DAMON Industry



Flexible Expandable Conveyor

Product Introduction

www.damonroller.com

Version：202609V3(1)-Eu(en)

About Damon Industry



One of the global leading manufacturer of flexible expandable conveyor

With professional experience for decades, Damon Industry provides support for global companies to achieve efficient logistics.

Flexible expandable conveyors are used in a variety of industries including logistics distribution, manufacturing and other industries. It can be moved, expanded, or several sets can be linked by hooks to form longer conveying length, which can reduce labor strength and downsize personnel required. It has advantage in flexibility and movability over fixed conveyors. Flexible expandable conveyors can handle different sizes of boxed package with flat bottom.

We have three types – non-driven roller expandable conveyor, non-driven skate wheel expandable conveyor and motorized roller expandable conveyor. We constantly update and improve the design and its components based on customer's feedback and on-site analysis. Globally we have gained the consistent trust of our customers.

Non-Driven Roller Expandable Conveyor

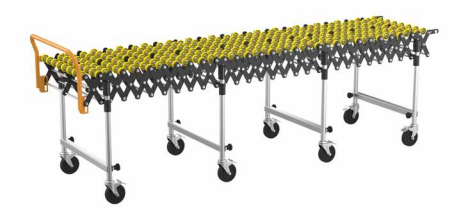
03-04



Conveying surface	Φ38 / 50mm zinc plated steel roller or SS304 roller
Expansion Ratio	1:2.5
Width	FWA-38: 500 / 600 mm，FWAH-50: 600 / 750 / 900mm

Non-Driven Skate Wheel Expandable Conveyor

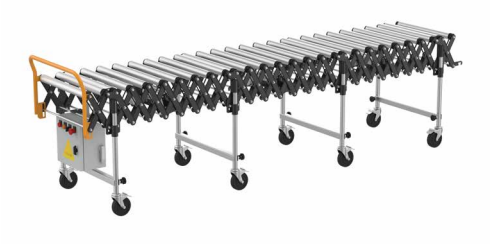
05-06



Conveying surface	Φ48.5mm plastic skatewheel or Φ49mm zinc plated steel skatewheel
Expansion Ratio	1:3
Width	500 / 600 mm

Motorized Roller Expandable Conveyor

07-08



Conveying surface	Φ50 zinc plated steel roller, driven by Poly-vee belt or O-belt
Expansion Ratio	1:2.5
Width	600 / 750 / 900 mm

If you have different width or height requirement, please contact us.

⚠ -Environmental conditions: indoor level ground
-Temperature: 0~40℃
-Humidity: 30%~70% RH without condensation

Non-Driven Roller Expandable Conveyor



- high weight burden
- smooth and quiet running
- suitable for middle or big items

Specifications

Φ38 single roller expandable conveyor

Model	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWA-38	2	980-2480	500 600	700~1000 550~700	80
FWA-38	3	1350-3510			
FWA-38	4	1720-4540			
FWA-38	5	2090-5570			
FWA-38	6	2460-6600			

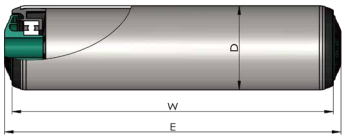
When conveyor is expanded into its Max length, the roller shaft pitch as 120mm.

Φ50 single roller expandable conveyor

Model	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWAH-50	2	1120-2700	600 750 900	700~1000 550~700	100
FWAH-50	3	1540-3800			
FWAH-50	4	1960-4900			
FWAH-50	5	2380-6000			
FWAH-50	6	2800-7100			

When conveyor is expanded into its Max length, the roller shaft pitch as 120mm.

Roller



Tube Dia.(D)	t	Shaft Dia.(d)	Tube Material	
			Zinc plated steel	SS304
Φ38	1.2	Φ12	√	O
Φ50	1.5	Φ12	√	O

- Design of polymer bearing housing and end cap
- Beautiful, quiet operation

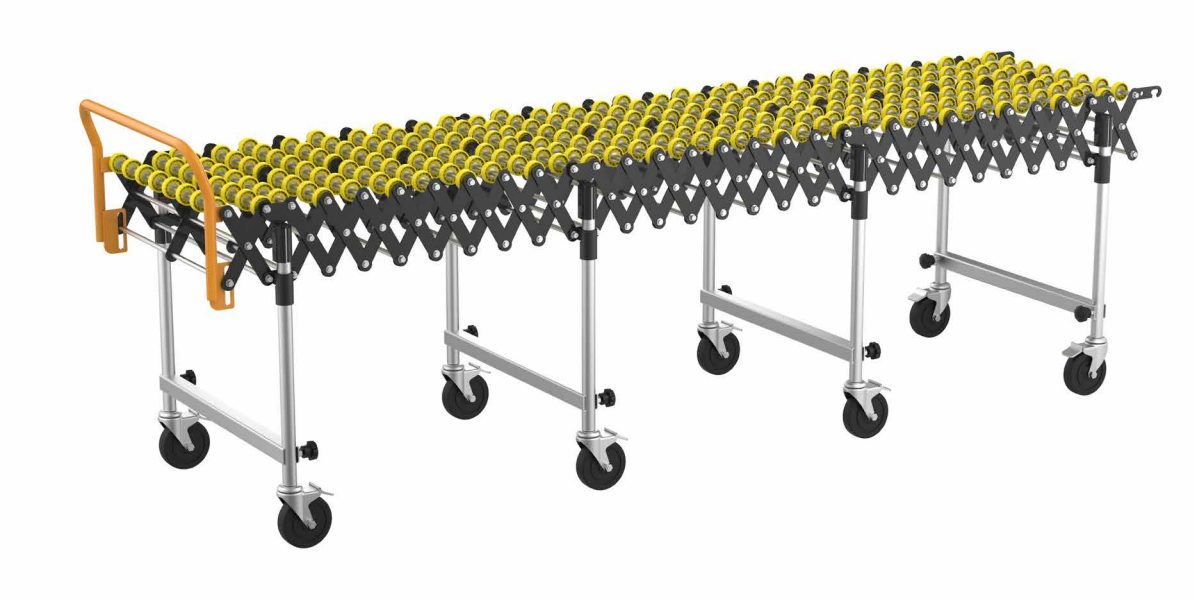
Order Example

FWA — S — 38 — G2 — 60 — 5 — 70

- **FWA** — Model
  - FWA
  - FWAH
- **S** — Roller Material
  - Empty:Zinc Plated Steel
  - S:SS304
- **38** — OD of Roller
  - 38：Φ38
  - 50：Φ50
- **G2** — Optional Configuration
  - Empty:None
  - G2:Guide Wheels
- **60** — Width
  - 50：500
  - 60：600
  - 75：750
  - 90：900
- **5** — Unit No.
  - 2：2 units
  - 3：3 units
  - .....
- **70** — Height
  - 70：700~1000
  - 55：550~700

O——Available Configuration

Non-driven Skate Wheel Expandable Conveyor



- high expansion ratio, space saving
- light weight, fluent rotating
- better for curve situation
- suitable for middle or small items

Specifications

Φ48.5 plastic skatewheel expandable conveyor

- For light weight items, bottom material easy to wear and tear.

Model	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWC-P	2	870-2480	500 600	700~1000 550~700	70
FWC-P	3	1190-3510			
FWC-P	4	1510-4540			
FWC-P	5	1830-5570			
FWC-P	6	2150-6600			

When conveyor is expanded into its Max length, the wheel shaft pitch as 120mm.

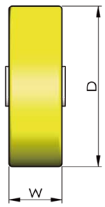
Φ49 steel skate wheel expandable conveyor

- For middle weight items, hard bottom material.

Model	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWC-C	2	870-2480	500 600	700~1000 550~700	70
FWC-C	3	1190-3510			
FWC-C	4	1510-4540			
FWC-C	5	1830-5570			
FWC-C	6	2150-6600			

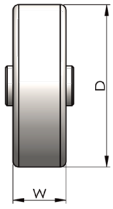
When conveyor is expanded into its Max length, the wheel shaft pitch as 120mm.

Skate wheel



Material	D	W
ABS	Φ48.5	16

plastic skate wheel



Material	D	W
Zinc Plated Steel	Φ49	16

steel skate wheel

Order Example

FWC — **P** — **G2** — **60** — **6** — **70**

- FWC — Model
- P — Skatewheel Material
  - P:Plastic
  - C:Steel
- G2 — Optional Configuration
  - Empty:None
  - G2:Guide Wheels
- 60 — Width
  - 50：500
  - 60：600
- 6 — Unit No.
  - 2：2 units
  - 3：3 units
  - .....
- 70 — Height
  - 70：700~1000
  - 55：550~700

Motorized Roller Expandable Conveyor



- 90W strong power
- forward or reverse rotating
  stepless speed regulation
- linkage control for multiple sets
  three devices can share one power input
- voltage option 220V/380V

Specifications

Motorized Roller Expandable Conveyor (Driven by Poly-vee belt)



- Transport speed as 10-35m/min, Max weight as 60kgs/unit.
  Suitable for straight layout conveying.

Model(Poly-vee belt)	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWDP-50	2	1120-2700			
FWDP-50	3	1540-3800	600		
FWDP-50	4	1960-4900	750	700~1000	60
FWDP-50	5	2380-6000	900		
FWDP-50	6	2800-7100			

When conveyor is expanded into its Max length, the roller shaft pitch as 120mm.

Motorized Roller Expandable Conveyor (Driven by O-belt)

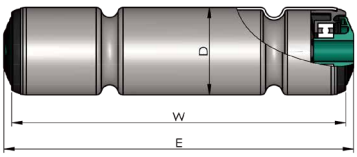


- Transport speed as 10-35m/min, Max weight as 50kgs/unit.
  Suitbale for straight or curve layout conveying.

Model(O-belt)	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWDR-50	2	1120-2700			
FWDR-50	3	1540-3800	600		
FWDR-50	4	1960-4900	750	700~1000	50
FWDR-50	5	2380-6000	900		
FWDR-50	6	2800-7100			

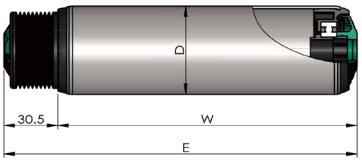
When conveyor is expanded into its Max length, the roller shaft pitch as 120mm.

Roller



Double Grooved Conveyor Roller

Tube Dia.(D)	t	Shaft Dia.(d)	Tube Material	
			Zinc plated steel	SS304
Φ50	1.5	Φ12	√	O



Poly-Vee Conveyor Roller

Tube Dia.(D)	t	Shaft Dia.(d)	Tube Material	
			Zinc plated steel	SS304
Φ50	1.5	Φ12	√	O

*PVC sleeve available for better surface friction.

Order Example

FWDP — S 50 — G2 — 60 — 4 — 70

- FWDP — Model
  - FWDP:Poly-Vee
  - FWDR:O-belt
- S — Roller Material
  - Empty:Zinc Plated Steel
  - S:SS304
  - P:PVC Sleeve
- 50 — OD of Roller
- G2 — Optional Configuration
  - Empty :None
  - G2:Guide Wheels
- 60 — Width
  - 60：600
  - 75：750
  - 90：900
- 4 — Unit No.
  - 2：2 units
  - 3：3 units
  - .....
- 70 — Height
  - 70：700~1000

O——Available Configuration



- Hutchinson Poly-Vee belt



- Handle made by circular tube, can work as package stop.



- Quick Connector,linkage control up to 3 sets 21 meters length



- 3mm side plates, black electrophoretic coating.

- 3mm corner block, punch forming, strong and solid.

- OD125mm nylon brake castor, firm and reliable.

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