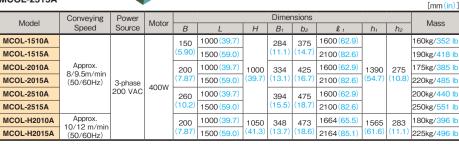


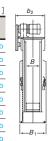
### **MAGNETIC CHIP CONVEYOR** Model

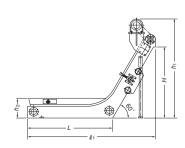


This model is installed in front of a tank to which cutting fluid flows from a machine tool to attract (pick up) chips by a magnetic force in cutting fluid to remove and convey them. (This model is suitable for chips shorter than 60 mm.)

- A model that plays two roles of horizontal conveyor and inclined conveyor by one unit.
- Can be installed directly on an oil tank or machine tool.







# Increased rate of removing impurities in coolant by magnet & cyclone!

# [Application]

Suitable for efficiently collecting valuable sludge of weak magnetic and nonmagnetic materials.

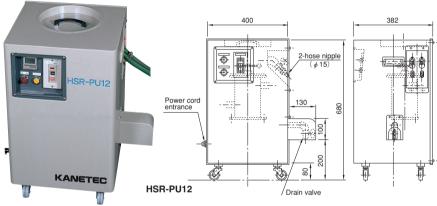
- [Features]
- The cyclone separator enables it collect nonmagnetic materials.
- Collected materials can be dehydrated by the dehydration function.
- ■A filter collection type dehydration container that is easy to handle is employed.
- The twin-tub type tank construction reduces the amount of impurities that enter the clean tank.

_		_
mm	lin'	١ı
LIIIIII	(IIII)	<i>'</i>

Model	Processing	L	Jimension	S	Tank	Power Source		Ou	tput	Remarks
Iviouei	Capacity	Width	Depth	Height	Capacity	rowel Source	Cyclone pump	Supply pump	Magclean	nemarks
CS-MS-4T	40L/min	1200	800	1300	180L	3-phase 200 VAC, 50/60 Hz	200/220VAC	3-phase 200 VAC	3-phase 200 VAC 50/60Hz 25W	Magclean included
CS-4T	40L/IIIII	(47.2)	(31.5)	(51.1)	TOUL	3-phase 220 VAC, 60 Hz	0.75kW	50/60Hz 100W	_	Magclean not included

# Model HSR-PU MAGNETIC PREFILTER WITH PUMP

# Extended Life! **Revolution in Filtering for Wire Electric Discharge Machines!**



- ■Model: HSR-PU12 ■Processing amount: Approx. 1.5 liters/min.
- ■Pump rating: 3-phase, 200/220 VAC, 50/60 Hz, 200W ■Weight: Approx. 60 kg

Caution: For use of the prefilter for kerosene machining fluids, please contact us.

# [Application]

This prefilter collects fine iron powder in machining fluid during fluid circulation inside the machining liquid tank of wire electric discharge machines to prolong the service life of filters.

This can also be used for honing machines and hydraulic circuits (under no pressure).

### [Features]

- This prefilter has a pump and therefore can be started simply by connecting hoses (two hoses) to a machining liquid tank. This can be installed in any place and handled easily.
- The powerful magnetic force of a rare earth magnet improves the sludge collecting rate.
- ■The safe construction with the powerful magnet section secured firmly facilitates cleaning.
- The built-in integrating timer tells when to

# **MAGNETIC PREFILTER**



Magnet unit with sludge adhering pulled out of the tank.



# Magnet cove Inlet

# [Application]

This prefilter removes fine iron powder from machining liquid discharged from a wire electric discharge machine (WEDM). This can also be used for honing machines and hydraulic circuits (under no pressure).

Install this prefilter at a point between a wire electric discharge machine and a pump unit. [mm(in)]

HS-17 175 (6.88) D×200 (7.87) W×230 (9.05) H 1 ½ 12kg/26 lb	Model	Dimensions	Hose Connection	Mass
	HS-17	175 (6.88) D×200 (7.87) W×230 (9.05) H	1 1/2	12kg/26 lb

- ●By roughly removing fine iron powder from machining fluid with the powerful magnet as a pretreatment, the service life of the paper filter, for example, becomes two times longer.
- ●The prefilter collects impurities as well as fine iron powder. Consequently, the paper filter to use may be of coarser type than that of the straight inflow.
  - The duplex construction facilitates removal of fine iron powder.

LIFTING MAGNET