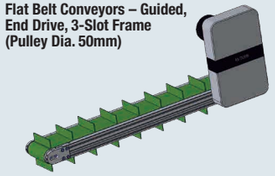
Flat Belt Conveyors

Guided, End Drive, 3-Slot Frame (Pulley Dia. 50mm)

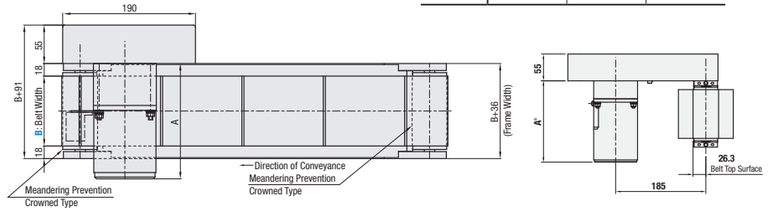
Features: A conveyor suitable for pitch transfer or inclined transfer of small workpiece, etc.

Flat Belt Conveyors – Guided, End Drive, 3-Slot Frame (Pulley Dia. 50mm)

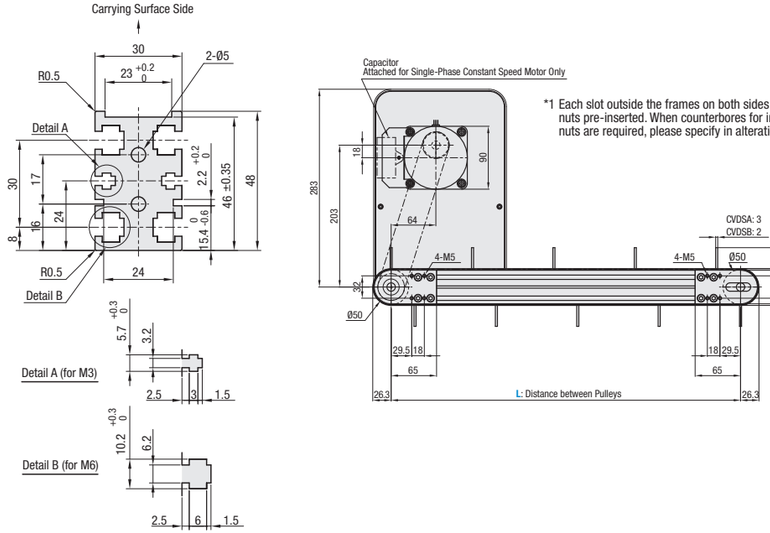


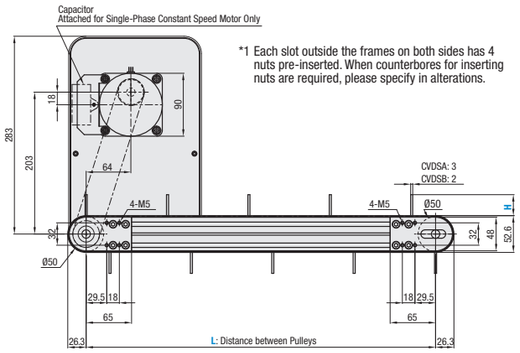
CVDSA Belt for Food, White
CVDSB Oil Resistant Belt for Food, Green

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



Frame Cross Section and Enlarged View (Symmetrical)





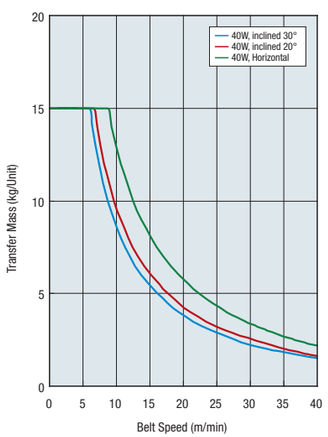
*1 Each slot outside the frames on both sides has 4 nuts pre-inserted. When counterbores for inserting nuts are required, please specify in alterations.

Motor Specifications

Output (W)	Motor		Reduction Ratio	Motor Length (A)
	Specification	Manufacturer		
40W	Constant Speed Motor	Panasonic Motor	7.5–180	142.0
		Oriental Motor	7.5–18	147.0
			25–180	165.0
		Taiwanese Motor	7.5–75	161.6
			90–180	170.6
	Variable Speed Motor	Oriental Motor	7.5–18	157.0
			25–180	175.0
		Taiwanese Motor	7.5–75	172.1
			90–180	181.1

Conveying Capacity

* Reference Value



Gearhead Reduction Ratio

*May decrease depending on load condition.

Gearhead Reduction Ratio	Belt Speed (m/min)	
	50Hz	60Hz
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

Flat Belt Conveyors

Guided, End Drive, 3-Slot Frame (Pulley Dia. 50mm), *continued*

Conveyor Resource Site:
http://www.misumiusa.com/conveyor/
Conveyor Selection, Design Your Own Conveyor Kit, & Maintenance Parts Search

Part Number	Crosspiece Height H Selection	Width B (mm)	Length L 5mm Increment	Motor				Belt Specification	Motor Manufacturer Selection (! The prices vary by manufacturer.)	Number of Crosspieces Specified in increments of 1
				Output (W)	Voltage (V)	Specification	Gearhead Reduction Ratio			
CVDSA (Belt for Food, White)	30	50 100 150 200 250 300	500–3000	40	(Single-Phase) TA100 TA110 TA115 TA200 TA220 TA230	IM (Constant Speed Motor) SCM (Variable Speed Motor)	7.5 9 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	WS* (For Food, White)	A (Panasonic Motor) B (Oriental Motor) C (Taiwanese Motor) * SCM (Variable Speed Motor) is not selectable for A.	5–100 * Number of crosspieces ≤ Perimeter (2L+160) / 50 ! Please note that the crosspiece pitch is automatically calculated by dividing the perimeter by the number of crosspieces.
					(Three-Phase) SA200 SA220 SA230	IM (Constant Speed Motor)				
					NV (No Motor)	NM (No Motor)	NH (No Gearhead)		R (No Motor, Gearhead)	
CVDSB (Oil Resistant Belt for Food, Green)	30	50 100 150 200 250 300	500–3000	40	(Single-Phase) TA100 TA110 TA115 TA200 TA220 TA230	IM (Constant Speed Motor) SCM (Variable Speed Motor)	7.5 9 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	HS (For Food and Oil Resistance, Green)	A (Panasonic Motor) B (Oriental Motor) C (Taiwanese Motor) * SCM (Variable Speed Motor) is not selectable for A.	5–100 * Number of crosspieces ≤ Perimeter (2L+160)/50 ! Please note that the crosspiece pitch is automatically calculated by dividing the perimeter by the number of crosspieces.
					(Three-Phase) SA200 SA220 SA230	IM (Constant Speed Motor)				
					NV (No Motor)	NM (No Motor)	NH (No Gearhead)		R (No Motor, Gearhead)	

! Connect the motor so that the belt rotates in the direction of conveyance.
! 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.
! 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.
! Installation must be done by two or more persons. Make sure to perform meandering adjustments again when using it on a slope. Using it without readjustments may cause meandering, resulting in a breakage to the belt.
! When the operation stops with a workpiece placed on the conveyor on a slope, the belt might rotate in reverse direction, which may cause the workpiece to fall. To avoid this, specify the motor with electromagnetic brake in alterations when using the conveyor on a slope.
! Make sure to secure the stand with anchors when using the conveyor on a slope.
! When using the conveyor on a slope, the gradient must not exceed 30°.
! Belt may deflect up to about 50mm by its own weight.
* The pitch for crosspieces is automatically determined by the specified number of pitches. Please note that pitches with decimal part will be considered as target dimensions.
* Has obtained FDA Permission.

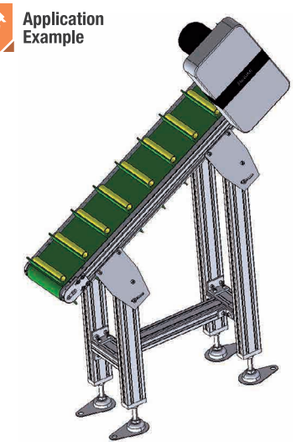
Part Number	H	B	Available Types																			
			L500–600	L605–700	L705–800	L805–900	L905–1000	L1005–1100	L1105–1200	L1205–1300	L1305–1400	L1405–1500	L1505–1600	L1605–1700	L1705–1800	L1805–1900	L1905–2000	L2005–2200	L2205–2400	L2405–2600	L2605–2800	L2805–3000
CVDSA (Belt for Food, White)	30	50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		100	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		150	—	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		200	—	—	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		250	—	—	—	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		300	—	—	—	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CVDSB (Oil Resistant Belt for Food, Green)	30	50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		100	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		150	—	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		200	—	—	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		250	—	—	—	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		300	—	—	—	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Part Number Example

Part Number	-	H	-	B	-	L	-	Motor								Belt Specification	-	Motor Manufacturer Selection	-	Number of Crosspieces
								Output	-	Voltage	-	Specification	-	Gearhead Reduction Ratio						
CVDSA	-	30	-	100	-	1000	-	40	-	T100	-	IM	-	25		WS	-	C	-	10

Part Number Alterations

Motor Position Reversed
Additional Counterbores
Post-Assembly Insertion Nuts Included
Motors with Electromagnetic Brake
Motor with Terminal Box
Stands (Legs)
Inclined Stand (Legs)

For details of alterations, see **P.1276**.

Application Example