

[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

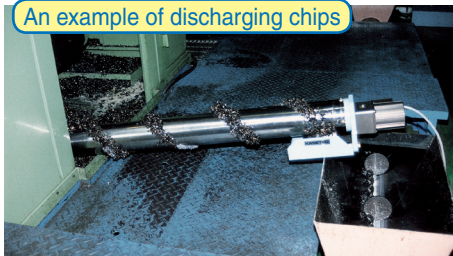
Only a slight amount of power is required to drive the rotation. Most of the work is handled by the permanent magnets.

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

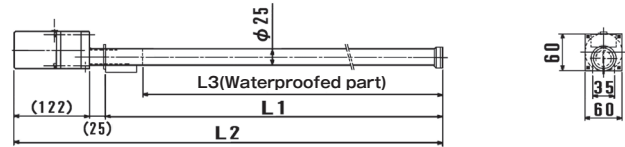
■ The waterproof feature enables collection of chips in liquid.

※The motor is not waterproofed. Keep it away from water.

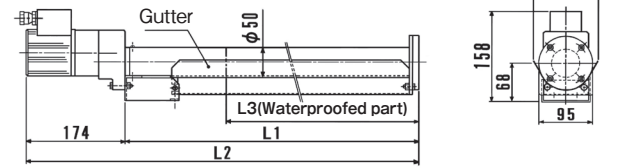
An example of discharging chips



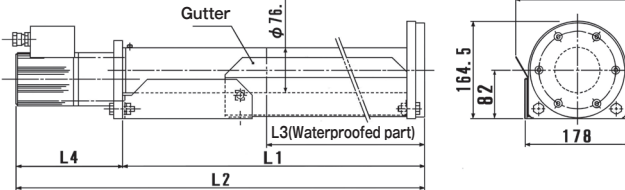
<Super Small Size Series>



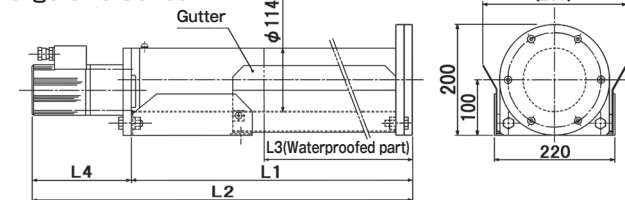
<Small Size Series>



<Medium Size Series>



<Large Size Series>



<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.

■ Super Small Size Series

Model	Nominal Size	Dimensions			Processing Capacity	Power Source	Motor	Revolution	Mass
		L ₁	L ₂	L ₃					
KSC -W0340	φ25 (1.96) × 400 (15.7)	400 (15.7)	547 (21.5)	315 (12.4)	2kg/h	100 VAC (50/60Hz)	6W	10/12rpm (50/60Hz)	Approx. 3.0kg/ 6.61 lb
KSC -W0360	φ25 (1.96) × 600 (23.6)	600 (23.6)	747 (29.4)	515 (20.2)					Approx. 3.5kg/ 7.71 lb
KSC -W0380	φ25 (1.96) × 800 (31.5)	800 (31.5)	947 (37.2)	715 (28.1)					Approx. 4.0kg/ 8.82 lb

■ Small Size Series

Model	Type	Nominal Size	Dimensions			Processing Capacity	Power Source	Motor	Revolution	Mass
			L ₁	L ₂	L ₃					
KSC -W0505	Standard	φ50 (1.96) × 500 (19.6)	551 (21.6)	725 (28.5)	350 (13.7)	60kg/h	3-phase 200/220 VAC	25W	30/36rpm (50/60Hz)	Approx. 6.0kg/ 13.2 lb
KSCT -W0505	Gutter included									Approx. 7.0kg/ 15.4 lb
KSC -W0510	Standard	φ50 (1.96) × 1000 (39.4)	1041 (40.9)	1215 (47.8)	840 (33.0)					Approx. 10.0kg/ 22.0 lb
KSCT -W0510	Gutter included									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									Approx. 16.0kg/ 35.2 lb

■ Medium Size Series

Model	Type	Nominal Size	Dimensions				Processing Capacity	Power Source	Motor	Revolution	Mass
			L ₁	L ₂	L ₃	L ₄					
KSC -W0705	Standard	φ76.3 (3.00) × 500 (19.6)	514 (20.2)	656 (25.8)	270 (10.6)	142 (5.59)	90kg/h	3-phase 200/220 VAC	25W	30/36rpm (50/60Hz)	Approx. 15.0kg/ 33.0 lb
KSCT -W0705	Gutter included		Approx. 17.0kg/ 37.4 lb								
KSC -W0710	Standard	φ76.3 (3.00) × 1000 (39.4)	1014 (39.9)	1156 (45.5)	770 (30.3)	180 (7.08)					Approx. 21.0kg/ 46.3 lb
KSCT -W0710	Gutter included		Approx. 26.0kg/ 57.3 lb								
KSC -W0715	Standard	φ76.3 (3.00) × 1500 (59.0)	1514 (59.6)	1694 (66.6)	1270 (49.9)	180 (7.08)					Approx. 25.0kg/ 55.0 lb
KSCT -W0715	Gutter included		Approx. 33.0kg/ 72.7 lb								
KSC -W0720	Standard	φ76.3 (3.00) × 2000 (78.7)	2014 (79.2)	2194 (86.3)	1770 (69.6)	180 (7.08)	Approx. 30.0kg/ 66.1 lb				
KSCT -W0720	Gutter included		Approx. 41.0kg/ 90.4 lb								

■ Large Size Series

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

※The processing capacity is a value measured in conveying SS400 chips from a gear cutting machine in a horizontal posture.

※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.

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