Damon Industry

Flexible Expandable Conveyor

Catalogue

www.damonroller.com

Version：202006V1(1)

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 industires. 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 flexiblilty and movability over fixed conveyors. Flexible expandable conveyors can handle different sizes of boxed package with flat bottom.

We have three types – roller expandable conveyor, skatewheel 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
Expansion Ratio	1:2.5 / 1:2
Width	500 / 600 mm

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 O−belt or Poly−vee
Expansion Ratio	1:2
Width	600 / 800 mm

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

⚠ −Environmental conditions: indoor level ground
−Tempreture: 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

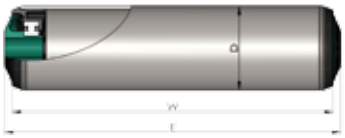
Φ38 single roller expandable conveyor

Model	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWA−38	1	560−1350	500 600	800~1000 700~900	80
FWA−38	2	940−2350			
FWA−38	3	1320−3350			
FWA−38	4	1700−4350			
FWA−38	5	2080−5350			
FWA−38	6	2460−6350			

Φ50 single roller expandable conveyor

Model	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWAH−50	1	700−1290	500 600	800~1000 700~900	100
FWAH−50	2	1180−2260			
FWAH−50	3	1660−3230			
FWAH−50	4	2140−4200			
FWAH−50	5	2620−5170			
FWAH−50	6	3100−6140			

Roller



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

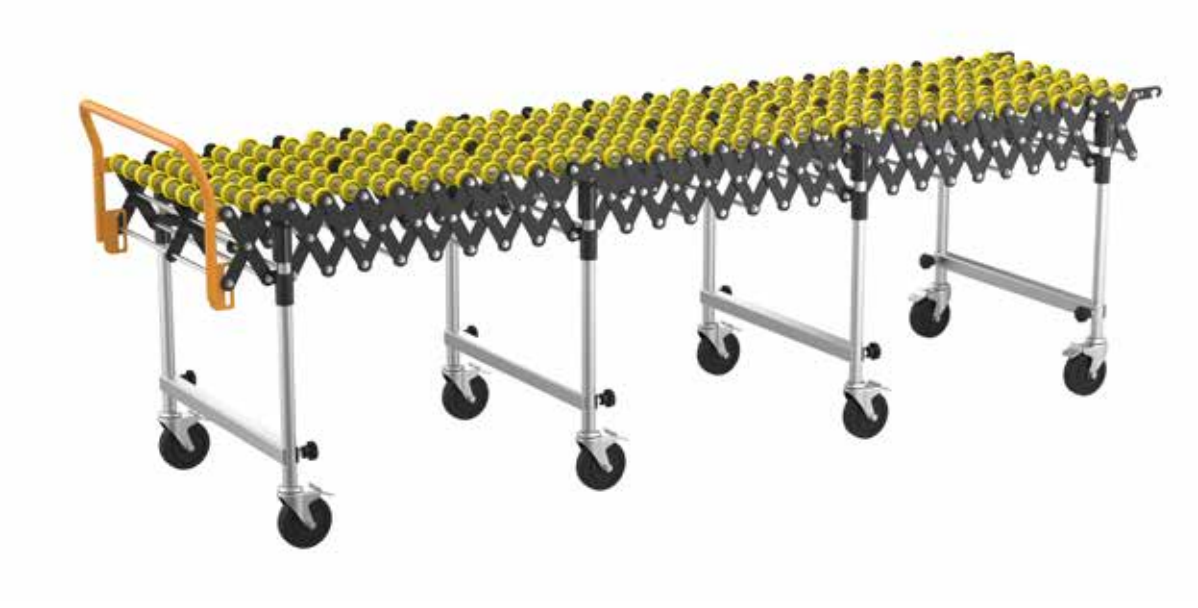
- Design of polymer bearing housing and end cap
- Beautiful, quiet operation

Order Example

FWA — S — 38 — G2 — 60 — 5 — 80

- Model
  - FWA
  - FWAH
- Roller Material
  - Empty:Zinc Plated Steel
  - S:Stainless Steel
- OD of Roller
  - 38：Φ38
  - 50：Φ50
- Optional Configuration
  - Empty:None
  - G2:Guide Wheel Type
  - H:Straight Handle Type
- Width
  - 50：500
  - 60：600
- Unit No.
  - 1：1 unit
  - 2：2 units
  - .....
- Height
  - 80：800~1000
  - 70：700~900

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 wight items, bottom material easy to wear and tear.

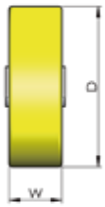
Model	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWC-P	1	499-1395	500 600	800~1000 700~900	70
FWC-P	2	824-2430			
FWC-P	3	1149-3465			
FWC-P	4	1474-4500			
FWC-P	5	1799-5535			
FWC-P	6	2124-6570			

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	1	499-1395	500 600	800~1000 700~900	70
FWC-C	2	824-2430			
FWC-C	3	1149-3465			
FWC-C	4	1474-4500			
FWC-C	5	1799-5535			
FWC-C	6	2124-6570			

Skate wheel



Material	D	W
ABS	Φ48.5	16

plastic skate wheel

Material	D	W
Zinc Plated Steel	Φ49	16

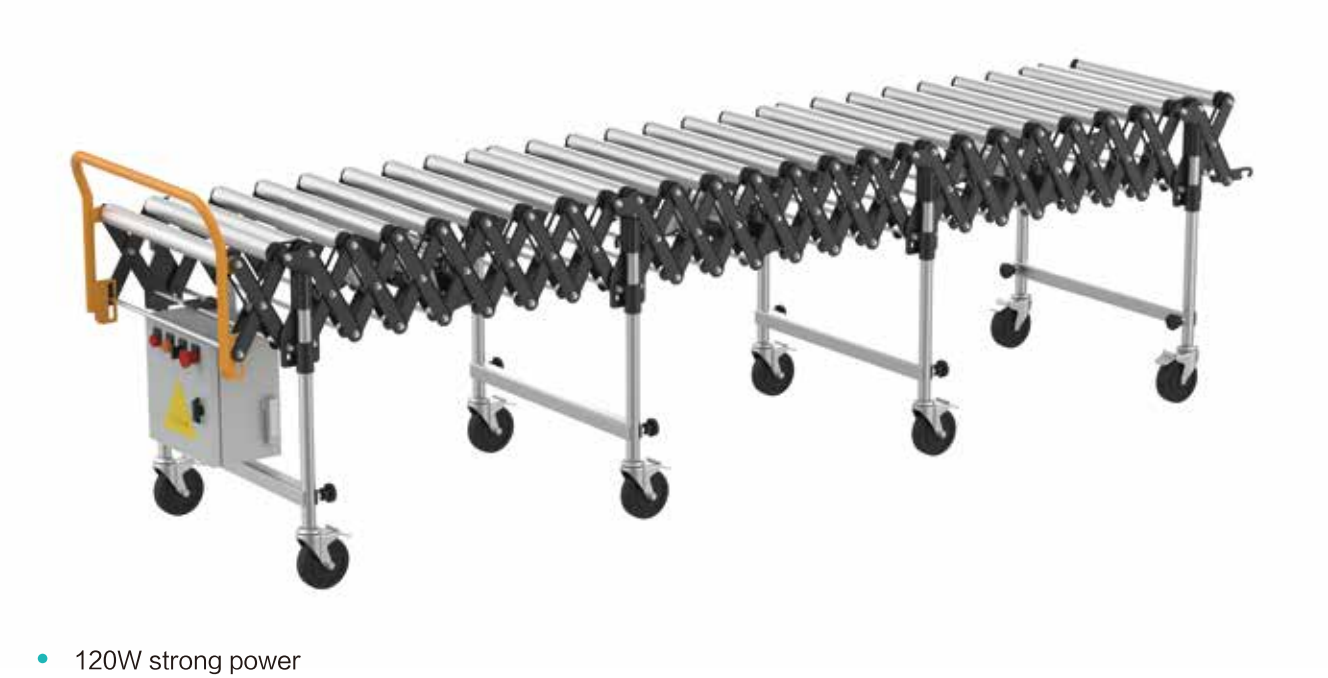
steel skate wheel

Order Example

FWC — P — G2 — 60 — 6 — 80

- **FWC** — Model
- **P** — Skatewheel Material
  - P:Plastic
  - C:Steel
- **G2** — Optional Configuration
  - Empty:None
  - G2:Guide Wheel Type
  - H:Straight Handle Type
- **60** — Width
  - 50：500
  - 60：600
- **6** — Unit No.
  - 1：1 unit
  - 2：2 units
  - .....
- **80** — Height
  - 80：800~1000
  - 70：700~900

Motorized Roller Expandable Conveyor



- 120W strong power
- forward and reverse rotating
- stepless speed regulation
- emergency stop at the front

Specifications

Motorized Roller Expandable Conveyor (Driven by Ploy−vee belt)

- Transport speed as 10−30m/min, Max weight as 60kgs/pc. Suitable for straight conveying.

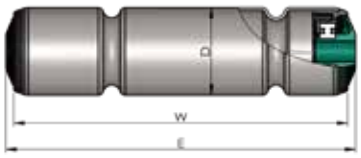
Model(Ploy−vee)	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWDP−50	1	700−1290	600 800	800~1000 700~900	60
FWDP−50	2	1180−2260			
FWDP−50	3	1660−3230			
FWDP−50	4	2140−4200			
FWDP−50	5	2620−5170			
FWDP−50	6	3100−6140			

Motorized Roller Expandable Conveyor (Driven by O-belt)

- Transport speed as 10-25m/min, Max weight as 50kgs/pc. Suitable for straight or curve conveying.

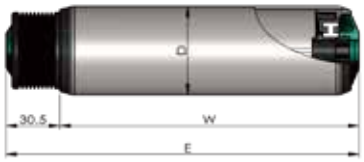
Model	Unit	Length mm	Width mm	Height mm	Load/Unit kg (no shock load)
FWDR-50	1	700-1290	600 800	800~1000 700~900	50
FWDR-50	2	1180-2260			
FWDR-50	3	1660-3230			
FWDR-50	4	2140-4200			
FWDR-50	5	2620-5170			
FWDR-50	6	3100-6140			

Roller



Double Grooved Conveyor Roller

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



Poly-Vee Conveyor Roller

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

Order Example

FWDP — S 50 — G2 — 60 — 4 — 80

- Model
  - FWDP:Poly-Vee
  - FWDR:O-belt
- Roller Material
  - Empty:Zinc Plated Steel
  - S:Stainless Steel
- OD of Roller
- Optional Configuration
  - Empty :None
  - G2:Guide Wheel Type
  - H:Straight Handle Type
- Width
  - 60：600
  - 80：800
- Unit No.
  - 1：1 unit
  - 2：2 units
  - .....
- Height
  - 80：800~1000
  - 70：700~900

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

- OD125mm nylon brake castor, firm and reliable.

- 3mm side plates, black electrophoretic coating.
- 3mm corner block, punch forming, strong and solid.

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