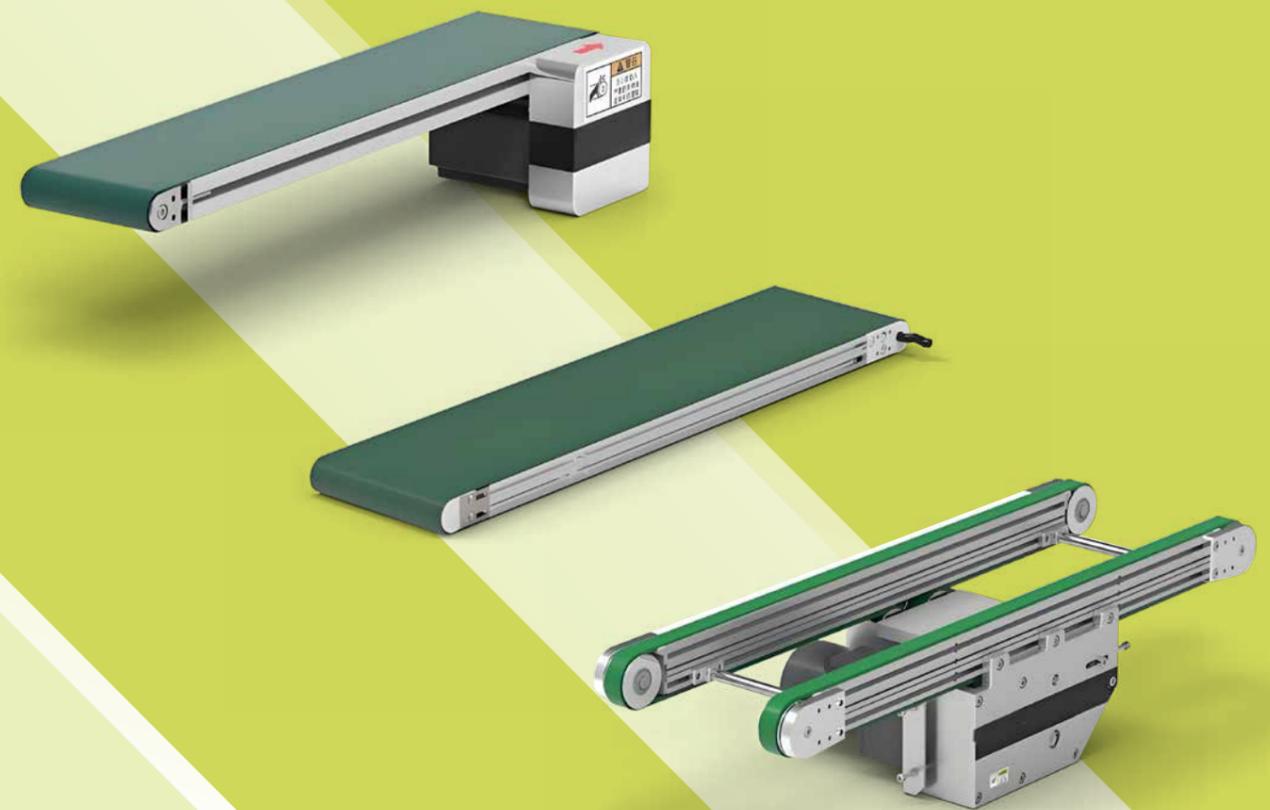


2025 Belt Conveyor



Dongguan Vitrans Automation Equipment Co.,Ltd

Website
www.vitrans-conveyor.com

Email
Qingsong.xu@vitrans.cn



Vitrans conveyor is professional manufacturer for conveying solution R&D, production and sales.

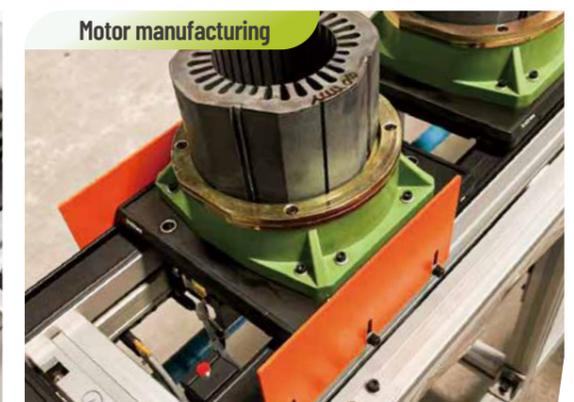
Our conveyor is widely used in automated production line and it is exporting to all over the world.. The product range covers modular pallet conveyor, belt conveyor, flexible chain conveyor and roller conveyors. They are adapt to different application, various layout design with different product size and weight.

We can also support conveying solution customization.

Various conveying solution for industries

About Vitrans 5000+ Project Experience

Focus on conveyor manufacturing for industrial automation.
Product verification by over 10000 hours testing.



Advantages

Authoritative certification & Quality assurance

01 Experienced manufacturer

Vitrans has focused on conveyor manufacturing and application for over 12years.

02 Competitive quality and price

Reduce costs and improve product quality through scientific management and product standardization.

03 Strict quality control

Strict process control from parts manufacturing, assembling, qualifying, packing and outgoing.

04 Efficient service

Branch offices and agents cover Asia, Europe and America to provide technical support and after-sale service.



Factory Overview



Belt Conveyor

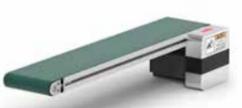
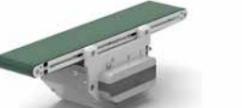
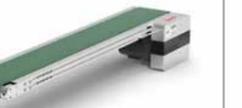
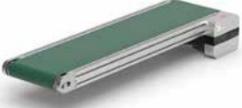
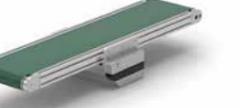
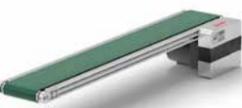
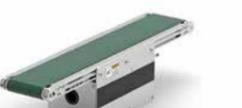
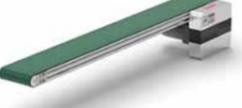
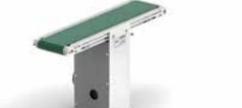
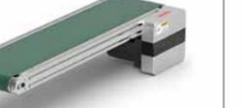
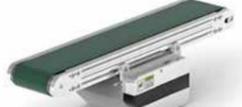
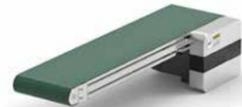
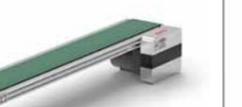
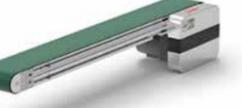
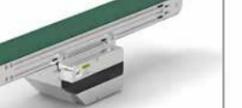
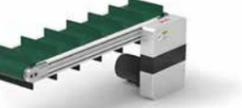
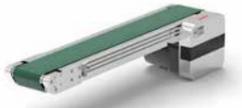
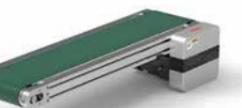


Product Certificate



Patent Certificate

Product Overview

Flat Belt Conveyor Precision Type	 <p>Roller diameter \varnothing20mm P01</p> <p>BCQ01/BCQ51 End drive-Overall belt Small load</p>	 <p>Roller diameter \varnothing20mm P03</p> <p>BCN01/BCN51 Middle drive-Overall belt Small load</p>	 <p>Roller diameter \varnothing20mm P05</p> <p>BQT01/BQT51 End drive-Standard type Small load</p>	 <p>Roller diameter \varnothing80mm P47</p> <p>BBT01/BBT51 End drive-Chain drive Big load</p>	 <p>Roller diameter \varnothing80mm P49</p> <p>BBZ01/BBZ51 Middle drive-Chain drive Big load</p>			
	 <p>Roller diameter \varnothing30mm P07</p> <p>BQZ01/BQZ51 Middle drive-Standard type Small load</p>	 <p>Roller diameter \varnothing30mm P09</p> <p>BET01/BET51 End drive-Standard type Small load</p>	 <p>Roller diameter \varnothing30mm P11</p> <p>BEZ01/BEZ51 Middle drive-Standard type Small load</p>	 <p>Roller diameter \varnothing30mm P13</p> <p>BEC01/BEC51 Middle drive-Standard type Small load</p>	Flat Belt Conveyor Build-in Drive	 <p>Roller diameter \varnothing30mm P51</p> <p>BAE01/BAE21 Electric roller drive-Standard type</p>	 <p>Roller diameter \varnothing30mm P53</p> <p>BAE31/BAE51 Electric roller drive-Overall belt</p>	 <p>Roller diameter \varnothing40mm P55</p> <p>BAS01/BAS21 Electric roller drive-Standard type</p>
	 <p>Roller diameter \varnothing30mm P15</p> <p>BEQ01/BEQ51 Middle drive-Overall belt Small load</p>	 <p>Roller diameter \varnothing30mm P17</p> <p>BEN01/BEN51 Middle drive-Overall belt Small load</p>	 <p>Roller diameter \varnothing30mm P19</p> <p>BED51 Middle drive-Narrow type Small load</p>	 <p>Roller diameter \varnothing40mm P21</p> <p>BFT01/BFT51 End drive-EU aluminum profile Small to medium load</p>		 <p>Roller diameter \varnothing40mm P57</p> <p>BAS31/BAS51 Electric roller drive-Overall belt</p>	 <p>Roller diameter \varnothing50mm P59</p> <p>BAW01/BAW21 Electric roller drive-Standard type</p>	 <p>Roller diameter \varnothing50mm P61</p> <p>BAW31/BAW51 Electric roller drive-Overall belt</p>
 <p>Roller diameter \varnothing40mm P23</p> <p>BFZ01/BFZ51 Middle drive-EU aluminum profile Small to medium load</p>	 <p>Roller diameter \varnothing40mm P25</p> <p>BFQ01/BFQ51 End drive-Overall belt Small to medium load</p>	 <p>Roller diameter \varnothing40mm P27</p> <p>BFN01/BFN51 Middle drive-Overall belt Small to medium load</p>	 <p>Roller diameter \varnothing50mm P29</p> <p>BWT01/BWT51 End drive-Standard type Medium load</p>	 <p>Roller diameter \varnothing60mm P65</p> <p>BAL31/BAL51 Electric roller drive-Overall belt</p>		 <p>Roller diameter \varnothing70mm P67</p> <p>BAQ01 Build-in motor drive-Standard type</p>	 <p>Roller diameter \varnothing80mm P69</p> <p>BAB01/BAB21 Electric roller drive-Standard type</p>	 <p>Roller diameter \varnothing80mm P71</p> <p>BAB31/BAB51 Electric roller drive-Overall belt</p>
 <p>Roller diameter \varnothing50mm P31</p> <p>BWZ01/BWZ51 Middle drive-Standard type Medium load</p>	 <p>Roller diameter \varnothing50mm P33</p> <p>BWC01/BWC51 Middle drive-Standard type Medium load</p>	 <p>Roller diameter \varnothing50mm P35</p> <p>BWQ01/BWQ51 End drive-Overall belt Medium load</p>	 <p>Roller diameter \varnothing50mm P37</p> <p>BWN01/BWN51 Middle drive-Overall belt Medium load</p>	Flat Belt Conveyor Customized belt with boards.	 <p>Roller diameter \varnothing50mm P73</p> <p>BDT51 End drive- Customized belt with boards.</p>			
 <p>Roller diameter \varnothing30/\varnothing60mm P39</p> <p>BGT01/BGT51 End drive-Sharp end Big load</p>	 <p>Roller diameter \varnothing30/\varnothing60mm P41</p> <p>BGZ01/BGZ51 Middle drive-Sharp end Big load</p>	 <p>Roller diameter \varnothing60mm P43</p> <p>BLT01/BLT51 End drive-Standard type Big load</p>	 <p>Roller diameter \varnothing60mm P45</p> <p>BLZ01/BLZ51 Middle drive-Standard type Big load</p>		Flat Belt Conveyor Backlight belt	 <p>Roller diameter \varnothing50mm P75</p> <p>BST01 End drive-Standard type</p>	 <p>Roller diameter \varnothing50mm P77</p> <p>BSZ01 Middle drive-Standard type</p>	 <p>Roller diameter \varnothing60mm P79</p> <p>BSQ01 Middle drive-Overall belt</p>

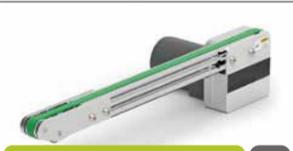
Product Overview



Roller diameter ϕ 50mm P81

BSN01
Middle drive-Chain drive-Overall belt

One lane timing belt conveyor



Timing belt conveyor width 10mm P83

BTA01-B10
End drive-One lane conveyor



Timing belt conveyor width 10mm P85

BTB01-B10
Middle drive-One lane conveyor



Timing belt conveyor width 20mm P87

BTA01-B20
End drive-One lane conveyor



Timing belt conveyor width 20mm P89

BTB01-B20
Middle drive-One lane conveyor

Dual lanes timing belt conveyor



Timing belt conveyor 10mm width P91

BTH01
End drive-Dual lanes conveyor



Timing belt conveyor 10mm width P93

BTM01
Middle drive-Dual lanes conveyor



Timing belt conveyor 20mm width P95

BTJ01
End drive-Dual lanes conveyor



Timing belt conveyor 20mm width P97

BTN01
Middle drive-Dual lanes conveyor



Timing belt conveyor 20mm width P99

BTQ01
End drive-Build in motor dual lanes conveyor



Timing belt conveyor 50mm width P101

BTR01
End drive-Build in motor dual lanes conveyor



Timing belt conveyor 50mm width P103

BTP01
End drive-Dual lanes conveyor

Roller Chain Conveyor Plastic chain



带轮直径 ϕ 39mm P105

BRZ01
Middle drive-One lane roller chain conveyor-Big load



带轮直径 ϕ 57mm P107

BRT01
End drive-One lane roller chain conveyor-40P Plastic chain



带轮直径 ϕ 57mm P109

BRT21
End drive-Dual lanes roller chain conveyor-40P Plastic chain

Conveyor Accessories



P111

BSV01
I Type-Single support leg



P111

BSV02
H Type-Dual supports leg



P112

BSV04
H Type-Extension leg-Small load



P112

BSV06
H Type-Extension leg-Medium load



P113

BSV08
H Type-Extension leg-Big load



P113

BSV10
Lifting leg-General type



P114

BDS01
Guide profile accessory-Plastic type



P114

BDS02
Guide profile accessory-Steel type



P114

BDS05
Guide profile-C shape



P114

BDS06
Guide profile support



P115

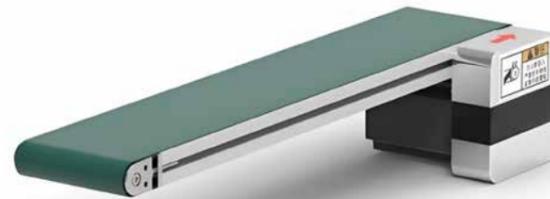
BDS11
Speed controller mounting board



P115

BDS12
Speed controller case

Single Slot Aluminum Profile



Conveyor Features

Adapt to limited space for small parts transferring

Conveyor Dimensions >

Motor Specification: 57 series stepper motor ← **Motion Direction**

▲ Above conveyor dimensions is basis on belt thickness H(0.9mm)
 ▲ When L<450, no counterbores at F position, there are 4 nuts inside aluminum profile slot.
 When L>460, there is counterbores at F position.

Conveyor Profile Section >

▲ Nut specification inside aluminum profile slot:
 Basis on L (Roller center distance)

120~500	501~800	—	Position	Spec	Status
4PCS	6PCS	—	I View	M5(square)	Accessories
—	—	—	—	—	—

Conveyor speed and load capability >

Form 1: Gear box ratio and conveyor speed(m/min)

Gear box ratio	Speed (m/min)		Frequency motor Speed (m/min)	Brushless motor Speed (m/min)
	Fix-speed motor	Speed adjustable motor		
5	—	—	—	0~75.4
7.5	—	—	—	0~50.2
10	—	—	—	0~37.7
12.5	13.6	8.1~13.6	—	0~30.1
15	11.3	6.8~11.3	—	0~25.1
18	9.4	5.7~9.4	—	0~20.9
25	6.8	4.1~6.8	—	0~15.1
30	5.7	3.4~5.7	—	0~12.6
36	4.7	2.8~4.7	—	0~10.5
50	3.4	2.0~3.4	—	0~7.5
60	2.8	1.7~2.8	—	0~6.3

▲ Test Condition: B=150 L=800

Form 2: Pulse quality and conveyor speed(m/min)

Pulse quantity	57 series stepper motor torque		
	2.3N.m	2.6N.m	3.1N.m
400	15.1	0~6.4	0~7.2
800	30.1	0~3.2	0~3.6
1600	60.3	0~1.6	0~1.8
3200	120.6	0~0.8	0~0.9
6400	241.2	0~0.4	0~0.5
12800	482.3	—	—
25600	964.6	—	—
51200	1929.2	—	—

▲ Test Condition: B=150 L=800 Current:5A

Instrument 1.Set the current as default 2.Set the code on motor drive
 3.Default torque can be modified by current setting.

Speed calculation formula
 1. Drive roller diameter D=20mm
 2. Speed adjustable motor RPM=1350r/min
 3. Frequency motor RPM=1680r/min
 4. Brushless motor RPM=3000r/min
 5. Belt pulley ratio i2=2:1

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{20 \times 3.14 \times 1350 \times 2}{12.5 \times 1000}$$

$$S = 13.5648 \text{ m/min}$$

Speed calculation formula
 1. Drive roller diameter D=20mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Brushless motor RPM=3000r/min
 5. Belt pulley ratio i2=2:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{20 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 2}{1000}$$

$$S = 15.1 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BCQ01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer	Alloy			Surface electrophoresis	Painting		
BCQ51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer	Alloy			Surface electrophoresis	Painting		

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand	
				Output Power(W)	Voltage(V)	Motor Type	Gear box ratio			
BCQ01 Arcuate roller	60~150	120~800	Min.Step (5: mm)	6	TA220 Single phase	IM Fix-speed motor SCM Speed adjustable motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120	H(Blackish green) H6(Bright green) B(Brown) D(Black-ESD) F(White-Food grade) U(Blackish green-accumulation) M1(Blue- Blue-oil resistance) Q2(Green-incline application)	GPG JSCC No motor ZD No motor S(Leadshine) No motor S(Leadshine) X(Panasonic) No motor	
				25	DC24 DC TA220 Single phase	KMC Speed adjustable motor SWS Motor with drive	▲ When motor power is 6W gear box ratio can not be 5~10.			
				Motor Series		Control method	Output torque			Drive type
				57 series stepper motor	CM Open loop CME Closed loop	23 26 31	MC Pulse type IO IO type EC IO typeEtherCAT RS RS485			
BCQ51 Belt with guide rib	60~150	120~800	Min.Step (5: mm)	MH Servo motor	TA220 Single phase	200W	▲ Default type: pulse type			
Inertia				Voltage(V)	Output power					

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length					
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L120	L305	L505	L605
Speed adjustable motor	BCQ01	B150	L800	6	TA220	SCM	12.5	H	G	BCQ01	60~80	●	●	●	●
Stepper motor	BCQ51	B150	L800	57	CM	23	MC	H	S	BCQ51	85~120	—	●	●	●
Servo motor	BCQ51	B150	L800	MH	TA220	200W	EC	H	X		125~150	—	●	●	●

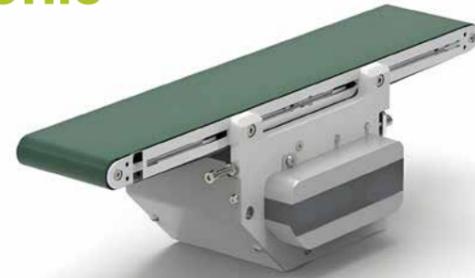
Belt Specification

<ul style="list-style-type: none"> Material:PU Thickness:0.9mm Color:Blackish green Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.9mm Color:Bright green Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Brown Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.8mm Color:Black Character:ESD
H	H6	B	D
<ul style="list-style-type: none"> Material:PU Thickness:1.2mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:Double sided gauze Thickness:0.5mm Color:Blackish green Character:Accumulation 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Blue Character:Oil resistance 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Green Character:Incline application
F	U	M1	Q2

Customized conveyor support and parts guide profile

Product Application Case >

Single Slot Aluminum Profile



Conveyor Features

Adapt to limited space for small parts transferring

Conveyor Dimensions ▶

Motor Specification: 6W ← **Motion Direction**

Conveyor Profile Section ▶

▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

260~500	501~800	—	Position	Spec	Status
4PCS	6PCS	—	I View	M5(square)	Accessories

▲ Above conveyor dimensions is basis on belt thickness H(0.9mm)

Conveyor speed and load capability ▶

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)									
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque							
5	—	—	—	0~75.4	400	15.1	0~12.8	0~14.5	0~17.3	—	—	—	—	—
7.5	—	—	—	0~50.2	800	30.1	0~6.4	0~7.2	0~8.7	—	—	—	—	—
10	—	—	—	0~37.7	1600	60.3	0~3.2	0~3.6	0~4.3	—	—	—	—	—
12.5	13.6	8.1~13.6	—	0~30.1	3200	120.6	0~1.6	0~1.8	0~2.2	—	—	—	—	—
15	11.3	6.8~11.3	—	0~25.1	6400	241.2	0~0.8	0~0.9	0~1.1	—	—	—	—	—
18	9.4	5.7~9.4	—	0~20.9	12800	482.3	—	—	—	—	—	—	—	—
25	6.8	4.1~6.8	—	0~15.1	25600	964.6	—	—	—	—	—	—	—	—
30	5.7	3.4~5.7	—	0~12.6	51200	1929.2	—	—	—	—	—	—	—	—
36	4.7	2.8~4.7	—	0~10.5	—	—	—	—	—	—	—	—	—	—
50	3.4	2.0~3.4	—	0~7.5	—	—	—	—	—	—	—	—	—	—
60	2.8	1.7~2.8	—	0~6.3	—	—	—	—	—	—	—	—	—	—

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition:B=150 L=800

▲ Speed calculation formula
1. Drive roller diameter D=40mm
2. Speed adjustable motor RPM=1350/min
3. Frequency motor RPM=1680/min
4. Brushless motor RPM=3000/min
5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{40 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 13.5648 \text{ m/min}$$

▲ Test Condition:B=150 L=800 Current:5A

▲ Speed calculation formula
1. Drive roller diameter D=40mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{40 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 15.072 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BCN01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer	Alloy			Surface electrophoresis	Painting		
BCN51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer							

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BCN01	Arcuate roller	60~150	260~800	6	TA220 Single phase	IM Fix-speed motor SCM Speed adjustable motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120	H(Blackish green) H6(Bright green) B(Brown) D(Black-ESD) F(White-Food grade) U(Blackish green-accumulation) M1(Blue-Blue-oil resistance) Q2(Green-incline application)	GPG JSCC No motor
				25	DC24 DC TA220 Single phase	KMC Speed adjustable motor SWS Motor with drive	150 180		
BCN51	Belt with guide rib	60~150	260~800	57 series stepper motor	CM Open loop CME Closed loop	23 26 31	MC Pulse type IO IO type EC IO typeEtherCAT RS RS485	S(Leadshine) No motor	Stepper motor brand
				MH Servo motor	TA220 Single phase	200W			

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length					
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L260	L305	L505	L605
Speed adjustable motor	BCN01	B150	L800	6	TA220	SCM	12.5	H	G	BCN01	60~80	●	●	●	●
Stepper motor	BCN51	B150	L800	57	CM	23	MC	H	S	BCN51	85~120	—	●	●	●
Servo motor	BCN51	B150	L800	MH	TA220	200W	EC	H	X		125~150	—	●	●	●

Belt Specification

Underlying Parameter			
• Material:PU • Thickness:0.9mm • Color:Blackish green • Character:General	• Material:PU • Thickness:0.9mm • Color:Bright green • Character:General	• Material:PU • Thickness:1.0mm • Color:Brown • Character:General	• Material:PU • Thickness:0.8mm • Color:Black • Character:ESD
H	H6	B	D
Underlying Parameter			
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material: Double sided gauze • Thickness:0.5mm • Color:Blackish green • Character:Accumulation	• Material:PU • Thickness:1.0mm • Color:Blue • Character:Oil resistance	• Material:PU • Thickness:1.0mm • Color:Green • Character: Incline application
F	U	M1	Q2

Customized conveyor support and parts guide profile

Product Application Case

Labels: Case, Guide profile accessory A, Guide profile accessory B, Conveyor support, Support base

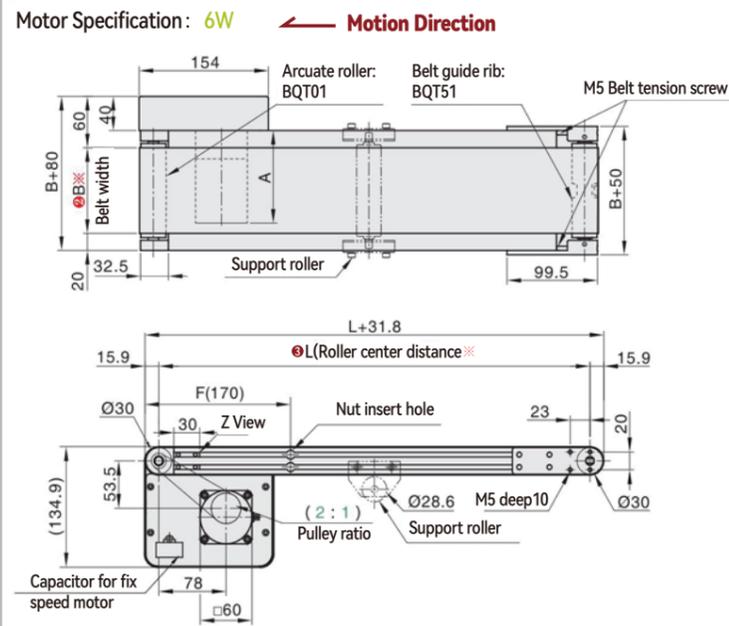
Dual Slots Aluminum Profile

Conveyor Features

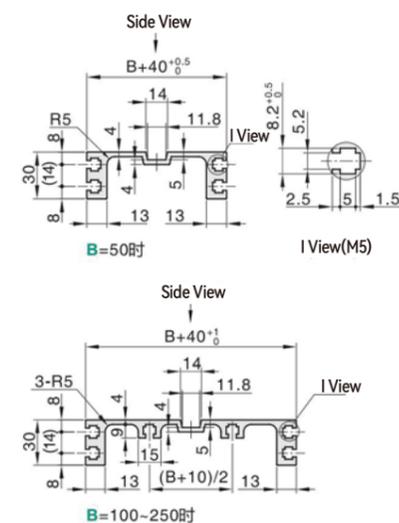
Made of precision aluminum profile, short lead time



Conveyor Dimensions



Conveyor Profile Section



▲ Nut specification inside aluminum profile slot: Basis on L (Roller center distance)

300~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	I View	M5(square)	Accessories

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)										
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque			86 series stepper motor torque					
5	50.9	30.5~50.9	63.3	0~113.0	400	22.6	2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m	—	—	—	—
7.5	33.9	20.3~33.9	42.2	0~75.4	800	45.2	0~2.1	0~2.4	0~2.9	0~4.2	0~7.5	—	—	—	—
10	25.4	15.3~25.4	31.7	0~56.5	1600	90.4	0~1.0	0~1.2	0~1.4	0~2.1	0~3.7	—	—	—	—
12.5	20.3	12.2~20.3	25.3	0~45.2	3200	180.9	0~0.5	0~0.6	0~0.7	0~1.0	0~1.9	—	—	—	—
15	17.0	10.2~17.0	21.1	0~37.7	6400	361.7	0~0.3	0~0.3	0~0.4	0~0.5	0~0.9	—	—	—	—
18	14.1	8.5~14.1	17.6	0~31.4	12800	723.5	—	—	—	—	—	—	—	—	—
25	10.2	6.1~10.2	12.7	0~22.6	25600	1446.9	—	—	—	—	—	—	—	—	—
30	8.5	5.1~8.5	10.6	0~18.8	51200	2893.8	—	—	—	—	—	—	—	—	—
36	7.1	4.2~7.1	8.8	0~15.7	—	—	—	—	—	—	—	—	—	—	—
50	5.1	3.1~5.1	6.3	0~11.3	—	—	—	—	—	—	—	—	—	—	—
60	4.2	2.5~4.2	5.3	0~9.4	—	—	—	—	—	—	—	—	—	—	—

▲ Test Condition: B=150 L=800

▲ Speed calculation formula

1. Drive roller diameter D=30mm
 2. Speed adjustable motor RPM=1350/min
 3. Frequency motor RPM=1680/min
 4. Brushless motor RPM=3000/min
 5. Belt pulley ratio i2=2:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{30 \times 3.14 \times 1350 \times 2}{11 \times 1000}$$

$$S = 12.5 \times 1000$$

$$S = 20.3472 \text{ m/min}$$

▲ Test Condition: B=150 L=1000 Current: 5A

▲ Speed calculation formula

1. Drive roller diameter D=30mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Belt pulley ratio i2=2:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{30 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 2}{1000}$$

$$S = 22.6 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BQT01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BQT51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer		Alloy		Surface electrophoresis			Painting

Model	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand	
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio			
BQT01 Arcuate roller	50	390~3000	6	TA220	IM Fix-speed motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	GPG JSCC No motor
			25	SA220	SCM Speed adjustable motor			
			40	DC DC	INV VFD type			
			25	TA220	KMC Speed adjustable motor			
BQT51 Belt with guide rib	100	390~3000	40	DC DC	SWS Motor with drive	▲ When motor power is 6W gear box ratio can not be 5~10.		ZD No motor
			57 series stepper motor	CM Open loop	23 26 31			
			86 series stepper motor	CME Closed loop	45 80			
			MH Servo motor	TA220 Single phase	200W 400W			
				Drive type				
				MC Pulse type				
				IO IO type				
				EC IO type EtherCAT				
				RS RS485				
				▲ Default type: pulse type				

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L300	L405	L505	L605	L705	L805
Speed adjustable motor	BQT01	B150	L1000	25	TA220	SCM	12.5	H	G	BQT01	50	●	●	●	●	●	●
Stepper motor	BQT51	B150	L1000	57	CM	23	MC	H	S	BQT51	100	●	●	●	●	●	●
Servo motor	BQT51	B150	L1000	MH	TA220	200W	EC	H	X		150	—	—	●	●	●	●
											200	—	—	—	●	●	●
											250	—	—	—	—	—	●

Belt Specification

Underlying Parameter			
• Material:PU • Thickness:0.9mm • Color:Blackish green • Character:General	• Material:PU • Thickness:0.9mm • Color:Bright green • Character:General	• Material:PU • Thickness:0.8mm • Color:Black • Character:ESD	• Material:PU • Thickness:1.0mm • Color:Blackish green • Character:ESD
H	H6	D	D9
Underlying Parameter			
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material:PU • Thickness:1mm • Color:Green • Character:Incline	• Material:Pvc • Thickness:1.2mm • Color:Yellow • Character:Special	• Material:Pvc • Thickness:1.2mm • Color:Red • Character:Special
F	Q2	Y2	R

Conveyor with C shape guide profile

Product Application Case

C shape guide profile A

Guide part

Profile support

C shape guide profile B

Conveyor support

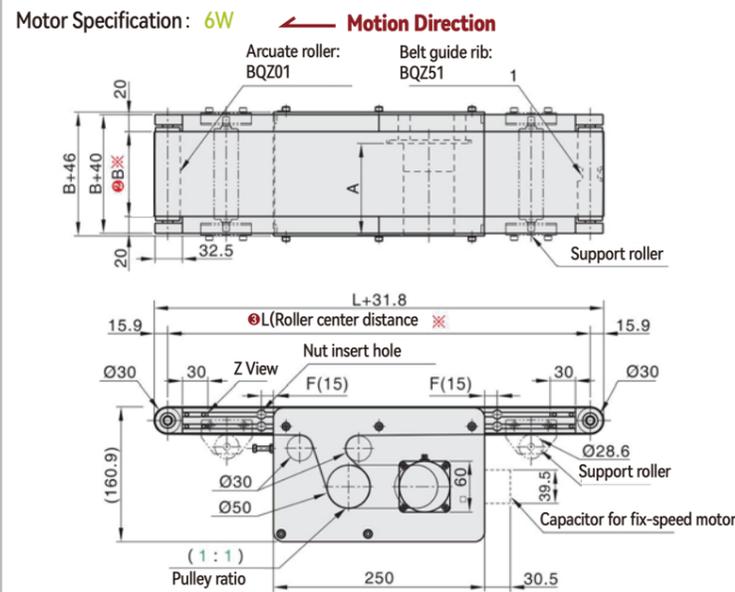
Dual Slots Aluminum Profile



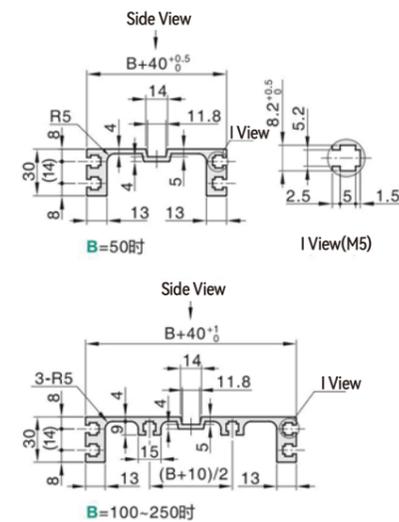
Conveyor Features

Made of precision aluminum profile, short lead time

Conveyor Dimensions



Conveyor Profile Section



▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

300~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	I View	M5(square)	Accessories
-	-	-	-	-	-

▲ Above conveyor dimensions is basis on belt thickness H(0.9mm)

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)								
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque			86 series stepper motor torque			
5	42.4	25.4~42.4	52.8	0~94.2	400	18.8	2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m	-	-
7.5	28.3	17.0~28.3	35.2	0~62.8	800	37.7	0~5.1	0~5.7	0~6.9	0~20.1	0~36.0	-	-
10	21.2	12.7~21.2	26.4	0~47.1	1600	75.4	0~2.5	0~2.9	0~3.4	0~5.0	0~9.0	-	-
12.5	17.0	10.2~17.0	21.1	0~37.7	3200	150.7	0~1.3	0~1.4	0~1.7	0~2.5	0~4.5	-	-
15	14.1	8.5~14.1	17.6	0~31.4	6400	301.4	0~0.6	0~0.7	0~0.9	0~1.3	0~2.2	-	-
18	11.8	7.1~11.8	14.7	0~26.2	12800	602.9	-	-	-	-	-	-	-
25	8.5	5.1~8.5	10.6	0~18.8	25600	1205.8	-	-	-	-	-	-	-
30	7.1	4.2~7.1	8.8	0~15.7	51200	2411.5	-	-	-	-	-	-	-
36	5.9	3.5~5.9	7.3	0~13.1	-	-	-	-	-	-	-	-	-
50	4.2	2.5~4.2	5.3	0~9.4	-	-	-	-	-	-	-	-	-
60	3.5	2.1~3.5	4.4	0~7.9	-	-	-	-	-	-	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition: B=150 L=1000

▲ Speed calculation formula

1. Drive roller diameter D=50mm
2. Speed adjustable motor RPM=1350/min
3. Frequency motor RPM=1680/min
4. Brushless motor RPM=3000/min
5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1}{11 \times 1000}$$

$$S = 16.956 \text{ m/min}$$

▲ Test Condition: B=150 L=1000 Current:5A

▲ Speed calculation formula

1. Drive roller diameter D=50mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 18.84 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BQZ01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BQZ51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand		
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio				
BQZ01 Arcuate roller	50	390~3000	6	TA220	IM Fix-speed motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	GPG JSCC No motor	
			25	SA220	SCM Speed adjustable motor				
			40	TA220	INV VFD type				
			25	DC24 DC	KMC Speed adjustable motor				
BQZ51 Belt with guide rib	100	390~3000	40	TA220	SWS Motor with drive	▲ When motor power is 6W gear box ratio can not be 5-10.		ZD No motor	
			57 series stepper motor	CM Open loop	23 26 31				
			86 series stepper motor	CME Closed loop	45 80				
			Motor Series	Control method	Output torque				Drive type
BQZ51 Belt with guide rib	150	390~3000	57 series stepper motor	CM Open loop	23 26 31	▲ Default type: pulse type		Stepper motor brand	
			86 series stepper motor	CME Closed loop	45 80				
			Motor Series	Control method	Output torque				Drive type
			Motor Series	Control method	Output torque				Drive type
BQZ51 Belt with guide rib	200	390~3000	57 series stepper motor	CM Open loop	23 26 31	▲ Default type: pulse type		Servo motor brand	
			86 series stepper motor	CME Closed loop	45 80				
			Motor Series	Control method	Output torque				Drive type
			Motor Series	Control method	Output torque				Drive type
BQZ51 Belt with guide rib	250	390~3000	MH Servo motor	TA220 Single phase	200W 400W	▲ Default type: pulse type		S(Leadshine) X(Panasonic) No motor	
			Motor Series	Control method	Output torque				Drive type
			Motor Series	Control method	Output torque				Drive type
			Motor Series	Control method	Output torque				Drive type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L390	L405	L505	L605	L705	L805
Speed adjustable motor	BQZ01	B150	L1000	25	TA220	SCM	12.5	H	G	BQZ01	50	●	●	●	●	●	●
Stepper motor	BQZ51	B150	L1000	57	CM	23	MC	H	S	BQZ51	100	●	●	●	●	●	●
Servo motor	BQZ51	B150	L1000	MH	TA220	200W	EC	H	X	BQZ51	150	-	-	●	●	●	●
											200	-	-	-	●	●	●
											250	-	-	-	-	-	●

Belt Specification

Underlying Parameter			
• Material:PU • Thickness:0.9mm • Color:Blackish green • Character:General	• Material:PU • Thickness:0.9mm • Color:Bright green • Character:General	• Material:PU • Thickness:0.8mm • Color:Black • Character:ESD	• Material:PU • Thickness:1.0mm • Color:Blackish green • Character:ESD
H	H6	D	D9
Underlying Parameter			
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material:PU • Thickness:1mm • Color:Green • Character:Incline	• Material:Pvc • Thickness:1.2mm • Color:Yellow • Character:Special	• Material:Pvc • Thickness:1.2mm • Color:Red • Character:Special
F	Q2	Y2	R

Conveyor with customized guide profile and sensor

Product Application Case

ESD belt

Sensor A

Fixture

Customized ESD guide profile A

Sensor B

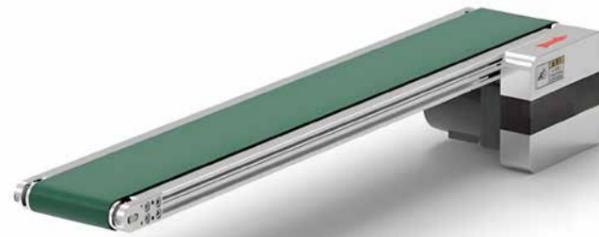
Customized ESD guide profile B

Conveyor support

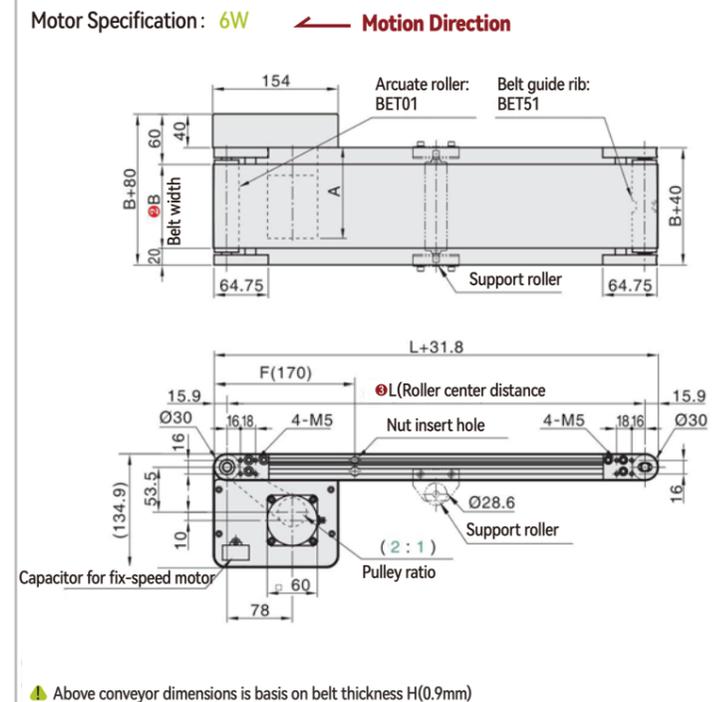
Dual Slots Aluminum Profile

Conveyor Features

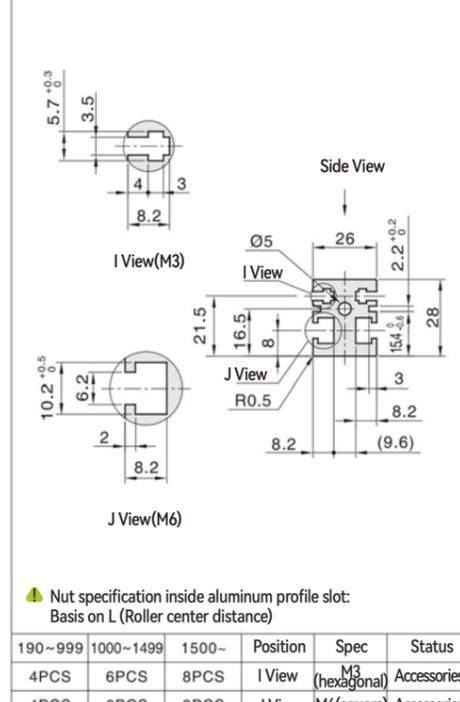
Adapt to specified conveyor width and length with small load



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)										
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque			86 series stepper motor torque					
5	50.9	30.5~50.9	63.3	0~113.0	400	22.6	2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m	—	—	—	—
7.5	33.9	20.3~33.9	42.2	0~75.4	800	45.2	0~2.1	0~2.4	0~2.9	0~4.2	0~7.5	—	—	—	—
10	25.4	15.3~25.4	31.7	0~56.5	1600	90.4	0~1.0	0~1.2	0~1.4	0~2.1	0~3.7	—	—	—	—
12.5	20.3	12.2~20.3	25.3	0~45.2	3200	180.9	0~0.5	0~0.6	0~0.7	0~1.0	0~1.9	—	—	—	—
15	17.0	10.2~17.0	21.1	0~37.7	6400	361.7	0~0.3	0~0.3	0~0.4	0~0.5	0~0.9	—	—	—	—
18	14.1	8.5~14.1	17.6	0~31.4	12800	723.5	—	—	—	—	—	—	—	—	—
25	10.2	6.1~10.2	12.7	0~22.6	25600	1446.9	—	—	—	—	—	—	—	—	—
30	8.5	5.1~8.5	10.6	0~18.8	51200	2893.8	—	—	—	—	—	—	—	—	—
36	7.1	4.2~7.1	8.8	0~15.7	—	—	—	—	—	—	—	—	—	—	—
50	5.1	3.1~5.1	6.3	0~11.3	—	—	—	—	—	—	—	—	—	—	—
60	4.2	2.5~4.2	5.3	0~9.4	—	—	—	—	—	—	—	—	—	—	—

▲ Test Condition: B=150 L=1000

▲ Speed calculation formula

1. Drive roller diameter D=30mm
 2. Speed adjustable motor RPM=1350/min
 3. Frequency motor RPM=1680/min
 4. Brushless motor RPM=3000/min
 5. Belt pulley ratio i2=2:1

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{30 \times 3.14 \times 1350 \times 2}{12.5 \times 1000}$$

$$S = 20.3472 \text{ m/min}$$

▲ Test Condition: B=150 L=1000 Current: 5A

▲ Speed calculation formula

1. Drive roller diameter D=30mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Belt pulley ratio i2=2:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{30 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 2}{1000}$$

$$S = 22.6 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BET01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BET51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer				Alloy	Surface electrophoresis	Painting	

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BET01 Arcuate roller	50~300	Min.Step (5mm)	190~2000	6	TA220	IM	5	H (Blackish green) H6 (Bright green) D (Black-ESD) D9 (Blackish green-ESD) F (White-Food grade) Q2 (Green-incline application) Y2 (Yellow- Special type) R (Red- Special type)	GPG JSCC No motor
				25	SA220	SCM	7.5		
				40	SA220	SCM	10		
				40	SA220	SCM	12.5		
BET51 Belt with guide rib	50~300	Min.Step (5mm)	190~2000	25	DC24	KMC	60	ZD No motor	
				40	TA220	SWS	75		
				40	TA220	SWS	90		
				40	TA220	SWS	100		
				57 series stepper motor	CM	23	S (Leadshine) No motor		
				86 series stepper motor	CME	45			
				Motor Series	Control method	Output torque			
				Inertia	Voltage(V)	Output power			
				MH Servo motor	TA220 Single phase	200W 400W	MC Pulse type IO IO type EC IO type EtherCAT RS RS485	S (Leadshine) X (Panasonic) No motor	

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length								
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L190	L305	L505	L605	L805	L905	L905
Speed adjustable motor	BET01	B150	L1000	25	TA220	SCM	12.5	H	G	BET01	50~60	●	●	●	●	●	●	●
Stepper motor	BET51	B150	L1000	57	CM	23	MC	H	S	BET51	65~110	—	●	●	●	●	●	●
Servo motor	BET51	B150	L1000	MH	TA220	200W	EC	H	X		115~160	—	—	●	●	●	●	●
											165~210	—	—	—	●	●	●	●
											215~300	—	—	—	—	—	—	●

Belt Specification

Underlying Parameter			
• Material:PU • Thickness:0.9mm • Color:Blackish green • Character:General	• Material:PU • Thickness:0.9mm • Color:Bright green • Character:General	• Material:PU • Thickness:0.8mm • Color:Black • Character:ESD	• Material:PU • Thickness:1.0mm • Color:Blackish green • Character:ESD
H	H6	D	D9
Underlying Parameter			
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material:PU • Thickness:1mm • Color:Green • Character:Incline	• Material:Pvc • Thickness:1.2mm • Color:Yellow • Character:Special	• Material:Pvc • Thickness:1.2mm • Color:Red • Character:Special
F	Q2	Y2	R

Output Conveyor for part accumulation

Product Application Case

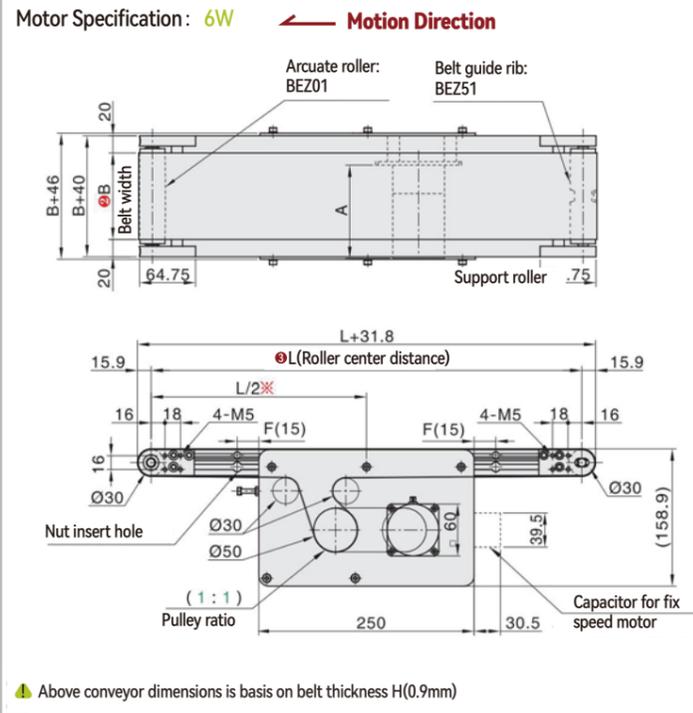
Dual Slots Aluminum Profile



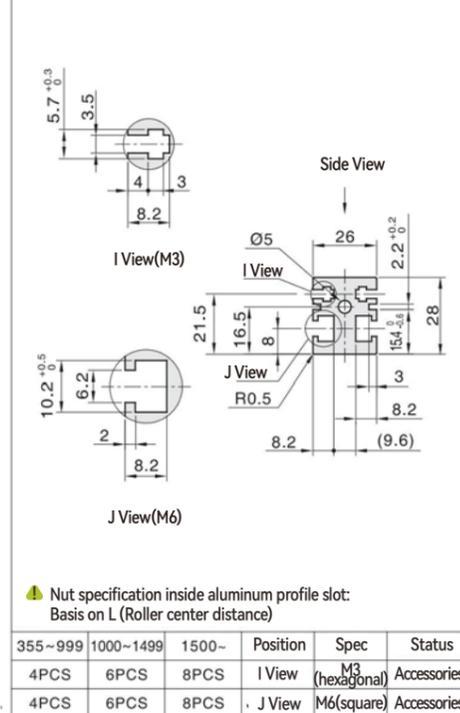
Conveyor Features

Adapt to specified conveyor width and length with small load

Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Gear box ratio	Form 1: Gear box ratio and conveyor speed(m/min)				Form 2: Pulse quality and conveyor speed(m/min)										
	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque				86 series stepper motor torque				
5	42.4	25.4-42.4	52.8	0-94.2	400	18.8	0-10.1	0-11.5	0-13.7	0-20.1	0-36.0	-	-	-	-
7.5	28.3	17.0-28.3	35.2	0-62.8	800	37.7	0-5.1	0-5.7	0-6.9	0-10.0	0-18.0	-	-	-	-
10	21.2	12.7-21.2	26.4	0-47.1	1600	75.4	0-2.5	0-2.9	0-3.4	0-5.0	0-9.0	-	-	-	-
12.5	17.0	10.2-17.0	21.1	0-37.7	3200	150.7	0-1.3	0-1.4	0-1.7	0-2.5	0-4.5	-	-	-	-
15	14.1	8.5-14.1	17.6	0-31.4	6400	301.4	0-0.6	0-0.7	0-0.9	0-1.3	0-2.2	-	-	-	-
18	11.8	7.1-11.8	14.7	0-26.2	12800	602.9	-	-	-	-	-	-	-	-	-
25	8.5	5.1-8.5	10.6	0-18.8	25600	1205.8	-	-	-	-	-	-	-	-	-
30	7.1	4.2-7.1	8.8	0-15.7	51200	2411.5	-	-	-	-	-	-	-	-	-
36	5.9	3.5-5.9	7.3	0-13.1	-	-	-	-	-	-	-	-	-	-	-
50	4.2	2.5-4.2	5.3	0-9.4	-	-	-	-	-	-	-	-	-	-	-
60	3.5	2.1-3.5	4.4	0-7.9	-	-	-	-	-	-	-	-	-	-	-

▲ Test Condition: B=150 L=1000

▲ Speed calculation formula

1. Drive roller diameter D=50mm
2. Speed adjustable motor RPM=1350/min
3. Frequency motor RPM=1680/min
4. Brushless motor RPM=3000/min
5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1}{11 \times 1000}$$

$$S = 16.956 \text{ m/min}$$

▲ Test Condition: B=150 L=1000 Current: 5A

▲ Speed calculation formula

1. Drive roller diameter D=50mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 18.84 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BEZ01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer				Surface electrophoresis			Painting
BEZ51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer							

Model	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand	
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio			
BEZ01 Arcuate roller	50~300 Min.Step (5mm)	355~2000	6	TA220	IM Fix-speed motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	GPG JSCC No motor
			25	SA220	SCM Speed adjustable motor			
			40	DC24 DC	INV VFD type			
			40	TA220	KMC Speed adjustable motor SWS Motor with drive			
BEZ51 Belt with guide rib	50~300 Min.Step (5mm)	355~2000	57	CM	23 26 31	▲ When motor power is 6W gear box ratio can not be 5-10.	MC Pulse type IO IO type EC IO type EtherCAT RS RS485	ZD No motor
			86	CME	45 80			
			57 series stepper motor	Open loop				
			86 series stepper motor	Closed loop				
			MH Servo motor	TA220 Single phase	200W 400W		S(Leadshine) X(Panasonic) No motor	

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length						
Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L355	L405	L505	L605	L805	L905
Speed adjustable motor	BEZ01	B150	L1000	25	TA220	SCM	12.5	H	G	BEZ01	50~60	●	●	●	●	●
Stepper motor	BEZ51	B150	L1000	57	CM	23	MC	H	S	BEZ51	65~110	●	●	●	●	●
Servo motor	BEZ51	B150	L1000	MH	TA220	200W	EC	H	X		115~160	-	-	●	●	●
											165~210	-	-	-	●	●
											215~300	-	-	-	-	●

Belt Specification

Underlying Parameter			
• Material:PU • Thickness:0.9mm • Color:Blackish green • Character:General	• Material:PU • Thickness:0.9mm • Color:Bright green • Character:General	• Material:PU • Thickness:0.8mm • Color:Black • Character:ESD	• Material:PU • Thickness:1.0mm • Color:Blackish green • Character:ESD
H	H6	D	D9
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material:PU • Thickness:1mm • Color:Green • Character:Incline	• Material:Pvc • Thickness:1.2mm • Color:Yellow • Character:Special	• Material:Pvc • Thickness:1.2mm • Color:Red • Character:Special
F	Q2	Y2	R

Conveyor with sorting mechanism

Product Application Case

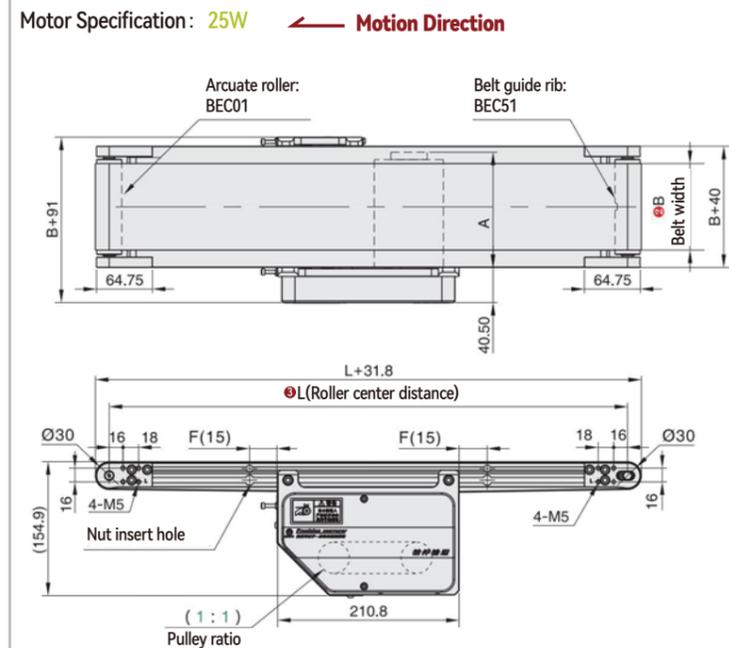
Dual Slots Aluminum Profile



Conveyor Features

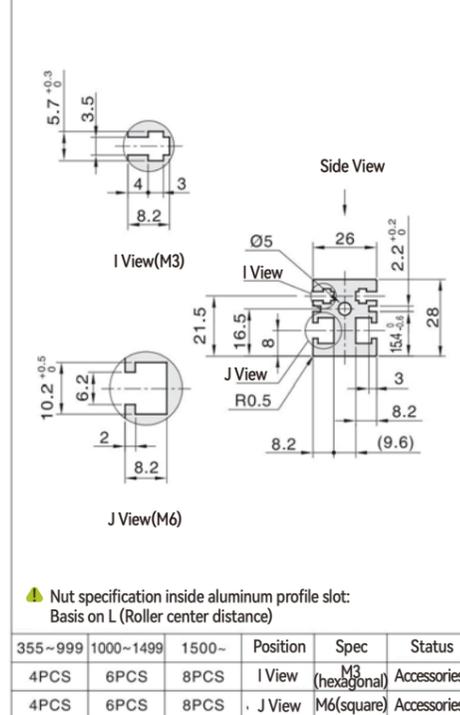
Adapt to specified conveyor width and length with small load

Conveyor Dimensions



Above conveyor dimensions is basis on belt thickness H(0.9mm)

Conveyor Profile Section



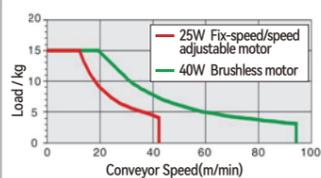
Nut specification inside aluminum profile slot: Basis on L (Roller center distance)

355~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	I View	M3 (hexagonal)	Accessories
4PCS	6PCS	8PCS	J View	M6 (square)	Accessories

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)								
Gear box ratio	Fix-speed motor	Speed adjustable motor	Frequency motor	Brushless motor	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque			86 series stepper motor torque			
	Speed(m/min)	Speed(m/min)	Speed(m/min)	Speed(m/min)			2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m	--	
5	42.4	25.4~42.4	52.8	0~94.2	400	18.8	0~10.1	0~11.5	0~13.7	0~20.1	0~36.0	--	--
7.5	28.3	17.0~28.3	35.2	0~62.8	800	37.7	0~5.1	0~5.7	0~6.9	0~10.0	0~18.0	--	--
10	21.2	12.7~21.2	26.4	0~47.1	1600	75.4	0~2.5	0~2.9	0~3.4	0~5.0	0~9.0	--	--
12.5	17.0	10.2~17.0	21.1	0~37.7	3200	150.7	0~1.3	0~1.4	0~1.7	0~2.5	0~4.5	--	--
15	14.1	8.5~14.1	17.6	0~31.4	6400	301.4	0~0.6	0~0.7	0~0.9	0~1.3	0~2.2	--	--
18	11.8	7.1~11.8	14.7	0~26.2	12800	602.9	--	--	--	--	--	--	--
25	8.5	5.1~8.5	10.6	0~18.8	25600	1205.8	--	--	--	--	--	--	--
30	7.1	4.2~7.1	8.8	0~15.7	51200	2411.5	--	--	--	--	--	--	--
36	5.9	3.5~5.9	7.3	0~13.1	--	--	--	--	--	--	--	--	--
50	4.2	2.5~4.2	5.3	0~9.4	--	--	--	--	--	--	--	--	--
60	3.5	2.1~3.5	4.4	0~7.9	--	--	--	--	--	--	--	--	--

Test Condition: B=150 L=1000



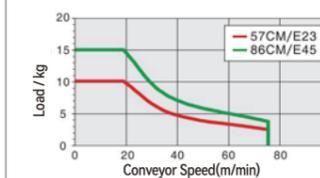
Speed calculation formula

1. Drive roller diameter D=50mm
 2. Speed adjustable motor RPM=1350/min
 3. Frequency motor RPM=1680/min
 4. Brushless motor RPM=3000/min
 5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1}{11 \times 1000} = 16.956 \text{ m/min}$$

Test Condition: B=150 L=1000 Current: 5A



Speed calculation formula

1. Drive roller diameter D=50mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000} = 18.84 \text{ m/min}$$

Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BEC01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BEC51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer				Alloy	Surface electrophoresis		Painting

Model	L-Conveyor Length 5mm	B-Belt Width	Motor Options				Belt Spec	Motor Brand
			Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BEC01 Arcuate roller	60~300 Min.Step (5mm)	355~2000	6	TA220	IM	5	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	GPG JSCC No motor
			25	SA220	SCM	7.5		
			40	TA220	INV	10		
			40	DC24 DC	KMC	12.5		
BEC51 Belt with guide rib	60~300 Min.Step (5mm)	355~2000	25	TA220	SCM	18	ZD No motor	S(Leadshine) No motor
			40	DC24 DC	SWS	25		
			57	CM	23	31		
			86	CME	45	80		
			Motor Series	Control method	Output torque	Drive type		
			MH Servo motor	TA220 Single phase	200W 400W	MC Pulse type IO IO type EC IO type EtherCAT RS RS485		

Recommend motor brand JSCC

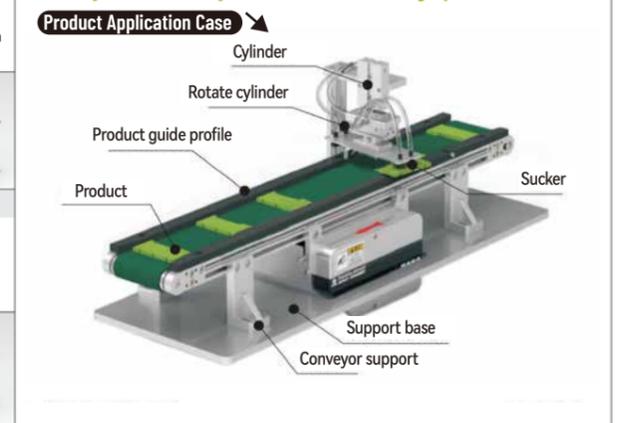
Model code example									
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand
Speed adjustable motor	BEC01	B150	L1000	25	TA220	SCM	12.5	H	G
Stepper motor	BEC51	B150	L1000	57	CM	23	MC	H	S
Servo motor	BEC51	B150	L1000	MH	TA220	200W	EC	H	X

Recommend belt width and conveyor length							
Model	B	L355	L405	L505	L605	L805	L905
BEC01	60~70	●	●	●	●	●	●
BEC51	75~110	●	●	●	●	●	●
	115~160	—	—	●	●	●	●
	165~210	—	—	—	●	●	●
	215~300	—	—	—	—	—	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:0.9mm Color:Blackish green Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.9mm Color:Bright green Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.8mm Color:Black Character:ESD 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Blackish green Character:ESD
H	H6	D	D9
Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.2mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:PU Thickness:1mm Color:Green Character:Incline 	<ul style="list-style-type: none"> Material:Pvc Thickness:1.2mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:Pvc Thickness:1.2mm Color:Red Character:Special
F	Q2	Y2	R

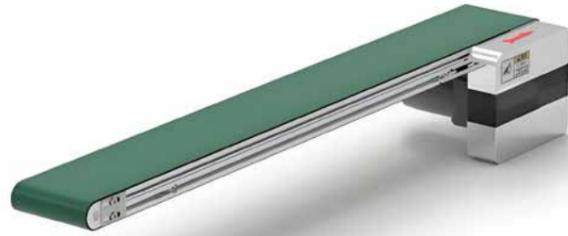
Conveyor with rotary mechanism to change product direction



Dual Slots Aluminum Profile

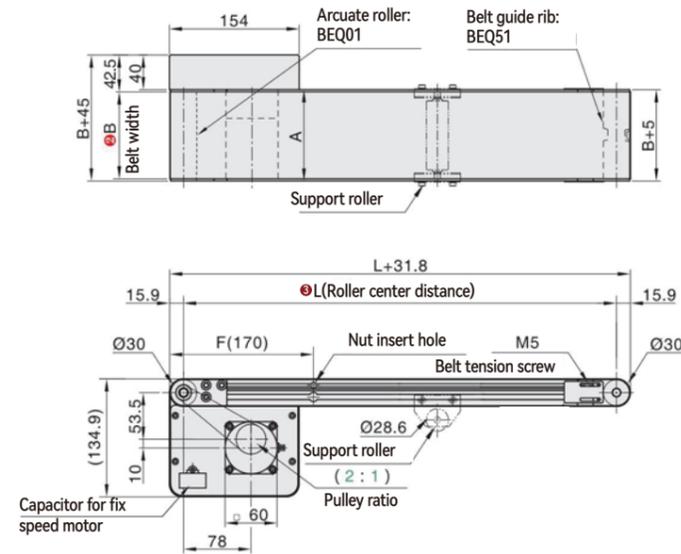
Conveyor Features

Adapt to specified conveyor width and length with small load



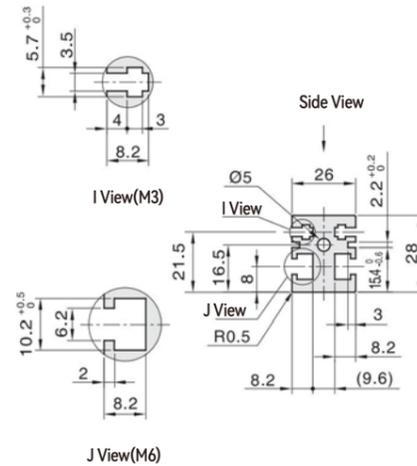
Conveyor Dimensions

Motor Specification: 6W Motion Direction



Above conveyor dimensions is basis on belt thickness H(0.9mm)

Conveyor Profile Section



Nut specification inside aluminum profile slot: Basis on L (Roller center distance)

190~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	I View	M3 (hexagonal)	Accessories
4PCS	6PCS	8PCS	J View	M6 (square)	Accessories

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)								
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque			86 series stepper motor torque			
							2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m		
5	50.9	30.5~50.9	63.3	0~113.0	400	22.6	0~4.2	0~4.8	0~5.7	0~8.4	0~15.0	--	--
7.5	33.9	20.3~33.9	42.2	0~75.4	800	45.2	0~2.1	0~2.4	0~2.9	0~4.2	0~7.5	--	--
10	25.4	15.3~25.4	31.7	0~56.5	1600	90.4	0~1.0	0~1.2	0~1.4	0~2.1	0~3.7	--	--
12.5	20.3	12.2~20.3	25.3	0~45.2	3200	180.9	0~0.5	0~0.6	0~0.7	0~1.0	0~1.9	--	--
15	17.0	10.2~17.0	21.1	0~37.7	6400	361.7	0~0.3	0~0.3	0~0.4	0~0.5	0~0.9	--	--
18	14.1	8.5~14.1	17.6	0~31.4	12800	723.5	--	--	--	--	--	--	--
25	10.2	6.1~10.2	12.7	0~22.6	25600	1446.9	--	--	--	--	--	--	--
30	8.5	5.1~8.5	10.6	0~18.8	51200	2893.8	--	--	--	--	--	--	--
36	7.1	4.2~7.1	8.8	0~15.7	--	--	--	--	--	--	--	--	--
50	5.1	3.1~5.1	6.3	0~11.3	--	--	--	--	--	--	--	--	--
60	4.2	2.5~4.2	5.3	0~9.4	--	--	--	--	--	--	--	--	--

Instrument	1. Set the current as default	2. Set the code on motor drive	3. Default torque can be modified by current setting.
<p>Test Condition: B=150 L=1000</p> <p>Speed calculation formula</p> <p>1. Drive roller diameter D=30mm</p> <p>2. Speed adjustable motor RPM=1350/min</p> <p>3. Frequency motor RPM=1680/min</p> <p>4. Brushless motor RPM=3000/min</p> <p>5. Belt pulley ratio i2=2:1</p> $S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$ $S = \frac{30 \times 3.14 \times 1350 \times 2}{12.5 \times 1000}$ <p>S = 20.3472m/min</p>	<p>Test Condition: B=150 L=1000 Current:5A</p> <p>Speed calculation formula</p> <p>1. Drive roller diameter D=30mm</p> <p>2. Pulse quantity=400</p> <p>3. Stepper motor angle J=1.8°</p> <p>4. Belt pulley ratio i2=2:1</p> $S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$ $S = \frac{30 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 2}{1000}$ <p>S = 22.6m/min</p>		

Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features		Material			Surface Treatment	
		Application Features	Motion Features	Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover
BEQ01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer	Alloy			Surface electrophoresis	Painting
BEQ51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer	Alloy			Surface electrophoresis	Painting

Model	L-Conveyor Length 5mm	B-Belt Width	Motor Options				Belt Spec	Motor Brand
			Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BEQ01 Arcuate roller	70~300	190~2000	6	TA220	IM	5 7.5 10 12.5 15	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	GPG JSCC No motor
			25	SA220	SCM			
			40	TA220	INV	60 75 90 100 120		
			40	DC24 DC	KMC	150 180		
BEQ51 Belt with guide rib	70~300	190~2000	25	TA220	SWS	5 7.5 10 12.5 15	ZD No motor	ZD No motor
			40	DC24 DC	SWS			
			57	CM	23 26 31	150 180		
			86	CME	45 80	150 180		
			Motor Series	Control method	Output torque	Drive type		
			MH Servo motor	TA220 Single phase	200W 400W	MC Pulse type IO IO type EC IO typeEtherCAT RS RS485		

Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length								
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L190	L305	L505	L605	L805	L905	L905
Speed adjustable motor	BEQ01	B150	L1000	25	TA220	SCM	12.5	H	G	BEQ01	70~110	●	●	●	●	●	●	●
Stepper motor	BEQ51	B150	L1000	57	CM	23	MC	H	S	BEQ51	115~160	●	●	●	●	●	●	●
Servo motor	BEQ51	B150	L1000	MH	TA220	200W	EC	H	X		165~210	—	—	●	●	●	●	●
											215~260	—	—	—	●	●	●	●
											265~300	—	—	—	—	—	—	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:0.9mm Color:Blackish green Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.9mm Color:Bright green Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.8mm Color:Black Character:ESD 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Blackish green Character:ESD
H	H6	D	D9
Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.2mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:PU Thickness:1mm Color:Green Character:Incline 	<ul style="list-style-type: none"> Material:Pvc Thickness:1.2mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:Pvc Thickness:1.2mm Color:Red Character:Special
F	Q2	Y2	R

Conveyor for NG part blowing sorting

Product Application Case

NG part blowing sorting mechanism

Part guide profile

NG part box

Conveyor support

NG part collecting

Machine frame

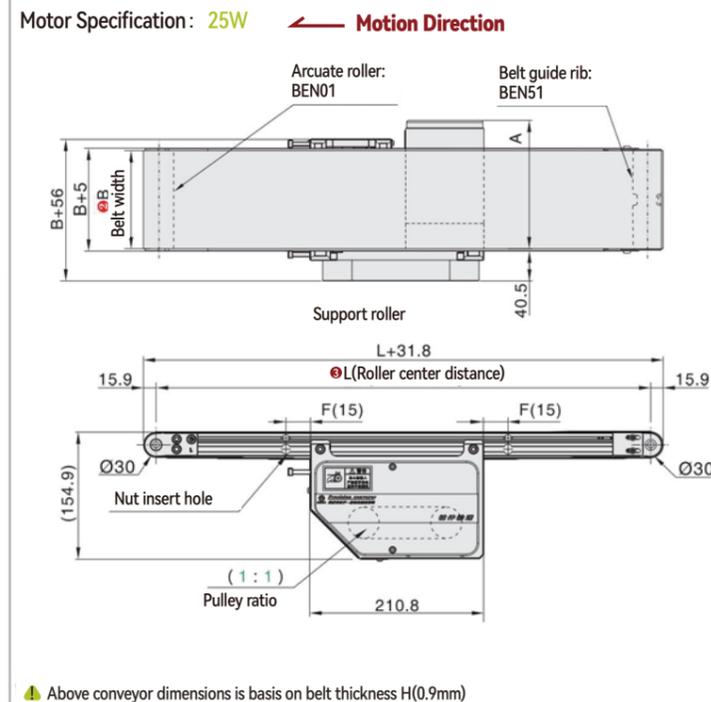
Dual Slots Aluminum Profile



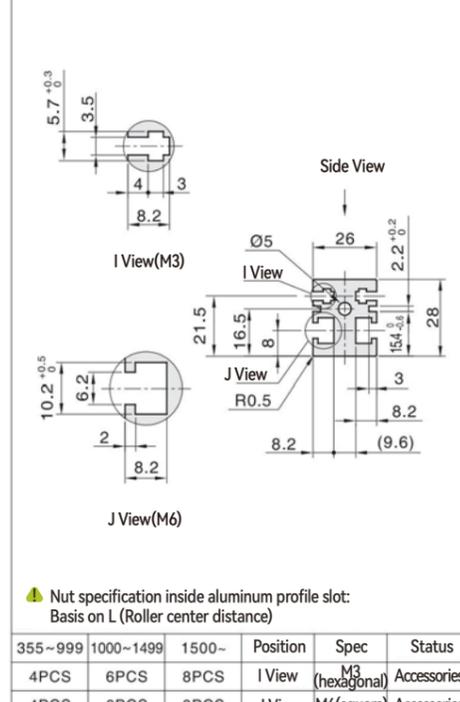
Conveyor Features

Adapt to specified conveyor width and length with small load

Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)								
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque			86 series stepper motor torque			
5	42.4	25.4~42.4	52.8	0~94.2	400	18.8	2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m	—	—
7.5	28.3	17.0~28.3	35.2	0~62.8	800	37.7	0~5.1	0~5.7	0~6.9	0~10.0	0~18.0	—	—
10	21.2	12.7~21.2	26.4	0~47.1	1600	75.4	0~2.5	0~2.9	0~3.4	0~5.0	0~9.0	—	—
12.5	17.0	10.2~17.0	21.1	0~37.7	3200	150.7	0~1.3	0~1.4	0~1.7	0~2.5	0~4.5	—	—
15	14.1	8.5~14.1	17.6	0~31.4	6400	301.4	0~0.6	0~0.7	0~0.9	0~1.3	0~2.2	—	—
18	11.8	7.1~11.8	14.7	0~26.2	12800	602.9	—	—	—	—	—	—	—
25	8.5	5.1~8.5	10.6	0~18.8	25600	1205.8	—	—	—	—	—	—	—
30	7.1	4.2~7.1	8.8	0~15.7	51200	2411.5	—	—	—	—	—	—	—
36	5.9	3.5~5.9	7.3	0~13.1	—	—	—	—	—	—	—	—	—
50	4.2	2.5~4.2	5.3	0~9.4	—	—	—	—	—	—	—	—	—
60	3.5	2.1~3.5	4.4	0~7.9	—	—	—	—	—	—	—	—	—

▲ Test Condition: B=150 L=1000

▲ Speed calculation formula

1. Drive roller diameter D=50mm
 2. Speed adjustable motor RPM=1350/min
 3. Frequency motor RPM=1680/min
 4. Brushless motor RPM=3000/min
 5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 16.956 \text{ m/min}$$

▲ Test Condition: B=150 L=1000 Current: 5A

▲ Speed calculation formula

1. Drive roller diameter D=50mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 18.84 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BEN01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BEN51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer		Alloy		Surface electrophoresis			Painting

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BEN01 Arcuate roller	70~300	Min.Step (5mm)	355~2000	6	TA220	IM Fix-speed motor	5 7.5 10 12.5 15	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	GPG JSCC No motor
				25	SA220	SCM Speed adjustable motor			
				40	SA220	INV VFD type	60 75 90 100 120		
				25	DC24 DC	KMC Speed adjustable motor	150 180		
				40	TA220	SWS Motor with drive			
				57	series stepper motor	CM Open loop	23 26 31		
BEN51 Belt with guide rib	70~300	Min.Step (5mm)	355~2000	86	CME	IO IO type	MC Pulse type IO IO type EC IO type EtherCAT RS RS485	S(Leadshine) No motor	
				57	series stepper motor	CM Open loop			23 26 31
				86	series stepper motor	CME Closed loop			45 80
				MH	Servo motor	TA220 Single phase	200W 400W		S(Leadshine) X(Panasonic) No motor

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length							
Model	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L355	L405	L505	L605	L805	L905
Speed adjustable motor	BEN01	B150	L1000	25	TA220	SCM	12.5	H	G	BEN01	70~110	●	●	●	●	●	●
Stepper motor	BEN51	B150	L1000	57	CM	23	MC	H	S	BEN51	115~160	●	●	●	●	●	●
Servo motor	BEN51	B150	L1000	MH	TA220	200W	EC	H	X		165~210	—	—	●	●	●	●
											215~260	—	—	—	●	●	●
											265~300	—	—	—	—	—	●

Belt Specification

Underlying Parameter			
• Material:PU • Thickness:0.9mm • Color:Blackish green • Character:General	• Material:PU • Thickness:0.9mm • Color:Bright green • Character:General	• Material:PU • Thickness:0.8mm • Color:Black • Character:ESD	• Material:PU • Thickness:1.0mm • Color:Blackish green • Character:ESD
H	H6	D	D9
Underlying Parameter			
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material:PU • Thickness:1mm • Color:Green • Character:Incline	• Material:Pvc • Thickness:1.2mm • Color:Yellow • Character:Special	• Material:Pvc • Thickness:1.2mm • Color:Red • Character:Special
F	Q2	Y2	R

Conveyor with sorting mechanism

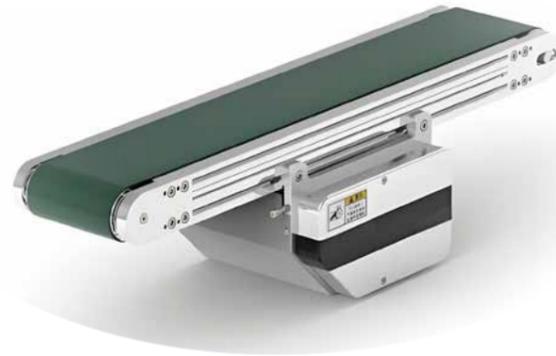
Product Application Case

NG part blowing sorting mechanism

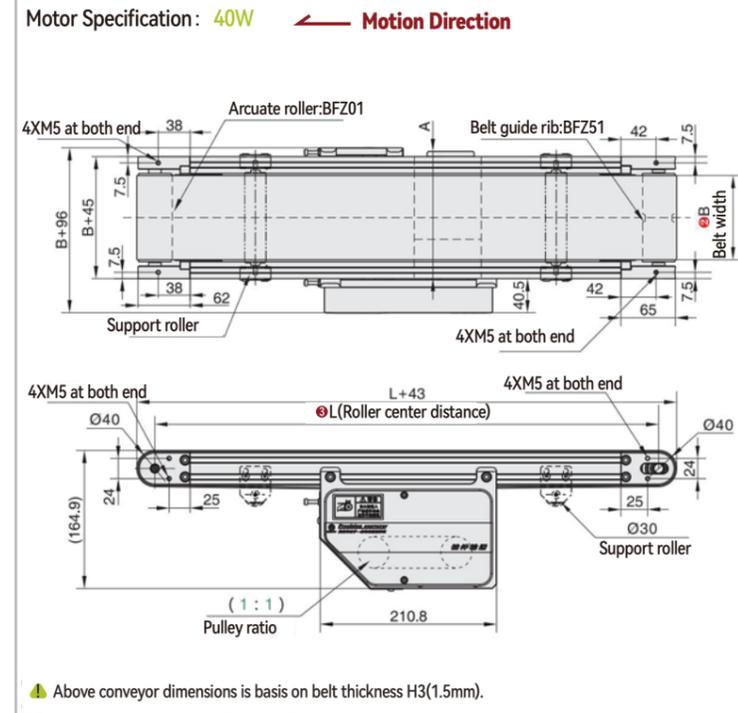
Dual Slots Aluminum Profile

Conveyor Features

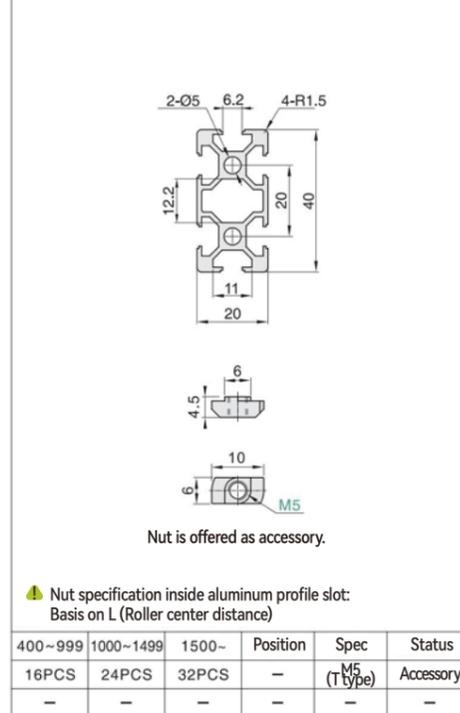
Conveyor section made of 2040 EU standard aluminum profile for small to medium load



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Gear box ratio	Form 1: Gear box ratio and conveyor speed(m/min)				Form 2: Pulse quality and conveyor speed(m/min)			
	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque	86 series stepper motor torque
5	42.4	25.4~42.4	52.8	0~94.2	400	18.8	2.3N.m	2.6N.m
7.5	28.3	17.0~28.3	35.2	0~62.8	800	37.7	0~5.0	0~5.7
10	21.2	12.7~21.2	26.4	0~47.1	1600	75.4	0~2.5	0~2.8
12.5	17.0	10.2~17.0	21.1	0~37.7	3200	150.7	0~1.3	0~1.4
15	14.1	8.5~14.1	17.6	0~31.4	6400	301.4	0~0.6	0~0.7
18	11.8	7.1~11.8	14.7	0~26.2	12800	602.9	-	-
25	8.5	5.1~8.5	10.6	0~18.8	25600	1205.8	-	-
30	7.1	4.2~7.1	8.8	0~15.7	51200	2411.5	-	-
36	5.9	3.5~5.9	7.3	0~13.1	-	-	-	-
50	4.2	2.5~4.2	5.3	0~9.4	-	-	-	-
60	3.5	2.1~3.5	4.4	0~7.9	-	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition:B=200 L=1000

▲ Speed calculation formula
1. Drive roller diameter D=50mm
2. Speed adjustable motor RPM=1350r/min
3. Frequency motor RPM=1680r/min
4. Brushless motor RPM=3000r/min
5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1}{11 \times 1000}$$

$$S = 12.5 \times 1000$$

$$S = 16.956 \text{ m/min}$$

▲ Test Condition:B=200 L=1000 Current:5A

▲ Speed calculation formula
1. Drive roller diameter D=50mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 18.84 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BFZ01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BFZ51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer		Alloy		Surface anodizing		Painting	

Model	L-Conveyor Length 5mm	B-Belt Width	Motor Options				Belt Spec	Motor Brand
			Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BFZ01 Arcuate roller	60~400 Min.Step (5mm)	400~3000	25	TA220	IM	5 7.5 10 12.5 15	H3(Bright green) H9(Black) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	GPG JSCC No motor
			40	SA220	SCM	18 25 30 36 50		
			25	DC24 DC	KMC	60 75 90 100 120		
			40	TA220	INV VFD type	150 180		
BFZ51 Belt with guide rib	60~400 Min.Step (5mm)	400~3000	25	DC24 DC	SWS	5 7.5 10 12.5 15	When motor power is 6W gear box ratio can not be 5-10.	ZD No motor
			40	TA220	SCM	18 25 30 36 50		
			57 series stepper motor	CM	23 26 31	MC Pulse type IO IO type EC IO type EtherCAT RS RS485		
			86 series stepper motor	CME	45 80 120			
			MH Servo motor	TA220 Single phase	400W 750W		S(Leadshine) X(Panasonic) No motor	

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L400	L505	L605	L705	L805	L905
Speed adjustable motor	BFZ01	B200	L1000	25	TA220	SCM	12.5	H3	G	BFZ01	60~110	●	●	●	●	●	●
Stepper motor	BFZ51	B200	L1000	57	CM	23	MC	H3	S	BFZ51	115~160	●	●	●	●	●	●
Servo motor	BFZ51	B200	L1000	MH	TA220	400W	EC	H3	X		165~210	-	●	●	●	●	●
											215~310	-	-	●	●	●	●
											315~400	-	-	-	-	●	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:Pvc Thickness:1.5mm Color:Bright green Character:General 	<ul style="list-style-type: none"> Material:Pvc Thickness:2.0mm Color:Black Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.8mm Color:Black Character:ESD 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Blackish green Character:ESD
H3	H9	D	D9
<ul style="list-style-type: none"> Material:PU Thickness:1.2mm Color:White Character:Food grade 			
F	Q2	Y2	R
<ul style="list-style-type: none"> Material:PU Thickness:1mm Color:Green Character:Incline 			
<ul style="list-style-type: none"> Material:Pvc Thickness:1.2mm Color:Yellow Character:Special 			
<ul style="list-style-type: none"> Material:Pvc Thickness:1.2mm Color:Red Character:Special 			

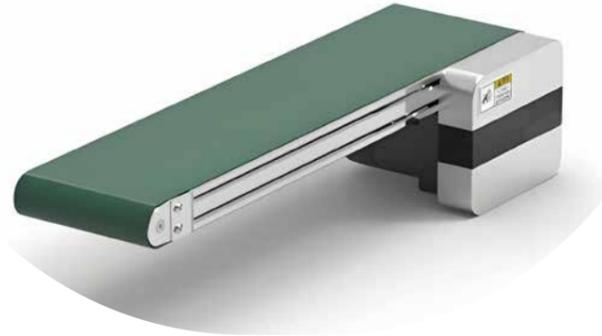
Conveyor solution for product testing

Product Application Case

Dual Slots Aluminum Profile

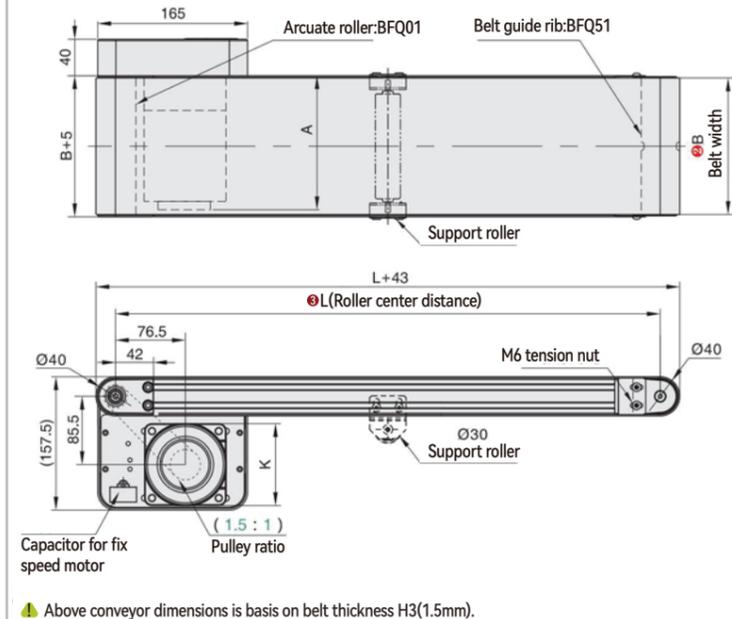
Conveyor Features

Conveyor section made of 2040 EU standard aluminum profile for small to medium load

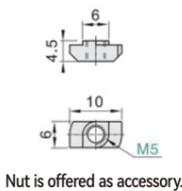
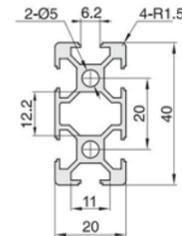


Conveyor Dimensions

Motor Specification: 40W ← Motion Direction



Conveyor Profile Section



▲ Nut specification inside aluminum profile slot: Basis on L (Roller center distance)

300~999	1000~1499	1500~	Position	Spec	Status
16PCS	24PCS	32PCS	-	M5 (T type)	Accessory
-	-	-	-	-	-

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)													
Gear box ratio	Fix-speed motor		Speed adjustable motor		Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	57 series stepper motor torque					86 series stepper motor torque					
	Speed(m/min)	Speed(m/min)	Speed(m/min)	Speed(m/min)				2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m	12.0N.m	2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m
5	50.9	30.5-50.9	63.3	0-113.0	400	22.6	0-5.5	0-6.3	0-7.5	0-11.1	0-19.9	0-30.0	-	-	-	-	-	-
7.5	33.9	20.3-33.9	42.2	0-75.4	800	45.2	0-2.8	0-3.1	0-3.8	0-5.5	0-9.9	0-15.0	-	-	-	-	-	-
10	25.4	15.3-25.4	31.7	0-56.5	1600	90.4	0-1.4	0-1.6	0-1.9	0-2.8	0-5.0	0-7.5	-	-	-	-	-	-
12.5	20.3	12.2-20.3	25.3	0-45.2	3200	180.9	0-0.7	0-0.8	0-0.9	0-1.4	0-2.5	0-3.7	-	-	-	-	-	-
15	17.0	10.2-17.0	21.1	0-37.7	6400	361.7	0-0.3	0-0.4	0-0.5	0-0.7	0-1.2	0-1.9	-	-	-	-	-	-
18	14.1	8.5-14.1	17.6	0-31.4	12800	723.5	-	-	-	-	-	-	-	-	-	-	-	-
25	10.2	6.1-10.2	12.7	0-22.6	25600	1446.9	-	-	-	-	-	-	-	-	-	-	-	-
30	8.5	5.1-8.5	10.6	0-18.8	51200	2893.8	-	-	-	-	-	-	-	-	-	-	-	-
36	7.1	4.2-7.1	8.8	0-15.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	5.1	3.1-5.1	6.3	0-11.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60	4.2	2.5-4.2	5.3	0-9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Instrument: 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition: B=200 L=1000 Current: 5A

▲ Speed calculation formula

1. Drive roller diameter D=40mm
2. Speed adjustable motor RPM=1350/min
3. Frequency motor RPM=1680/min
4. Brushless motor RPM=3000/min
5. Belt pulley ratio i=1.5:1

$$S = \frac{D \times \pi \times R \times i}{11 \times 1000}$$

$$S = \frac{40 \times 3.14 \times 1350 \times 1.5}{11 \times 1000}$$

$$S = 20.3472 \text{ m/min}$$

▲ Test Condition: B=200 L=1000 Current: 5A

▲ Speed calculation formula

1. Drive roller diameter D=40mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i=1.5:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i}{1000}$$

$$S = \frac{40 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1.5}{1000}$$

$$S = 22.608 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BFQ01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BFQ51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer				Alloy	Surface anodizing		Painting

Model	L-Conveyor Length 5mm	B-Belt Width	Motor Options				Belt Spec	Motor Brand
			Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BFQ01 Arcuate roller	80~400	300~3000	25	TA220	IM Fix-speed motor	5 7.5 10 12.5 15	H3(Bright green) H9(Black) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	GPG JSCC No motor
			40	SA220	SCM Speed adjustable motor	18 25 30 36 50		
			60	DC24 DC	INV VFD type	60 75 90 100 120		
			25	TA220	KMC Speed adjustable motor	150 180		
BFQ51 Belt with guide rib	80~400	300~3000	40	TA220	SWS Motor with drive	150 180	MC Pulse type IO IO type EC IO type EtherCAT RS RS485	ZD No motor
			57 series stepper motor	CM Open loop	23 26 31			
			86 series stepper motor	CME Closed loop	45 80 120			
			Motor Series	Voltage(V)	Output power	Drive type		
MH Servo motor	TA220 Single phase	400W 750W					S(Leadshine) X(Panasonic) No motor	

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length							
Model	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L300	L405	L505	L605	L705	L805
Speed adjustable motor	BFQ01	B200	L1000	25	TA220	SCM	12.5	H3	G	BFQ01	80~110	●	●	●	●	●	●
Stepper motor	BFQ51	B200	L1000	57	CM	23	MC	H3	S	BFQ51	115~160	●	●	●	●	●	●
Servo motor	BFQ51	B200	L1000	MH	TA220	400W	EC	H3	X		165~210	-	-	●	●	●	●
											215~310	-	-	-	●	●	●
											315~400	-	-	-	-	-	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:Pvc Thickness:1.5mm Color:Bright green Character:General 	<ul style="list-style-type: none"> Material:Pvc Thickness:2.0mm Color:Black Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.8mm Color:Black Character:ESD 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Blackish green Character:ESD
H3	H9	D	D9
Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.2mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:PU Thickness:1mm Color:Green Character:Incline 	<ul style="list-style-type: none"> Material:Pvc Thickness:1.2mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:Pvc Thickness:1.2mm Color:Red Character:Special
F	Q2	Y2	R

Conveyor solution for product testing

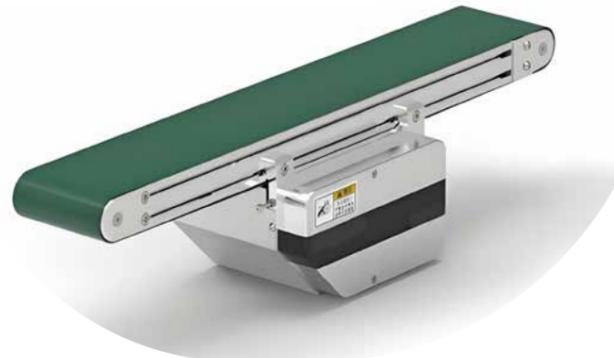
Product Application Case

Components: Product, Pickup module, Sheet metal guide profile, BSV01 Leg.

Dual Slots Aluminum Profilee

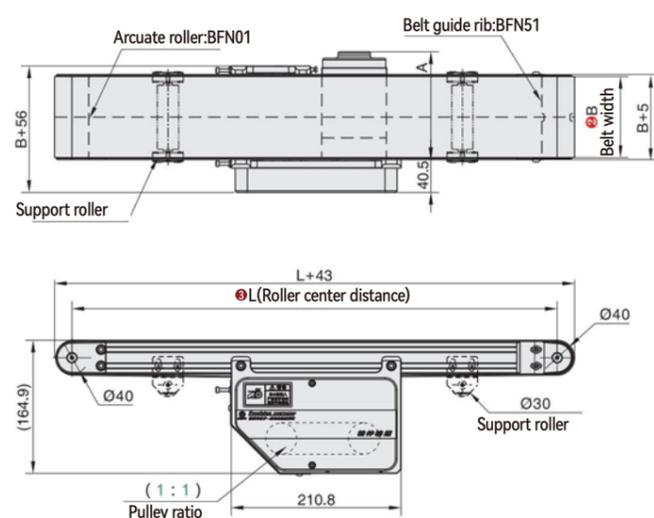
Conveyor Features

Overall belt conveyor for specified width and length adapt to small and medium load. Drive unit position can be shifted



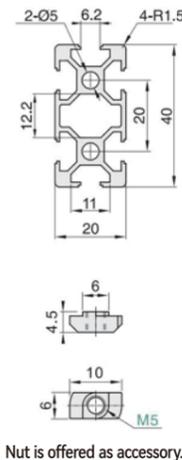
Conveyor Dimensions

Motor Specification: 40W ← Motion Direction



▲ Above conveyor dimensions is basis on belt thickness H3(1.5mm).

Conveyor Profile Section



400~999	1000~1499	1500~	Position	Spec	Status
16PCS	24PCS	32PCS	-	M5 (T type)	Accessory
-	-	-	-	-	-

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)								
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque			86 series stepper motor torque			
5	42.4	25.4~42.4	52.8	0~94.2	400	18.8	2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m	12.0N.m	-
7.5	28.3	17.0~28.3	35.2	0~62.8	800	37.7	0~5.0	0~5.7	0~6.8	0~10.0	0~17.9	0~27.0	-
10	21.2	12.7~21.2	26.4	0~47.1	1600	75.4	0~2.5	0~2.8	0~3.4	0~5.0	0~9.0	0~13.5	-
12.5	17.0	10.2~17.0	21.1	0~37.7	3200	150.7	0~1.3	0~1.4	0~1.7	0~2.5	0~4.5	0~6.8	-
15	14.1	8.5~14.1	17.6	0~31.4	6400	301.4	0~0.6	0~0.7	0~0.9	0~1.2	0~2.2	0~3.4	-
18	11.8	7.1~11.8	14.7	0~26.2	12800	602.9	-	-	-	-	-	-	-
25	8.5	5.1~8.5	10.6	0~18.8	25600	1205.8	-	-	-	-	-	-	-
30	7.1	4.2~7.1	8.8	0~15.7	51200	2411.5	-	-	-	-	-	-	-
36	5.9	3.5~5.9	7.3	0~13.1	-	-	-	-	-	-	-	-	-
50	4.2	2.5~4.2	5.3	0~9.4	-	-	-	-	-	-	-	-	-
60	3.5	2.1~3.5	4.4	0~7.9	-	-	-	-	-	-	-	-	-

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BFN01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BFN51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer				Alloy	Surface anodizing		Painting

Model	L-Conveyor Length 5mm	B-Belt Width	Motor Options				Belt Spec	Motor Brand
			Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BFN01 Arcuate roller	80~400	400~3000	25	TA220	IM	5 7.5 10 12.5 15	H3(Bright green) H9(Black) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	GPG JSCC No motor
			40	SA220	SCM	18 25 30 36 50		
			60	TA220	INV	60 75 90 100 120		
			25	DC24 DC	KMC	150 180		
BFN51 Belt with guide rib	80~400	400~3000	40	TA220	SWS	60 75 90 100 120	ZD No motor	ZD No motor
			57 series stepper motor	CM	23 26 31	MC Pulse type IO IO type EC IO typeEtherCAT RS RS485		
			86 series stepper motor	CME	45 80 120			
			Motor Series	Control method	Output torque			
MH Servo motor	TA220 Single phase	400W 750W						

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L400	L505	L605	L705	L805	L905
Speed adjustable motor	BFN01	B200	L1000	25	TA220	SCM	12.5	H3	G	BFN01	80~110	●	●	●	●	●	●
Stepper motor	BFN51	B200	L1000	57	CM	23	MC	H3	S	BFN51	115~160	●	●	●	●	●	●
Servo motor	BFN51	B200	L1000	MH	TA220	400W	EC	H3	X		165~210	-	●	●	●	●	●
											215~310	-	-	●	●	●	●
											315~400	-	-	-	-	●	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:Pvc Thickness:1.5mm Color:Bright green Character:General 	<ul style="list-style-type: none"> Material:Pvc Thickness:2.0mm Color:Black Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.8mm Color:Black Character:ESD 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Blackish green Character:ESD
H3	H9	D	D9
Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.2mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:PU Thickness:1mm Color:Green Character:Incline 	<ul style="list-style-type: none"> Material:Pvc Thickness:1.2mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:Pvc Thickness:1.2mm Color:Red Character:Special
F	Q2	Y2	R

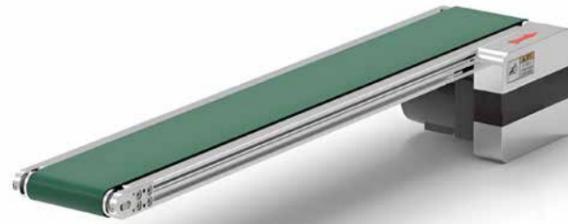
Conveyor solution for product testing

Product Application Case

Three Slots Aluminum Profilee

Conveyor Features

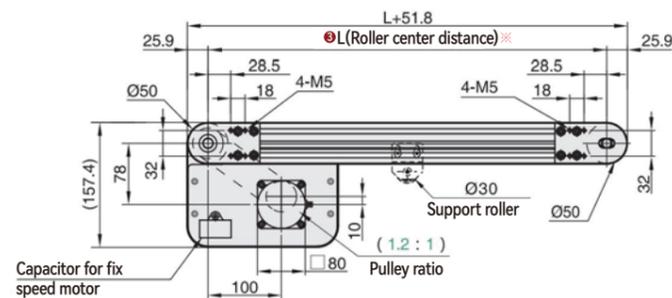
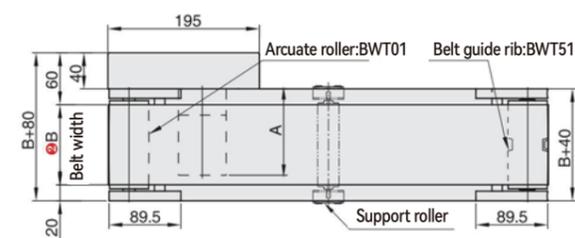
Stable and precision conveyor with strong structure for medium load application.



Conveyor Dimensions

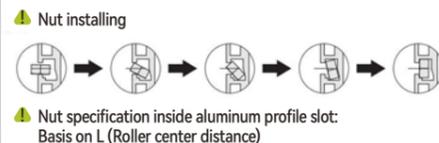
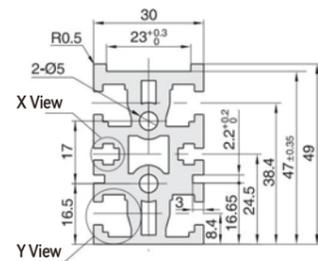
Motor Specification: 25W

Motion Direction



Above conveyor dimensions is basis on belt thickness H(0.9mm).

Conveyor Profile Section



240~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	X View	M3 (hexagonal)	Accessory
4PCS	6PCS	8PCS	Y View	M6 (square)	Accessory

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	50.9	30.5~50.9	63.3	0~113.0	400	22.6	4.5N.m	8.0N.m	12.0N.m
7.5	33.9	20.3~33.9	42.2	0~75.4	800	45.2	0~13.8	0~24.8	0~37.4
10	25.4	15.3~25.4	31.7	0~56.5	1600	90.4	0~6.9	0~12.4	0~18.7
12.5	20.3	12.2~20.3	25.3	0~45.2	3200	180.9	0~3.5	0~6.2	0~9.4
15	17.0	10.2~17.0	21.1	0~37.7	6400	361.7	0~1.7	0~3.1	0~4.7
18	14.1	8.5~14.1	17.6	0~31.4	12800	723.5	0~0.9	0~1.6	0~2.3
25	10.2	6.1~10.2	12.7	0~22.6	25600	1446.9	-	-	-
30	8.5	5.1~8.5	10.6	0~18.8	51200	2893.8	-	-	-
36	7.1	4.2~7.1	8.8	0~15.7	-	-	-	-	-
50	5.1	3.1~5.1	6.3	0~11.3	-	-	-	-	-
60	4.2	2.5~4.2	5.3	0~9.4	-	-	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

Test Condition: B=200 L=1000

Speed calculation formula

$$S = \frac{D \times \pi \times R \times i_2}{11 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1.2}{12.5 \times 1000}$$

$$S = 20.3472 \text{ m/min}$$

Test Condition: B=200 L=1000 Current:5A

Speed calculation formula

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i_2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1.2}{1000}$$

$$S = 22.608 \text{ m/min}$$

Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BWT01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BWT51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	B-Belt Width	Motor Options				Belt Spec	Motor Brand	
			Output Power(W)	Voltage(V)	Motor Type	Gear box ratio			
BWT01 Arcuate roller	50~400	240~3000	25	TA220	IM Fix-speed motor	5 7.5 10 12.5 15	H(Bright green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y1(Yellow- Special type) R1(Red- Special type)	GPG JSCC No motor	
			40	SA220	SCM Speed adjustable motor	18 25 30 36 50			
			60	TA220	INV VFD type	60 75 90 100 120			
			90	TA220	KMC Speed adjustable motor	150 180			
BWT51 Belt with guide rib	50~400	240~3000	40	DC24 DC	SWS Motor with drive	5 7.5 10 12.5 15	S(Leadshine) No motor	ZD No motor	
			60	TA220	SCM Speed adjustable motor	18 25 30 36 50			
			86	CM Open loop	45 80 120	S(Leadshine) No motor			ZD No motor
			MH Servo motor	TA220 Single phase	400W 750W				

Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length								
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L240	L305	L505	L605	L805	L905	L905
Speed adjustable motor	BWT01	B200	L1000	25	TA220	SCM	12.5	H	G	BWT01	50~110	●	●	●	●	●	●	●
Stepper motor	BWT51	B200	L1000	86	CM	45	MC	H	S	BWT51	115~160	—	●	●	●	●	●	●
Servo motor	BWT51	B200	L1000	MH	TA220	400W	EC	H	X		165~210	—	—	●	●	●	●	●
											215~260	—	—	—	—	●	●	●
											265~400	—	—	—	—	—	—	●

Belt Specification

Underlying Parameter			
• Material:Pvc • Thickness:0.9mm • Color:Bright green • Character:General	• Material:Pvc • Thickness:0.9mm • Color:Bright green • Character:General	• Material:PU • Thickness:0.8mm • Color:Black • Character:ESD	• Material:PU • Thickness:1.0mm • Color:Blackish green • Character:ESD
H	H6	D	D9
Underlying Parameter			
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material:PU • Thickness:1mm • Color:Green • Character:Incline	• Material:Pvc • Thickness:2.0mm • Color:Yellow • Character:Special	• Material:Pvc • Thickness:2.0mm • Color:Red • Character:Special
F	Q2	Y1	R1

Conveyor solution for product levelling and printing

Product Application Case

Press roller
Product
Printing equipment
Conveyor support

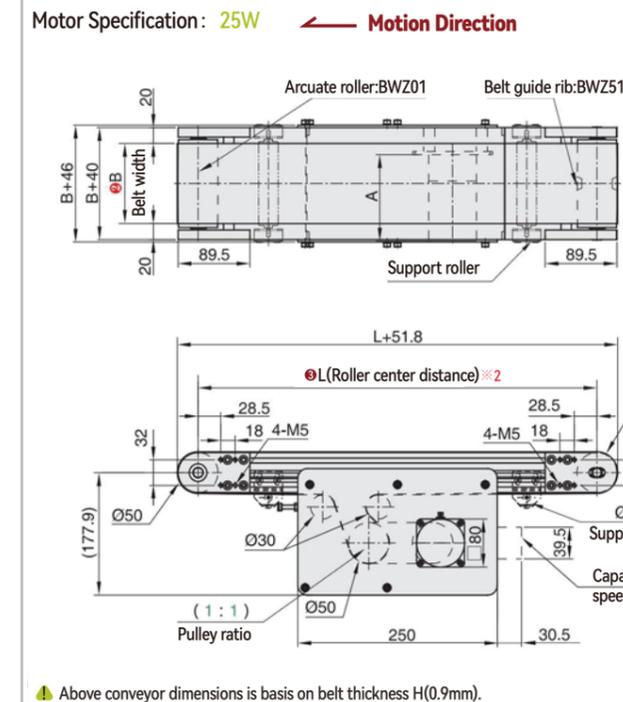
Three Slots Aluminum Profilee

Conveyor Features

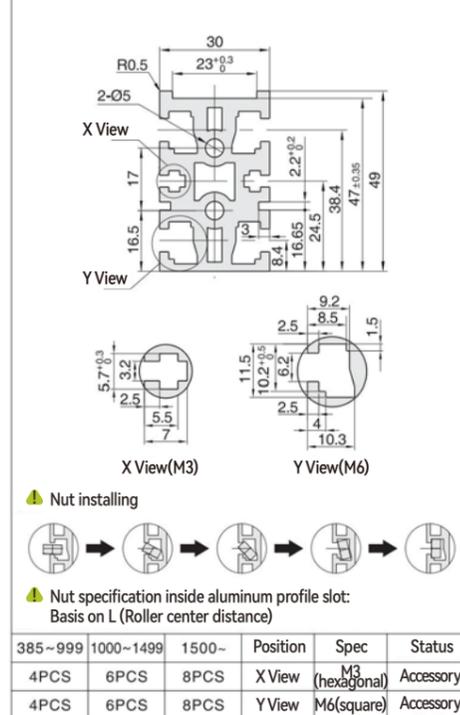
Stable and precision conveyor with strong structure for medium load application.



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	42.4	25.4~42.4	52.8	0~94.2	400	18.8	4.5N.m	8.0N.m	12.0N.m
7.5	28.3	17.0~28.3	35.2	0~62.8	800	37.7	0~20.0	0~35.8	0~54.0
10	21.2	12.7~21.2	26.4	0~47.1	1600	75.4	0~10.0	0~17.9	0~27.0
12.5	17.0	10.2~17.0	21.1	0~37.7	3200	150.7	0~5.0	0~9.0	0~13.5
15	14.1	8.5~14.1	17.6	0~31.4	6400	301.4	0~2.5	0~4.5	0~6.8
18	11.8	7.1~11.8	14.7	0~26.2	12800	602.9	0~1.2	0~2.2	0~3.4
25	8.5	5.1~8.5	10.6	0~18.8	25600	1205.8	-	-	-
30	7.1	4.2~7.1	8.8	0~15.7	51200	2411.5	-	-	-
36	5.9	3.5~5.9	7.3	0~13.1	-	-	-	-	-
50	4.2	2.5~4.2	5.3	0~9.4	-	-	-	-	-
60	3.5	2.1~3.5	4.4	0~7.9	-	-	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

Test Condition:B=200 L=1000

Speed calculation formula

1. Drive roller diameter D=50mm
 2. Speed adjustable motor RPM=1350/min
 3. Frequency motor RPM=1680/min
 4. Brushless motor RPM=3000/min
 5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1}{11 \times 1000}$$

$$S = 12.5 \times 1000$$

$$S = 16.956 \text{ m/min}$$

Speed calculation formula

1. Drive roller diameter D=50mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 18.84 \text{ m/min}$$

Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BWZ01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BWZ51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer				Alloy	Surface electrophoresis		Painting

Model	L-Conveyor Length 5mm	Motor Options					Belt Spec	Motor Brand
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio			
BWZ01 Arcuate roller	50~400	25	TA220	IM	5 7.5 10 12.5 15	H(Bright green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y1(Yellow- Special type) R1(Red- Special type)	GPG JSCC No motor	
		40	SA220	SCM	18 25 30 36 50			
		60	TA220	INV	60 75 90 100 120			
		90	TA220	VFD	150 180			
BWZ51 Belt with guide rib	385~3000	40	DC24	KMC	5 7.5 10 12.5 15	ZD No motor		
		60	TA220	SWS	18 25 30 36 50			
		86	CM	45 80 120	S(Leadshine) No motor			
		MH	TA220	400W 750W	S(Leadshine) X(Panasonic) No motor			

Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length								
Model	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L385	L505	L605	L705	L805	L905	L905
Speed adjustable motor	BWZ01	B200	L1000	25	TA220	SCM	12.5	H	G	BWZ01	50~110	●	●	●	●	●	●	●
Stepper motor	BWZ51	B200	L1000	86	CM	45	MC	H	S	BWZ51	115~160	●	●	●	●	●	●	●
Servo motor	BWZ51	B200	L1000	MH	TA220	400W	EC	H	X		165~210	—	●	●	●	●	●	●
											215~260	—	—	●	●	●	●	●
											265~400	—	—	—	●	●	●	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:Pvc Thickness:0.9mm Color:Bright green Character:General 	<ul style="list-style-type: none"> Material:Pvc Thickness:0.9mm Color:Bright green Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.8mm Color:Black Character:ESD 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Blackish green Character:ESD
H	H6	D	D9
Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.2mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:PU Thickness:1mm Color:Green Character:Incline 	<ul style="list-style-type: none"> Material:Pvc Thickness:2.0mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:Pvc Thickness:2.0mm Color:Red Character:Special
F	Q2	Y1	R1

Conveyor solution for multiple work stations

Product Application Case

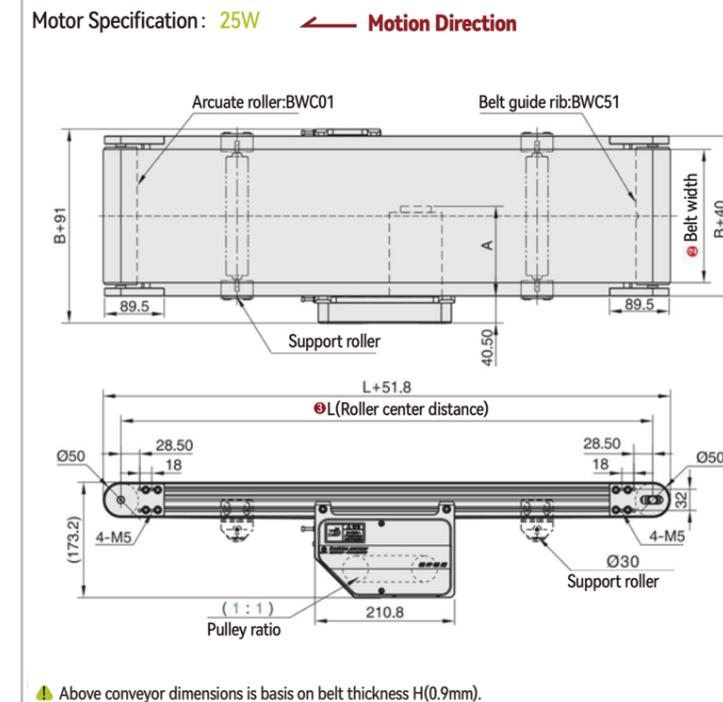
Three Slots Aluminum Profile

Conveyor Features

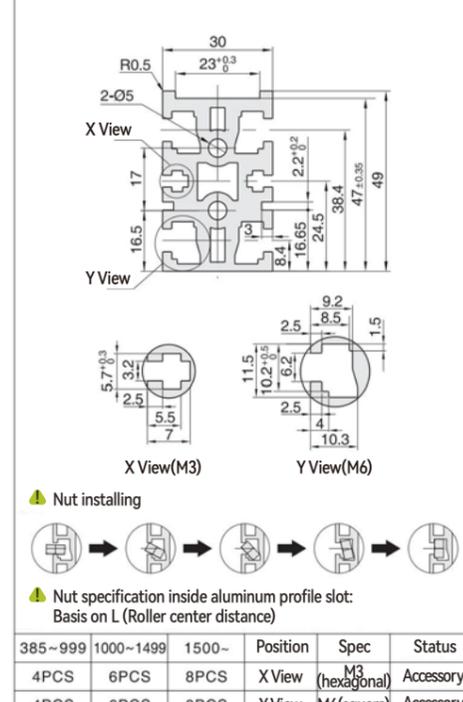
Stable and precision conveyor with strong structure for medium load application.



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	42.4	25.4~42.4	52.8	0~94.2	400	18.8	4.5N.m	8.0N.m	12.0N.m
7.5	28.3	17.0~28.3	35.2	0~62.8	800	37.7	0~20.0	0~35.8	0~54.0
10	21.2	12.7~21.2	26.4	0~47.1	1600	75.4	0~10.0	0~17.9	0~27.0
12.5	17.0	10.2~17.0	21.1	0~37.7	3200	150.7	0~5.0	0~9.0	0~13.5
15	14.1	8.5~14.1	17.6	0~31.4	6400	301.4	0~2.5	0~4.5	0~6.8
18	11.8	7.1~11.8	14.7	0~26.2	12800	602.9	0~1.2	0~2.2	0~3.4
25	8.5	5.1~8.5	10.6	0~18.8	25600	1205.8	—	—	—
30	7.1	4.2~7.1	8.8	0~15.7	51200	2411.5	—	—	—
36	5.9	3.5~5.9	7.3	0~13.1	—	—	—	—	—
50	4.2	2.5~4.2	5.3	0~9.4	—	—	—	—	—
60	3.5	2.1~3.5	4.4	0~7.9	—	—	—	—	—

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

Test Condition: B=200 L=1000 Current:5A

Speed calculation formula

1. Drive roller diameter D=50mm
 2. Speed adjustable motor RPM=1350/min
 3. Frequency motor RPM=1680/min
 4. Brushless motor RPM=3000/min
 5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1}{11 \times 1000} = 16.956 \text{ m/min}$$

Speed calculation formula

1. Drive roller diameter D=50mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000} = 18.84 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BWC01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BWC51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Spec	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BWC01	Arcuate roller	50~400	385~3000	25	TA220	IM Fix-speed motor	H(Bright green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y1(Yellow- Special type) R1(Red- Special type)	GPG JSCC No motor
				40	SA220	SCM Speed adjustable motor		
				60	TA220	INV VFD type		
				90	SA220	Three phase		
BWC51	Belt with guide rib	50~400	385~3000	40	DC24 DC	KMC Speed adjustable motor	ZD No motor	
				60	TA220	SWS Motor with drive		
				86	CM	Open loop		
				86	CME	Closed loop		
BWC51	Belt with guide rib	50~400	385~3000	86	CM	Open loop	S(Leadshine) No motor	
				86	CME	Closed loop		
				86	CM	Open loop		
BWC51	Belt with guide rib	50~400	385~3000	MH	TA220	Single phase	Servo motor brand	
				MH	TA220	Single phase		

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length								
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L385	L505	L605	L605	L705	L805	L805
Speed adjustable motor	BWC01	B200	L1000	25	TA220	SCM	12.5	H	G	BWC01	50~110	●	●	●	●	●	●	●
Stepper motor	BWC51	B200	L1000	86	CM	45	MC	H	S	BWC51	115~160	●	●	●	●	●	●	●
Servo motor	BWC51	B200	L1000	MH	TA220	400W	EC	H	X		165~210	—	●	●	●	●	●	●
											215~260	—	—	●	●	●	●	●
											265~400	—	—	—	●	●	●	●

Belt Specification

Underlying Parameter			
• Material:Pvc • Thickness:0.9mm • Color:Bright green • Character:General	• Material:Pvc • Thickness:0.9mm • Color:Bright green • Character:General	• Material:PU • Thickness:0.8mm • Color:Black • Character:ESD	• Material:PU • Thickness:1.0mm • Color:Blackish green • Character:ESD
H	H6	D	D9
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material:PU • Thickness:1mm • Color:Green • Character:Incline	• Material:Pvc • Thickness:2.0mm • Color:Yellow • Character:Special	• Material:Pvc • Thickness:2.0mm • Color:Red • Character:Special
F	Q2	Y1	R1

Side by side conveyors for product sorting process

Product Application Case

Labels: OK part sorting mechanism, Robot arm, Conveyor support, Lift and transfer unit, NG part sorting mechanism, Product.

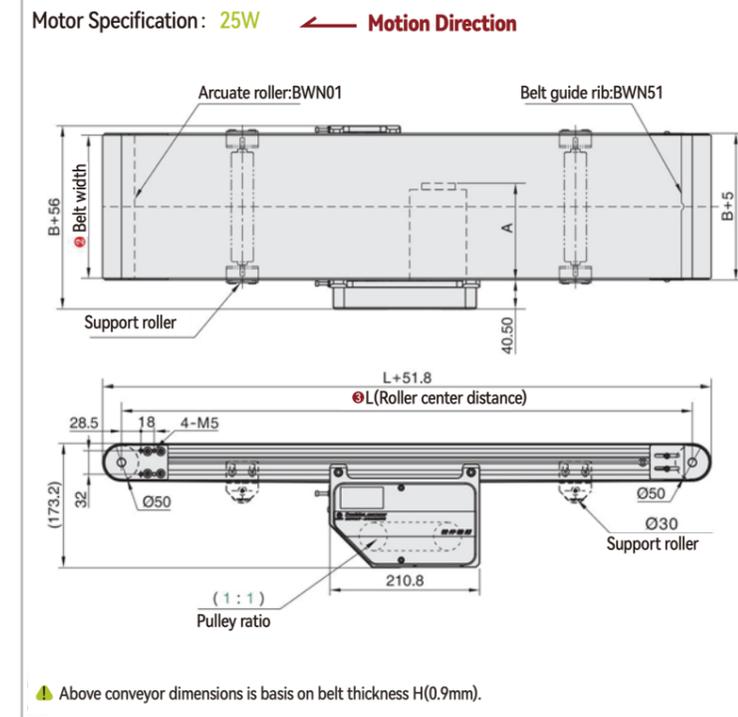
Three Slots Aluminum Profile

Conveyor Features

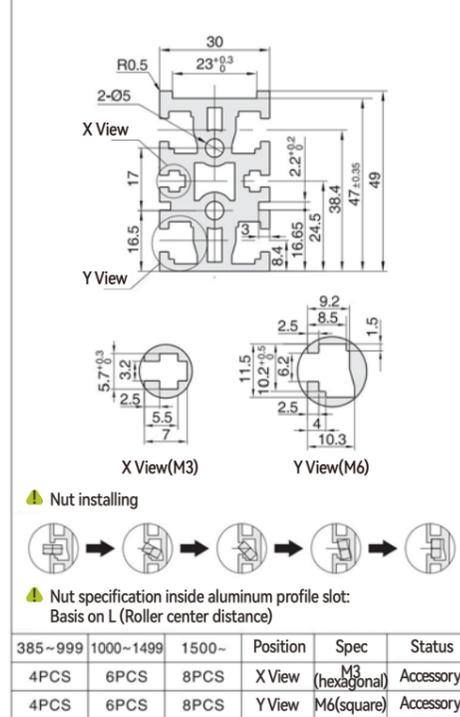
Conveyor with strong structure and stable performance for medium load and precision transferring application.



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	42.4	25.4~42.4	52.8	0~94.2	400	18.8	4.5N.m	8.0N.m	12.0N.m
7.5	28.3	17.0~28.3	35.2	0~62.8	800	37.7	0~20.0	0~35.8	0~54.0
10	21.2	12.7~21.2	26.4	0~47.1	1600	75.4	0~10.0	0~17.9	0~27.0
12.5	17.0	10.2~17.0	21.1	0~37.7	3200	150.7	0~5.0	0~9.0	0~13.5
15	14.1	8.5~14.1	17.6	0~31.4	6400	301.4	0~2.5	0~4.5	0~6.8
18	11.8	7.1~11.8	14.7	0~26.2	12800	602.9	0~1.2	0~2.2	0~3.4
25	8.5	5.1~8.5	10.6	0~18.8	25600	1205.8	—	—	—
30	7.1	4.2~7.1	8.8	0~15.7	51200	2411.5	—	—	—
36	5.9	3.5~5.9	7.3	0~13.1	—	—	—	—	—
50	4.2	2.5~4.2	5.3	0~9.4	—	—	—	—	—
60	3.5	2.1~3.5	4.4	0~7.9	—	—	—	—	—

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition: B=200 L=1000

▲ Speed calculation formula
1. Drive roller diameter D=50mm
2. Speed adjustable motor RPM=1350/min
3. Frequency motor RPM=1680/min
4. Brushless motor RPM=3000/min
5. Belt pulley ratio i2=1:1
 $S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$
 $S = \frac{50 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$
 $S = 16.956 \text{ m/min}$

▲ Test Condition: B=200 L=1000 Current:5A

▲ Speed calculation formula
1. Drive roller diameter D=50mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i2=1:1
 $S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$
 $S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$
 $S = 18.84 \text{ m/min}$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BWN01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BWN51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Spec	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BWN01	Arcuate roller	80~400	385~3000	25	TA220	IM Fix-speed motor	H(Bright green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y1(Yellow- Special type) R1(Red- Special type)	GPG JSCC No motor
				40	SA220	SCM Speed adjustable motor		
				60	TA220	INV VFD type		
				90	TA220	DC DC Speed adjustable motor		
BWN51	Belt with guide rib	80~400	385~3000	40	DC24	KMC Speed adjustable motor	ZD No motor	
				60	TA220	SWS Motor with drive		
				86	CM	Open loop series stepper motor		
				MH	TA220	Single phase Servo motor		

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length							
Model	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L385	L505	L605	L705	L805	L905
Speed adjustable motor	BWN01	B200	L1000	25	TA220	SCM	12.5	H	G	BWN01	80~110	●	●	●	●	●	●
Stepper motor	BWN51	B200	L1000	86	CM	45	MC	H	S	BWN51	115~160	●	●	●	●	●	●
Servo motor	BWN51	B200	L1000	MH	TA220	400W	EC	H	X		165~210	—	●	●	●	●	●
											215~260	—	—	●	●	●	●
											265~400	—	—	—	●	●	●

Belt Specification

Underlying Parameter			
• Material:Pvc • Thickness:0.9mm • Color:Bright green • Character:General	• Material:Pvc • Thickness:0.9mm • Color:Bright green • Character:General	• Material:PU • Thickness:0.8mm • Color:Black • Character:ESD	• Material:PU • Thickness:1.0mm • Color:Blackish green • Character:ESD
H	H6	D	D9
Underlying Parameter			
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material:PU • Thickness:1mm • Color:Green • Character:Incline	• Material:Pvc • Thickness:2.0mm • Color:Yellow • Character:Special	• Material:Pvc • Thickness:2.0mm • Color:Red • Character:Special
F	Q2	Y1	R1

Conveyor for part feeding

Product Application Case

Labels: Robot arm, Product, Baking machine, BSV01 leg

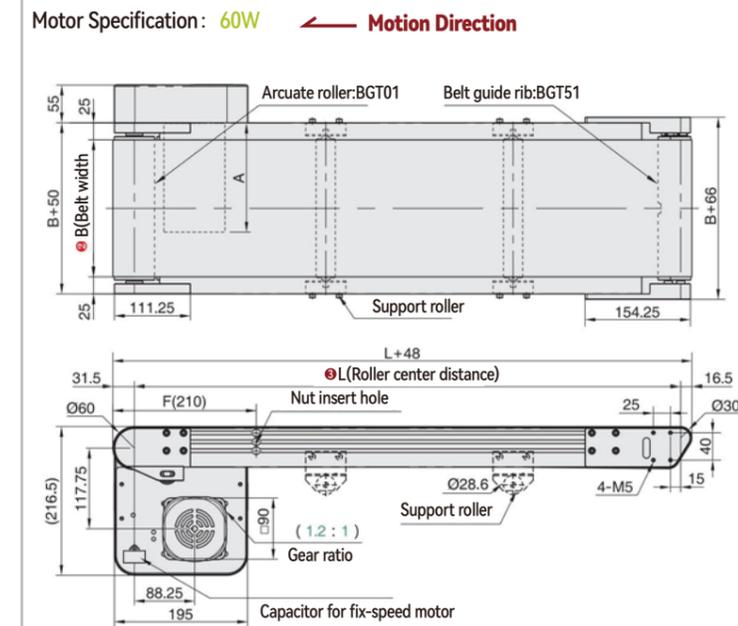
Three Slots Aluminum Profilee

Conveyor Features

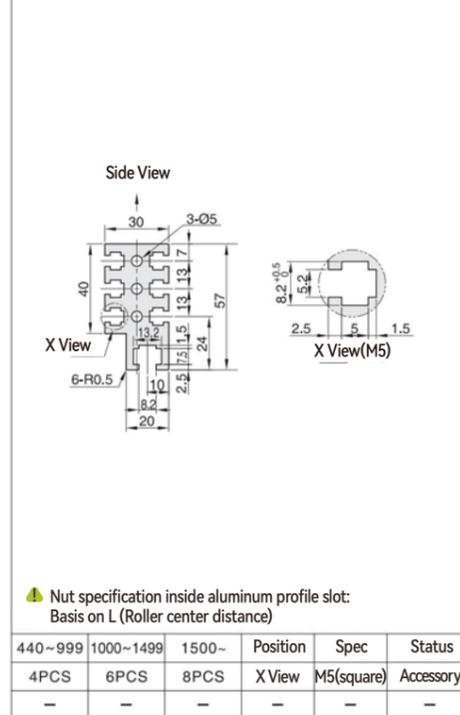
Conveyor with strong structure and stable performance for big load and precision transferring application. Sharp end can reduce connection gap.



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	58.0	34.8~58.0	72.2	0~128.9	400	25.8	4.5N.m	8.0N.m	12.0N.m
7.5	38.7	23.2~38.7	48.1	0~85.9	800	51.5	0~11.6	0~21.3	0~32.4
10	29.0	17.4~29.0	36.1	0~64.4	1600	103.1	0~5.8	0~10.7	0~16.2
12.5	23.2	13.9~23.2	28.9	0~51.5	3200	206.2	0~2.9	0~5.3	0~8.1
15	19.3	11.6~19.3	24.1	0~43.0	6400	412.4	0~1.5	0~2.7	0~4.0
18	16.1	9.7~16.1	20.0	0~35.8	12800	824.7	0~0.7	0~1.3	0~2.0
25	11.6	7.0~11.6	14.4	0~25.8	25600	1649.5	—	—	—
30	9.7	5.8~9.7	12.0	0~21.5	51200	3299.0	—	—	—
36	8.1	4.8~8.1	10.0	0~17.9	—	—	—	—	—
50	5.8	3.5~5.8	7.2	0~12.9	—	—	—	—	—
60	4.8	2.9~4.8	6.0	0~10.7	—	—	—	—	—

▲ Test Condition: B=300 L=1500

▲ Speed calculation formula

1. Drive roller diameter D=57mm
 2. Speed adjustable motor RPM=1350/min
 3. Frequency motor RPM=1680/min
 4. Brushless motor RPM=3000/min
 5. Belt pulley ratio i=1.2:1

$$S = \frac{D \times \pi \times R \times i^2}{11 \times 1000}$$

$$S = \frac{57 \times 3.14 \times 1350 \times 1.2}{11 \times 1000} = 23.195808 \text{ m/min}$$

▲ Test Condition: B=300 L=1500 Current: 5A

▲ Speed calculation formula

1. Drive roller diameter D=57mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Belt pulley ratio i=1.2:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i^2}{1000}$$

$$S = \frac{57 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1.2}{1000} = 25.77312 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features		Material			Surface Treatment		
		Application Features	Motion Features	Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BGT01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer	Alloy			Surface electrophoresis	Painting	
BGT51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer	Alloy			Surface electrophoresis	Painting	

Model	L-Conveyor Length 5mm	Motor Options					Belt Spec	Motor Brand
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio			
BGT01 Arcuate roller	100 200 300 400 500	440~4000	60	TA220	IM Fix-speed motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	H1(Blackish green-General) H2(Green-General) D7(Black-ESD) D10(Bright green-ESD) F(White-Food grade) W8(Blue-Anti slip) Y1(Yellow- Special type) R1(Red- Special type)	GPG JSCC No motor
			90	TA220	SCM Speed adjustable motor			
			120	SA220	INV VFD type			
			200	TA220	KMC Speed adjustable motor			
BGT51 Belt with guide rib	400 500	440~4000	90	DC24 DC	SWS Motor with drive	▲ When motor power is 6W gear box ratio can not be 5-10.	ZD No motor	
			120	TA220	Single phase			
			86	CM Open loop	45 80 120	MC Pulse type	S(Leadshine) No motor	
			Inertia		Voltage(V)	Output power	IO IO type	Servo motor brand
			MH Servo motor		TA220 Single phase	750W	EC IO type EtherCAT	S(Leadshine) X(Panasonic) No motor
						RS RS485		

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L440	L1005	L1505	L2005	L2505	L3005
Speed adjustable motor	BGT01	B300	L1500	60	TA220	SCM	12.5	H2	G	BGT01	100	●	●	●	●	●	●
Stepper motor	BGT51	B300	L1500	86	CM	45	MC	H2	S	BGT51	200	●	●	●	●	●	●
Servo motor	BGT51	B300	L1500	MH	TA220	750W	EC	H2	X		300	—	—	—	—	—	—
											400	—	—	—	—	—	—
											500	—	—	—	—	—	—

Belt Specification

Underlying Parameter			
• Material:PU • Thickness:1.5mm • Color:Blackish green • Character:General	• Material:PVC • Thickness:2.0mm • Color:Bright green • Character:General	• Material:PU • Thickness:1.5mm • Color:Black • Character:ESD	• Material:PVC • Thickness:2.0mm • Color:Bright green • Character:ESD
H1	H2	D7	D10
Underlying Parameter			
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material:PU • Thickness:1.8mm • Color:Blue • Character:Anti slip	• Material:PVC • Thickness:2.0mm • Color:Yellow • Character:Special	• Material:PVC • Thickness:2.0mm • Color:Red • Character:Special
F	W8	Y1	R1

Sharp end conveyor connection

Product Application Case

Dual Slots Aluminum Profile

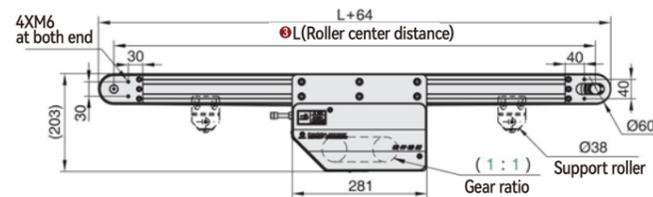
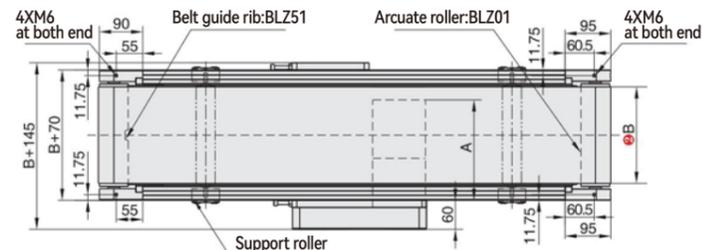


Conveyor Features

Conveyor made of 3060 EU type aluminum profile for big load application.

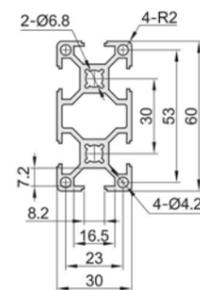
Conveyor Dimensions

Motor Specification: 120W ← Motion Direction



▲ When load is higher than 25kg, conveyor should use chain gear instead of belt pulley.

Conveyor Profile Section



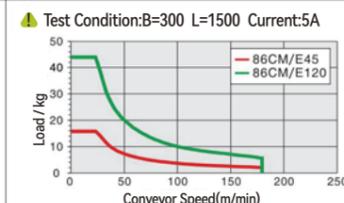
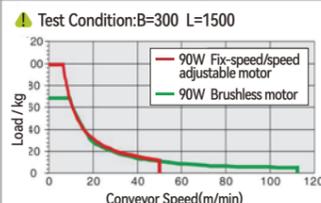
Nut is offered as accessory.

▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

600~999	1000~1499	1500~	Position	Spec	Status
16PCS	24PCS	32PCS	-	M6(T type)	Accessory
-	-	-	-	-	-

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
							4.5N.m	8.0N.m	12.0N.m
5	50.9	30.5~50.9	63.3	0~113.0	400	22.6	0~16.1	0~29.3	0~44.4
7.5	33.9	20.3~33.9	42.2	0~75.4	800	45.2	0~8.0	0~14.6	0~22.2
10	25.4	15.3~25.4	31.7	0~56.5	1600	90.4	0~4.0	0~7.3	0~11.1
12.5	20.3	12.2~20.3	25.3	0~45.2	3200	180.9	0~2.0	0~3.7	0~5.6
15	17.0	10.2~17.0	21.1	0~37.7	6400	361.7	0~1.0	0~1.8	0~2.8
18	14.1	8.5~14.1	17.6	0~31.4	12800	723.5	-	-	-
25	10.2	6.1~10.2	12.7	0~22.6	25600	1446.9	-	-	-
30	8.5	5.1~8.5	10.6	0~18.8	51200	2893.8	-	-	-
36	7.1	4.2~7.1	8.8	0~15.7	-	-	-	-	-
50	5.1	3.1~5.1	6.3	0~11.3	-	-	-	-	-
60	4.2	2.5~4.2	5.3	0~9.4	-	-	-	-	-



▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BLZ01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BLZ51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer		Alloy		Surface anodizing			Painting

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Spec	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BLZ01 Arcuate roller	80~600	600~4000	600~4000	60	TA220	IM Fix-speed motor	H2(Yellow- Special type) H16(General type, White PVC) U2(Accumulation type, Green PVC) U9(Accumulation type, White PVC) D1(ESD, Green PVC) F1(Food grade, White PU) M2(Oil resistant, Green PU) Y1(Special type, yellow PVC) R1(Special type, yellow PVC)	GPG JSCC No motor
				90	SA220	SCM Speed adjustable motor		
				120	TA220	INV VFD type		
				200	SA220	Three phase		
BLZ51 Belt with guide rib	80~600	600~4000	600~4000	90	DC24	KMC Speed adjustable motor	ZD No motor	
				120	TA220	SWS Motor with drive		
				86	CM	Open loop		
				86	CME	Closed loop		
BLZ51 Belt with guide rib	80~600	600~4000	600~4000	MH	TA220	750W	S(Leadshine) X(Panasonic) No motor	
				MH	TA220	750W		

※ Recommend motor brand JSCC

Model code example									
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand
Speed adjustable motor	BLZ01	B300	L1500	60	TA220	SCM	12.5	H1	G
Model code example	Conveyor Model	Belt Width	Conveyor Length	Motor series	Control Method	Output torque	Drive type	Belt Type	Motor Brand
Stepper motor	BLZ51	B300	L1500	86	CM	45	MC	H1	S
Model code example	Conveyor Model	Belt Width	Conveyor Length	Inertia	Voltage	Output power	Drive type	Belt Type	Motor Brand
Servo motor	BLZ51	B300	L1500	MH	TA220	750W	EC	H1	X

Recommend belt width and conveyor length						
Model	B	L600	L1005	L1505	L2005	L2505
BLZ01	80~200	●	●	●	●	●
	205~300	●	●	●	●	●
	305~400	●	●	●	●	●
BLZ51	405~500	●	●	●	●	●
	-	-	-	-	-	-

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:green Character:General 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:White Character:General 	<ul style="list-style-type: none"> Material:PVC Thickness:1.3mm Color:Green-Double sided gauze Character:Accumulation 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:green Character:ESD
H2	H16	U2	D1
Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.5mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:PU Thickness:1.4mm Color:Bright green Character:Oil resistance 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Red Character:Special
F1	M2	Y1	R1

Belt conveyor with free flow guide profile to reduce friction.

Product Application Case

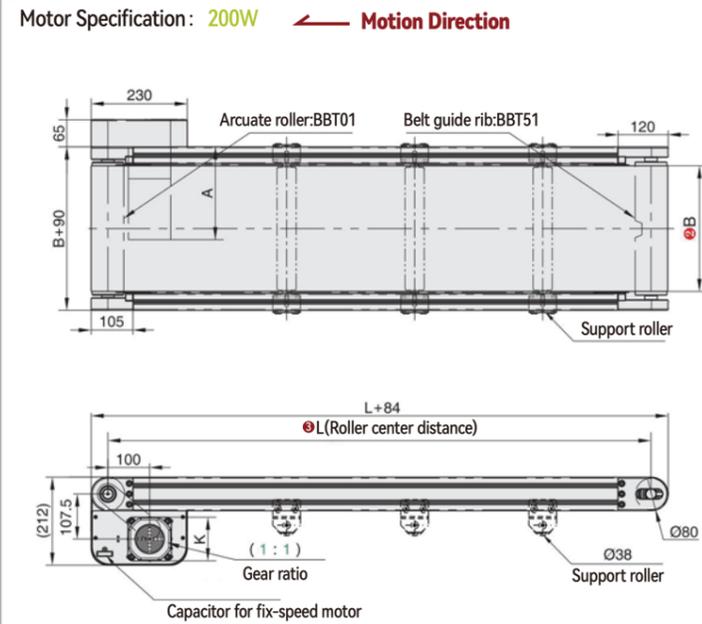
Dual Slots Aluminum Profilee

Conveyor Features

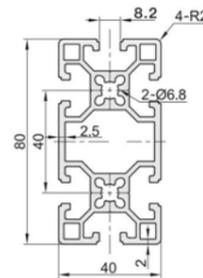
Conveyor made of 4080 EU type aluminum profile for big load application.



Conveyor Dimensions >



Conveyor Profile Section >



Nut is offered as accessory.

▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

600~999	1000~1499	1500~	Position	Spec	Status
16PCS	24PCS	32PCS	-	M6(T type)	Accessory

▲ Above conveyor dimensions is basis on belt thickness H2(2.0mm).

Conveyor speed and load capability >

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	67.8	40.7~67.8	84.4	-	400	30.1	4.5N.m	8.0N.m	12.0N.m
7.5	45.2	27.1~45.2	56.3	-	800	60.3	0~11.5	0~21.4	0~32.7
10	33.9	20.3~33.9	42.2	-	1600	120.6	0~5.7	0~10.7	0~16.4
12.5	27.1	16.3~27.1	33.8	-	3200	241.2	0~2.9	0~5.4	0~8.2
15	22.6	13.6~22.6	28.1	-	6400	482.3	0~1.4	0~2.7	0~4.1
18	18.8	11.3~18.8	23.4	-	12800	964.6	0~0.7	0~1.3	0~2.0
25	13.6	8.1~13.6	16.9	-	25600	1929.2	-	-	-
30	11.3	6.8~11.3	14.1	-	51200	3858.4	-	-	-
36	9.4	5.7~9.4	11.7	-	-	-	-	-	-
50	6.8	4.1~6.8	8.4	-	-	-	-	-	-
60	5.7	3.4~5.7	7.0	-	-	-	-	-	-

Instrument	
1. Set the current as default	2. Set the code on motor drive
3. Default torque can be modified by current setting.	

Test Condition: B=300 L=2000	
<p>▲ Test Condition: B=300 L=2000</p> <p>— 120W Fix-speed/speed adjustable motor</p> <p>— 200W Brushless motor</p>	<p>▲ Speed calculation formula</p> <p>1. Drive roller diameter D=80mm</p> <p>2. Speed adjustable motor RPM=1350r/min</p> <p>3. Frequency motor RPM=1680r/min</p> <p>4. Brushless motor RPM=3000r/min</p> <p>5. Belt pulley ratio i2=1:1</p> $S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$ $S = \frac{80 \times 3.14 \times 1350 \times 1}{11 \times 1000}$ $S = 27.1296 \text{ m/min}$

Test Condition: B=300 L=2000 Current:5A	
<p>▲ Test Condition: B=300 L=2000 Current:5A</p> <p>— 86CM/E45</p> <p>— 86CM/E120</p>	<p>▲ Speed calculation formula</p> <p>1. Drive roller diameter D=80mm</p> <p>2. Pulse quantity=400</p> <p>3. Stepper motor angle J=1.8°</p> <p>4. Belt pulley ratio i2=1:1</p> $S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$ $S = \frac{80 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$ $S = 30.144 \text{ m/min}$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 3.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BBT01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BBT51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer		Alloy		Surface anodizing			Painting

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BBT01 Arcuate roller		100~800	600~6000	120	TA220 Single phase	IM Fix-speed motor SCM Speed adjustable motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120	H2(Yellow- Special type) H16(General type, White PVC) U2(Accumulation type, Green PVC) U9(Accumulation type, White PVC) D1(ESD, Green PVC) F1(Food grade, White PU) M2(Oil resistant, Green PU) Y1(Special type, yellow PVC) R1(Special type, yellow PVC)	GP6 JSCC No motor
				200	SA220 Three phase	INV VFD type	150 180		
BBT51 Belt with guide rib				86 series stepper motor	CM Open loop CME Closed loop	INV VFD type	45 80 120		S(Leadshine) No motor

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example									
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand
Speed adjustable motor	BBT01	B300	L2000	120	TA220	SCM	12.5	H8	G
Model code example	Conveyor Model	Belt Width	Conveyor Length	Motor series	Control Method	Output torque	Drive type	Belt Type	Motor Brand
Stepper motor	BBT01	B300	L2000	120	SA220	INV	12.5	H8	G
Model code example	Conveyor Model	Belt Width	Conveyor Length	Inertia	Voltage	Output power	Drive type	Belt Type	Motor Brand
Servo motor	BBT51	B300	L2000	86	CM	45	MC	H8	S

Recommend belt width and conveyor length							
Model	B	L600	L1505	L2005	L2505	L3005	L5005
		1500	2000	2500	3000	5000	6000
BBT01 BBT51	100~200	●	●	●	●	●	●
	205~400	●	●	●	●	●	●
	405~600	●	●	●	●	●	●
	605~800	●	●	●	●	●	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:green Character:General 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:White Character:General 	<ul style="list-style-type: none"> Material:PVC Thickness:1.3mm Color:Green-Double sided gauze Character:Accumulation 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:green Character:ESD
H2	H16	U2	D1
Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.5mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:PU Thickness:1.4mm Color:Bright green Character:Oil resistance 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Red Character:Special
F1	M2	Y1	R1

Belt conveyor automated production.

Product Application Case

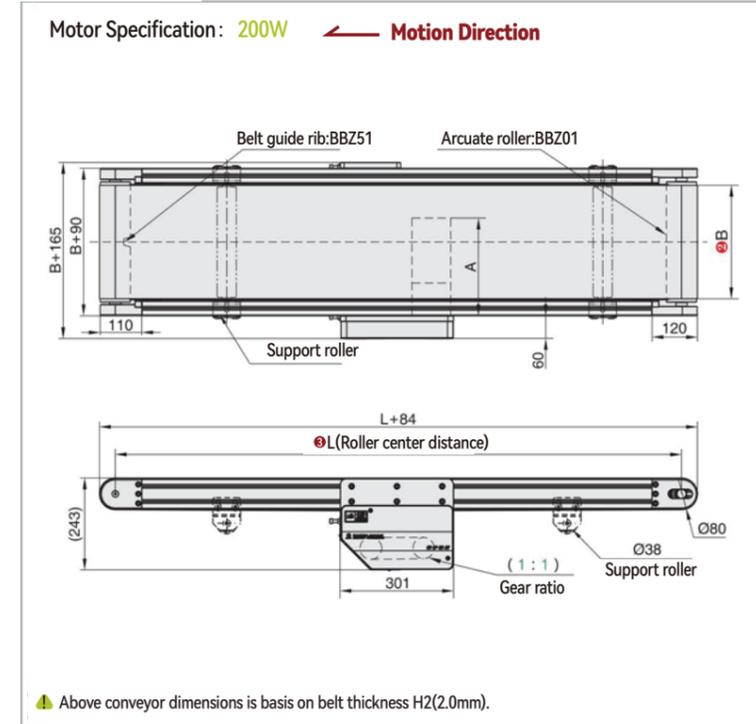
Dual Slots Aluminum Profilee

Conveyor Features

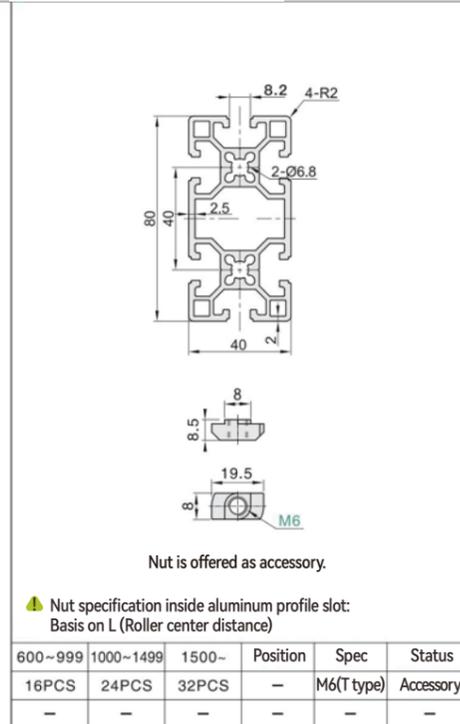
Stable and precision conveyor with strong structure for medium load application.



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	67.8	40.7~67.8	84.4	-	400	30.1	4.5N.m	8.0N.m	12.0N.m
7.5	45.2	27.1~45.2	56.3	-	800	60.3	0~11.5	0~21.4	0~32.7
10	33.9	20.3~33.9	42.2	-	1600	120.6	0~5.7	0~10.7	0~16.4
12.5	27.1	16.3~27.1	33.8	-	3200	241.2	0~2.9	0~5.4	0~8.2
15	22.6	13.6~22.6	28.1	-	6400	482.3	0~1.4	0~2.7	0~4.1
18	18.8	11.3~18.8	23.4	-	12800	964.6	0~0.7	0~1.3	0~2.0
25	13.6	8.1~13.6	16.9	-	25600	1929.2	-	-	-
30	11.3	6.8~11.3	14.1	-	51200	3858.4	-	-	-
36	9.4	5.7~9.4	11.7	-	-	-	-	-	-
50	6.8	4.1~6.8	8.4	-	-	-	-	-	-
60	5.7	3.4~5.7	7.0	-	-	-	-	-	-

Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 3.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BBZ01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BBZ51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	B-Belt Width	Motor Options				Belt Spec	Motor Brand
			Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BBZ01 Arcuate roller	100~800	600~5000	120	TA220 Single phase	IM Fix-speed motor SCM Speed adjustable motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	H2((General type, Green PVC) H16((General type, White PVC) U2((Accumulation type, Green PVC) U9((Accumulation type, White PVC) D11(ESD, Green PVC) F1(Food grade, White PU) M2(Oil resistant, Green PU) Y1(Special type, yellow PVC) R1(Special type, yellow PVC)	GPG JSSC No motor
			200	SA220	INV VFD type	When motor power is 6W gear box ratio can not be 5-10.		
BBZ51 Belt with guide rib	100~800	600~5000	86 series stepper motor	CM Open loop CME Closed loop	45 80 120	MC Pulse type IO IO type EC IO typeEtherCAT RS RS485	S(Leadshine) No motor	

Recommend motor brand JSSC

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L600	L1505	L2005	L2505	L3005	L4005
Speed adjustable motor	BBZ01	B300	L2000	120	TA220	SCM	12.5	H8	G	BBZ01	100~200	●	●	●	●	●	●
Stepper motor	BBZ01	B300	L2000	120	SA220	INV	12.5	H8	G	BBZ51	205~400	●	●	●	●	●	●
Servo motor	BBZ51	B300	L2000	86	CM	45	MC	H8	S		405~600	●	●	●	●	●	●

Flat Belt Conveyor Precision Type

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:green Character:General 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:White Character:General 	<ul style="list-style-type: none"> Material:PVC Thickness:1.3mm Color:Green-Double sided gauze Character:Accumulation 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:green Character:ESD
H2	H16	U2	D1
Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.5mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:PU Thickness:1.4mm Color:Bright green Character:Oil resistance 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Red Character:Special
F1	M2	Y1	R1

Belt conveyor automated production. Product Application Case

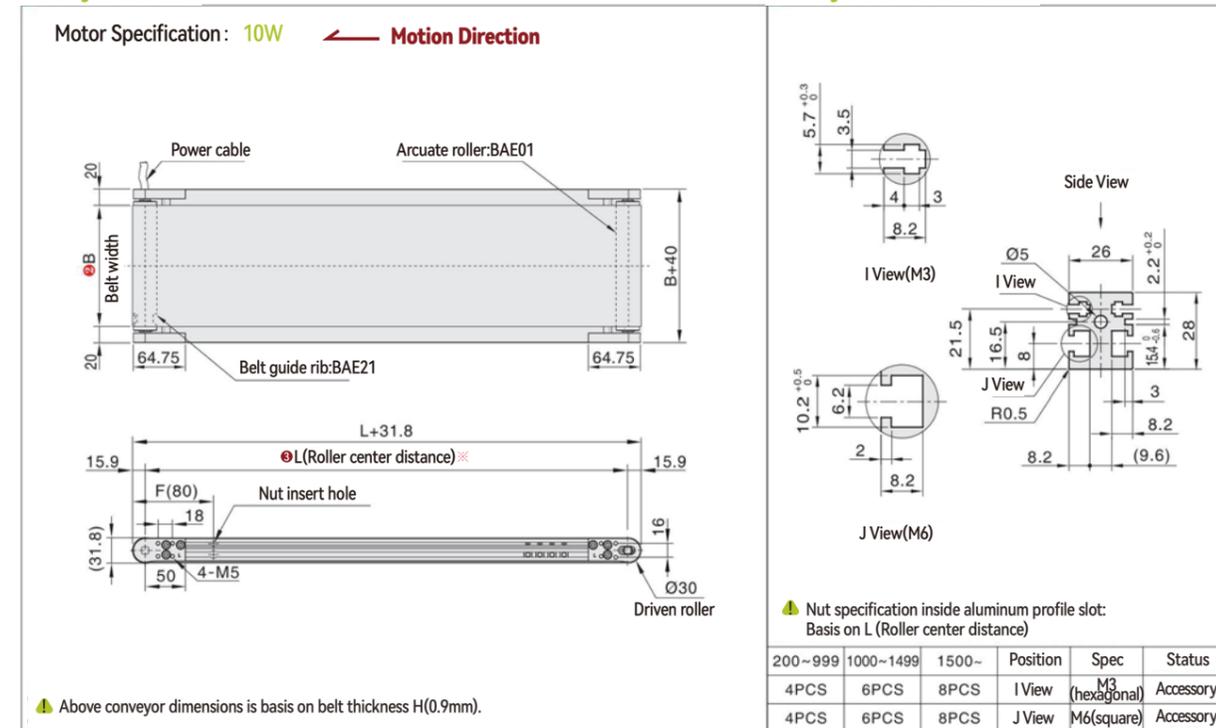
Dual Slots Aluminum Profilee

Conveyor Features

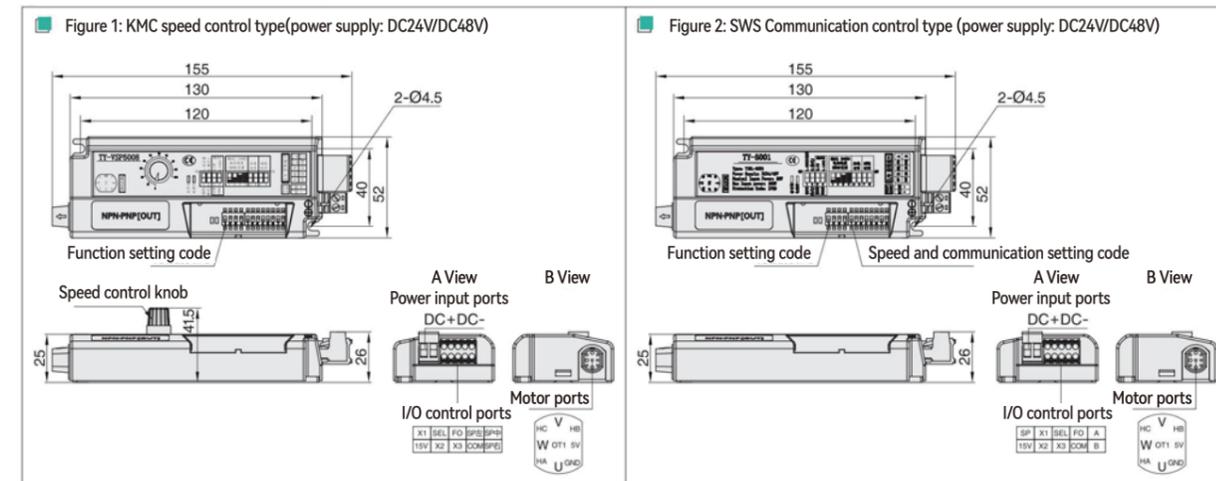
Motor is inserted in drive roller to save space, for small load.



Conveyor Dimensions



Controller and outline drawing



※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BAE01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer	Alloy	Surface electrophoresis	Painting				
BAE21	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer							

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Speciation	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BAE01 Arcuate roller		150	200~1500	10	DC24 DC	KMC Speed adjustable motor	10 (0~10m/min)	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)
		200						
		250						
		300						
BAE21 Belt with guide rib		200	250~1500	10	DC24 DC	SWS Motor with drive	10 (0~10m/min)	B(BOZ)
		250						
		300						
		350						

▲ Recommend speed control range within 20% during application.

▲ Motor build-in drive roller

▲ Recommend belt width is 150mm; Lead time for belt width 150mm≤B≤350mm is longer.

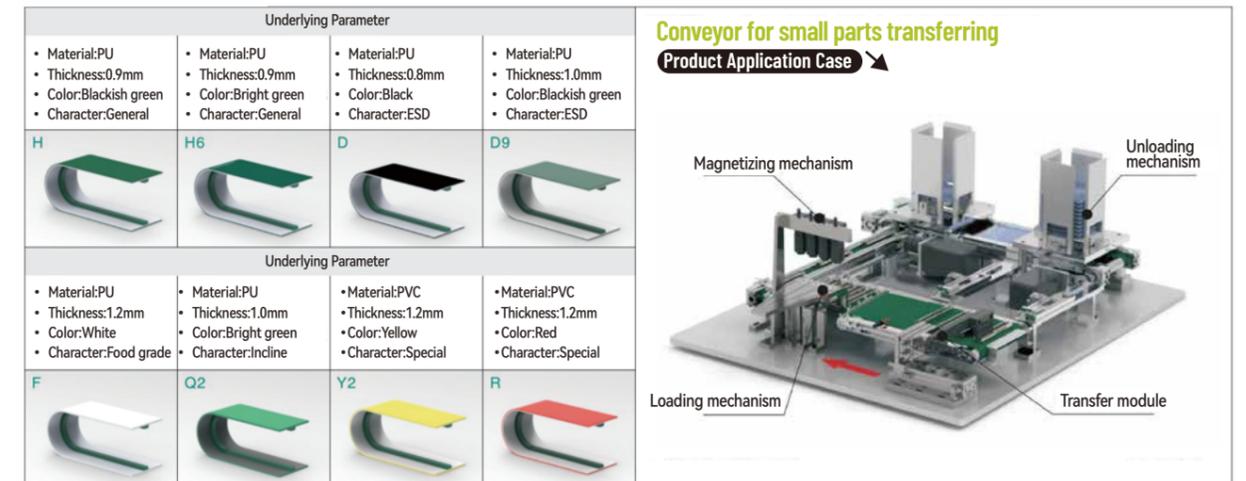
Model code example

Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand
BAE01	B150	L800	10	DC24	KMC	10	H	B
BAE21	B200	L800	10	DC24	KMC	10	H	B
BAE21	B200	L800	10	DC24	SWS	10	H	B

Recommend belt width and conveyor length

Model	B	L200	L405	L505	L605	L705	L805
		400	500	600	700	800	1500
BAE01	150	●	●	●	●	●	●
BAE21	200	●	●	●	●	●	●
	250	—	—	●	●	●	●
	300	—	—	—	●	●	●

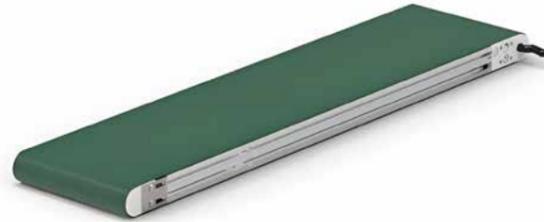
Belt Specification



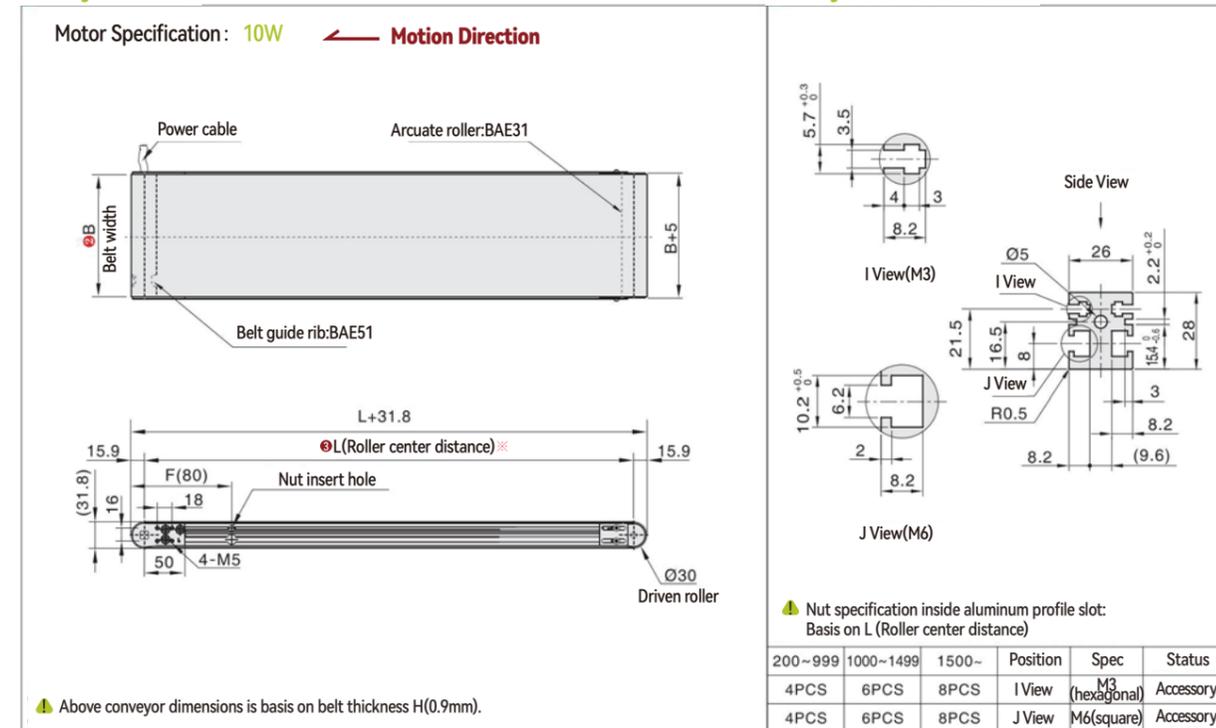
Dual Slots Aluminum Profilee

Conveyor Features

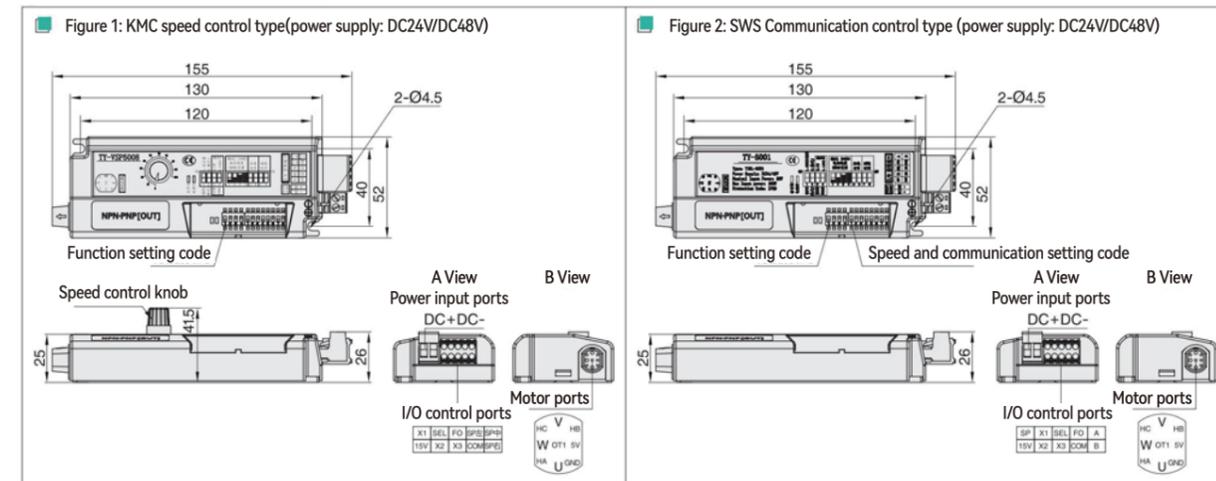
Motor is inserted in drive roller to save space, for small load.



Conveyor Dimensions



Controller and outline drawing



※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

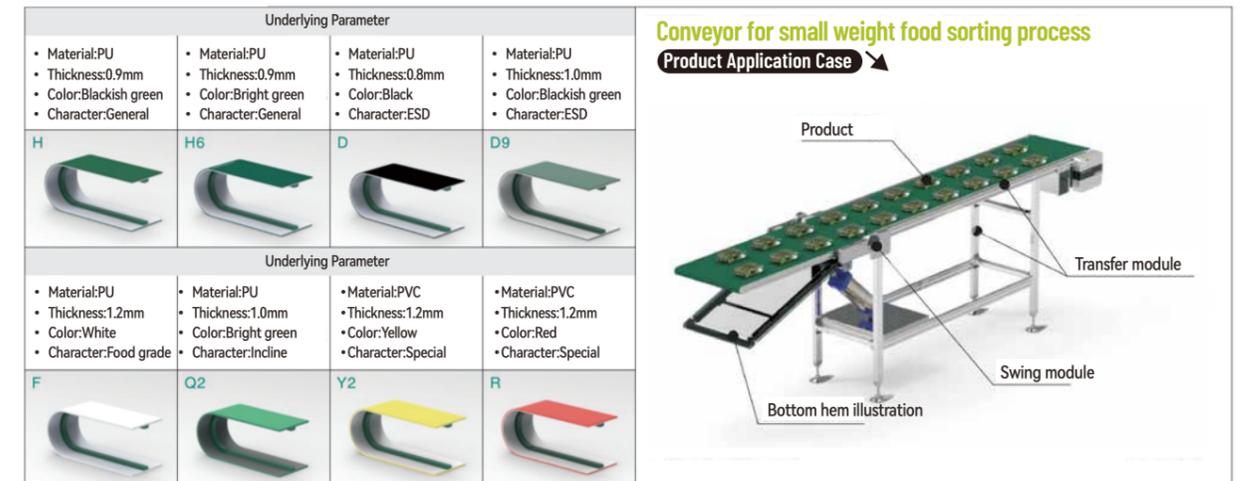
Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BAE31	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer				Surface electrophoresis		Painting	
BAE51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer							

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Speciation	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BAE31 Arcuate roller	150	200~1500	10	DC24 DC	KMC Speed adjustable motor	10 (0~10m/min)	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	B(BOZ)
	200							
	250							
	300							
BAE51 Belt with guide rib	250	300~1500	10	DC24 DC	SWS Motor with drive	10 (0~10m/min)	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	B(BOZ)
	300							
	350							
	400							

▲ Recommend speed control range within 20% during application.
▲ Motor build-in drive roller

Model code example										Recommend belt width and conveyor length						
Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L200	L405	L505	L605	L705	L805
Speed adjustable motor	BAE31	B150	L800	10	DC24	KMC	10	H	B	BAE31	200	●	●	●	●	●
Stepper motor	BAE51	B250	L800	10	DC24	KMC	10	H	B	BAE51	250	●	●	●	●	●
Servo motor	BAE51	B250	L800	10	DC24	SWS	10	H	B		300	—	—	—	—	—

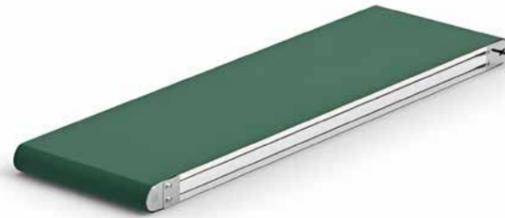
Belt Specification



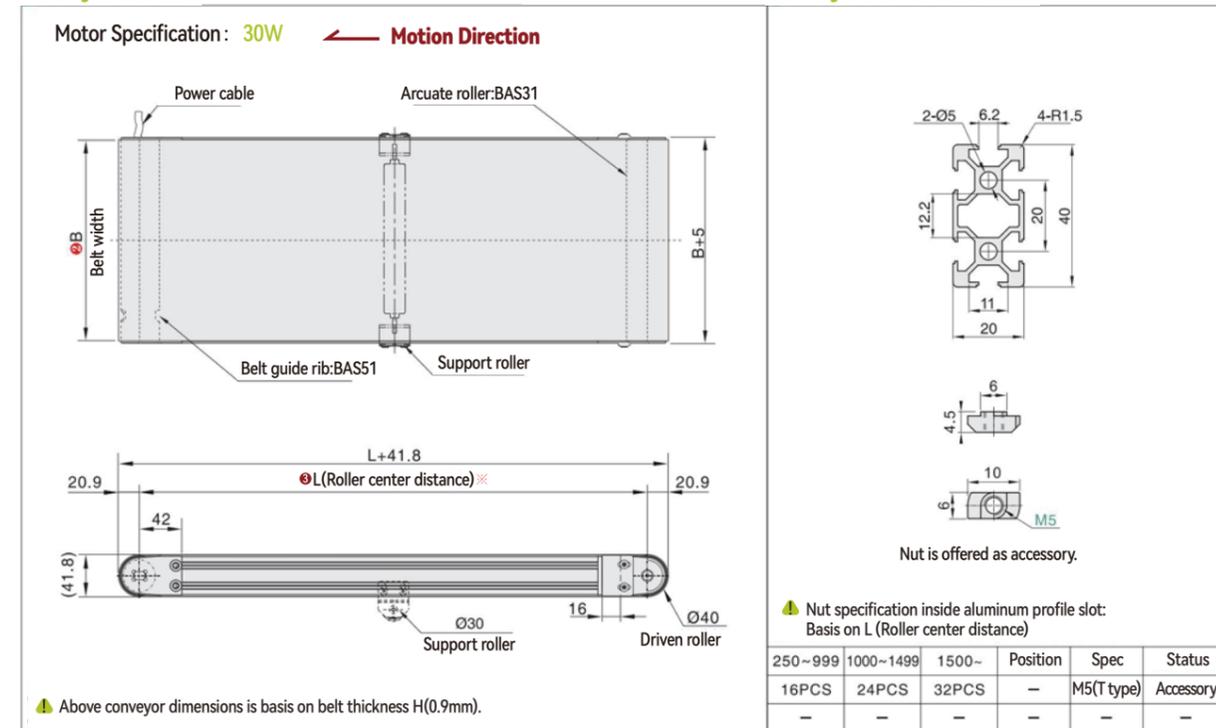
Dual Slots Aluminum Profilee

Conveyor Features

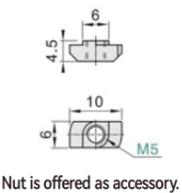
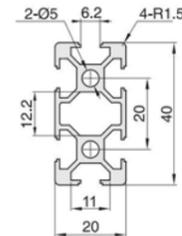
Motor is inserted in drive roller to save space, for small to medium load.



Conveyor Dimensions



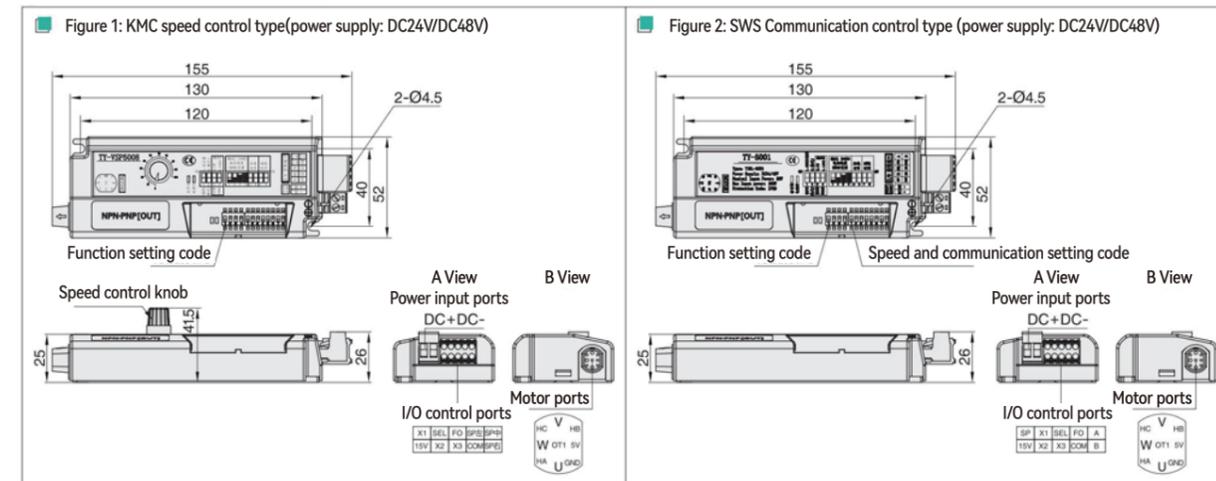
Conveyor Profile Section



▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

Quantity	Part Number	Position	Spec	Status
250~999	1000~1499	1500~	Position	Spec
16PCS	24PCS	32PCS	-	M5(T type)
-	-	-	-	-

Controller and outline drawing



※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BAS31	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer				Surface electrophoresis			Painting
BAS51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer							

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Speciation	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BAS31 Arcuate roller		200	250~2000	30	DC24 DC	KMC Speed adjustable motor	H (Blackish green) H6 (Bright green) D (Black-ESD) D9 (Blackish green-ESD) F (White-Food grade) Q2 (Green-incline application) Y2 (Yellow- Special type) R (Red- Special type)	B (BOZ)
		250						
		300						
		350						
BAS51 Belt with guide rib		300	300~2000	30	DC24 DC	SWS Motor with drive	10 (0~10m/min) 15 (0~15m/min) 25 (0~25m/min) 35 (0~35m/min)	▲ Recommend speed control range within 20% during application.
		350						
		400						
		450						

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L250	L405	L505	L605	L705	L805
Speed adjustable motor	BAS31	B200	L1000	30	DC24	KMC	25	H	B	BAS31	200	●	●	●	●	●	●
Stepper motor	BAS51	B250	L1000	30	DC24	KMC	25	H	B	BAS51	250	●	●	●	●	●	●
Servo motor	BAS51	B250	L1000	30	DC24	SWS	25	H	B		300	—	—	—	●	●	●
											350	—	—	—	●	●	●
											400	—	—	—	●	●	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:0.9mm Color:Blackish green Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.9mm Color:Bright green Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:0.8mm Color:Black Character:ESD 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Blackish green Character:ESD
H	H6	D	D9
Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.2mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:PU Thickness:1.0mm Color:Bright green Character:Incline 	<ul style="list-style-type: none"> Material:PVC Thickness:1.2mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:PVC Thickness:1.2mm Color:Red Character:Special
F	Q2	Y2	R

Conveyor for labelling process
Product Application Case

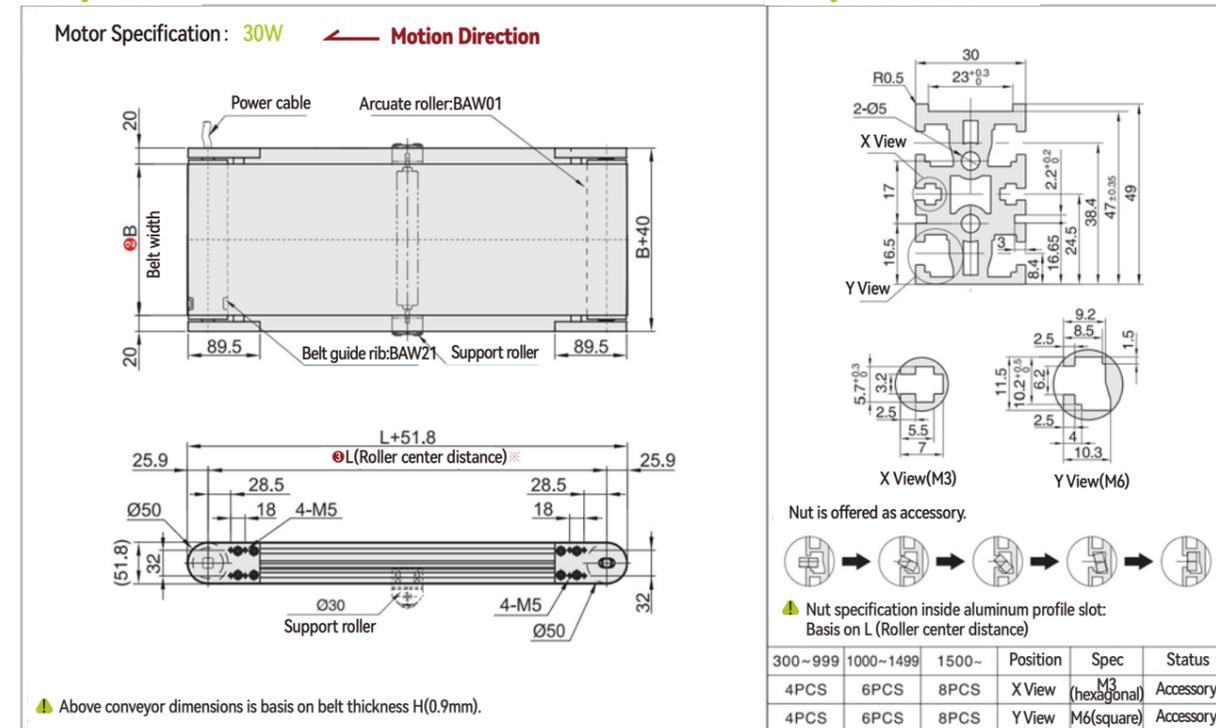
Three Slots Aluminum Profilee

Conveyor Features

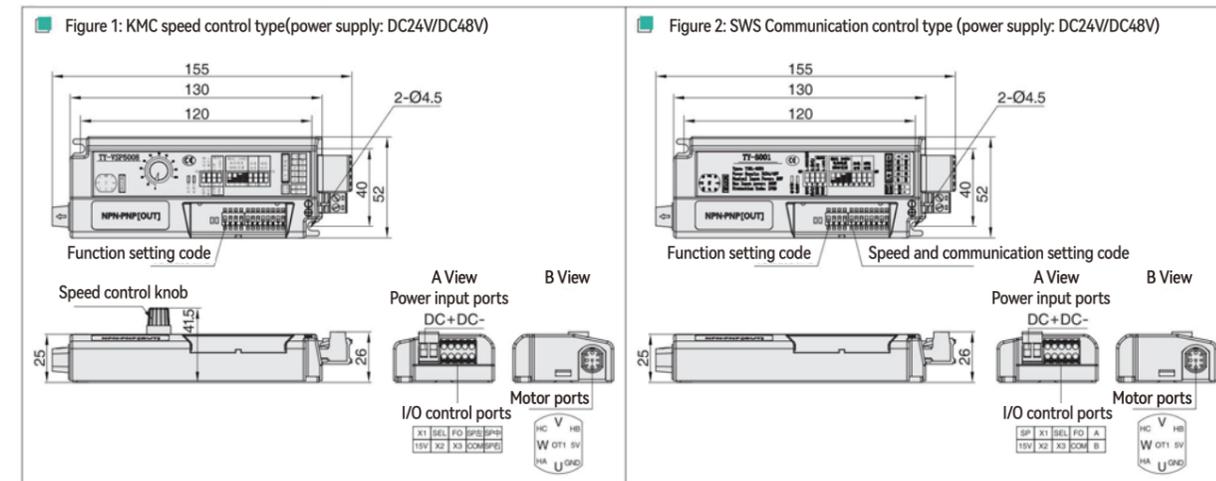
Motor is inserted in drive roller to save space, for medium load.



Conveyor Dimensions



Controller and outline drawing



※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	※ Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BAW01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BAW21	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer				Alloy	Surface electrophoresis	Painting	

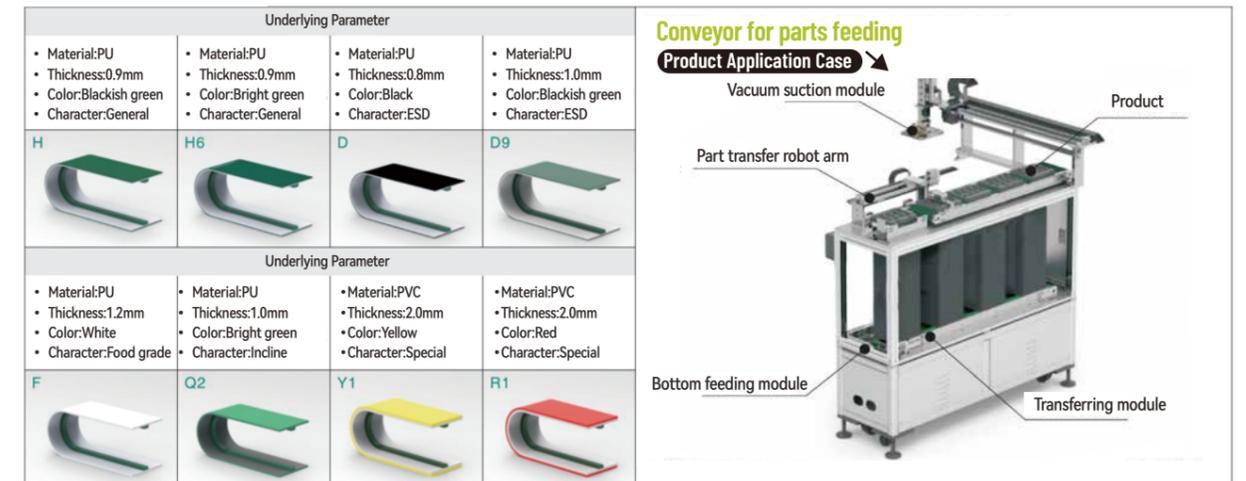
Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Speciation	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BAW01 Arcuate roller	250	300~2000		80	DC24 DC DC48 DC	KMC Speed adjustable motor SWS Motor with drive	10 (0~10m/min) 20 (0~20m/min) 30 (0~30m/min) 40 (0~40m/min)	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)
	300							
	350							
	400							
BAW21 Belt with guide rib	300	350~2000		80	DC24 DC DC48 DC	KMC Speed adjustable motor SWS Motor with drive	10 (0~10m/min) 20 (0~20m/min) 30 (0~30m/min) 40 (0~40m/min)	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)
	350							
	400							
	450							

▲ Recommend speed control range within 20% during application.

▲ Motor build-in drive roller

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L300	L405	L505	L605	L705	L805
Speed adjustable motor	BAW01	B250	L1000	80	DC24	KMC	30	H	B	BAW01	250	●	●	●	●	●	●
Stepper motor	BAW21	B300	L1000	80	DC48	KMC	30	H	B	BAW21	300	●	●	●	●	●	●
Servo motor	BAW21	B300	L1000	80	DC24	SWS	30	H	B		400	—	—	—	●	●	●

Belt Specification



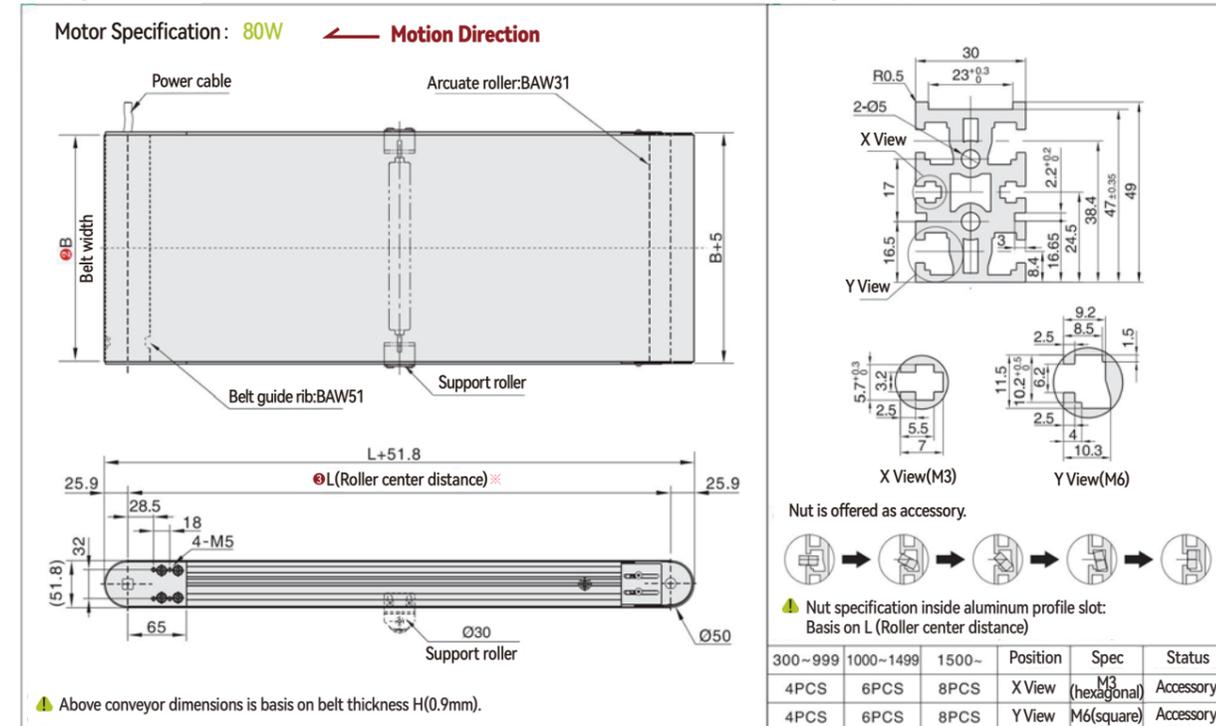
Three Slots Aluminum Profilee

Conveyor Features

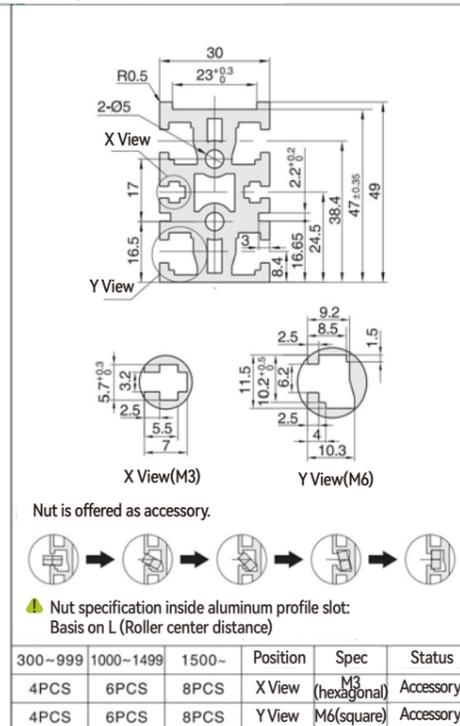
Motor is inserted in drive roller to save space, for medium load.



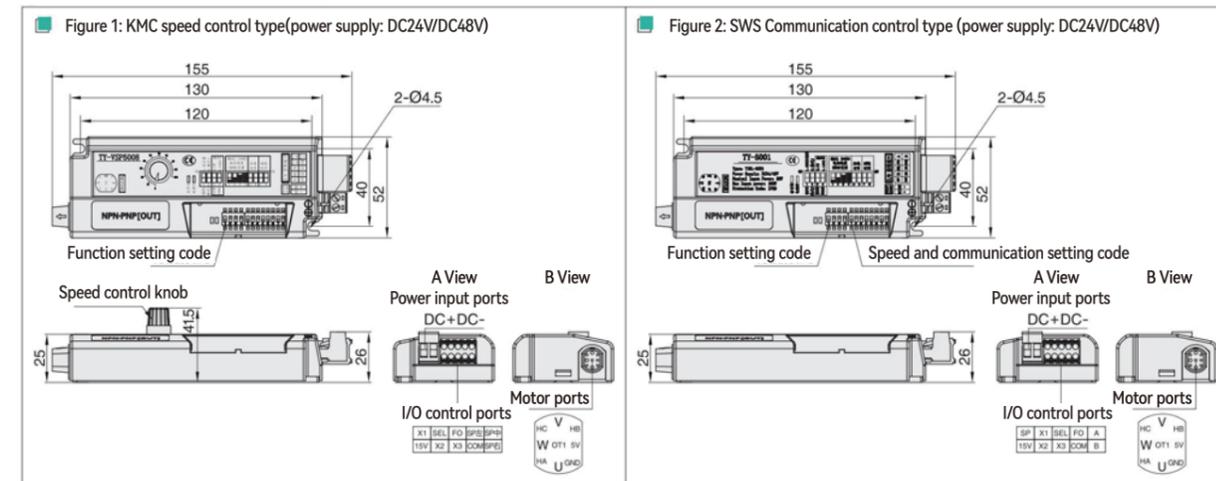
Conveyor Dimensions



Conveyor Profile Section



Controller and outline drawing



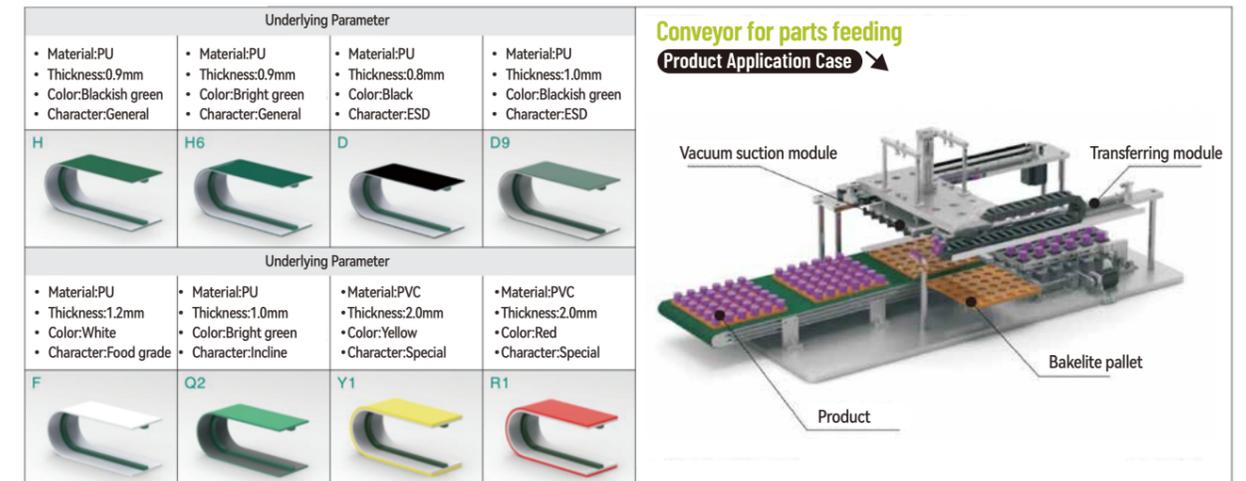
* Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 1.2mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BAW31	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer							
BAW51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer				Alloy	Surface electrophoresis	Painting	

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Speciation	Motor Brand	
				Output Power(W)	Voltage(V)	Motor Type			
BAW31 Arcuate roller	250	300~2000		80	DC24 DC DC48 DC	KMC Speed adjustable motor SWS Motor with drive	10 (0~10m/min) 20 (0~20m/min) 30 (0~30m/min) 40 (0~40m/min)	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	B(BOZ)
	300								
	350								
	400								
BAW51 Belt with guide rib	350	400~2000		80	DC24 DC DC48 DC	KMC Speed adjustable motor SWS Motor with drive	10 (0~10m/min) 20 (0~20m/min) 30 (0~30m/min) 40 (0~40m/min)	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y2(Yellow- Special type) R(Red- Special type)	B(BOZ)
	400								
	450								
	500								

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L300	L405	L505	L605	L705	L805
Speed adjustable motor	BAW31	B250	L1000	80	DC24	KMC	30	H	B	BAW31	250	●	●	●	●	●	●
Model code example	Conveyor Model	Belt Width	Conveyor Length	Motor series	Control Method	Output torque	Drive type	Belt Type	Motor Brand	BAW51	300	●	●	●	●	●	●
Stepper motor	BAW51	B350	L1000	80	DC48	KMC	30	H	B		350	—	—	●	●	●	●
Model code example	Conveyor Model	Belt Width	Conveyor Length	Inertia	Voltage	Output power	Drive type	Belt Type	Motor Brand		400	—	—	—	●	●	●
Servo motor	BAW51	B350	L1000	80	DC24	SWS	30	H	B		—	—	—	—	—	—	—

Belt Specification



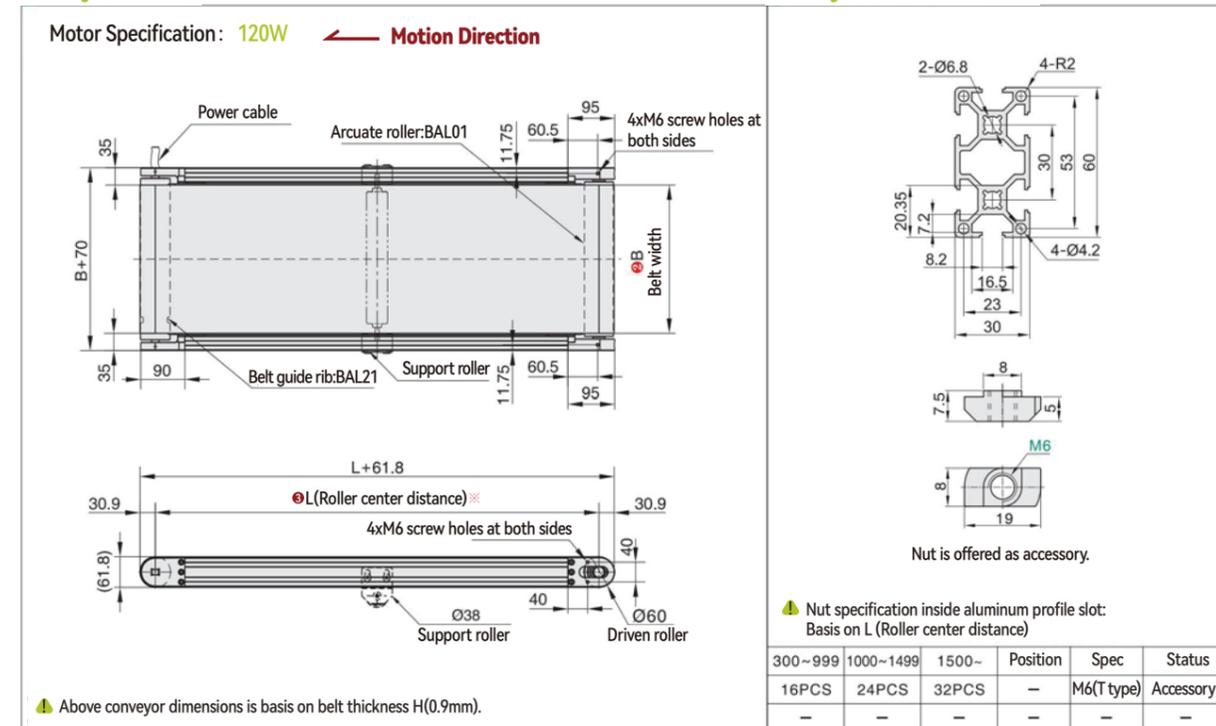
Three Slots Aluminum Profilee

Conveyor Features

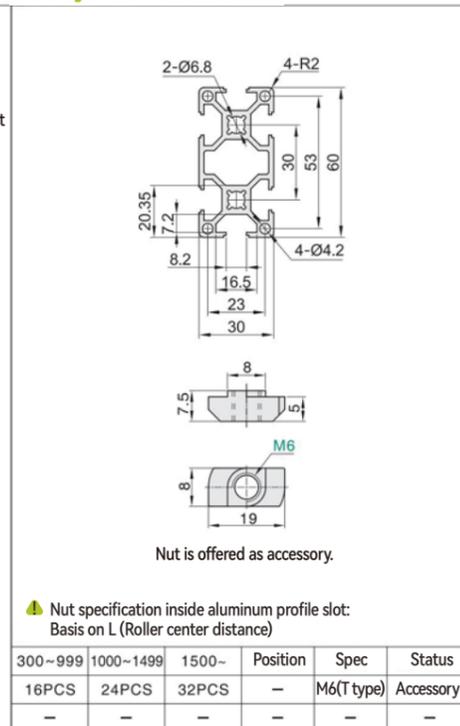
Motor is inserted in drive roller to save space, for big load.



Conveyor Dimensions



Conveyor Profile Section



※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BAL01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer				Surface anodizing			Painting
BAL21	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer							

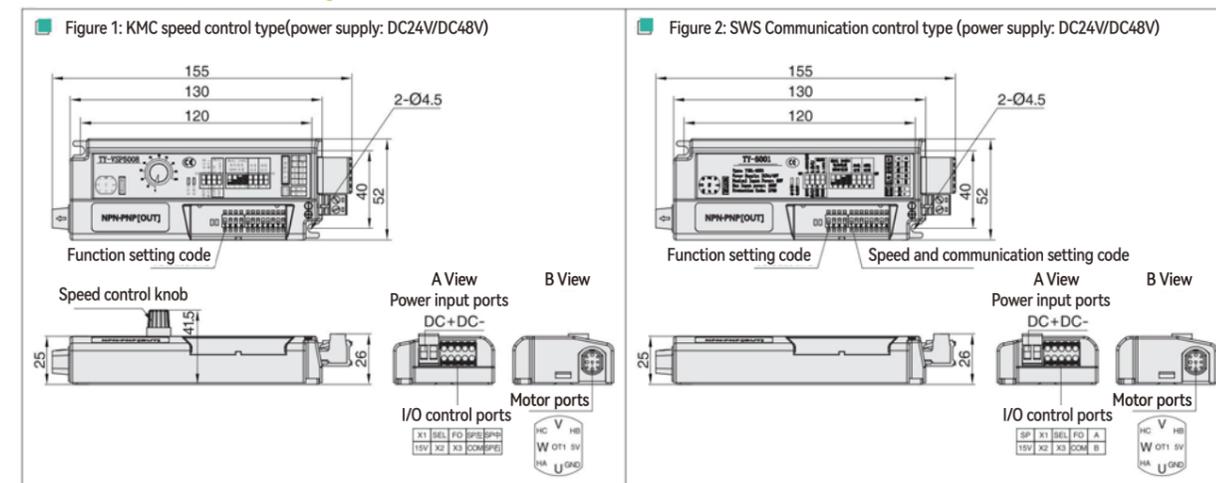
Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Speciation	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BAL01 Arcuate roller		250	300~3000	120	DC24 DC48	KMC Speed adjustable motor	H (Blackish green) H6 (Bright green) D (Black-ESD) D9 (Blackish green-ESD) F (White-Food grade) Q2 (Green-incline application) Y2 (Yellow- Special type) R (Red- Special type)	B (BOZ)
		300						
		350						
		400						
		450						
BAL21 Belt with guide rib		300	350~3000	120	DC24 DC48	SWS Motor with drive	H (Blackish green) H6 (Bright green) D (Black-ESD) D9 (Blackish green-ESD) F (White-Food grade) Q2 (Green-incline application) Y2 (Yellow- Special type) R (Red- Special type)	B (BOZ)
		350						
		400						
		450						
		500						

▲ Recommend speed control range within 20% during application.

▲ Motor build-in drive roller

Model code example										Recommend belt width and conveyor length								
Model	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L300	L405	L505	L605	L705	L805	L905
Speed adjustable motor	BAL01	B250	L1000	120	DC24	KMC	40	H	B	BAL01	250	●	●	●	●	●	●	●
Stepper motor	BAL21	B300	L1000	120	DC48	KMC	40	H	B	BAL21	300	●	●	●	●	●	●	●
Servo motor	BAL21	B300	L1000	120	DC48	SWS	40	H	B	BAL21	350	●	●	●	●	●	●	●
										BAL21	400	●	●	●	●	●	●	●
										BAL21	450	●	●	●	●	●	●	●
										BAL21	500	●	●	●	●	●	●	●

Controller and outline drawing



Belt Specification



Three Slots Aluminum Profilee

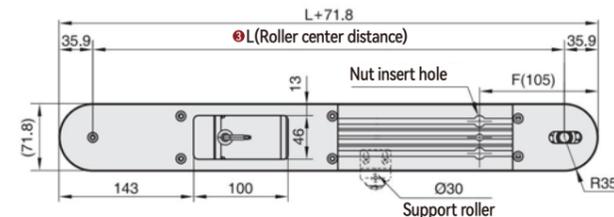
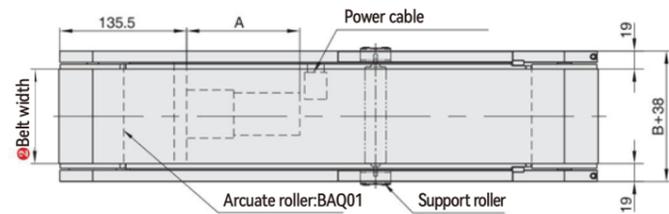
Conveyor Features

Motor is inserted in drive roller to save space, for small load.



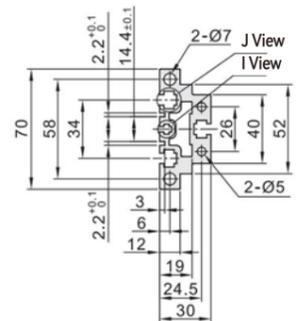
Conveyor Dimensions

Motor Specification: 6W Motion Direction



Above conveyor dimensions is basis on belt thickness H(0.9mm).

Conveyor Profile Section



Nut specification inside aluminum profile slot: Basis on L (Roller center distance)

415~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	I View	M3 (hexagonal)	Accessory
4PCS	6PCS	8PCS	J View	M6 (square)	Accessory

Conveyor speed and load capability

Gear box ratio	Form 1: Gear box ratio and conveyor speed(m/min)				Form 2: Pulse quality and conveyor speed(m/min)			
	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque	
5	-	-	-	0~131.9	400	26.4	0~7.3 0~8.2 0~9.9	-
7.5	-	-	-	0~87.9	800	52.8	0~3.6 0~4.1 0~4.9	-
10	-	-	-	0~65.9	1600	105.5	0~1.8 0~2.1 0~2.5	-
12.5	23.7	14.2~23.7	-	0~52.8	3200	211.0	0~0.9 0~1.0 0~1.2	-
15	19.8	11.9~19.8	-	0~44.0	6400	422.0	0~0.5 0~0.5 0~0.6	-
18	16.5	9.9~16.5	-	0~36.6	12800	844.0	-	-
25	11.9	7.1~11.9	-	0~26.4	25600	1688.0	-	-
30	9.9	5.9~9.9	-	0~22.0	51200	3376.0	-	-
36	8.2	4.9~8.2	-	0~18.3	-	-	-	-
50	5.9	3.6~5.9	-	0~13.2	-	-	-	-
60	4.9	3.0~4.9	-	0~11.0	-	-	-	-

Test Condition: B=100 L=800

Speed calculation formula:
 1. Drive roller diameter D=70mm
 2. Speed adjustable motor RPM=1350/min
 3. Frequency motor RPM=1680/min
 4. Brushless motor RPM=3000/min
 5. Belt pulley ratio i2=1:1
 $S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$
 $S = \frac{70 \times 3.14 \times 1350 \times 1}{11 \times 1000}$
 $S = 23.738 \text{ m/min}$

Test Condition: B=100 L=800 Current:5A

Speed calculation formula:
 1. Drive roller diameter D=70mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Belt pulley ratio i2=1:1
 $S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$
 $S = \frac{70 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$
 $S = 26.4 \text{ m/min}$

Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features		Material			Surface Treatment	
		Application Features	Motion Features	Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover
BAQ01	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward Reverse transfer	Alloy			Surface electrophoresis	Painting

Series Code	Belt Width	L-Conveyor Length 5mm	Motor Options				Belt Speciation	Motor Brand
			Output Power(W)	Voltage(V)	Motor Type	Speed Range(m/min)		
BAQ01 Arcuate roller	60	415~2000	6	TA220 Single phase	IM Fix-speed motor SCM Speed adjustable motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	H(Blackish green) H6(Bright green) D(Black-ESD) D9(Blackish green-ESD) F(White-Food grade) Q2(Green-incline application) Y1(Yellow- Special type) R(Red- Special type)	GPG JSCC No motor ZD No motor Stepper motor brand S(Leadshine) No motor Servo motor brand S(Leadshine) X(Panasonic) No motor
			25	DC24 DC TA220 Single phase	KMC Speed adjustable motor SWS Motor with drive	When motor power is 6W gear box ratio can not be 5-10.		
			57 series stepper motor	CM Open loop CME Closed loop	23 26 31	MC Pulse type IO IO type EC IO type EtherCAT RS RS485		
			MH Servo motor	TA220 Single phase	200W	Default type: pulse type		

Recommend motor brand JSCC

Model code example									
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand
Speed adjustable motor	BAQ01	B100	L800	6	TA220	SCM	12.5	H	G
Model code example	Conveyor Model	Belt Width	Conveyor Length	Motor series	Control Method	Output torque	Drive type	Belt Type	Motor Brand
Stepper motor	BAQ01	B100	L800	57	CM	23	MC	H	S
Model code example	Conveyor Model	Belt Width	Conveyor Length	Inertia	Voltage	Output power	Drive type	Belt Type	Motor Brand
Servo motor	BAQ01	B100	L800	MH	TA220	200W	EC	H	X

Recommend belt width and conveyor length							
Model	B	L415	L505	L605	L805	L905	L1005
		500	600	800	900	1000	2000
BAQ01	60	●	●	●	●	●	●
	100	—	●	●	●	●	●
	150	—	●	●	●	●	●
	200	—	●	●	●	●	●

Belt Specification

Underlying Parameter			
• Material:PU • Thickness:0.9mm • Color:Blackish green • Character:General	• Material:PU • Thickness:0.9mm • Color:Bright green • Character:General	• Material:PU • Thickness:0.8mm • Color:Black • Character:ESD	• Material:PU • Thickness:1.0mm • Color:Blackish green • Character:ESD
H	H6	D	D9
Underlying Parameter			
• Material:PU • Thickness:1.2mm • Color:White • Character:Food grade	• Material:PU • Thickness:1.0mm • Color:Bright green • Character:Incline	• Material:PVC • Thickness:2.0mm • Color:Yellow • Character:Special	• Material:PVC • Thickness:2.0mm • Color:Red • Character:Special
F	Q2	Y1	R1

Build-in drive belt conveyor for small and narrow space.

Product Application Case

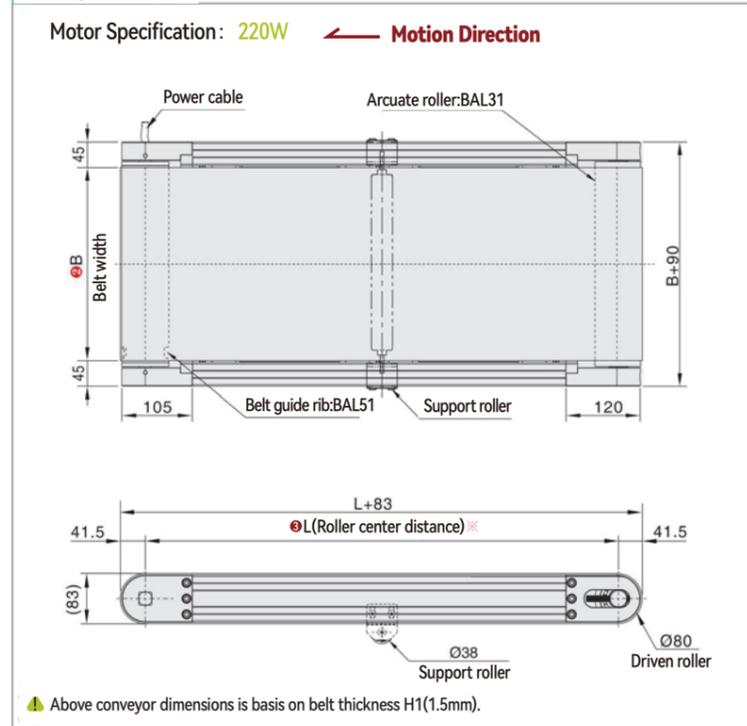
Dual Slots Aluminum Profilee

Conveyor Features

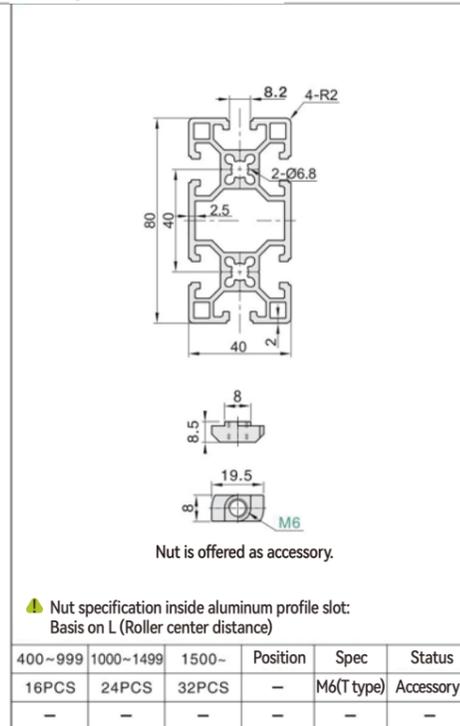
Motor is inserted in drive roller to save space, for big load.



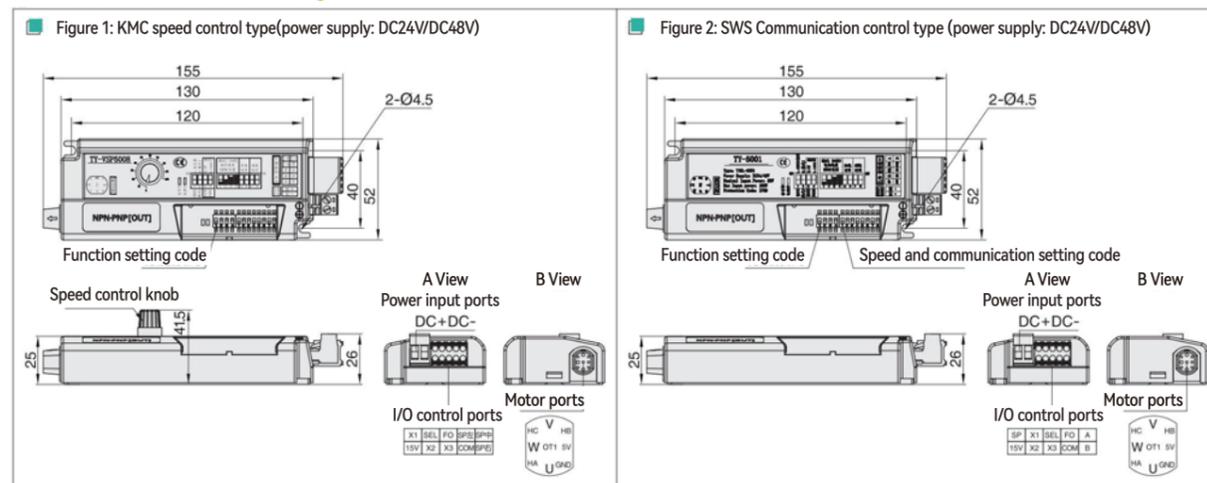
Conveyor Dimensions



Conveyor Profile Section



Controller and outline drawing



※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features		Material			Surface Treatment		
		Application Features	Motion Features	Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BAB01	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer	Alloy	Surface anodizing	Painting			
BAB21	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer						

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Speciation	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BAB01 Arcuate roller		300	400~3000	220	DC24 DC DC48 DC	KMC Speed adjustable motor SWS Motor with drive	H1(Blackish green) H2(green) D7(Black-ESD) D10(Bright green-ESD) F1(White-Food grade) W8(Blue-Anti slip) Y1(Yellow- Special type) R1(Red- Special type)	B(BOZ)
		400						
		500						
		600						
BAB21 Belt with guide rib		700						
		800						

Speed Range(m/min): 12 (0~12m/min), 25 (0~25m/min), 40 (0~40m/min), 50 (0~50m/min)

▲ Recommend speed control range within 20% during application.

▲ Motor build-in drive roller

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L400	L505	L605	L705	L805	L1005
Speed adjustable motor	BAB01	B300	L1000	220	DC24	KMC	50	H1	B	BAB01	300	●	●	●	●	●	●
Stepper motor	BAB21	B300	L1000	220	DC48	KMC	50	H1	B	BAB21	300	●	●	●	●	●	●
Servo motor	BAB21	B300	L1000	220	DC48	SWS	50	H1	B	BAB21	300	●	●	●	●	●	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.8mm Color:Blackish green Character:General 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Green Character:General 	<ul style="list-style-type: none"> Material:PU Thickness:1.5mm Color:Black Character:ESD 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Green Character:ESD
H1	H2	D7	D10

Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.5mm Color:White Character:Food grade 	<ul style="list-style-type: none"> Material:PU Thickness:1.8 mm Color:Blue Character:Anti-slip 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Red Character:Special
F1	W8	Y1	R1

Conveyor with product guide profile and sensor for stepping transferring and positioning. Product Application Case

Labels: Transfer module, Product, Pressing module, Product container, Pushing module.

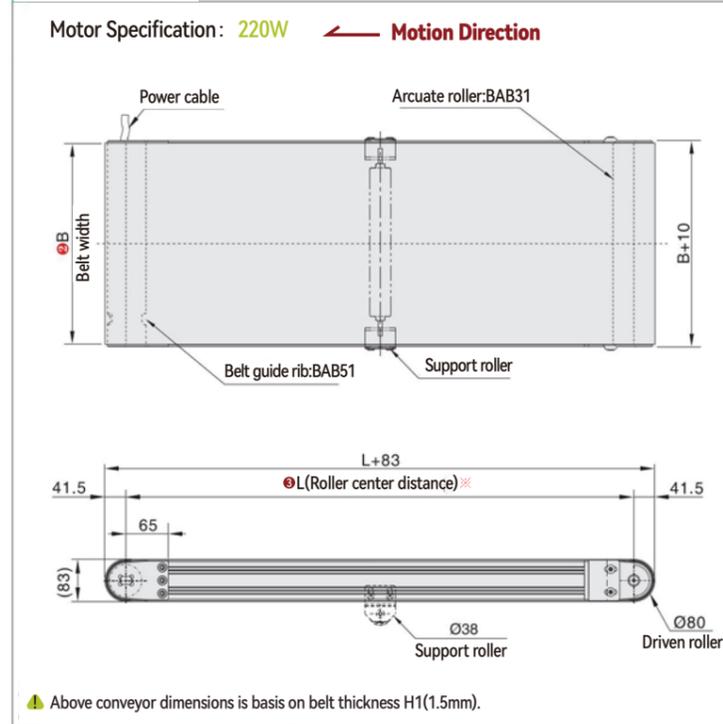
Dual Slots Aluminum Profilee

Conveyor Features

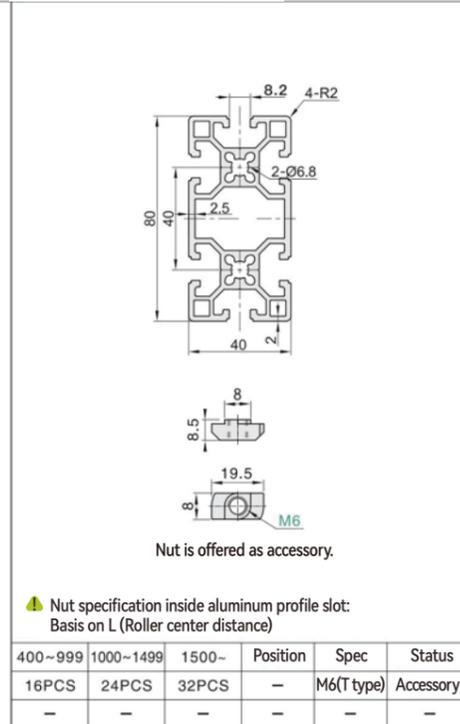
Motor is inserted in drive roller to save space, with overall belt, for big load.



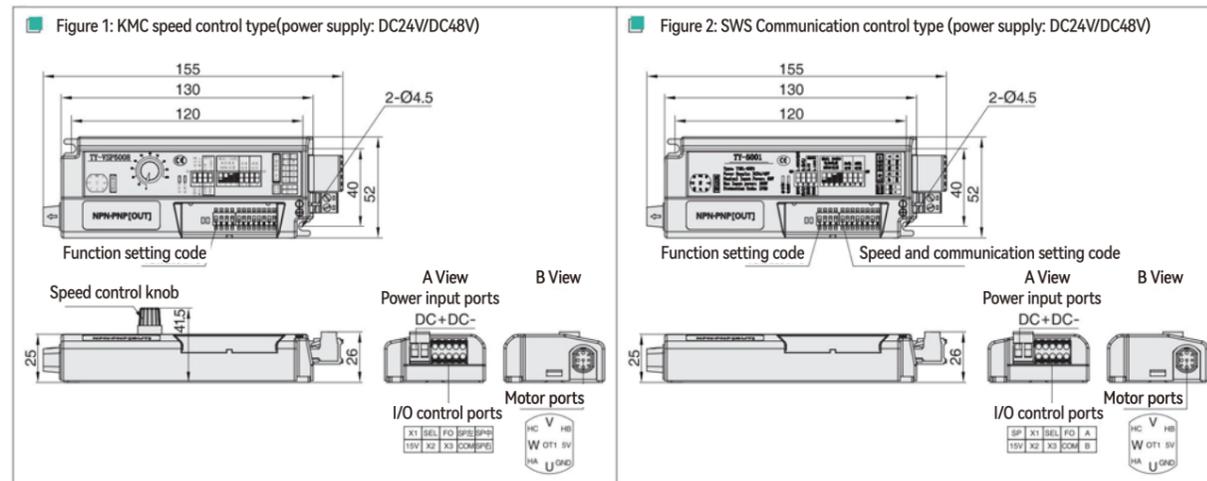
Conveyor Dimensions



Conveyor Profile Section



Controller and outline drawing



※ Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BAB31	Arcuate roller to avoid belt shift	Belt with good flatness	One-way transfer	Alloy	Surface anodizing	Painting				
BAB51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward/Reverse transfer							

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Speciation	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BAB31 Arcuate roller		350	400~3000	220	DC24 DC DC48 DC	KMC Speed adjustable motor SWS Motor with drive	12 (0~12m/min) 25 (0~25m/min) 40 (0~40m/min) 50 (0~50m/min)	H1(Blackish green) H2(green) D7(Black-ESD) D10(Bright green-ESD) F1(White-Food grade) W8(Blue-Anti slip) Y1(Yellow- Special type) R1(Red- Special type)
		400						
		500						
		600						
BAB51 Belt with guide rib		700						
		800						

▲ Recommend speed control range within 20% during application.

▲ Motor build-in drive roller

Model code example										Recommend belt width and conveyor length								
Model	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L400	L505	L605	L705	L805	L1005	L1005
Speed adjustable motor	BAB31	B350	L1000	220	DC24	KMC	50	H1	B	BAB31	300	●	●	●	●	●	●	●
Stepper motor	BAB51	B350	L1000	220	DC48	KMC	50	H1	B	BAB51	400	●	●	●	●	●	●	●
Servo motor	BAB51	B350	L1000	220	DC48	SWS	50	H1	B		500	●	●	●	●	●	●	●
											600	●	●	●	●	●	●	●
											700	●	●	●	●	●	●	●
											800	●	●	●	●	●	●	●
											1000	●	●	●	●	●	●	●
											3000	●	●	●	●	●	●	●

Belt Specification

Underlying Parameter			
• Material:PU • Thickness:1.5mm • Color:Blackish green • Character:General	• Material:PVC • Thickness:2.0mm • Color:Green • Character:General	• Material:PU • Thickness:1.5mm • Color:Black • Character:ESD	• Material:PVC • Thickness:2.0mm • Color:Green • Character:ESD
H1	H2	D7	D10
Underlying Parameter			
• Material:PVC • Thickness:2.0mm • Color:White • Character:Food grade	• Material:PU • Thickness:1.8 mm • Color:Blue • Character:Anti-slip	• Material:PVC • Thickness:2.0mm • Color:Yellow • Character:Special	• Material:PVC • Thickness:2.0mm • Color:Red • Character:Special
F4	W8	Y1	R1

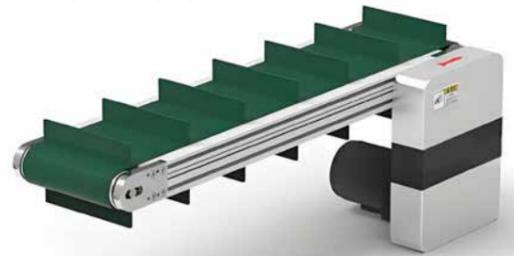
Conveyor with product guide profile and sensor for stepping transferring and positioning. **Product Application Case**

Labels: Transfer module, Suction cup module, Product, Transfer module.

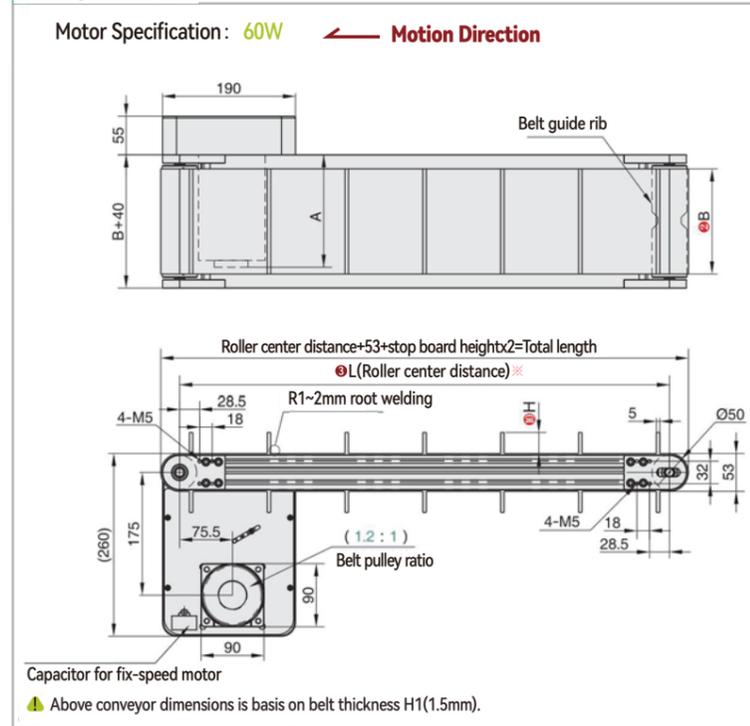
Three Slots Aluminum Profilee

Conveyor Features

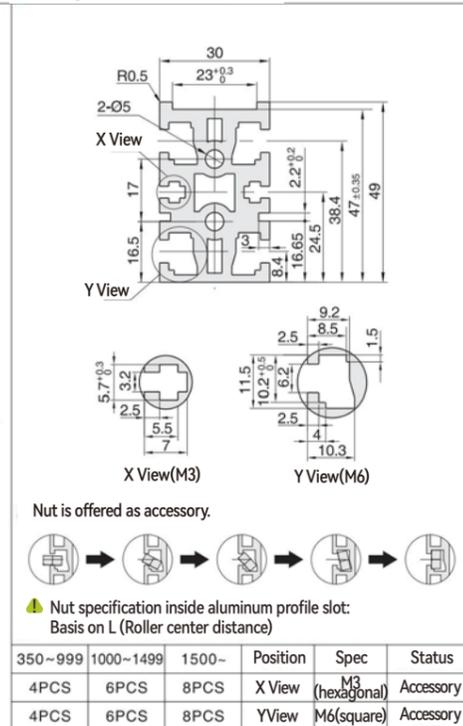
Motor is inserted in drive roller to save space, for small to medium load.



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	50.9	30.5~50.9	63.3	0~113.0	400	22.6	4.5N.m	8.0N.m	12.0N.m
7.5	33.9	20.3~33.9	42.2	0~75.4	800	45.2	0~13.8	0~24.8	0~37.4
10	25.4	15.3~25.4	31.7	0~56.5	1600	90.4	0~6.9	0~12.4	0~18.7
12.5	20.3	12.2~20.3	25.3	0~45.2	3200	180.9	0~3.5	0~6.2	0~9.4
15	17.0	10.2~17.0	21.1	0~37.7	6400	361.7	0~1.7	0~3.1	0~4.7
18	14.1	8.5~14.1	17.6	0~31.4	12800	723.5	0~0.9	0~1.6	0~2.3
25	10.2	6.1~10.2	12.7	0~22.6	25600	1446.9	-	-	-
30	8.5	5.1~8.5	10.6	0~18.8	51200	2893.8	-	-	-
36	7.1	4.2~7.1	8.8	0~15.7	-	-	-	-	-
50	5.1	3.1~5.1	6.3	0~11.3	-	-	-	-	-
60	4.2	2.5~4.2	5.3	0~9.4	-	-	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

Test Condition: B=200 L=1000 Current: 5A

Speed calculation formula

1. Drive roller diameter D=50mm
2. Speed adjustable motor RPM=1350/min
3. Frequency motor RPM=1680/min
4. Brushless motor RPM=3000/min
5. Belt pulley ratio i=1.2:1

$$S = \frac{D \times \pi \times R \times i}{11 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1.2}{11 \times 1000}$$

$$S = 20.3472 \text{ m/min}$$

Speed calculation formula

1. Drive roller diameter D=50mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i=1.2:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1.2}{1000}$$

$$S = 22.608 \text{ m/min}$$

Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Please do not exceed the allowed conveyor load and length. Belt thickness should be smaller than 2.0mm due to belt roller diameter.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features	Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board	
BDT51	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward Reverse transfer	Alloy			Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand	Board height	Motor Brand
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio				
BDT51 Belt with guide rib	50~300 Min.Step (5mm)	350~2000 Min.Step (5mm)	25	TA220 Single phase	IM Fix-speed motor	5 7.5 10 12.5 15	H1(Blackish green-General) H2(Green-General) D1(Green-ESD) D7(Black-ESD) D14(Blue-ESD) F1(White-Food grade) Y1(Yellow- Special type) R(Red- Special type)	20~150	GPG JSCC No motor
			40	SA220 Three phase	SCM Speed adjustable motor	18 25 30 36 50			
			60	DC24 DC	INV VFD type	60 75 90 100 120			
			40	TA220 Single phase	KMC Speed adjustable motor	150 180			
			60	TA220 Single phase	SWS Motor with drive				
			86 series stepper motor	CM Open loop CME Closed loop	45 80 120	MC Pulse type IO IO type EC IO type EtherCAT RS RS485			
			MH Servo motor	TA220 Single phase	400W 750W				

Board quantity ≤ Perimeter (2L+160)/50
T=5mm board thickness

Default type: pulse type

Recommend motor brand JSCC

Model code example											
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Board Height	Motor Brand
Speed adjustable motor	BDT51	B200	L1000	25	TA220	SCM	12.5	H2	S30	H30	G
Model code example	Conveyor Model	Belt Width	Conveyor Length	Motor series	Control Method	Output torque	Drive type	Belt Type	Motor Brand	Board Height	Motor Brand
Stepper motor	BDT51	B200	L1000	86	CM	45	MC	H2	S30	H30	S
Model code example	Conveyor Model	Belt Width	Conveyor Length	Inertia	Voltage	Output power	Drive type	Belt Type	Motor Brand	Board Height	Motor Brand
Servo motor	BDT51	B200	L1000	MH	TA220	400W	EC	H2	S30	H30	X

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.5mm Color:Blackish green Character:General 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Green Character:General 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Green Character:ESD 	<ul style="list-style-type: none"> Material:PU Thickness:1.5mm Color:Black Character:ESD
H1	H2	D1	D7
Underlying Parameter			
<ul style="list-style-type: none"> Material:PU Thickness:1.5mm Color:Blue Character:ESD 	<ul style="list-style-type: none"> Material:PU Thickness:1.5mm Color:White- Character:Food grade 	<ul style="list-style-type: none"> Material:PVC Thickness:2.0mm Color:Yellow Character:Special 	<ul style="list-style-type: none"> Material:PVC Thickness:1.5mm Thickness:2.0mm Color:Red Character:Special
D14	F1	Y1	R1

Parts separated by conveyor belt for specified process operating.

Product Application Case

Infeed module
Folding mechanism
Outfeed cylinder
BSV02 leg

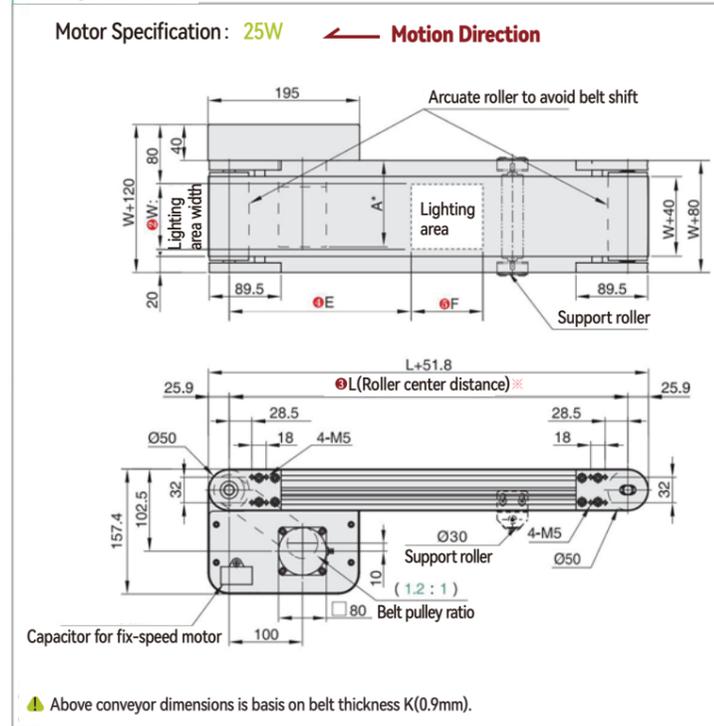
Three Slots Aluminum Profilee

Conveyor Features

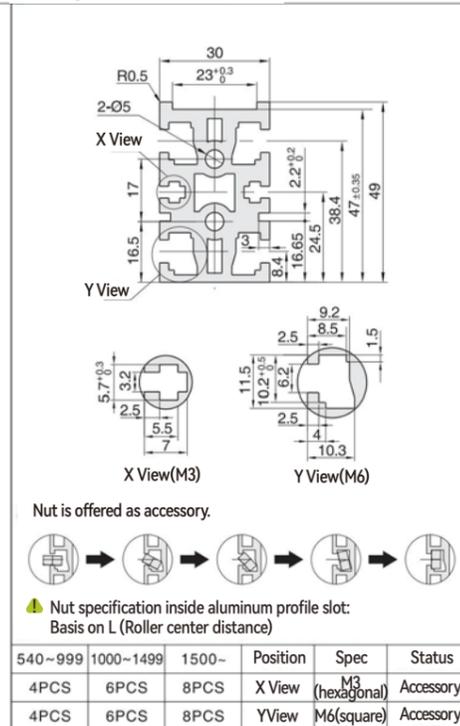
Conveyor made of specialized transparent belts, with parallel surface light sources on the underside of the belt for product appearance or outline dimensions inspection.



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	50.9	30.5~50.9	63.3	0~113.0	400	22.6	4.5N.m	8.0N.m	--
7.5	33.9	20.3~33.9	42.2	0~75.4	800	45.2	0~13.8	0~24.8	--
10	25.4	15.3~25.4	31.7	0~56.5	1600	90.4	0~6.9	0~12.4	--
12.5	20.3	12.2~20.3	25.3	0~45.2	3200	180.9	0~3.5	0~6.2	--
15	17.0	10.2~17.0	21.1	0~37.7	6400	361.7	0~1.7	0~3.1	--
18	14.1	8.5~14.1	17.6	0~31.4	12800	723.5	0~0.9	0~1.6	--
25	10.2	6.1~10.2	12.7	0~22.6	25600	1446.9	--	--	--
30	8.5	5.1~8.5	10.6	0~18.8	51200	2893.8	--	--	--
36	7.1	4.2~7.1	8.8	0~15.7	--	--	--	--	--
50	5.1	3.1~5.1	6.3	0~11.3	--	--	--	--	--
60	4.2	2.5~4.2	5.3	0~9.4	--	--	--	--	--

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

Test Condition: B=200 L=1000

Speed calculation formula

$$S = \frac{D \times \pi \times R \times i_2}{i_1 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1.2}{12.5 \times 1000}$$

$$S = 20.3472 \text{ m/min}$$

Test Condition: B=200 L=1000 Current: 5A

Speed calculation formula

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i_2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1.2}{1000}$$

$$S = 22.608 \text{ m/min}$$

Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Please do not exceed the allowed conveyor load and length. Belt load capability changes according to belt width.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features	Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board	
BST01	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward Reverse transfer	Alloy			Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Lighting Area Position	Light Area Length	Motor Options				Belt Spec	Motor Options	Light Color
				Output Power(w)	Voltage	Motor Type	Gear box ratio			
BST01 Belt with guide rib	50	→	50	25	TA220	IM	5 7.5 10 12.5 15	K (Transparent belt White)	GPG	H(White)
			100	40	Single phase	Fix-speed motor				
	100	→	100	60	SA220	SCM	18 25 30 36 50		ZD	R(Red)
			150	90	Three phase	Speed adjustable motor				
	150	→	200	40	DC24 DC	INV	150 180		No motor	G(Green)
			250	60	Single phase	VFD type				
	200	→	200	86	TA220	KMC	45 80		S(Leadshine)	W(Infrared)
			250	250	Speed adjustable motor	Motor with drive				
	250	→	250	250	Control method	Output torque	EC		IO type EtherCAT	U(Blue)
			300	400	Inertia	Voltage(V)				
300	→	300	MH	TA220	400W	RS	RS485	S(Leadshine)	Z(Ultraviolet)	
		400	400	Servo motor	Single phase					750W

Default type: pulse type

Recommend motor brand JSCC

Model code example												
Model code example	Series Code	Light Area Width	Conveyor Length	Lighting Area Position	Light Area Length	Motor Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Light Color
Speed adjustable motor	BST01	W100	L1000	E80	F100	25	TA220	SCM	12.5	K	G	H
Stepper motor	BST01	W100	L1000	E80	F100	86	CM	45	MC	K	S	H
Servo motor	BST01	W100	L1000	E80	F100	MH	TA220	400W	EC	K	X	H

Light Performance and Specification

Light Features				Conveyor With Light	
Power cable length	Standard length 485+15mm, option extension cable length 1/2/3m			light transmission	
Material statement	RoHS compliance			Lighting illustration	
Wavelength range	Red 620-630mm	Blue 465-475mm	White 6000-10000K (Color temperature)	Lighting illustration	
Working environment	Green 515-530mm	White 6000-10000K (Color temperature)	Humidity 20-80%RH (Non-condensing)	Lighting illustration	
Storage environment	Temperature 0~40°C	Humidity 20-80%RH (Non-condensing)	Adapt to Rsee series controller	Lighting illustration	
Life (Attenuation amount 50%)	Red (Operate continuously for over 60,000 hours at 50% illuminance)	White (Operate continuously for over 30,000 hours at 50% illuminance)	Adapt to Rsee series controller	Lighting illustration	
Parallel plane light				W-Width	F-Length
				50	19
				100	20
				150	19
				200	19
				250	19
				300	24
				300	24
				400	24
Transparent Belt Specification					
Belt Specification	Color	Attribute	Translucency	Material	Layer quantity
K Backlight	White (bright face)	Default	60%-85% (Non pure transparency)	PU	Single layer
				Conveying face	Thickness (mm)
				Polyester canvas	0.9
				Roller drive face	Adapt roller diameter (mm)
					Ø20~50
					Adapt load (KG)
					0~15
					Temperature resistant (°C)
					0~80

Standard light controller is two lanes, power source AC220V, maximum length of extension power cable is 3meters.

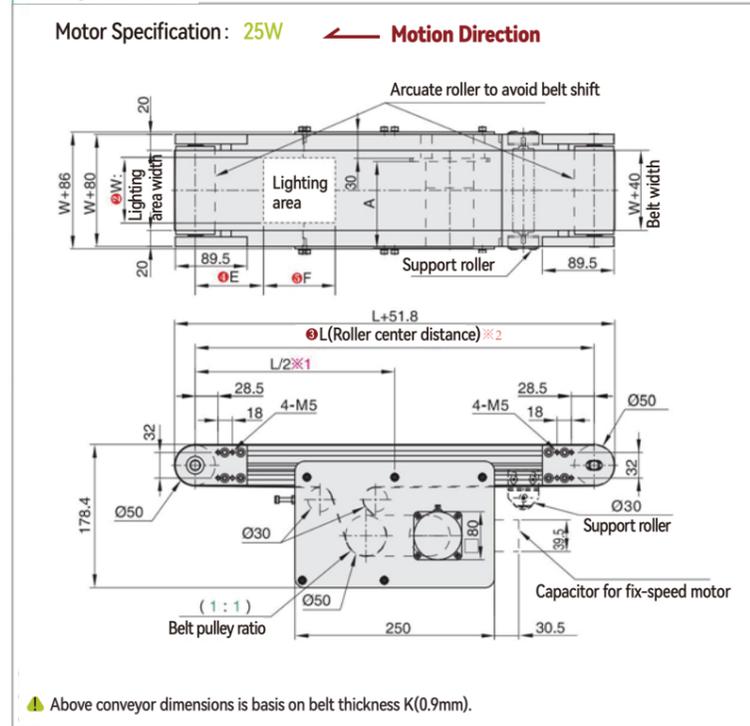
Three Slots Aluminum Profilee

Conveyor Features

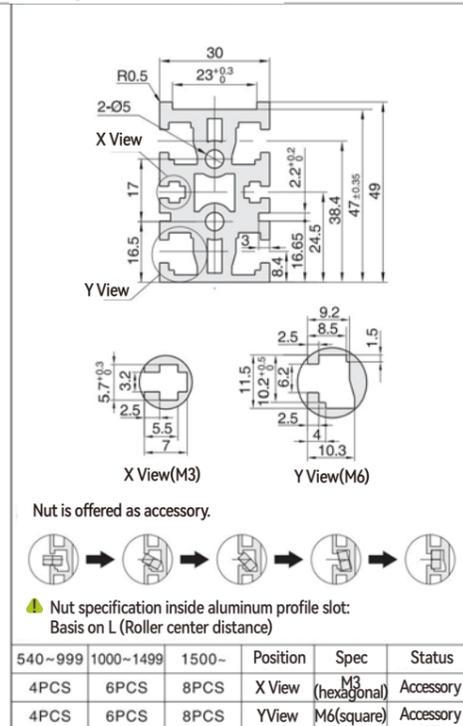
Conveyor made of specialized transparent belts, with parallel surface light sources on the underside of the belt for product appearance or outline dimensions inspection.



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	42.4	25.4-42.4	52.8	0-94.2	400	18.8	4.5N.m	8.0N.m	40
7.5	28.3	17.0-28.3	35.2	0-62.8	800	37.7	0-20.0	0-35.8	—
10	21.2	12.7-21.2	26.4	0-47.1	1600	75.4	0-10.0	0-17.9	—
12.5	17.0	10.2-17.0	21.1	0-37.7	3200	150.7	0-5.0	0-9.0	—
15	14.1	8.5-14.1	17.6	0-31.4	6400	301.4	0-2.5	0-4.5	—
18	11.8	7.1-11.8	14.7	0-26.2	12800	602.9	0-1.2	0-2.2	—
25	8.5	5.1-8.5	10.6	0-18.8	25600	1205.8	—	—	—
30	7.1	4.2-7.1	8.8	0-15.7	51200	2411.5	—	—	—
36	5.9	3.5-5.9	7.3	0-13.1	—	—	—	—	—
50	4.2	2.5-4.2	5.3	0-9.4	—	—	—	—	—
60	3.5	2.1-3.5	4.4	0-7.9	—	—	—	—	—

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

Test Condition: B=200 L=1000

Speed calculation formula

1. Drive roller diameter D=50mm
 2. Speed adjustable motor RPM=1350/min
 3. Frequency motor RPM=1680/min
 4. Brushless motor RPM=3000/min
 5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 16.956 \text{ m/min}$$

Test Condition: B=200 L=1000 Current: 5A

Speed calculation formula

1. Drive roller diameter D=50mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 18.84 \text{ m/min}$$

Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Please do not exceed the allowed conveyor load and length. Belt load capability changes according to belt width.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features	Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board	
BSZ01	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward Reverse transfer	Alloy			Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Lighting Area Position	Light Area Length	Motor Options				Belt Spec	Motor Options	Light Color	
				Output Power(w)	Voltage	Motor Type	Gear box ratio				
BSZ01 Belt with guide rib	50	80~2500	50	25	TA220	IM	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	K (Transparent belt White)	GPG JSCC No motor	H(White)	
			100	40	SA220	SCM					
			150	60	SA220	INV					
	100	80~2500	200	200	40	DC24 DC	KMC		150 180	ZD No motor	R(Red)
				250	60	TA220	SWS				
				250	60	TA220	SWS				
	150	80~2500	200	200	86	CM	MC		MC Pulse type IO IO type EC IO typeEtherCAT RS RS485	S(Leadshine) No motor	G(Green)
				250	86	CME	IO				
				250	300	—	—				
	200	80~2500	250	250	—	—	—		—	U(Blue)	—
				300	—	—	—				
				300	—	—	—				
250	80~2500	300	300	—	—	—	—	W(Infrared)	—		
			400	—	—	—					
			400	—	—	—					
300	80~2500	400	400	—	—	—	—	X(Ultraviolet)	—		
			—	—	—	—					
			—	—	—	—					

Motor Options: ① Motor Series ② Control method ③ Output torque ④ Drive type

Default type: pulse type

Recommend motor brand JSCC

Model code example												
Series Code	Light Area Width	Conveyor Length	Lighting Area Position	Light Area Length	Motor Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Light Color	
BSZ01	W100	L1000	E80	F100	25	TA220	SCM	12.5	K	G	H	
BSZ01	W100	L1000	E80	F100	86	TA220	CM	45	MC	K	S	
BSZ01	W100	L1000	E80	F100	400W	TA220	EC	—	K	X	H	

Light Performance and Specification

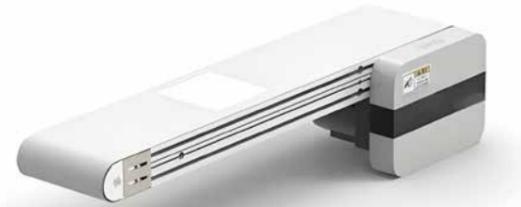
Light Features				Conveyor With Light		
Power cable length	Standard length 485+15mm, option extension cable length 1/2/3m			light transmission		
Material statement	RoHS compliance			Lighting illustration		
Wavelength range	Red 620-630nm	Blue 465-475nm	White 6000-10000K (Color temperature)	Lighting illustration		
Working environment	Green 515-530nm	White 6000-10000K (Color temperature)	Humidity 20-80%RH (Non-condensing)	Lighting illustration		
Storage environment	0-40°C	Humidity 20-80%RH (Non-condensing)	Adapt to Rsee series controller	Lighting illustration		
Life (Attenuation amount 50%)	Red (Operate continuously for over 60,000 hours at 50% illumination)	White (Operate continuously for over 30,000 hours at 50% illumination)	Adapt to Rsee series controller	Lighting illustration		
Parallel plane light				W-Width	F-Length	T-Thickness
Lighting illustration				50	100	19
Lighting illustration				100	150	19
Lighting illustration				150	200	19
Lighting illustration				200	250	19
Lighting illustration				250	300	24
Lighting illustration				300	300	22
Lighting illustration				300	400	24
Transparent Belt Specification						
Belt Specification	Color	Attribute	Translucency	Material	Layer quantity	Thickness (mm)
K Backlight	White (bright face)	Default	60%-85% (Non pure transparency)	PU	Single layer	0.9
				Conveying face Roller drive face		
				Adapt roller diameter (mm)	Adapt load (KG)	Temperature resistant (°C)
				Ø20-50	0-15	0-80

Standard light controller is two lanes, power source AC220V, maximum length of extension power cable is 3meters.

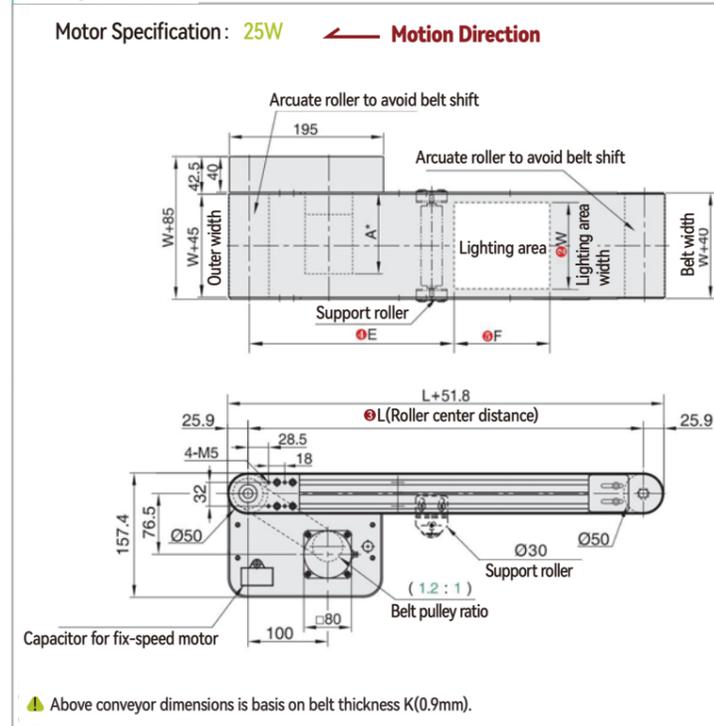
Three Slots Aluminum Profilee

Conveyor Features

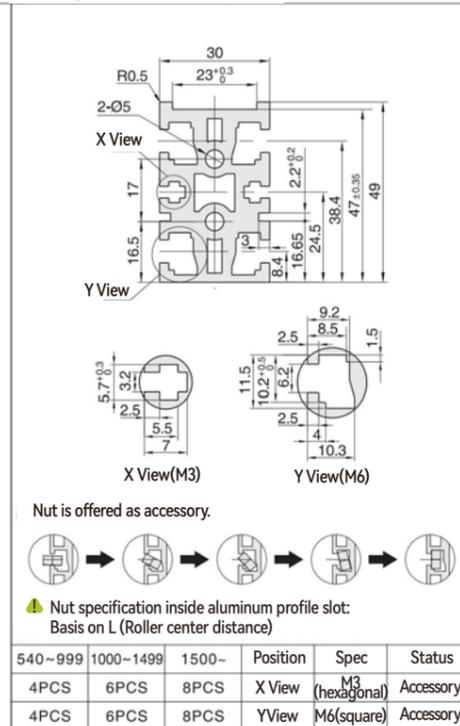
Conveyor made of specialized transparent belts, overall belt design, with parallel surface light sources on the underside of the belt for product appearance or outline dimensions inspection.



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	50.9	30.5-50.9	63.3	0-113.0	400	22.6	4.5N.m	8.0N.m	-
7.5	33.9	20.3-33.9	42.2	0-75.4	800	45.2	0-13.8	0-24.8	-
10	25.4	15.3-25.4	31.7	0-56.5	1600	90.4	0-6.9	0-12.4	-
12.5	20.3	12.2-20.3	25.3	0-45.2	3200	180.9	0-3.5	0-6.2	-
15	17.0	10.2-17.0	21.1	0-37.7	6400	361.7	0-1.7	0-3.1	-
18	14.1	8.5-14.1	17.6	0-31.4	12800	723.5	0-0.9	0-1.6	-
25	10.2	6.1-10.2	12.7	0-22.6	25600	1446.9	-	-	-
30	8.5	5.1-8.5	10.6	0-18.8	51200	2893.8	-	-	-
36	7.1	4.2-7.1	8.8	0-15.7	-	-	-	-	-
50	5.1	3.1-5.1	6.3	0-11.3	-	-	-	-	-
60	4.2	2.5-4.2	5.3	0-9.4	-	-	-	-	-

▲ Test Condition: B=200 L=1000

▲ Speed calculation formula

1. Drive roller diameter D=50mm
 2. Speed adjustable motor RPM=1350/min
 3. Frequency motor RPM=1680/min
 4. Brushless motor RPM=3000/min
 5. Belt pulley ratio i=1.2:1

$$S = \frac{D \times \pi \times R \times i^2}{11 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1.2}{12.5 \times 1000}$$

$$S = 20.3472 \text{ m/min}$$

▲ Test Condition: B=200 L=1000 Current: 5A

▲ Speed calculation formula

1. Drive roller diameter D=50mm
 2. Pulse quantity=400
 3. Stepper motor angle J=1.8°
 4. Belt pulley ratio i=1.2:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i^2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1.2}{1000}$$

$$S = 22.608 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt load capability changes according to belt width.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features	Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board	
BSQ01	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward Reverse transfer	Alloy			Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Lighting Area Position	Light Area Length	Motor Options				Belt Spec	Motor Options	Light Color		
				Output Power(w)	Voltage	Motor Type	Gear box ratio					
BSQ01 Belt with guide rib	50	→	50	25	TA220	IM	5 7.5 10 12.5 15	K (Transparent belt White)	GPG JSCC No motor	H(White)		
			100	40	SA220	SCM					18 25 30 36 50	
	100	→	100	60	TA220	INV	60 75 90 100 120				ZD No motor	R(Red)
			150	90	SA220	VFD type						
	150	→	200	40	DC24 DC	KMC	150 180				S(Leadshine) No motor	G(Green)
			250	60	TA220	SWS						
200	→	200	86	CM	Open loop	45 80	S(Leadshine) No motor	U(Blue)				
		250	series stepper motor	CME	Closed loop							
250	→	250					S(Leadshine) No motor	W(Infrared)				
		300										
300	→	300					S(Leadshine) X(Panasonic) No motor	Z(Ultraviolet)				
		400										

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example												
Series Code	Light Area Width	Conveyor Length	Lighting Area Position	Light Area Length	Motor Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Light Color	
BSQ01	W100	L1000	E80	F100	25	TA220	SCM	12.5	K	G	H	

Series Code	Light Area Width	Conveyor Length	Lighting Area Position	Light Area Length	Motor series	Control Method	Output torque	Drive type	Belt Type	Motor Brand	Light Color
BSQ01	W100	L1000	E80	F100	86	CM	45	MC	K	S	H

Series Code	Light Area Width	Conveyor Length	Lighting Area Position	Light Area Length	Inertia	Voltage	Output power	Drive type	Belt Type	Motor Brand	Light Color
BSQ01	W100	L1000	E80	F100	MH	TA220	400W	EC	K	X	H

Light Performance and Specification

Light Features				Conveyor With Light	
Power cable length	Standard length 485+15mm, option extension cable length 1/2/3m			light transmission	
Material statement	RoHS compliance			Lighting illustration	
Wavelength range	Red 620-630nm	Blue 465-475nm	White 6000-10000K (Color temperature)	Lighting illustration	
Working environment	Green 515-530nm	White 6000-10000K (Color temperature)	Humidity 20-80%RH (Non-condensing)	Lighting illustration	
Storage environment	Temperature 0-40°C	Humidity 20-80%RH (Non-condensing)	Adapt to Rsee series controller	Lighting illustration	
Life (Attenuation amount 50%)	Red (Operate continuously for over 60,000 hours at 50% illumination)	White (Operate continuously for over 30,000 hours at 50% illumination)	Adapt to Rsee series controller	Lighting illustration	
Parallel plane light			W-Width	F-Length	T-Thickness
Lighting Area			50	100	19
Lighting Area			100	150	19
Lighting Area			150	200	19
Lighting Area			200	250	19
Lighting Area			250	300	22
Lighting Area			300	400	24

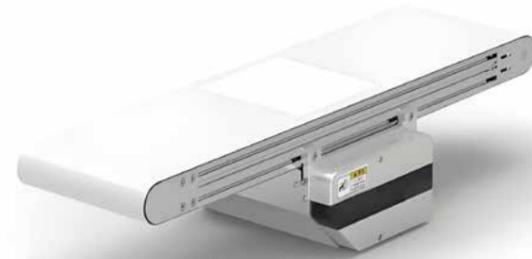
Transparent Belt Specification						
Code	Belt Performance	Color	Attribute	Translucency	Material	Layer quantity
K	Backlight	White (bright face)	Default	60%-85% (Non pure transparency)	PU	Single layer

▲ Standard light controller is two lanes, power source AC220V, maximum length of extension power cable is 3meters.

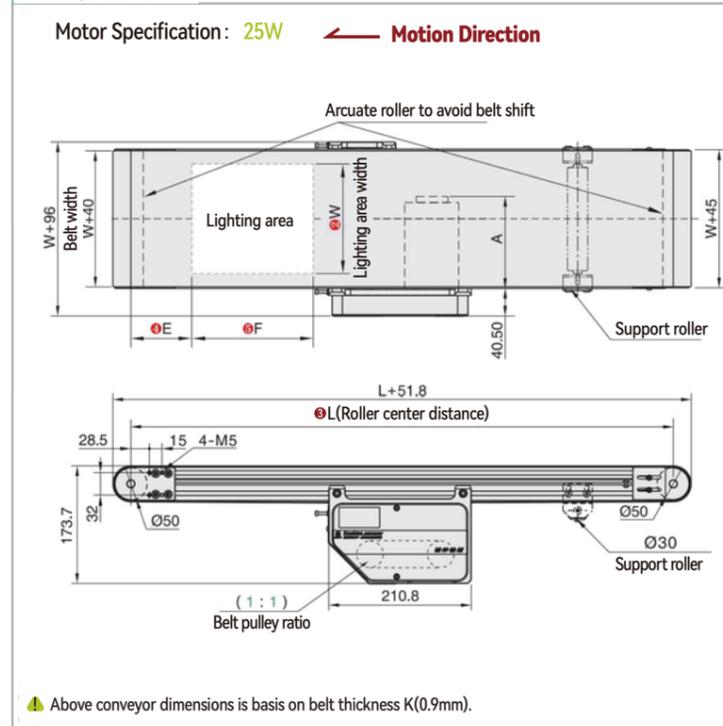
Three Slots Aluminum Profile

Conveyor Features

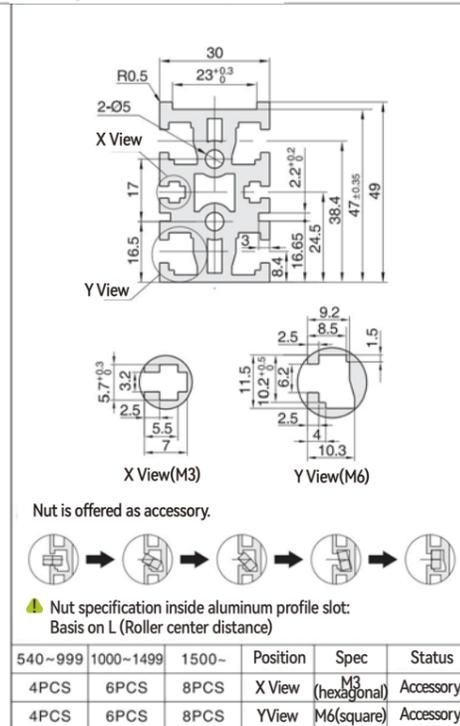
Conveyor made of specialized transparent belts, overall belt design, with parallel surface light sources on the underside of the belt for product appearance or outline dimensions inspection.



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
5	42.4	25.4~42.4	52.8	0~94.2	400	18.8	4.5N.m	8.0N.m	--
7.5	28.3	17.0~28.3	35.2	0~62.8	800	37.7	0~20.0	0~35.8	--
10	21.2	12.7~21.2	26.4	0~47.1	1600	75.4	0~10.0	0~17.9	--
12.5	17.0	10.2~17.0	21.1	0~37.7	3200	150.7	0~5.0	0~9.0	--
15	14.1	8.5~14.1	17.6	0~31.4	6400	301.4	0~2.5	0~4.5	--
18	11.8	7.1~11.8	14.7	0~26.2	12800	602.9	0~1.2	0~2.2	--
25	8.5	5.1~8.5	10.6	0~18.8	25600	1205.8	--	--	--
30	7.1	4.2~7.1	8.8	0~15.7	51200	2411.5	--	--	--
36	5.9	3.5~5.9	7.3	0~13.1	--	--	--	--	--
50	4.2	2.5~4.2	5.3	0~9.4	--	--	--	--	--
60	3.5	2.1~3.5	4.4	0~7.9	--	--	--	--	--

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition:B=200 L=1000

▲ Speed calculation formula

- Drive roller diameter D=50mm
- Speed adjustable motor RPM=1350/min
- Frequency motor RPM=1680/min
- Brushless motor RPM=3000/min
- Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 16.956 \text{ m/min}$$

▲ Test Condition:B=200 L=1000 Current:5A

▲ Speed calculation formula

- Drive roller diameter D=50mm
- Pulse quantity=400
- Stepper motor angle J=1.8°
- Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 18.84 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length. Belt load capability changes according to belt width.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features	Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board	
BSN01	Belt guide rib to avoid belt shift	Belt runs stable, but guide rib may be slight protrusion.	Forward Reverse transfer	Alloy			Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Lighting Area Position	Light Area Length	Motor Options				Belt Spec	Motor Options	Light Color	
				Output Power(w)	Voltage	Motor Type	Gear box ratio				
BSN01 Belt with guide rib	50	80~2500	50	25	TA220	IM	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	K (Transparent belt White)	GPG JSCC No motor	H(White)	
			100	40	SA220	SCM					
			150	60	SA220	INV					
	100	80~2500	200	200	40	DC24 DC	KMC		150 180	ZD No motor	R(Red)
				250	60	TA220	SWS				
				250	60	TA220	SWS				
	150	80~2500	200	200	86	CM	Open loop		45 80	S(Leadshine) No motor	G(Green)
				250	86	CME	Closed loop				
				250	300						
	200	80~2500	250	250		MH	Servo motor		400W 750W	U(Blue)	W(Infrared)
				300							
				300							
250	80~2500	300	300				MC Pulse type IO IO typeEtherCAT RS RS485	S(Leadshine) X(Panasonic) No motor	Z(Ultraviolet)		
			400								
			400								

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example												
Series Code	Light Area Width	Conveyor Length	Lighting Area Position	Light Area Length	Motor Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Light Color	
BSN01	W100	L1000	E80	F100	25	TA220	SCM	12.5	K	G	H	
BSN01	W100	L1000	E80	F100	86	CM	45	MC	K	S	H	
BSN01	W100	L1000	E80	F100	MH	TA220	400W	EC	K	X	H	

Light Performance and Specification

Light Features				Conveyor With Light	
Power cable length	Standard length 485+15mm, option extension cable length 1/2/3m			light transmission	
Material statement	RoHS compliance			Lighting illustration	
Wavelength range	Red 620-630nm	Blue 465-475nm	White 6000-10000K (Color temperature)	Lighting illustration	
Working environment	Green 515-530nm	White 6000-10000K (Color temperature)	Humidity 20-80%RH (Non-condensing)	Lighting illustration	
Storage environment	Temperature 0-40°C	Humidity 20-80%RH (Non-condensing)	Adapt to Rsee series controller		
Life (Attenuation amount 50%)	Red (Operate continuously for over 60,000 hours at 50% illuminance)	White (Operate continuously for over 30,000 hours at 50% illuminance)	Adapt to Rsee series controller		
Parallel plane light				W-Width	F-Length
				19	19
				20	19
				19	19
				20	19
				23	19
				19	19
				24	19
				24	24
				22	24
				24	24

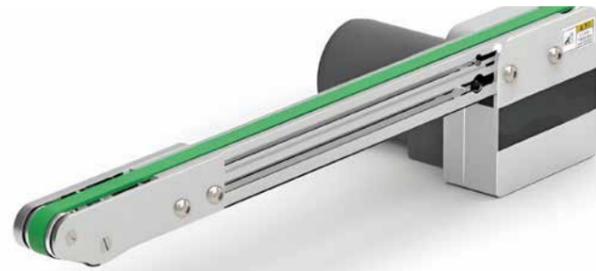
Transparent Belt Specification						
Code	Belt Performance	Color	Attribute	Translucency	Material	Layer quantity
K	Backlight	White(bright face)	Default	60%-85% (Non pure transparency)	PU	Single layer

▲ Standard light controller is two lanes, power source AC220V, maximum length of extension power cable is 3meters.

Dual Slots Aluminum Profilee

Conveyor Features

Conveyor with sharp end for compact connection, one lane conveyor for small part positioning and transferring.



Conveyor Dimensions

Motor Specification: 6W ← Motion Direction

Conveyor Profile Section

▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

245~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	I View	M3(hexagonal)	Accessory
4PCS	6PCS	8PCS	J View	M6(square)	Accessory

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	2.3N.m	2.6N.m	3.1N.m
5	-	-	-	-	400	12.1	0~16.3	0~18.4	0~21.9
7.5	-	-	-	-	800	24.1	0~8.1	0~9.2	0~11.0
10	-	-	-	-	1600	48.2	0~4.1	0~4.6	0~5.5
12.5	10.9	6.5~10.9	-	-	3200	96.5	0~2.0	0~2.3	0~2.7
15	9.0	5.4~9.0	-	-	6400	192.9	0~1.0	0~1.2	0~1.4
18	7.5	4.5~7.5	-	-	12800	385.8	-	-	-
25	5.4	3.3~5.4	-	-	25600	771.7	-	-	-
30	4.5	2.7~4.5	-	-	51200	1543.4	-	-	-
36	3.8	2.3~3.8	-	-	-	-	-	-	-
50	2.7	1.6~2.7	-	-	-	-	-	-	-
60	2.3	1.4~2.3	-	-	-	-	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition: B=10 L=800

▲ Speed calculation formula

- Drive roller diameter D=32mm
- Speed adjustable motor RPM=1350/min
- Frequency motor RPM=1680/min
- Brushless motor RPM=3000/min
- Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{32 \times 3.14 \times 1350 \times 1}{11 \times 1000}$$

$$S = 12.5 \times 1000$$

$$S = 10.85184 \text{ m/min}$$

▲ Test Condition: B=10 L=800 Current:5A

▲ Speed calculation formula

- Drive roller diameter D=32mm
- Pulse quantity=400
- Stepper motor angle J=1.8°
- Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{32 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 12.0576 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BTA01	Baffle alignment type for small load	Cloth tooth surface to reduce noise support precision positioning and transferring	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Motor Options					Belt Spec	Motor Brand	
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio				
BTA01	10	245~2000	6	TA220 Single phase SA220 Three phase DC24 DC TA220 Single phase	IM Fix-speed motor SCM Speed adjustable motor	12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	C(General type-Tooth with cloth face) C1(General type-Cloth face at both side) N(ESD-Cloth face at both side) N1(ESD-Tooth with cloth face) K(Anti-slip-Rubber surface) K2(Anti-slip-Rubber surface) K3(Anti-slip-Rubber surface) K7(Anti-slip-Tooth with cloth face)	GPG JSCC No motor	
			86 series stepper motor	CM Open loop CME Closed loop	23 26 31	MC Pulse type IO IO type EC IO type EtherCAT RS RS485			S(Leadshine) No motor
			MH Servo motor	TA220 Single phase	200W 400W				S(Leadshine) X(Panasonic) No motor
						▲ Default type: pulse type			

※ Recommend motor brand JSCC

Model code example

Series Code	Belt Width	Conveyor Length	Motor Power	Voltage	Control Method	Ratio	Timing Belt Type	Motor Brand
BTA01	B10	L800	6	TA220	SCM	12.5	C	G

Series Code	Belt Width	Conveyor Length	Motor series	Control Method	Output torque	Drivetype	Timing Belt Type	Motor Brand
BTA01	B10	L800	57	CM	23	MC	C	S

Series Code	Belt Width	Conveyor Length	Inertia	Voltage	Output power	Drivetype	Timing Belt Type	Motor Brand
BTA01	B10	L800	MH	TA220	200W	EC	C	X

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Tooth type:T5 Surface: White polyurethane Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Green nylon cloth Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T5 Surface: ESD Black cloth Tooth face: ESD Black cloth Character:ESD 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD
C	C1	N	N1
Underlying Parameter			
<ul style="list-style-type: none"> Tooth type:T5 Surface: Red rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Yellow rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Green rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Transparent polyurethane Tooth face: Black Green nylon cloth Character:Anti-slip
K	K2	K3	K7

Small conveyor for product out feeding

Product Application Case

Dual Slots Aluminum Profilee



Conveyor Features

Conveyor with sharp end for compact connection, one lane conveyor for small part positioning and transferring.

Conveyor Dimensions

Motor Specification: 6W ← Motion Direction

Capacitor for fixspeed motor
Nut insert hole
Belt pulley ratio (1:1)

Conveyor Profile Section

▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

330~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	I View	M3 (hexagonal)	Accessory
4PCS	6PCS	8PCS	J View	M6 (square)	Accessory

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)

Gear box ratio	Fix-speed motor	Speed adjustable motor	Frequency motor	Brushless motor
	Speed(m/min)	Speed(m/min)		
5	-	-	-	-
7.5	-	-	-	-
10	-	-	-	-
12.5	10.9	6.5~10.9	-	-
15	9.0	5.4~9.0	-	-
18	7.5	4.5~7.5	-	-
25	5.4	3.3~5.4	-	-
30	4.5	2.7~4.5	-	-
36	3.8	2.3~3.8	-	-
50	2.7	1.6~2.7	-	-
60	2.3	1.4~2.3	-	-

Form 2: Pulse quality and conveyor speed(m/min)

Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque		
		2.3N.m	2.6N.m	3.1N.m
400	12.1	0~16.3	0~18.4	0~21.9
800	24.1	0~8.1	0~9.2	0~11.0
1600	48.2	0~4.1	0~4.6	0~5.5
3200	96.5	0~2.0	0~2.3	0~2.7
6400	192.9	0~1.0	0~1.2	0~1.4
12800	385.8	-	-	-
25600	771.7	-	-	-
51200	1543.4	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition:B=10 L=800

Speed calculation formula:
1. Drive roller diameter D=32mm
2. Speed adjustable motor RPM=1350r/min
3. Frequency motor RPM=1680r/min
4. Brushless motor RPM=3000r/min
5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{32 \times 3.14 \times 1350 \times 1}{11 \times 1000}$$

$$S = 12.5 \times 1000$$

$$S = 10.85184 \text{ m/min}$$

▲ Test Condition:B=10 L=800 Current:5A

Speed calculation formula:
1. Drive roller diameter D=32mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{32 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 12.0576 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BTB01	Baffle alignment type for small load	Cloth tooth surface to reduce noise support precision positioning and transferring	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Motor Options					Belt Spec	Motor Brand				
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio							
BTB01	10	330~2000	6	TA220 Single phase	IM Fix-speed motor SCM Speed adjustable motor	12.5	15	18	25	30	C(General type-Tooth with cloth face) C1(General type-Cloth face at both side) N(ESD-Cloth face at both side) N1(ESD-Tooth with cloth face) K(Anti-slip-Rubber surface) K2(Anti-slip-Rubber surface) K3(Anti-slip-Rubber surface) K7(Anti-slip-Tooth with cloth face)	GPG JSCC No motor
				SA220 Three phase		36	50	60	75	90		
				DC24 DC TA220 Single phase		100	120	150	180			
				Motor Series		Control method	Output torque	Drive type				
		86 series stepper motor	CM Open loop CME Closed loop	23 26 31	MC Pulse type IO IO type EC IO type EtherCAT RS RS485					S(Leadshine) No motor		
		MH Servo motor	TA220 Single phase	200W 400W						S(Leadshine) X(Panasonic) No motor		

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example

Series Code	Belt Width	Conveyor Length	Motor Power	Voltage	Control Method	Ratio	Timing Belt Type	Motor Brand
BTB01	B10	L800	6	TA220	SCM	12.5	C	G

Series Code	Belt Width	Conveyor Length	Motor series	Control Method	Output torque	Drive type	Timing Belt Type	Motor Brand
BTB01	B10	L800	57	CM	23	MC	C	S

Series Code	Belt Width	Conveyor Length	Inertia	Voltage	Output power	Drive type	Timing Belt Type	Motor Brand
BTB01	B10	L800	MH	TA220	200W	EC	C	X

Belt Specification

Underlying Parameter

Series	Surface	Character
C	White polyurethane	General
C1	Green nylon cloth	General
N	ESD Black cloth	ESD
N1	Black polyurethane	ESD
K	Red rubber 2mm	Anti-slip
K2	Yellow rubber 2mm	Anti-slip
K3	Green rubber 2mm	Anti-slip
K7	Transparent polyurethane	Anti-slip

Small conveyor for product out feeding

Product Application Case

Arrangement feeding mechanism

Three Slots Aluminum Profilee



Conveyor Features

Conveyor with sharp end for compact connection, one lane conveyor for small part positioning and transferring, suitable for medium load.

Conveyor Dimensions

Motor Specification: 6W ← Motion Direction

Conveyor Profile Section

▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

245~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	X View	M3 (hexagonal)	Accessory
4PCS	6PCS	8PCS	Y View	M6 (square)	Accessory

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)

Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)
5	-	-	-	-
7.5	-	-	-	-
10	-	-	-	-
12.5	10.9	6.5~10.9	-	-
15	9.0	5.4~9.0	-	-
18	7.5	4.5~7.5	-	-
25	5.4	3.3~5.4	-	-
30	4.5	2.7~4.5	-	-
36	3.8	2.3~3.8	-	-
50	2.7	1.6~2.7	-	-
60	2.3	1.4~2.3	-	-

▲ Test Condition: B=20 L=800

▲ Speed calculation formula

- Drive roller diameter D=32mm
- Speed adjustable motor RPM=1350/min
- Frequency motor RPM=1680/min
- Brushless motor RPM=3000/min
- Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{32 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 10.85184 \text{ m/min}$$

Form 2: Pulse quality and conveyor speed(m/min)

Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque 2.3N.m	2.6N.m	3.1N.m
400	12.1	0~16.3	0~18.4	0~21.9
800	24.1	0~8.1	0~9.2	0~11.0
1600	48.2	0~4.1	0~4.6	0~5.5
3200	96.5	0~2.0	0~2.3	0~2.7
6400	192.9	0~1.0	0~1.2	0~1.4
12800	385.8	-	-	-
25600	771.7	-	-	-
51200	1543.4	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition: B=20 L=800 Current:5A

▲ Speed calculation formula

- Drive roller diameter D=32mm
- Pulse quantity=400
- Stepper motor angle J=1.8°
- Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{32 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 12.0576 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BTA01	Baffle alignment type for small load	Cloth tooth surface to reduce noise support precision positioning and transferring	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Motor Options					Belt Spec	Motor Brand				
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio							
BTA01	20	245~2000	6	TA220 Single phase	IM Fix-speed motor SCM Speed adjustable motor	12.5	15	18	25	30	C(General type-Tooth with cloth face) C1(General type-Cloth face at both side) N(ESD-Cloth face at both side) N1(ESD-Tooth with cloth face) K(Anti-slip-Rubber surface) K2(Anti-slip-Rubber surface) K3(Anti-slip-Rubber surface) K7(Anti-slip-Tooth with cloth face)	GPG JSCC No motor
				SA220 Three phase		36	50	60	75	90		
				DC24 DC TA220 Single phase		100	120	150	180			
				Motor Series		Control method	Output torque	Drive type				
86 series stepper motor	CM Open loop CME Closed loop	23 26 31	MC Pulse type IO IO type EC IO type EtherCAT RS RS485				S(Leadshine) No motor					
MH Servo motor	TA220 Single phase	200W 400W				S(Leadshine) X(Panasonic) No motor						

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example

Series Code	Belt Width	Conveyor Length	Motor Power	Voltage	Control Method	Ratio	Timing Belt Type	Motor Brand
BTA01	B20	L800	6	TA220	SCM	12.5	C	G

Series Code	Belt Width	Conveyor Length	Motor series	Control Method	Output torque	Drive type	Timing Belt Type	Motor Brand
BTA01	B20	L800	57	CM	23	MC	C	S

Series Code	Belt Width	Conveyor Length	Inertia	Voltage	Output power	Drive type	Timing Belt Type	Motor Brand
BTA01	B20	L800	MH	TA220	200W	EC	C	X

Belt Specification

Underlying Parameter

C	C1	N	N1
• Tooth type:T5 • Surface: White polyurethane • Tooth face: Green nylon cloth • Character:General	• Tooth type:T5 • Surface: Green nylon cloth • Tooth face: Green nylon cloth • Character:General	• Tooth type:T5 • Surface: ESD Black cloth • Tooth face: ESD Black cloth • Character:ESD	• Tooth type:T5 • Surface: Black polyurethane • Tooth face: ESD Black cloth • Character:ESD

Underlying Parameter

K	K2	K3	K7
• Tooth type:T5 • Surface: Red rubber 2mm • Tooth face: Green nylon cloth • Character:Anti-slip	• Tooth type:T5 • Surface: Yellow rubber 2mm • Tooth face: Green nylon cloth • Character:Anti-slip	• Tooth type:T5 • Surface: Green rubber 2mm • Tooth face: Green nylon cloth • Character:Anti-slip	• Tooth type:T5 • Surface: Transparent polyurethane • Tooth face: Black Green nylon cloth • Character:Anti-slip

Small conveyor with pneumatic transfer module

Product Application Case

Three Slots Aluminum Profilee

Conveyor Features

Conveyor with sharp end for compact connection, one lane conveyor for small part positioning and transferring, suitable for medium load.



Conveyor Dimensions

Motor Specification: 6W ← Motion Direction

(1:1)
Belt pulley ratio

Conveyor Profile Section

▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

330~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	X View	M3 (hexagonal)	Accessory
4PCS	6PCS	8PCS	Y View	M6 (square)	Accessory

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)

Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)
5	-	-	-	-
7.5	-	-	-	-
10	-	-	-	-
12.5	10.9	6.5~10.9	-	-
15	9.0	5.4~9.0	-	-
18	7.5	4.5~7.5	-	-
25	5.4	3.3~5.4	-	-
30	4.5	2.7~4.5	-	-
36	3.8	2.3~3.8	-	-
50	2.7	1.6~2.7	-	-
60	2.3	1.4~2.3	-	-

Form 2: Pulse quality and conveyor speed(m/min)

Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque
400	12.1	2.3N.m 2.6N.m 3.1N.m
800	24.1	0~16.3 0~18.4 0~21.9
1600	48.2	0~8.1 0~9.2 0~11.0
3200	96.5	0~4.1 0~4.6 0~5.5
6400	192.9	0~2.0 0~2.3 0~2.7
12800	385.8	0~1.0 0~1.2 0~1.4
25600	771.7	-
51200	1543.4	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition:B=20 L=800

▲ Speed calculation formula

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{32 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 10.85184 \text{ m/min}$$

▲ Test Condition:B=20 L=800 Current:5A

▲ Speed calculation formula

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{32 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 12.0576 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BTB01	Baffle alignment type for small load	Cloth tooth surface to reduce noise support precision positioning and transferring	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Spec	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BTB01	20	330~2000	6	TA220 Single phase	IM Fix-speed motor	SCM Speed adjustable motor	C (General type-Tooth with cloth face) C1 (General type-Cloth face at both side) N (ESD-Cloth face at both side) N1 (ESD-Tooth with cloth face) K (Anti-slip-Rubber surface) K2 (Anti-slip-Rubber surface) K3 (Anti-slip-Rubber surface) K7 (Anti-slip-Tooth with cloth face)	GPG JSSC No motor
				SA220 Three phase				
				DC24 DC TA220 Single phase				
				Motor Series				
86 series stepper motor	CM Open loop CME Closed loop	23 26 31	MC Pulse type IO IO type EC IO type EtherCAT RS RS485	S (Leadshine) No motor				
MH Servo motor	TA220 Single phase	200W 400W		S (Leadshine) X (Panasonic) No motor				

※ Recommend motor brand JSSC

Model code example

Series Code	Belt Width	Conveyor Length	Motor Power	Voltage	Control Method	Ratio	Timing Belt Type	Motor Brand
BTB01	B20	L800	6	TA220	SCM	12.5	C	G

Series Code	Belt Width	Conveyor Length	Motor series	Control Method	Output torque	Drive type	Timing Belt Type	Motor Brand
BTB01	B20	L800	57	CM	23	MC	C	S

Series Code	Belt Width	Conveyor Length	Inertia	Voltage	Output power	Drive type	Timing Belt Type	Motor Brand
BTB01	B20	L800	MH	TA220	200W	EC	C	X

Belt Specification

Underlying Parameter

C	C1	N	N1
<ul style="list-style-type: none"> Tooth type:T5 Surface: White polyurethane Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Green nylon cloth Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T5 Surface: ESD Black cloth Tooth face: ESD Black cloth Character:ESD 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD

Underlying Parameter

K	K2	K3	K7
<ul style="list-style-type: none"> Tooth type:T5 Surface: Red rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Yellow rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Green rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Transparent polyurethane Tooth face: Black Green nylon cloth Character:Anti-slip

Conveyor system with 90 degree corner

Product Application Case

Dual Slots Aluminum Profilee

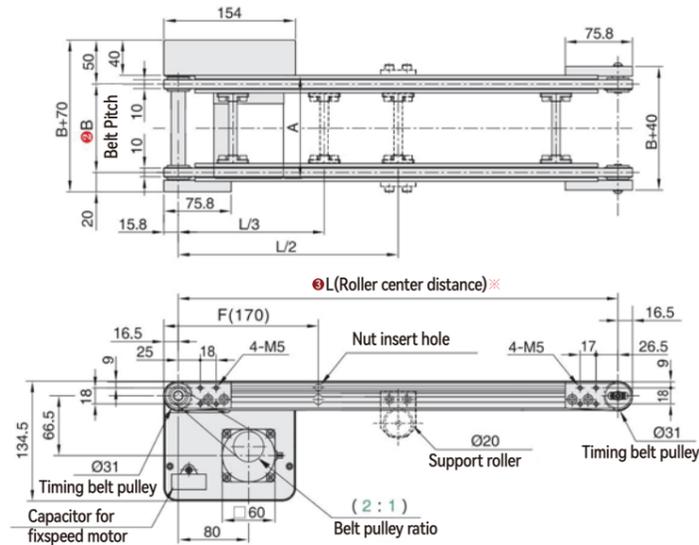


Conveyor Features

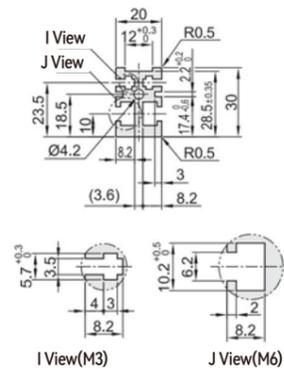
Dual lanes timing belt conveyor for pallet or fixture precision transferring, suitable for small load

Conveyor Dimensions

Motor Specification: 6W Motion Direction



Conveyor Profile Section



▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

255~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	I View	M3 (hexagonal)	Accessory
4PCS	6PCS	8PCS	J View	M6 (square)	Accessory

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque 2.3N.m	2.6N.m	3.1N.m
5	54.3	32.6-54.3	67.5	0-120.6	400	24.1	0-4.1	0-4.6	0-5.5
7.5	36.2	21.7-36.2	45.0	0-80.4	800	48.2	0-2.0	0-2.3	0-2.7
10	27.1	16.3-27.1	33.8	0-60.3	1600	96.5	0-1.0	0-1.1	0-1.4
12.5	21.7	13.0-21.7	27.0	0-48.2	3200	192.9	0-0.5	0-0.6	0-0.7
15	18.1	10.9-18.1	22.5	0-40.2	6400	385.8	0-0.3	0-0.3	0-0.3
18	15.1	9.0-15.1	18.8	0-33.5	12800	771.7	-	-	-
25	10.9	6.5-10.9	13.5	0-24.1	25600	1543.4	-	-	-
30	9.0	5.4-9.0	11.3	0-20.1	51200	3086.7	-	-	-
36	7.5	4.5-7.5	9.4	0-16.7	-	-	-	-	-
50	5.4	3.3-5.4	6.8	0-12.1	-	-	-	-	-
60	4.5	2.7-4.5	5.6	0-10.0	-	-	-	-	-

▲ Test Condition: B=80 L=800

▲ Speed calculation formula

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{32 \times 3.14 \times 1350 \times 2}{12.5 \times 1000}$$

$$S = 21.70368 \text{ m/min}$$

▲ Test Condition: B=80 L=800 Current:5A

▲ Speed calculation formula

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{32 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 2}{1000}$$

$$S = 24.1152 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BTH01	Baffle alignment type for small load	Cloth tooth surface to reduce noise support precision positioning and transferring	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BTH01	80~300 Min.Step (5mm)	6 25	TA220 Single phase	IM Fix-speed motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120	C1 (General type-Tooth with cloth face) C (General type-Cloth face at both side) N (ESD-Cloth face at both side) N1 (ESD-Tooth with cloth face) K (Anti-slip-Rubber surface) K2 (Anti-slip-Rubber surface) K3 (Anti-slip-Rubber surface) K7 (Anti-slip-Tooth with cloth face)	GPG JSCC No motor ZD No motor S (Leadshine) No motor Servo motor brand S (Leadshine) X (Panasonic) No motor
				SA220 Three phase			
		25	DC24 DC TA220 Single phase	KMC Speed adjustable motor SWS Motor with drive	150 180		
			Motor Series	Control method	Output torque		
86 series stepper motor	CM Open loop CME Closed loop	23 26 31	MC Pulse type IO IO type EC IO type EtherCAT RS RS485				
MH Servo motor	TA220 Single phase	200W					

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length							
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L255 300	L305 500	L505 600	L605 800	L805 900	L905 2000
Speed adjustable motor	BTH01	B80	L800	6	TA220	SCM	12.5	C	G	BTH01	80~110	●	●	●	●	●	●
Stepper motor	BTH01	B80	L800	57	CM	23	MC	C	S	BTH01	115~160	●	●	●	●	●	●
Servo motor	BTH01	B80	L800	MH	TA220	200W	EC	C	X	BTH01	165~210	●	●	●	●	●	●
										BTH01	215~260	●	●	●	●	●	●
										BTH01	265~300	●	●	●	●	●	●

Belt Specification

Underlying Parameter				Conveyor system with transfer module			
Product Application Case				Conveyor			
<ul style="list-style-type: none"> Tooth type:T5 Surface: White polyurethane Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Green nylon cloth Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T5 Surface: ESD Black cloth Tooth face: ESD Black cloth Character:ESD 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD 				
<ul style="list-style-type: none"> Tooth type:T5 Surface: Red rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Yellow rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Green rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Transparent polyurethane Tooth face: Black Green nylon cloth Character:Anti-slip 				
<ul style="list-style-type: none"> Tooth type:T5 Surface: Red rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Yellow rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Green rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Transparent polyurethane Tooth face: Black Green nylon cloth Character:Anti-slip 				

Dual Slots Aluminum Profilee

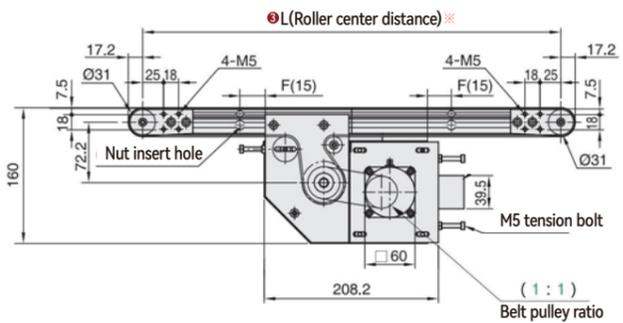
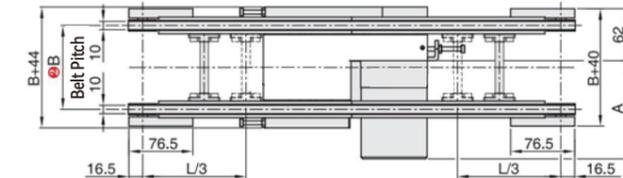
Conveyor Features

Dual lanes timing belt conveyor for pallet or fixture precision transferring, suitable for small load

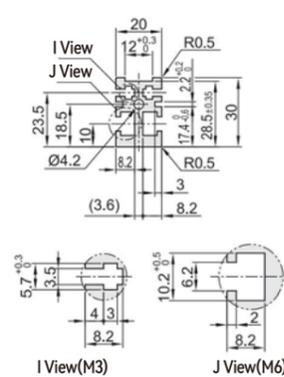


Conveyor Dimensions

Motor Specification: 6W ← Motion Direction



Conveyor Profile Section



▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

365~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	I View	M3 (hexagonal)	Accessory
4PCS	6PCS	8PCS	J View	M6 (square)	Accessory

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque 2.3N.m	2.6N.m	3.1N.m
5	42.4	25.4~42.4	52.8	0~94.2	400	18.8	0~10.4	0~11.8	0~14.0
7.5	28.3	17.0~28.3	35.2	0~62.8	800	37.7	0~5.2	0~5.9	0~7.0
10	21.2	12.7~21.2	26.4	0~47.1	1600	75.4	0~2.6	0~2.9	0~3.5
12.5	17.0	10.2~17.0	21.1	0~37.7	3200	150.7	0~1.3	0~1.5	0~1.8
15	14.1	8.5~14.1	17.6	0~31.4	6400	301.4	0~0.7	0~0.7	0~0.9
18	11.8	7.1~11.8	14.7	0~26.2	12800	602.9	—	—	—
25	8.5	5.1~8.5	10.6	0~18.8	25600	1205.8	—	—	—
30	7.1	4.2~7.1	8.8	0~15.7	51200	2411.5	—	—	—
36	5.9	3.5~5.9	7.3	0~13.1	—	—	—	—	—
50	4.2	2.5~4.2	5.3	0~9.4	—	—	—	—	—
60	3.5	2.1~3.5	4.4	0~7.9	—	—	—	—	—

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition:B=80 L=800

▲ Speed calculation formula
1. Drive roller diameter D=50mm
2. Speed adjustable motor RPM=1350r/min
3. Frequency motor RPM=1680r/min
4. Brushless motor RPM=3000r/min
5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{50 \times 3.14 \times 1350 \times 1}{11 \times 1000}$$

$$S = 12.5 \times 1000$$

$$S = 16.956 \text{m/min}$$

▲ Test Condition:B=80 L=800 Current:5A

▲ Speed calculation formula
1. Drive roller diameter D=50mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{50 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 18.84 \text{m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BTM01	Baffle alignment type for small load	Cloth tooth surface to reduce noise support precision positioning and transferring	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Motor Options					Belt Spec	Motor Brand
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio			
BTM01	80~300 Min.Step (5mm)	6 25	TA220 Single phase	IM Fix-speed motor	5 7.5 10 12.5 15	C (General type-Tooth with cloth face)	GPG JSCC No motor	
				SCM Speed adjustable motor	18 25 30 36 50			
		SA220 Three phase	INV VFD type	60 75 90 100 120	C1 (General type-Cloth face at both side)			
		DC24 DC TA220 Single phase	KMC Speed adjustable motor SWS Motor with drive	150 180	N (ESD-Cloth face at both side)			
		86 series stepper motor	CM Open loop CME Closed loop	23 26 31	MC Pulse type IO IO type	N1 (ESD-Tooth with cloth face)	ZD No motor	
		MH Servo motor	TA220 Single phase	200W	EC IO type EtherCAT RS RS485	K (Anti-slip-Rubber surface) K2 (Anti-slip-Rubber surface) K3 (Anti-slip-Rubber surface) K7 (Anti-slip-Tooth with cloth face)	S (Leadshine) No motor S (Leadshine) X (Panasonic) No motor	

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length								
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L365	L505	L605	L805	L905	L1005	L2000
Speed adjustable motor	BTM01	B80	L800	6	TA220	SCM	12.5	C	G	BTM01	80~110	●	●	●	●	●	●	●
Stepper motor	BTM01	B80	L800	57	CM	23	MC	C	S	BTM01	115~160	●	●	●	●	●	●	●
Servo motor	BTM01	B80	L800	MH	TA220	200W	EC	C	X	BTM01	165~210	●	●	●	●	●	●	●
										BTM01	215~260	●	●	●	●	●	●	●
										BTM01	265~300	●	●	●	●	●	●	●

Belt Specification

Underlying Parameter				Conveyor for fixture pressing process			
Product Application Case							
<ul style="list-style-type: none"> Tooth type:T5 Surface: White polyurethane Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Green nylon cloth Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T5 Surface: ESD Black cloth Tooth face: ESD Black cloth Character:ESD 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD 				
C	C1	N	N1				
Underlying Parameter							
<ul style="list-style-type: none"> Tooth type:T5 Surface: Red rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Yellow rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Green rubber 2mm Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T5 Surface: Transparent polyurethane Tooth face: Black Green nylon cloth Character:Anti-slip 				
K	K2	K3	K7				

Three Slots Aluminum Profile

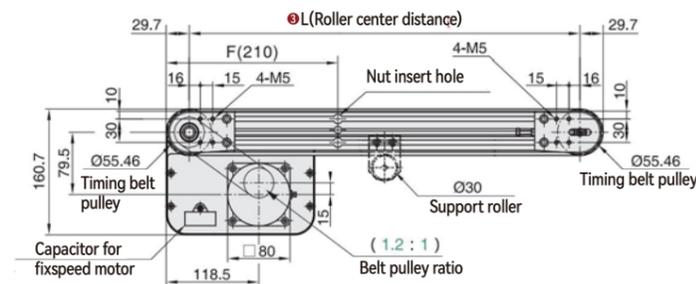
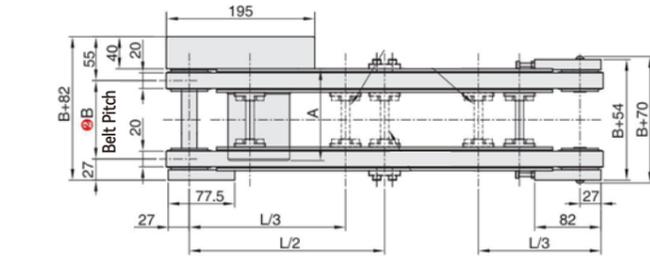
Conveyor Features

Dual lanes timing belt conveyor for pallet or fixture precision transferring, suitable for medium load

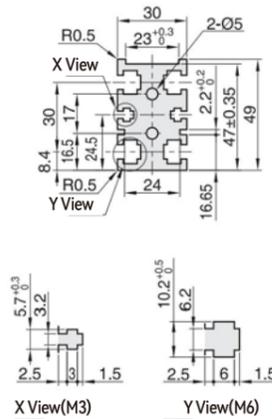


Conveyor Dimensions

Motor Specification: 25W **Motion Direction**



Conveyor Profile Section

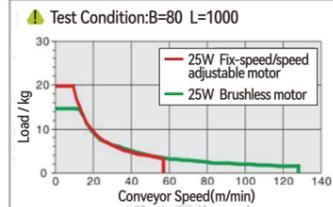


▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

265~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	X View	M3 (hexagonal)	Accessory
4PCS	6PCS	8PCS	Y View	M6 (square)	Accessory

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)								
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque			86 series stepper motor torque			
5	58.0	34.8~58.0	72.2	0~128.9	400	25.8	2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m	12.0N.m	—
7.5	38.7	23.2~38.7	48.1	0~85.9	800	51.5	0~3.1	0~3.6	0~4.3	0~6.2	0~11.0	0~16.5	—
10	29.0	17.4~29.0	36.1	0~64.4	1600	103.1	0~1.6	0~1.8	0~2.1	0~3.1	0~5.5	0~8.3	—
12.5	23.2	13.9~23.2	28.9	0~51.5	3200	206.2	0~0.8	0~0.9	0~1.1	0~1.5	0~2.8	0~4.1	—
15	19.3	11.6~19.3	24.1	0~43.0	6400	412.4	0~0.4	0~0.4	0~0.5	0~0.8	0~1.4	0~2.1	—
18	16.1	9.7~16.1	20.0	0~35.8	12800	824.7	—	—	—	—	—	—	—
25	11.6	7.0~11.6	14.4	0~25.8	25600	1649.5	—	—	—	—	—	—	—
30	9.7	5.8~9.7	12.0	0~21.5	51200	3299.0	—	—	—	—	—	—	—
36	8.1	4.8~8.1	10.0	0~17.9	—	—	—	—	—	—	—	—	—
50	5.8	3.5~5.8	7.2	0~12.9	—	—	—	—	—	—	—	—	—
60	4.8	2.9~4.8	6.0	0~10.7	—	—	—	—	—	—	—	—	—

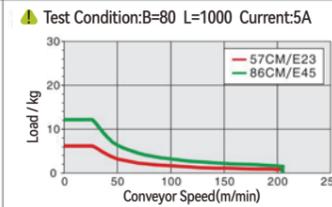


▲ Speed calculation formula

- Drive roller diameter D=57mm
- Speed adjustable motor RPM=1350r/min
- Frequency motor RPM=1680r/min
- Brushless motor RPM=3000r/min
- Belt pulley ratio i=1.2:1

$$S = \frac{D \times \pi \times R \times i}{11 \times 1000}$$

$$S = \frac{57 \times 3.14 \times 1350 \times 1.2}{11 \times 1000} = 23.195808 \text{ m/min}$$



▲ Speed calculation formula

- Drive roller diameter D=57mm
- Pulse quantity=400
- Stepper motor angle J=1.8°
- Belt pulley ratio i=1.2:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i}{1000}$$

$$S = \frac{57 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1.2}{1000} = 25.77312 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BTJ01	Baffle alignment type for small load	Cloth tooth surface to reduce noise support precision positioning and transferring	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand		
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio				
BTJ01	80~300 Min.Step (5mm)	265~3000	25	TA220	IM Fix-speed motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	C (General type- White polyurethane) C1 (General type-Cloth+ Green polyurethane) C2 (General type- White polyurethane)	GPG JSCC No motor	
			40	SA220	SCM Speed adjustable motor				
			25	DC24	KMC Speed adjustable motor				
			40	TA220	INV VFD type Motor with drive				
			57 series stepper motor	CM Open loop	23 26 31				MC Pulse type
			86 series stepper motor	CME Closed loop	45 80 120				IO IO type
Motor Series		Control method		Output torque		Drive type			
MH Servo motor		TA220 Single phase		400W 750W		RS RS485			

※ Recommend motor brand JSCC

Model code example

Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand
Speed adjustable motor	BTJ01	B80	L1000	25	TA220	SCM	12.5	C	G
Stepper motor	BTJ01	B80	L1000	57	CM	23	MC	C	S
Servo motor	BTJ01	B80	L1000	MH	TA220	400W	EC	C	X

Recommend belt width and conveyor length

Model	B	L265	L305	L505	L605	L805	L905
		300	500	600	800	900	3000
BTJ01	80~100	●	●	●	●	●	●
	110~150	●	●	●	●	●	●
	160~200	●	●	●	●	●	●
	210~250	●	●	●	●	●	●
	260~300	●	●	●	●	●	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Tooth type:T10 Surface: White polyurethane Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Green nylon cloth Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: White polyurethane Tooth face: Black nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD
C	C1	C2	N
Underlying Parameter			
<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Red polyurethane Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Yellow polyurethane Tooth face: Green nylon cloth Character:Anti-slip
N1	K	K1	K2

Conveyor for pallet unloading

Product Application Case

Lifting unloading module

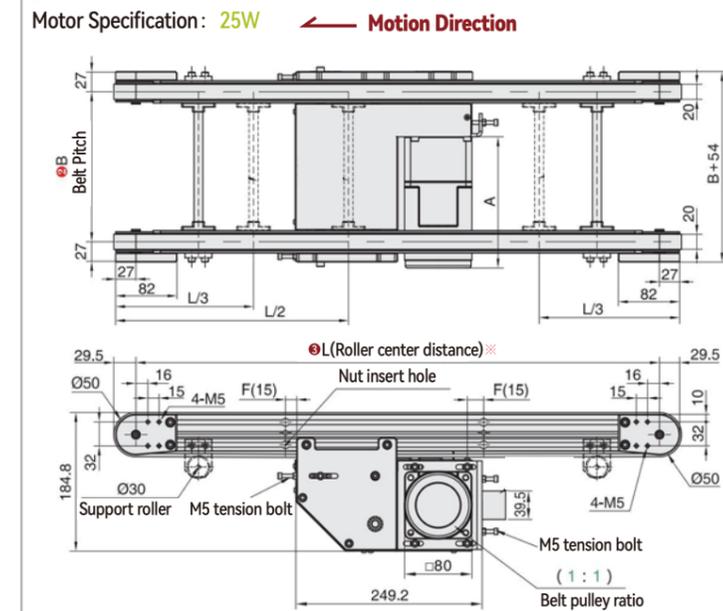
Three Slots Aluminum Profilee

Conveyor Features

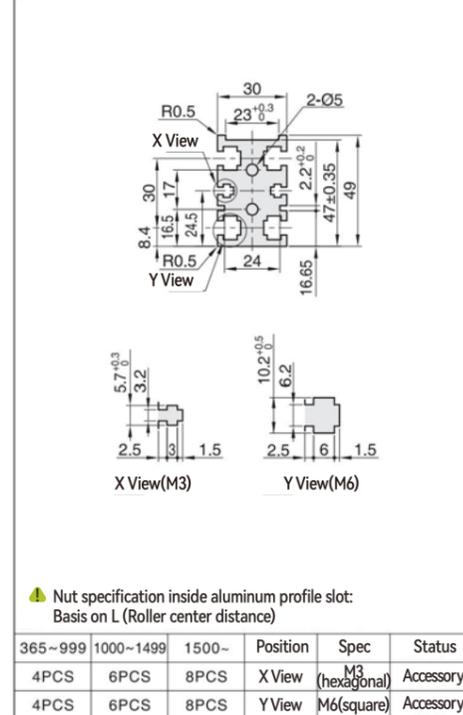
Dual lanes timing belt conveyor for pallet or fixture precision transferring, suitable for medium load



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)								
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque			86 series stepper motor torque			
5	48.3	29.0~48.3	60.1	0~107.4	400	21.5	2.3N.m	2.6N.m	3.1N.m	4.5N.m	8.0N.m	12.0N.m	-
7.5	32.2	19.3~32.2	40.1	0~71.6	800	43.0	0~4.5	0~5.1	0~6.1	0~8.9	0~15.9	0~23.8	-
10	24.2	14.5~24.2	30.1	0~53.7	1600	85.9	0~2.3	0~2.6	0~3.1	0~4.5	0~7.9	0~11.9	-
12.5	19.3	11.6~19.3	24.1	0~43.0	3200	171.8	0~1.1	0~1.3	0~1.5	0~2.2	0~4.0	0~6.0	-
15	16.1	9.7~16.1	20.0	0~35.8	6400	343.6	0~0.6	0~0.6	0~0.8	0~1.1	0~2.0	0~3.0	-
18	13.4	8.1~13.4	16.7	0~29.8	12800	687.3	-	-	-	-	-	-	-
25	9.7	5.8~9.7	12.0	0~21.5	25600	1374.6	-	-	-	-	-	-	-
30	8.1	4.8~8.1	10.0	0~17.9	51200	2749.1	-	-	-	-	-	-	-
36	6.7	4.0~6.7	8.4	0~14.9	-	-	-	-	-	-	-	-	-
50	4.8	2.9~4.8	6.0	0~10.7	-	-	-	-	-	-	-	-	-
60	4.0	2.4~4.0	5.0	0~8.9	-	-	-	-	-	-	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

Test Condition: B=80 L=1000 Current:5A

Speed calculation formula

1. Drive roller diameter D=57mm
2. Speed adjustable motor RPM=1350/min
3. Frequency motor RPM=1680/min
4. Brushless motor RPM=3000/min
5. Belt pulley ratio i2=1.2:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{57 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 19.32984 \text{ m/min}$$

Speed calculation formula

1. Drive roller diameter D=57mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i2=1.2:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{57 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 21.4776 \text{ m/min}$$

Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BTN01	Baffle alignment type for small load	Cloth tooth surface to reduce noise support precision positioning and transferring	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio		
BTN01	80~300 Min.Step (5mm)	25 40	TA220 Single phase	IM Fix-speed motor	5 7.5 10 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	C (General type- White polyurethane) C1 (General type-Cloth+ Green polyurethane) C2 (General type- White polyurethane) N (ESD-Cloth+ Black polyurethane) N1 (ESD- Black polyurethane) K (Anti-slip- Red polyurethane) K1 (Anti-slip- Black polyurethane) K2 (Anti-slip- Yellow polyurethane)	GPG JSSC No motor ZD No motor
				SA220 Three phase			
		25 40	DC24 DC TA220 Single phase	KMC Speed adjustable motor	7 Drive type		
				SWS Motor with drive			
		57 series stepper motor	CM Open loop	23 26 31	MC Pulse type		
		86 series stepper motor	CME Closed loop	45 80 120	IO IO type		
					EC IO type EtherCAT		
					RS RS485		
		MH Servo motor	TA220 Single phase	400W 750W			

Default type: pulse type

Recommend motor brand JSSC

Model code example										Recommend belt width and conveyor length								
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L365 500	L505 600	L605 800	L805 900	L905 1000	L1005 3000	
Speed adjustable motor	BTN01	B80	L1000	25	TA220	SCM	12.5	C	G	BTN01	80~100	●	●	●	●	●	●	
Stepper motor	BTN01	B80	L1000	57	CM	23	MC	C	S		110~150	●	●	●	●	●	●	●
Servo motor	BTN01	B80	L1000	MH	TA220	400W	EC	C	X		160~200	●	●	●	●	●	●	●
											210~250	●	●	●	●	●	●	●
										260~300	●	●	●	●	●	●	●	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Tooth type:T10 Surface: White polyurethane Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Green nylon cloth Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: White polyurethane Tooth face: Black nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD
Underlying Parameter			
<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Red polyurethane Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Yellow polyurethane Tooth face: Green nylon cloth Character:Anti-slip

Conveyor for fixture lifting and operating

Product Application Case

XY transfer module

Stopper

Dual Slots Aluminum Profilee

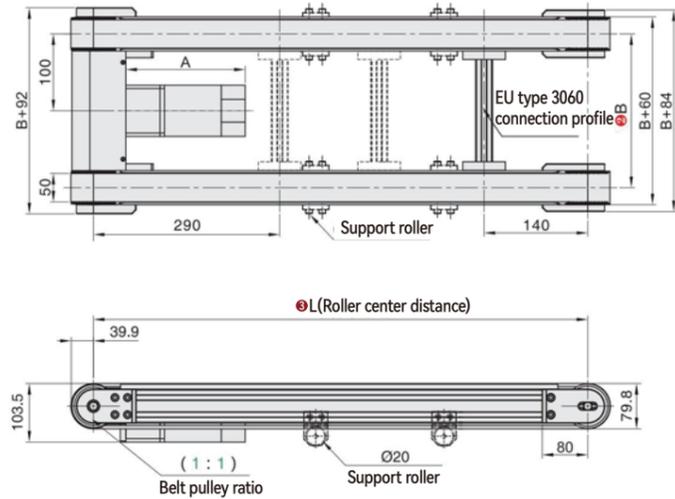
Conveyor Features

Dual lanes timing belt conveyor for pallet or fixture precision transferring, suitable for big load

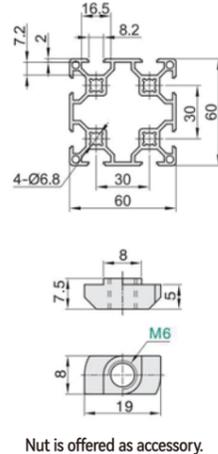


Conveyor Dimensions

Motor Specification: 90W ← Motion Direction



Conveyor Profile Section



▲ Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

500~999	1000~1499	1500~	Position	Spec	Status
16PCS	24PCS	32PCS	-	M6(T type)	Accessory

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	57 series stepper motor torque 2.3N.m	2.6N.m	3.1N.m
5	64.4	38.7~64.4	80.2	0~143.2	400	28.6	0~6.6	0~7.5	0~9.0
7.5	43.0	25.8~43.0	53.5	0~95.5	800	57.3	0~3.3	0~3.8	0~4.5
10	32.2	19.3~32.2	40.1	0~71.6	1600	114.5	0~1.7	0~1.9	0~2.3
12.5	25.8	15.5~25.8	32.1	0~57.3	3200	229.1	0~0.8	0~0.9	0~1.1
15	21.5	12.9~21.5	26.7	0~47.7	6400	458.2	0~0.4	0~0.5	0~0.6
18	17.9	10.7~17.9	22.3	0~39.8	12800	916.4	-	-	-
25	12.9	7.7~12.9	16.0	0~28.6	25600	1832.8	-	-	-
30	10.7	6.4~10.7	13.4	0~23.9	51200	3665.5	-	-	-
36	8.9	5.4~8.9	11.1	0~19.9	-	-	-	-	-
50	6.4	3.9~6.4	8.0	0~14.3	-	-	-	-	-
60	5.4	3.2~5.4	6.7	0~11.9	-	-	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition:B=80 L=1000

▲ Speed calculation formula
1. Drive roller diameter D=76mm
2. Speed adjustable motor RPM=1350r/min
3. Frequency motor RPM=1680r/min
4. Brushless motor RPM=3000r/min
5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{76 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 25.77312 \text{ m/min}$$

▲ Test Condition:B=80 L=1000 Current:5A

▲ Speed calculation formula
1. Drive roller diameter D=76mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{76 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 28.6368 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BTR01	Baffle alignment type for small load	Cloth tooth surface to reduce noise support precision positioning and transferring	Forward/Reverse transfer		Alloy		Surface electrophoresis		Painting	

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Spec	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type		
BTR01	200~600	Min.Step (5mm)	500~5000	60	TA220	IM Fix-speed motor	5 7.5 10 12.5 15	C(General type- White polyurethane)
				90	SA220	SCM Speed adjustable motor		
				120	SA220	INV VFD type	60 75 90 100 120	C1(General type-Cloth+ Green polyurethane)
				60	DC24 DC	KMC Speed adjustable motor	150 180	C2(General type- White polyurethane)
				90	TA220	SWS Motor with drive		N(ESD-Cloth+ Black polyurethane)
				57 series stepper motor	CM Open loop	23 26 31	MC Pulse type	N1(ESD- Black polyurethane)
	CME Closed loop		IO IO type	K(Anti-slip- Red polyurethane)				
			EC IO typeEtherCAT	K1(Anti-slip- Black polyurethane)				
			RS RS485	K2(Anti-slip- Yellow polyurethane)				
				▲ Default type: pulse type				

※ Recommend motor brand JSCC

Model code example									
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand
Speed adjustable motor	BTR01	B200	L1000	90	TA220	SCM	12.5	C	G
Stepper motor	BTR01	B200	L1000	57	CM	23	MC	C	S
Servo motor	BTR01	B200	L1000	MH	TA220	400W	EC	C	X

Recommend belt width and conveyor length						
Model	B	L500	L1005	L2005	L3005	L4005
BTR01	200~300	●	●	●	●	●
	310~400	●	●	●	●	●
	410~500	●	●	●	●	●
	510~600	●	●	●	●	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Tooth type:T10 Surface: White polyurethane Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Green nylon cloth Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: White polyurethane Tooth face: Black nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD
Underlying Parameter			
<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Red polyurethane Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Yellow polyurethane Tooth face: Green nylon cloth Character:Anti-slip

Conveyor for pallet stacking

Product Application Case

Stacking module
Height sensor
Pallet

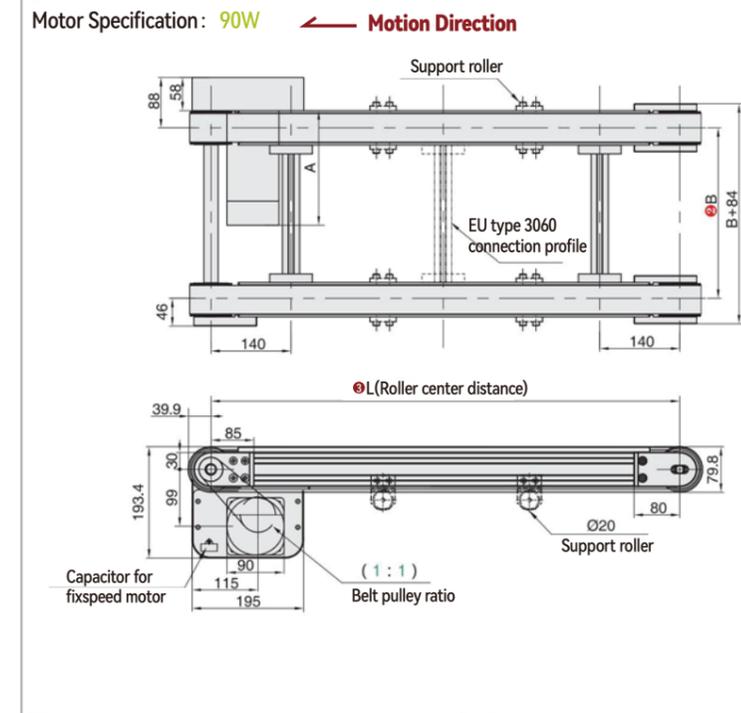
Dual Slots Aluminum Profilee

Conveyor Features

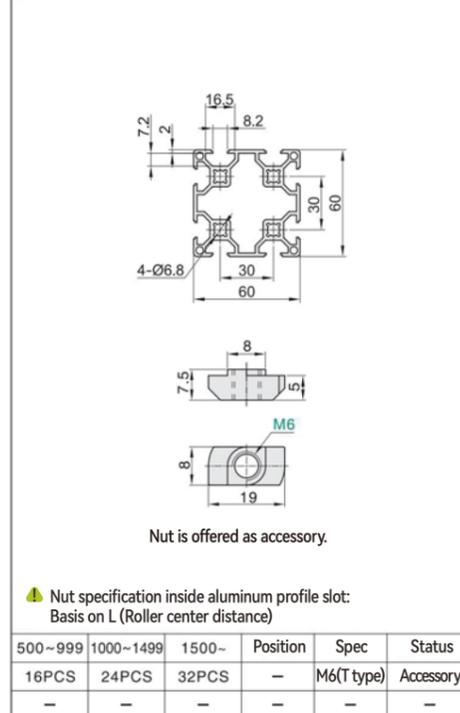
Dual lanes timing belt conveyor for pallet or fixture precision transferring, suitable for big load



Conveyor Dimensions



Conveyor Profile Section



Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)					Form 2: Pulse quality and conveyor speed(m/min)				
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Brushless motor Speed(m/min)	Pulse quantity	Conveyor speed(m/min)	86 series stepper motor torque		
							4.5N.m	8.0N.m	12.0N.m
5	64.4	38.7~64.4	80.2	0~143.2	400	28.6	0~13.2	0~23.6	0~35.6
7.5	43.0	25.8~43.0	53.5	0~95.5	800	57.3	0~6.6	0~11.8	0~17.8
10	32.2	19.3~32.2	40.1	0~71.6	1600	114.5	0~3.3	0~5.9	0~8.9
12.5	25.8	15.5~25.8	32.1	0~57.3	3200	229.1	0~1.7	0~3.0	0~4.4
15	21.5	12.9~21.5	26.7	0~47.7	6400	458.2	0~0.8	0~1.5	0~2.2
18	17.9	10.7~17.9	22.3	0~39.8	12800	916.4	-	-	-
25	12.9	7.7~12.9	16.0	0~28.6	25600	1832.8	-	-	-
30	10.7	6.4~10.7	13.4	0~23.9	51200	3665.5	-	-	-
36	8.9	5.4~8.9	11.1	0~19.9	-	-	-	-	-
50	6.4	3.9~6.4	8.0	0~14.3	-	-	-	-	-
60	5.4	3.2~5.4	6.7	0~11.9	-	-	-	-	-

Instrument 1.Set the current as default 2.Set the code on motor drive 3.Default torque can be modified by current setting.

▲ Test Condition: B=150 L=1000

▲ Speed calculation formula

1. Drive roller diameter D=76mm
2. Speed adjustable motor RPM=1350r/min
3. Frequency motor RPM=1680r/min
4. Brushless motor RPM=3000r/min
5. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{11 \times 1000}$$

$$S = \frac{76 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 25.77312 \text{ m/min}$$

▲ Test Condition: B=150 L=1000 Current: 5A

▲ Speed calculation formula

1. Drive roller diameter D=76mm
2. Pulse quantity=400
3. Stepper motor angle J=1.8°
4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times (M \times J / 360 \times 60) \times i2}{1000}$$

$$S = \frac{76 \times 3.14 \times (400 \times 1.8 / 360 \times 60) \times 1}{1000}$$

$$S = 28.6368 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BTP01	Baffle alignment type for small load	Cloth tooth surface to reduce noise support precision positioning and transferring	Forward/Reverse transfer		Alloy			Surface electrophoresis		Painting

Model	L-Conveyor Length 5mm	Motor Options					Belt Spec	Motor Brand
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio			
BTP01	150~600	500~5000	60 90 120	TA220 Single phase	IM Fix-speed motor	5 7.5 10 12.5 15	C (General type- White polyurethane)	GPG JSCC No motor
					SCM Speed adjustable motor			
			60 90	DC24 DC TA220 Single phase	INV VFD type	60 75 90 100 120	C1 (General type-Cloth+ Green polyurethane)	
					KMC Speed adjustable motor			
			86 series stepper motor	CM Open loop CME Closed loop	SWS Motor with drive	150 180	C2 (General type- White polyurethane)	
MH Servo motor	TA220 Single phase	750W	7 Drive type	N (ESD-Cloth+ Black polyurethane)	ZD No motor			

▲ Default type: pulse type

※ Recommend motor brand JSCC

Model code example										Recommend belt width and conveyor length						
Model code example	Conveyor Model	Belt Width	Conveyor Length	Output Power	Voltage	Control Method	Ratio	Belt Type	Motor Brand	Model	B	L500	L1005	L2005	L3005	L4005
Speed adjustable motor	BTP01	B150	L1000	90	TA220	SCM	12.5	C	G	BTP01	150~300	●	●	●	●	●
Stepper motor	BTP01	B150	L1000	86	CM	45	MC	C	S	BTP01	310~400	●	●	●	●	●
Servo motor	BTP01	B150	L1000	MH	TA220	750W	EC	C	X	BTP01	410~500	●	●	●	●	●
										BTP01	510~600	●	●	●	●	●

Belt Specification

Underlying Parameter			
<ul style="list-style-type: none"> Tooth type:T10 Surface: White polyurethane Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Green nylon cloth Tooth face: Green nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: White polyurethane Tooth face: Black nylon cloth Character:General 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD
C	C1	C2	N
Underlying Parameter			
<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: ESD Black cloth Character:ESD 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Red polyurethane Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Black polyurethane Tooth face: Green nylon cloth Character:Anti-slip 	<ul style="list-style-type: none"> Tooth type:T10 Surface: Yellow polyurethane Tooth face: Green nylon cloth Character:Anti-slip
N1	K	K1	K2

Conveyor for pallet feeding and out feeding

Product Application Case

Feeding mechanism
Out feeding mechanism
Pallet with big load
Product inspection module

Single Slot Aluminum Profilee

Conveyor Features

Free flow chain for accumulated pallet transferring, wear-resistant guide profile, easy connection between conveyors, suitable for big load.



Conveyor Dimensions >

Motor Specification: 60W ← Motion Direction

Conveyor Profile Section >

Roller chain

Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

550~999	1000~1499	1500~	Position	Spec	Status
8PCS	12PCS	16PCS	-	M6(square)	Accessory

Conveyor speed and load capability >

Form 1: Gear box ratio and conveyor speed(m/min)				Form 2: Pulse quality and conveyor speed(m/min)			
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Gear box ratio	Brushless motor (m/min)		
5	-	-	-	5	-	-	-
7.5	-	-	-	7.5	-	-	-
10	-	-	-	10	-	-	-
12.5	19.3	11.6~19.3	24.1	12.5	0~43.0	-	-
15	16.1	9.7~16.1	20.0	15	0~35.8	-	-
18	13.4	8.1~13.4	16.7	18	0~29.8	-	-
25	9.7	5.8~9.7	12.0	25	0~21.5	-	-
30	8.1	4.8~8.1	10.0	30	0~17.9	-	-
36	6.7	4.0~6.7	8.4	36	0~14.9	-	-
50	4.8	2.9~4.8	6.0	50	0~10.7	-	-
60	4.0	2.4~4.0	5.0	60	0~8.9	-	-

Test Condition: B=100 L=1000

Speed calculation formula

- Drive roller diameter D=57mm
- Speed adjustable motor RPM=1350r/min
- Frequency motor RPM=1680r/min
- Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{57 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 19.32984 \text{ m/min}$$

Test Condition: B=100 L=1000 Current:5A

Speed calculation formula

- Drive roller diameter D=57mm
- Brushless motor RPM=3000
- Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{57 \times 3.14 \times 3000 \times 1}{12.5 \times 1000}$$

$$S = 42.9552 \text{ m/min}$$

Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BRZ01	Accumulation	Free flow chain allows pallet accumulation	Forward/Reverse transfer		S45C+Nylon	S45C	Alloy	Electrophoresis		Painting

Model	L-Conveyor Length 5mm	Motor Options				Belt Spec	Motor Brand		
		Output Power(W)	Voltage(V)	Motor Type	Gear box ratio				
BRZ01	80~500 Min.Step (5mm)	550~4000	60	TA220 Single phase	IM Fix-speed motor	12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	NL(Black-Nylon) SC(Origin-Carbon Steel) SU(Origin-Stainless Steel)	GPG JSCC No motor	
			90		SCM Speed adjustable motor				
			120		INV VFD type				
		60	DC24 DC TA220 Single phase	KMC Speed adjustable motor					ZD No motor
		90		SWS Motor with drive					
		120							

Recommend motor brand JSCC

Model code example

Model code example	Conveyor Model	Belt Width	Conveyor Length	Motor Power	Voltage	Control Method	Ratio	Chain Material	Motor Brand
Speed adjustable motor	BRZ01	B200	L1000	60	TA220	SCM	12.5	NL	G
Stepper motor	BRZ01	B200	L1000	60	TA220	IM	12.5	SC	G
Servo motor	BRZ01	B200	L1000	60	SA220	INV	12.5	SU	G

Belt Specification

Belt conveyor automated production.

Product Application Case

Lifting mechanism

Product

Customized support

Three Slots Aluminum Profilee

Conveyor Features

Plastic chain adapt to anti-static, corrosion resistance, and non-magnetic properties working environment for medium load part transferring.



Conveyor Dimensions >

Motor Specification: 40W ← Motion Direction

Conveyor Profile Section >

300~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	X View	M3 (hexagonal)	Accessory
4PCS	6PCS	8PCS	Y View	M6(square)	Accessory

Conveyor speed and load capability >

Form 1: Gear box ratio and conveyor speed(m/min)				Form 2: Pulse quality and conveyor speed(m/min)			
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Gear box ratio	Brushless motor (m/min)		
5	48.3	29.0~48.3	60.1	5	0~107.4		
7.5	32.2	19.3~32.2	40.1	7.5	0~71.6		
10	24.2	14.5~24.2	30.1	10	0~53.7		
12.5	19.3	11.6~19.3	24.1	12.5	0~43.0		
15	16.1	9.7~16.1	20.0	15	0~35.8		
18	13.4	8.1~13.4	16.7	18	0~29.8		
25	9.7	5.8~9.7	12.0	25	0~21.5		
30	8.1	4.8~8.1	10.0	30	0~17.9		
36	6.7	4.0~6.7	8.4	36	0~14.9		
50	4.8	2.9~4.8	6.0	50	0~10.7		
60	4.0	2.4~4.0	5.0	60	0~8.9		

▲ Test Condition: B=100 L=1000

▲ Speed calculation formula

- Drive roller diameter D=57mm
- Speed adjustable motor RPM=1350r/min
- Frequency motor RPM=1680r/min
- Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{57 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 19.32984 \text{ m/min}$$

▲ Test Condition: B=100 L=1000 Current:5A

▲ Speed calculation formula

- Drive roller diameter D=57mm
- Brushless motor RPM=3000
- Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{57 \times 3.14 \times 3000 \times 1}{12.5 \times 1000}$$

$$S = 42.9552 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BRT01	With chain guide profile	Adapt to continue transferring	Forward/Reverse transfer		Polyacetal	Nylon	Alloy	Electrophoresis		Painting

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Belt Spec	Motor Brand	
				Output Power(W)	Voltage(V)	Motor Type			
BRT01	20	Min.Step (5mm)	300~3000	25	TA220 Single phase	IM Fix-speed motor	5 7.5 9 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180	NL(Black-Nylon) SC(Origin-Carbon Steel) SU(Origin-Stainless Steel)	GPG JSCC No motor
						SCM Speed adjustable motor			
				40	SA220 Three phase	INV VFD type			
				25	DC24 DC TA220 Single phase	KMC Speed adjustable motor			
						SWS Motor with drive			

※ Recommend motor brand JSCC

Model code example

Model code example	Conveyor Model	Belt Width	Conveyor Length	Motor Power	Voltage	Control Method	Ratio	Chain Material	Motor Brand
Speed adjustable motor	BRT01	B20	L1000	25	TA220	SCM	12.5	H	G
Stepper motor	BRT01	B20	L1000	25	TA220	IM	12.5	H	G
Servo motor	BRT01	B20	L1000	25	SA220	INV	12.5	H	G

Belt Specification

Conveyor for product out feeding

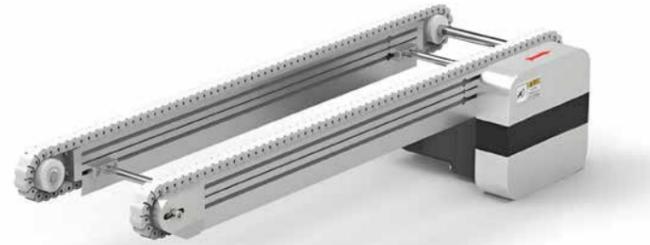
Product Application Case >

Chain Type	Chain Width W (mm)	Chain Weight (KG/M)	Chain Material	Chain Width W (mm)	Working Load N	Link Pin Material
40P Chain	20	0.4	POM	POM	490	SUS
	Pitch(mm)	Link Pin Diameter(mm)	Minimum Curve Radius			
	12.7	4	RD125			

Three Slots Aluminum Profile

Conveyor Features

Plastic chain adapt to anti-static, corrosion resistance, and non-magnetic properties working environment for medium load part transferring.



Conveyor Dimensions

Motor Specification: 40W **Motion Direction** ←

When L is greater than 1005 the connection assembly is installed.

Nut specification inside aluminum profile slot:
Basis on L (Roller center distance)

300~999	1000~1499	1500~	Position	Spec	Status
4PCS	6PCS	8PCS	X View	M3 (hexagonal)	Accessory
4PCS	6PCS	8PCS	Y View	M6(square)	Accessory

Conveyor Profile Section

※ Please do not exceed the allowed conveyor load and length.

Series Code	Type	Conveyor Features			Material			Surface Treatment		
		Application Features	Motion Features		Aluminum Profile	Motor Cover	Pulley Mounting Board	Aluminum Profile	Motor Cover	Pulley Mounting Board
BRT21	With chain guide profile	Adapt to continue transferring	Forward/Reverse transfer		Polyacetal	Nylon	Alloy	Electrophoresis		Painting

Model	Series Code	B-Belt Width	L-Conveyor Length 5mm	Motor Options			Gear box ratio	Belt Spec	Motor Brand
				Output Power(W)	Voltage(V)	Motor Type			
BRT21	80~500	Min.Step (5mm)	300~3000	25	TA220	IM	5 7.5 9 12.5 15	NL(Black-Nylon)	GPG
						Single phase			
				40	SA220	SCM	18 25 30 36 50	JSCC	
						Three phase			Speed adjustable motor
25	DC24	KMC	60 75 90 100 120	ZD					
					DC	Speed adjustable motor			
40	TA220	SWS	150 180	No motor					
					Single phase	Motor with drive			

※ Recommend motor brand JSCC

Model code example

Model code example	Conveyor Model	Belt Width	Conveyor Length	Motor Power	Voltage	Control Method	Ratio	Chain Material	Motor Brand
Speed adjustable motor	BRT21	B80	L1000	25	TA220	SCM	12.5	H	G
Stepper motor	BRT21	B80	L1000	25	TA220	IM	12.5	H	G
Servo motor	BRT21	B80	L1000	25	SA220	INV	12.5	H	G

Conveyor speed and load capability

Form 1: Gear box ratio and conveyor speed(m/min)				Form 2: Pulse quality and conveyor speed(m/min)			
Gear box ratio	Fix-speed motor Speed(m/min)	Speed adjustable motor Speed(m/min)	Frequency motor Speed(m/min)	Gear box ratio	Brushless motor Speed(m/min)		
5	48.3	29.0~48.3	60.1	5	0~107.4		
7.5	32.2	19.3~32.2	40.1	7.5	0~71.6		
10	24.2	14.5~24.2	30.1	10	0~53.7		
12.5	19.3	11.6~19.3	24.1	12.5	0~43.0		
15	16.1	9.7~16.1	20.0	15	0~35.8		
18	13.4	8.1~13.4	16.7	18	0~29.8		
25	9.7	5.8~9.7	12.0	25	0~21.5		
30	8.1	4.8~8.1	10.0	30	0~17.9		
36	6.7	4.0~6.7	8.4	36	0~14.9		
50	4.8	2.9~4.8	6.0	50	0~10.7		
60	4.0	2.4~4.0	5.0	60	0~8.9		

▲ Test Condition: B=100 L=1000

Speed calculation formula
1. Drive roller diameter D=57mm
2. Speed adjustable motor RPM=1350r/min
3. Frequency motor RPM=1680r/min
4. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{57 \times 3.14 \times 1350 \times 1}{12.5 \times 1000}$$

$$S = 19.32984 \text{ m/min}$$

▲ Test Condition: B=100 L=1000 Current:5A

Speed calculation formula
1. Drive roller diameter D=57mm
2. Brushless motor RPM=3000
3. Belt pulley ratio i2=1:1

$$S = \frac{D \times \pi \times R \times i2}{i1 \times 1000}$$

$$S = \frac{57 \times 3.14 \times 3000 \times 1}{12.5 \times 1000}$$

$$S = 42.9552 \text{ m/min}$$

▲ Conveyor speed and load capability are for reference, the data is measured by testing under specific conditions.

Belt Specification

Conveyor for product accumulated transferring

Product Application Case

Chain Type	Chain Width W (mm)	Chain Weight (KG/M)	Chain Material	Chain Width W (mm)	Working Load N	Link Pin Material
40P Chain	20	0.4	POM	POM	490	SUS
	Pitch(mm)	Link Pin Diameter(mm)	Minimum Curve Radius			
	12.7	4	RD125			

Aluminum Profile Support

Adapt conveyor type: BQ/BE series

Series Code	Type	Material				Surface Treatment			
		A:Connection board	B:Support profile	C:Connection board	D:Cup Base	A:Connection board	B:Support profile	C:Connection board	D:Cup Base
BSV01	I Type	SUS201	Aluminum profile	45#	Iron	Origin color	Sandblasting oxidation	Ni plating	Zn plating

Application Instrument

Height adjustable range ±30mm

Type	Series Code	Leg Quantity	L (Minimum step 5mm)	H (Minimum step 5mm)	W (Minimum step 5mm)	E (Minimum step 5mm)
BSV01	1 2	0~1200 When leg quantity is 1 then L=0	200~1200	50~200	When W=50~100, then E=200 When W=101~200, then E=280	

Order Example

Series Code	Leg Quantity	L	H	W	Addition requirements	-JL:
BSV01	2	L800	H800	W200	JL	When changing cup base to roller base;

Adapt conveyor type: Conveyor for medium load

Series Code	Type	Material				Surface Treatment			
		A:Connection board	B:Support profile	C:Connection board	D:Cup Base	A:Connection board	B:Support profile	C:Connection board	D:Cup Base
BSV02	I Type	SUS201	Aluminum profile	45#	Iron	Origin color	Sandblasting oxidation	Ni plating	Zn plating

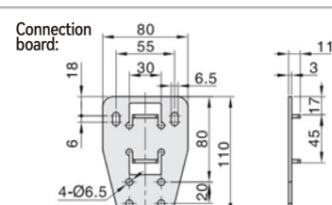
Application Instrument

Height adjustable range ±30mm

Type	Series Code	Leg Quantity	L (Minimum step 5mm)	H (Minimum step 5mm)	W (Minimum step 5mm)
BSV02	1 2	0~1200 When leg quantity is 1 then L=0	300~1300	150~500	

Order Example

Series Code	Leg Quantity	L	H	W	Addition requirements	-JL:
BSV02	2	L800	H800	W200	JL	When changing cup base to roller base;



Adapt conveyor type: conveyor for small load.

Series Code	Type	Material				Surface Treatment			
		A:Connection board	B:Support profile	C:Connection board	D:Cup Base	A:Connection board	B:Support profile	C:Connection board	D:Cup Base
BSV04	I Type	Casting	Aluminum profile	45#	Iron	Origin color	Sandblasting oxidation	Ni plating	Zn plating

Application Instrument

Height adjustable range ±50mm

B: Aluminum profile section

Type	Series Code	Leg Quantity	L (Minimum step 5mm)	H (Minimum step 5mm)	W (Minimum step 5mm)
BSV04	2 3 4	500~4000	300~1200	80~340	

Order Example

Series Code	Leg Quantity	L	H	W	Addition requirements	-JL:
BSV04	2	L1000	H800	W200	JL	When changing cup base to roller base;

Adapt conveyor type: Conveyor for medium load

Series Code	Type	Material				Surface Treatment			
		A:Connection board	B:Support profile	C:Connection board	D:Cup Base	A:Connection board	B:Support profile	C:Connection board	D:Cup Base
BSV06	I Type	Casting	Aluminum profile	45#	Iron	Origin color	Sandblasting oxidation	Ni plating	Zn plating

Application Instrument

Height adjustable range ±60mm

B: Aluminum profile section

Type	Series Code	Leg Quantity	L (Minimum step 5mm)	H (Minimum step 5mm)	W (Minimum step 5mm)
BSV06	2 3 4 5	600~5000	300~1200	100~560	

Order Example

Series Code	Leg Quantity	L	H	W	Addition requirements	-JL:
BSV06	2	L1000	H800	W200	JL	When changing cup base to roller base;

Aluminum Profile Support

Adapt conveyor type: Conveyor for big load

Series Code	Type	Material				Surface Treatment			
		A:Connection board	B:Support profile	C:Connection board	D:Cup Base	A:Connection board	B:Support profile	C:Connection board	D:Cup Base
BSV08	I Type	Casting	Aluminum profile	45#	Iron	Origin color	Sandblasting oxidation	Ni plating	Zn plating

B:Aluminum profile section

Type	Series Code	Leg Quantity	L (Minimum step 5mm)	H (Minimum step 5mm)	W (Minimum step 5mm)
BSV08	2 3 4 5 6	600~6000	400~1500	150~1000	

Order Example	Series Code	Leg Quantity	L	H	W	Addition requirements	JL
BSV08	2	L1000	H800	W200	JL	When changing cup base to roller base;	

Adapt conveyor type: Lifting conveyor

Series Code	Type	Material							
		A:Connection board	B:Support profile	C:Connection board	D:Cup Base	E:Lifting support	F: Stiffener	G: Threaded rod	H: Handwheel
BSV10	Lifting Type	Casting	Aluminum profile	45#	Iron	Aluminum profile	SUS201	Iron(M12)	Casting

E:Aluminum profile section
B:Aluminum profile section

Type	Series Code	Leg Quantity	L (Minimum step 5mm)	H (Minimum step 5mm)	N (Minimum step 5mm)	W (Minimum step 5mm)
BSV10	2	400~1500	600~1400	300~1400	100~400	

Order Example	Series Code	Leg Quantity	L	H	N	W	Addition requirements	JL
BSV10	2	L1000	H800	N800	W200	JL	When changing cup base to roller base;	

Product Guide Accessory

Guide Profile Accessory: General

Series Code	Type	Material				Surface Treatment			
		A:Dish Shape	B:Support Pin	C:Clamping part	D:Connection Pin	A:Dish Shape	B:Support Pin	C:Clamping part	D:Connection Pin
BDS01	T Type	Plastic	#45	Plastic	#45	Black	Ni plating	Black	Ni plating
BDS02	T Type	Metal	Stainless steel	Metal	Stainless steel	--	--	--	--

Type	Series Code	H	L
BDS01		80 100 120 150	80 100 120 150

Order Example	Series Code	H	L
BDS01	H100	L80	

C shape guide profile: General

Series Code	Type	Material		Series Code	Type	Material
		A:Guide profile	B:Support profile			A:Guide part
BDS05	General	PE	Aluminum profile	BDS06	General	Nylon+201

Type	Series Code	L
BDS05	100~3000	

Order Example	Series Code	L
BDS05	L1200	

Type	Series Code	Adapt Type
BDS06	C20	C38

Order Example	Series Code	Type
BDS06	C20	

Speed Controller Mounting Board/Box

Adapt Conveyor Type: General

Series Code	Type	Material
BDS11	General	SUS201

Series Code	Type	Series Code	Series Code	Series Code
BSD11	2 3	120-150	20-40	5.5 6.5 8.5

Order Example

Series code: BDS11

T: 2

E: E125

F: F25

D: D6.5

Speed controller mounting box: Sheet metal welding type

Series Code	Type	Material
BDS12	Welding type	Iron White painting

Bottom through hole for wiring

Series Code	Type	Type
BDS12	H	H

Order Example

Series Code: BDS12

Type: H