### **Guided Flat Belt Conveyor SV Series**

by the use of the guided belt to prevent lateral movement.

Features: Streamlined structure has achieved the low cost. The conveyor maintains good running straightness

M5 Screw for Tension

102.5

Guided Belt to Prevent Lateral Movement, End Drive, 2-Groove Frame (Pulley Dia. 30mm)

Compliant

\* CE is not supported for widths of 300 and 400.

Carrying Surface Side B+40 (Frame Width)

Frame Cross Section and Enlarged View (Symmetrical)

# Guided Flat Belt Conveyor SV Series – Guided Belt to Prevent Lateral ement, End Drive, 2-Groove Frame (Pulley Dia. 30mm)

Belt Support Roller \*1

30 Detail A

L+31.6 L: Distance between Pulleys

Ø28.6

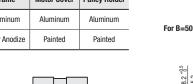
Belt Support Roller \*

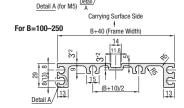
**6W Motor Type** 

\*When L≥400, each slot has four (4) nuts inserted. When counterbores for inserting nuts are required, please specify in alterations. \*1 When L>2005, belt support rollers are mounted at these positions.

① The dimensions in the diagram are for Belt Specifications H (0.8mm thick). Take note that belt thickness varies by Belt Specifications. 1 The "Detail A" section of the frame is used for pulley holder mounting. The nuts cannot be moved to this area.

	Frame	Motor Cover	Pulley Holder			
Material	Aluminum	Aluminum	Aluminum			
Surface Treatment	Clear Anodize	Painted	Painted			

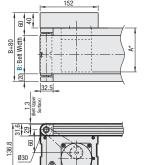




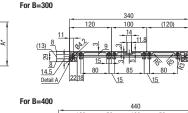
- ① For B=50, down facing slot is not provided. ① For B=200 and 250, \*2 section thickness is 4mm.
- O Compatible with JIS standard hex nuts.
- A pre-assembly insertion nut is not included.

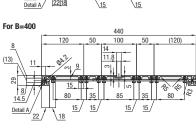
### 25W Motor Type

of Belt



Attached for Single-Phase Induction

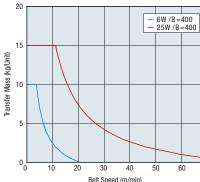




#### **Motor Specifications**

Output (W)	Mo	tor	Reduction	Motor Length		
Output (w)	Specification	Manufacturer	Ratio	(A)		
		Panasonic	12.5-25	101.0		
		Fallasollic	30-180	108.0		
	Constant	Oriental	12.5-18	105.0		
	Speed Motor	Ullelitai	25-180	115.0		
6W		Taiwanese	12.5-75	119.7		
OVV		laiwaiicoc	90-180	125.7		
		Oriental	12.5-18	115.0		
	Variable	Ullelitai	25-180	125.0		
	Speed Motor	Taiwanese	12.5-75	131.9		
		idiwaliese	90-180	137.9		
		Panasonic	5-180	115.0		
	Constant	Oriental	5-18	117.0		
	Speed Motor	Oriental	25-180	127.5		
	Opeca motor	Taiwanese	5-75	129.0		
25W		laiwaiicoc	90-180	136.0		
		Oriental	5-18	127.0		
	Variable	Ullelitai	25-180	137.5		
	Speed Motor	Taiwanese	5-75	139.5		
		iaiwdilese	90-180	146.5		

### **Conveying Capacity**



\*Reference Value may different by selected Belt

#### **Gearhead Reduction Ratio**

\*Conveyance speeds are reference values based on IM (motor rotational speed 1,500 rpm [50 Hz]/1,800 rpm [60 Hz]).
\*May decrease depending on load condition.

Gearhead	Belt Speed (m/min)							
Reduction Ratio	50Hz	60Hz						
5	56.4	67.7						
7.5	37.6	45.1						
9	31.3	37.6						
12.5	22.6	27.1						
15	18.8	22.6						
18	15.7	18.8						
25	11.3	13.5						
30	9.4	11.3						
36	7.8	9.4						
50	5.6	6.8						
60	4.7	5.6						
75	3.8	4.5						
90	3.1	3.8						
100	2.8	3.4						
120	2.4	2.8						
150	1.9	2.3						
180	1.6	1.9						

① For motor specification SCM, this is adjustable up to (1/15) × (max.

The weight that can be conveyed decreases as the speed decreases

## **Guided Flat Belt Conveyor SV Series** Guided Belt to Prevent

Lateral Movement, End Drive, 2-Groove Frame (Pulley Dia. 30mm), continued

Conveyor Resource Site: http://www.misumiusa.com/convevor/ Conveyor selection, Design your own kit, & Maintenance parts search.



Part		Length L			Motor			Motor Manufacturer Selection				
Number	Width B (mm)	5mm Increment				Belt Specification	Prices vary by manufacturer.					
CHIAD	50 100 150 200 250 300 400 S When B = 300 or 400, 0utput = 6W and Gearhead Reduction Ratio = 12.5-30 are disabled.	00, 6W nead 1 Ratio	6 25	(Single-Phase) TA100 TA110 TA115 TA200 TA220 TA230	IM (Constant Speed Motor) SCM (Variable Speed Motor)	5 7.5 9 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	H (General Specifications, Green) W (General Specifications, White) G (For Sliding, Green) S (For Sliding, White) D (Static Conductive) O (Oil Resistant, Navy Blue)	A (Panasonic Motor) B (Oriental Motor) C (Taiwanese Motor)				
SVKB			300-3000	300-3000	300-3000	300-3000	25	(Three-Phase) SA200 SA220 SA230	IM (Constant Speed Motor)	⊗ 5–9 not applicable for 6W Motor	N (Non-Stick Food Grade, White) J (No Belt) * For belts other than the	*SCM (Variable Speed Motor) is not selectable for A.
			6 25	NV (No Motor)	NM (No Motor)	NH (No Gearhead)	above, select from Belt Specification below.	R (No Motor, Gearhead)				

O Connect the motor so that the belt rotates in the direction of conveyance

O When "No motor, gearhead" is selected, the motor mounting hole pitch will vary depending on the motor's power rating. Please see Technical Information in our Conveyor Selection web site for the dimension details.

O When "No motor, gearhead" is selected, this unit will be delivered unassembled. The customer is to assemble the unit according to the included assembly instructions. See our Conveyor Selection site for assembly procedures and packaging details. O Note that warpage might occur in belts with the guided belt depending on the number of plies (thickness).

① It is not recommended to use the conveyor while it is tilted, regardless of the belt specifications.

Belt Specification	Standard Belt	Optional Belt 1	Optional Belt 2	No Belt
General Purpose	H (Green), W (White)	_	_	
For Sliding	G (Green), S (White)	_	_	
For Inclined Transfer	_	_	_	
Grip Type	_	<del>-</del>	GG (Green), GW (White)	
Oil Resistant	0 (Green)	OW (White)	_	(No Belt)
Non-Stick Food Grade	N (White)	NB (Sky Blue), NBG (Lime Green) HH (Green), HW (White)	_	
Food Grade	_	KW (White), KSB (Sky Blue), PHB (Sky Blue)	_	
Static Conductive	D (Black)	_	_	

1 If using Optional Belts, please select motor manufacturer A or B (Motor C is applicable for Standard Belt only.) O Select a belt with a thickness of 1.0 mm or less for a motor output of 6 W.

Part												Availab	le Types										
Number	В	L300 -400	L405 -500	L505 -600	L605 -700	L705 -800	L805 -900	L905 -1000	L1005 -1100	L1105 -1200	L1205 -1300	L1305 -1400	L1405 -1500		L1605 -1700	L1705 -1800	L1805 -1900	L1905 -2000	L2005 -2200	L2205 -2400	L2405 -2600		2605 L2805 2800 -3000 • • • • • • • • • • • • • • • • • •
	50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	150	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SVKB	200	_	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	250	_	_	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	300	_	_	_	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	400	_	_	_	_	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



Machine Weight (With a Motor Output of 6 W)

Belt Width	Distance Between Pulleys L(mm)							
B(mm)	500	1000	1500	2000	2500	3000		
50	3.7	4.8	5.8	6.9	7.9	9		
100	4.4	5.8	7.3	8.7	10.4	11.8		
150	5	6.8	8.7	10.5	12.8	14.6		
200	5.7	7.9	10.1	12.3	15.1	17.3		
250	6.3	8.9	11.6	14.3	17.3	20		
300	6.8	10.5	11.9	16	19	22.1		
400 8.2 12.4 15 19.7 23.9 27.7								
*When the motor output is 25 W, add 1.1 kg.								



Check out misumiusa.com for the most current pricing and lead time.

Motor Position Reversed
Additional Counterbores
Motor Cover with Window
Brackets for Speed Controller Included
Post-Assembly Insertion Nuts Included
Motor with Terminal Box
Stands (Legs)
For datable of elementary and D4070

For details of alterations, see P.1276.

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