

# Flat Belt Conveyor SV Series

## With Meandering Prevention Crosspiece, Center Drive, 2-Groove Frame (Pulley Dia. 30mm)

Dedicated web site <http://fa.misumi.jp/cvs/>  
Conveyor selecting, component purchases,  
and easy search for maintenance parts are available.



■ **Features:** Streamlined structuring has achieved the low cost. The center drive section is adjustable. The conveyor maintains good running straightness by the use of meandering prevention crosspiece to suppress lateral force induced meandering.

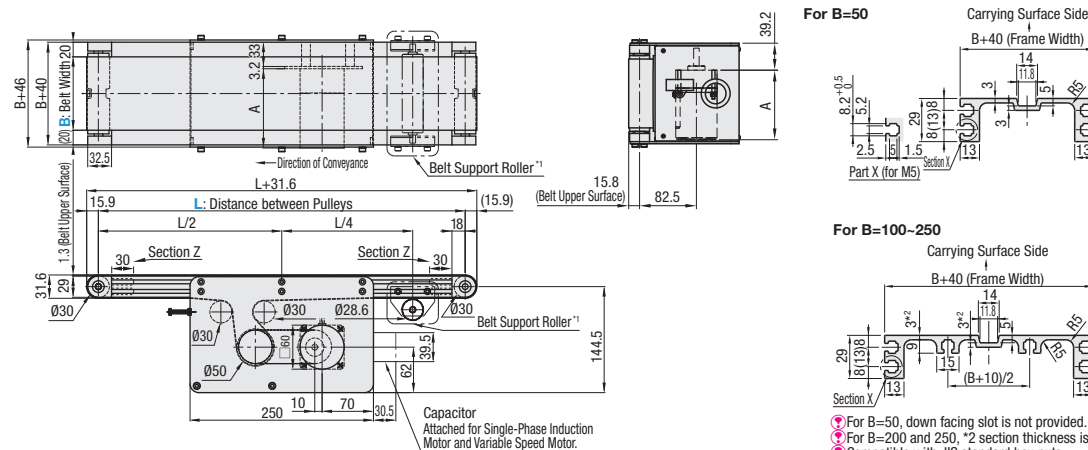


### SVKR

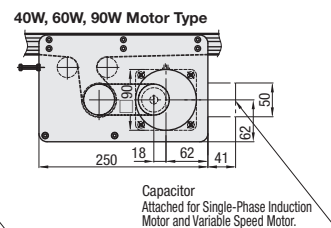
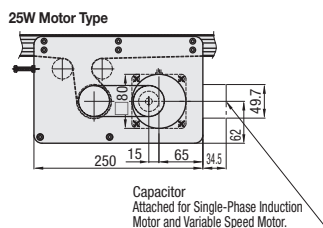
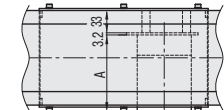
\*When L≥490, each slot has four (4) nuts inserted. When counterbores for inserting nuts are required, please specify in alterations.  
\*1 When L≥2005, belt support rollers are mounted at these positions.  
① The dimensions in the diagram is for Belt Specification H (0.8mm THK.). Take note that belt thickness varies by Belt Specifications.  
For Belt Specifications, see **P.1279**.  
② The Z section of the frame is used for pulley holder mounting. The nuts cannot be moved to this area.

	Frame	Motor Cover ①	Motor Cover ②	Pulley Holder
<b>M</b> Material	Aluminum	Aluminum	Aluminum	Aluminum
<b>S</b> Surface Treatment	Clear Anodize	Paint	Paint	Paint

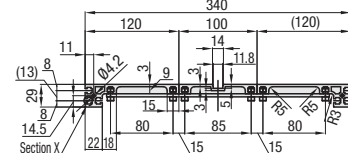
### 6W Motor Type



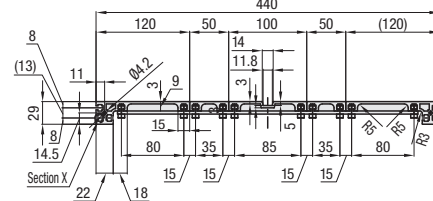
### 25W, 40W, 60W, 90W Motor Type



### For B=300



### For B=400

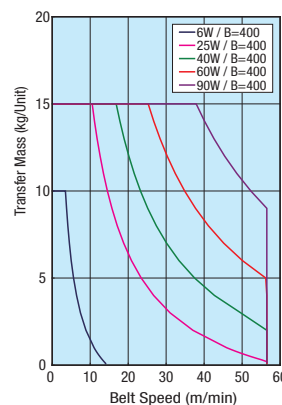


### A Dimension Details

Output (W)	Motor Specification	Manufacturer	Reduction Ratio	A
6W	Induction Motor	Panasonic	5~25	101.0
			30~180	108.0
	Variable Speed Motor	Panasonic	5~25	105.0
			30~180	115.0
	Variable Speed Motor	Panasonic	5~25	111.0
			30~180	118.0
25W	Induction Motor	Panasonic	5~25	115.0
			30~180	125.0
	Variable Speed Motor	Panasonic	5~25	115.0
			30~180	117.0
	Variable Speed Motor	Panasonic	5~25	127.5
			30~180	137.5

Output (W)	Motor Specification	Manufacturer	Reduction Ratio	A
40W	Induction Motor	Panasonic	5~180	142.0
			5~18	147.0
	Variable Speed Motor	Panasonic	25~180	165.0
			5~18	157.0
	Variable Speed Motor	Panasonic	25~180	175.0
			5~18	180.0
60W	Induction Motor	Panasonic	5~180	180.0
			5~18	185.0
	Variable Speed Motor	Panasonic	5~180	210.0
			5~18	215.0
	Variable Speed Motor	Panasonic	5~180	195.0
			5~18	200.0
90W	Induction Motor	Panasonic	5~180	232.0
			5~18	230.0

### Conveying Capacity



\*Reference Value may different by selected Belt.

### Gearhead Reduction Ratio

Gearhead Reduction Ratio	Belt Speed (m/min)	
	50Hz	60Hz
5	47.1	56.5
7.5	31.4	37.7
9	26.2	31.4
12.5	18.8	22.6
15	15.7	18.8
18	13.1	15.7
25	9.4	11.3
30	7.9	9.4
36	6.5	7.9
50	4.7	5.7
60	3.9	4.7
75	3.1	3.8
90	2.6	3.1
100	2.4	2.8
120	2.0	2.4
150	1.6	1.9
180	1.3	1.6

① For motor specification SCM, this is adjustable up to (1/15) × (max. speed).  
The weight that can be conveyed decreases as the speed decreases.

Part Number	B Selection	L 5mm Increment	Output (W)	Voltage (V)	Motor Specification	Gearhead Reduction Ratio	Belt Specification	Motor Manufacturer Selection
SVKR	50 100 150 200 250	390~3000 ① L ≥ 2005 is not selectable for 6W Motor	6 25 40 60 90	TA230 (Single-phase)	IM (Induction 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 (For Electronic Parts Transfer) O (Oil Resistant, Navy Blue) N (Non-adhesive, White) J (No Belt)	A (Panasonic Motor) B (Oriental Motor)
	300 400		40 60 90	TA230 (Single-phase)	IM (Induction Motor) SCM (Variable Speed Motor)	② 5~9 not applicable for 6W Motor	*For belts other than the above, select from Belt Specification below.	
	50 100 150 200 250 300 400		6 25 40 60 90	NV (No Motor)	NM (No Motor)	NH (No Gearhead)		R (No Motor, Gearhead)

- ① Connect the motor so that the belt rotates in the direction of conveyance. For connection diagram, and details of motor and inverter, see **P.1267** onward.
- ② 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.
- ③ 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.
- ④ Note that warpage might occur in belts with meandering prevention crosspiece depending on the number of plies (thickness).
- ⑤ It is not recommended to use the conveyor while it is tilted, regardless of the belt specifications.

Belt Specification	Standard Belt (Body Price Only)	Optional Belt 1	Optional Belt 2	No Belt
General Purpose	H (Green), W (White)	-	-	J (No Belt)
For Sliding	G (Green), S (White)	-	-	
For Inclined Transfer	-	-	-	
Grip Type	-	-	GG (Green), GW (White)	
Oil Resistant	O (Green)	OW (White)	-	
Non-adhesive	N (White)	NB (Sky Blue), NBG (Lime Green) HH (Green), HW (White)	-	
For Food Transfer	-	KW (White), KSB (Sky Blue), PHB (Sky Blue)	-	
For Electronic Parts Transfer	D (Black)	-	-	

- ① For Flat Belt details, see **P.1279**.
- ② In case of selecting Optional Belts, please select motor manufacturer A or B (Motor C is applicable for Standard Belt only).
- ③ Select a belt with a thickness of 1.0 mm or less for a motor output of 6 W.

Part Number	B	Body Price 1 ~ 2 pc(s).																							
		L390~400	L405~500	L505~600	L605~700	L705~800	L805~900	L905~1000	L1005~1100	L1105~1200	L1205~1300	L1305~1400	L1405~1500	L1505~1600	L1605~1700	L1705~1800	L1805~1900	L1905~2000	L2005~2200	L2205~2400	L2405~2600	L2605~2800	L2805~3000		
SVKR	50																								
	100																								
	150																								
	200	-																							
	250	-	-																						
	300	-	-	-																					
	400	-	-	-	-																				

① For orders larger than indicated quantity, please check with WOS.

Motor Spec. Price	Motor Output Specification		A (Panasonic Motor)	B (Oriental Motor)	R (No Motor, Gearhead)
	6W	25W	IM	SCM	
	40W				
	60W				
	90W				

Belt Spec. Price	Standard Belt	Optional Belt 1	Optional Belt 2	No Belt

Ordering Example	Part Number	B	L	Motor	Output	Voltage	Specification	Gearhead Reduction Ratio	Belt Specification	Motor Manufacturer Selection
	SVKR	100	1000	25	TA230	IM	25	H	A	

Ex.) For No Belt  
Ex.) For Optional Belt 2  
Ex.) For No Motor, Gearhead

SVKR-100-1000-25-TA230-SCM-25-J-A  
SVKA-100-1000-25-TA230-SCM-25-GG-B  
SVKR-100-1000-25-NV-NM-NH-H-R

⇒ Body Price + Motor, Belt Spec. Price = Unit Price

### Machine Weight (With a Motor Output of 6 W)

Belt Width B (mm)	Distance Between Pulleys L (mm)									
	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
50	5.4	6.5	7.5	8.6	9.6	10.6	11.6	12.6	13.6	14.6
100	7.2	8.7	10.3	11.8	13.4	14.9	16.4	17.9	19.4	20.9
150	8.7	10.5	12.3	14.1	15.9	17.7	19.5	21.3	23.1	24.9
200	10.4	12.7	15	17.3	19.6	21.9	24.2	26.5	28.8	31.1
250	12	14.6	17.2	19.8	22.4	25.1	27.7	30.3	32.9	35.5
300	14.7	17.1	19.5	21.9	24.3	26.7	29.1	31.5	33.9	36.3
400	16.1	20.4	24.9	29.3	33.7	37.9	42.3	46.7	51.1	55.5

\*When the motor output is 25 W, add 1.1 kg.  
\*When the motor output is 40 W, add 2.1 kg.  
\*When the motor output is 60 W, add 3.1 kg.  
\*When the motor output is 90 W, add 3.6 kg.



Alterations

Specify Drive Section Position
Additional Counterbores
Roller Edge
Motor Cover with Window
Brackets for Speed Controller Included
Post-Assembly Insertion Nuts Included
Motors with Electromagnetic Brake
Stands (Legs)

For details of alterations, see **P.1264** onward.