



Brake Roller / Speed Controller

Product Introduction



About Damon Industry



ONE OF THE GLOBAL LEADING MANUFACTURER OF CONVEYOR ROLLERS

-Providing European local manufacturing, sales and services

Damon Industry provides millions pieces of rollers all over the world every year for many industries. With decades' professional experience of conveyor roller, Damon Industry provides support for global companies to achieve efficient logistics.

Damon Industry, since its establishment, has always been committed to providing thehighest quality conveyor rollers and services for a wide range of industries.

Damon Industry has manufacturing bases in Asia, America and Australia, and providing local manufacturing, sales and services. Damon Industry has also set up a manufacturing base in Europe now, and has always been committed to be a high-quality supplier of conveyor rollers.

Damon Industry conveyor rollers are used in a variety of industries including food distribution, pharmacy, tobacco, clothing, postal express, logistics and distribution, manufacturing, rubber and airport industries. Damon Industry provides a vast range of reliable and innovative roller solutions. Our dedicated and experienced team of sales people and application engineers' work with our clients to ensure the products are suitable for the application and help users improve efficiency and reduce costs. We will always focus on supplying outstanding conveyor roller solutions to local and global customers.

Globally we have gained the consistent trust of our customers. These customers include influential equipment manufacturing companies and logistics system integrators. We provide customers with over 40 different products covering a variety of specifications to suit user's different requirements. The customers of using Damon Industry rollers are over Europe, Asia, America, Australia and Africa, and this range is gradually expanding.

We not only provide high-quality rollers, but also provide a full range of quality services for customers all over the world. From introducing the complete information based ERP management system to the independent research and development of the online roller dimensional drawing system service, we are viewing our market from a brand new perspective and are pleased to share our ideas of quality and innovation with every customer.

With the mission of "Creating value for customer's logistics systems", Damon Industry will strive for the vision of becoming "The most influential core components supplier and service provider for the global materials handling industry".

Brake rollers in gravity racks, also known as speed reducers / speed controllers, mainly for eliminating acceleration of gravity by flowing loaded pallets, helping pallets' steady and smooth movement on racks, to ensure safety of operators and goods.

Self-adaption to different weights, Steady braking force, Maintenance-free, Zero energy consumption.

Internal Brake Roller

(BR50/BR60) Internal Brake Roller ————

03-04



Type of application	Cartons, work bins, light objects etc
Weight range	10~100kgs

(BR80) Internal Brake Roller

05-06



Type of application	Wooden pallets, plastic pallets
Weight range	200~1500kgs

External Brake Roller

(BE120) External Brake Roller

07-08



Type of application
Weight range

Wooden pallets, plastic pallets 200~1000kgs

(BT120) Tandem Brake

09–10



Type of application	European standard ,Australian standard pallets,Nine-feet pallets.
Weight range	200~1000kgs

Internal Brake Roller (BR50/BR60)

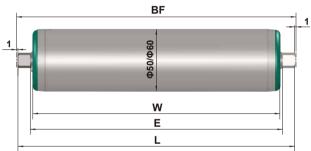


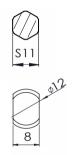
• Suitable for hard and flat bottom object, such as cartons, work bins etc.

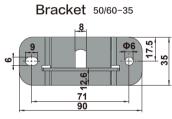


Dimensional Drawing









brackets 2pcs, bolts & nuts 4 sets

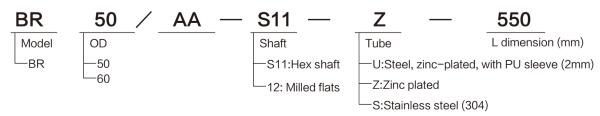
Model	D*T	L Min	LMax			
BR50/AA-S11	50x1.5	145	1250	BF=E	E=L-20	W=L-24
BR50/AA-12	50x1.5	145	1250	BF=L+2	E=L-20	W=L-24
BR60/AA-12	60x1.5	145	1300	BF=L+2	E=L-20	W=L-24

Specifications

Model	D*T	Shaft	Weight Range	Tube	
Wiodo.	,	Onare	vvoigilitikarigo	Steel, zinc plated	SS304
BR50/AA-S11	50x1.5	S11 Hex	10-60kg	√	√
BR50/AA-12	50x1.5	b/h = 8/12 Milled Flats	10-60kg	√	\checkmark
BR60/AA-12	60x1.5	b/h = 8/12 Milled Flats	20-100kg	\checkmark	

^{*} BR50/AA has 2mm PU sleeve lagging providable

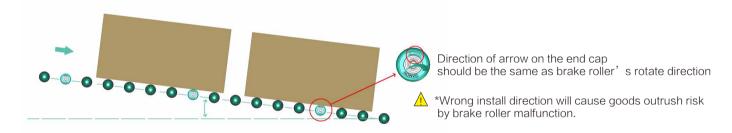
Part No.



Installation Instructions



- 1. Fix one bracket with bolts and nuts at the inner side of rack.
- 2.2. Put the milled flat in the opening socket of fixed bracket, put the other end into another bracket, fix it with bolts and nuts.
- 3.Brake roller's surface should above gravity rollers' surface 1–2mm to ensure the speed controlling effect.



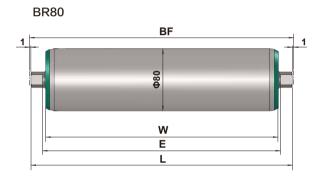
- 1. Gravity roller rack's slope range as 3~12°. Object weight please check specifications table.
- 2. When object entering roller rack with speed, 2~3 pcs extra brake rollers are necessary at the entrance.
- 3. Pitch of adjacent brake rollers should be less than the length of the goods in flow direction, avoid accelerated speed and impact during flowing.
- 4.Please apply few brake rollers in actual weight and slope on gravity rack for test before bulk installation.
- 5. When you meet special application (heavy weight big slope or light weight small slope), please contact us for consultation.
- *Environmental Tempreture: -5°C $\sim +40$ °C, Humidity: 30% ~ 70 % RH without condensation.

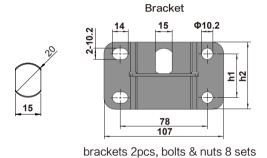


• Suitable for wooden pallets, plastic pallets.



Dimensional Drawing





Model	h1	h2
80-55	30.3	55
80-60	39	60

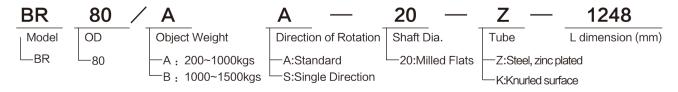
Model	D*T	L Min mm	L Max mm			
BR80/AA	80x2.5	265	1350	BF=L+2	E=L-30	W=L-38
BR80/BA	80x2.5	340	1350	BF=L+2	E=L-30	W=L-38
BR80/AS	80x2.5	265	1350	BF=L+2	E=L-30	W=L-38

Specifications

Model	D*T	Shaft	Weight Range	Tube	
Model		Shart	vveignitrange	Steel, zinc plated	Steel, zinc plated, knurled surface
BR80/AA		b/h = 15/20	200-1000kg	$\sqrt{}$	√
BR80/BA	80x2.5	5/11 10/20	1000-1500kg	\checkmark	√
BR80/AS		Milled Flats	200-1000kg	\checkmark	V

[☆] Knurled surface for better frictional force.

Part No.



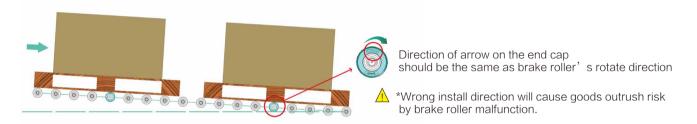
^{*}BR80/AS is suitable for LIFO push-back.

Installation Instructions



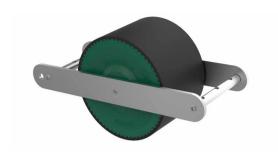


- 1. Fix one bracket (opening socket upward) with bolts and nuts at the inner side of rack.
- 2.Put milled flat in opening socket of fixed bracket, put the other end into another bracket, fix it at the inner side of rack with bolts and nuts.
- 3.Brake roller's surface should above gravity rollers' surface 1-2mm to ensure the speed controlling effect.



- 1. Gravity roller rack's slope range as 1.5~2.3°. Pallet weight please check specifications table.
- 2. Installation pitch of brake rollers should be as the length of the pallet, no impact or accelerated speed is permitted.
- 3. Pitch of adjacent brake rollers should be less than the depth of pallet in flow direction, avoid accelerated speed and impact during flowing.
- 4.Please apply few brake rollers in actual weight and slope on gravity rack for test before bulk installation.
- 5. When you meet special application (heavy weight big slope or light weight small slope), please contact us for consultation.

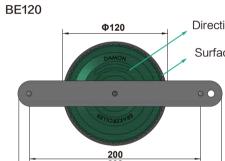
^{*}Environmental Tempreture: -5° C ~ +40°C, Humidity: 30% ~ 70% RH without condensation.



• Suitable for wooden pallets, plastic pallets.



Dimensional Drawing



Direction of arrow on the end cap should be the same as brake roller s rotate direction.

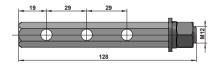
Surface material: PU



Specifications

Model	Weight Range
BE120/AA	200-500kg
BE120/BA	500-1000kg

Accessories

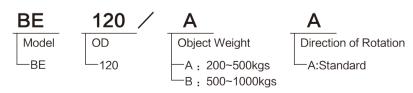






hex rods 2pcs, blots with hole 6pcs, springs 6pcs, nuts 8 pcs, washers 4pcs

Part No.

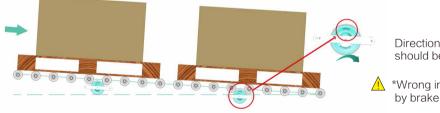


^{*} Mounting accessories are included with the brake roller.

Installation Instructions



- 1. Fix the hex rod with nut at the inner side of gravity roller rack.
- 2.Put 3pcs bolts with hole through 3 round holes on the hex rod, fix them with nuts, then install 3pcs springs at the end holes of bolts. same procedure for another hex rod and 3pcs bolts with hole, 3pcs spring by the other side of gravity roller.
- 3. Connect 3pcs springs with the side 3 holes axle, then the same way for the springs and 3 holes axle at another side. (You may adjust the tension force between brake roller and gravity rollers by screwing the nuts at the bolts with hole.)

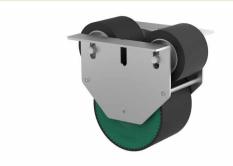


Direction of arrow on the end cap should be the same as brake roller's rotate direction

*Wrong install direction will cause goods outrush risk by brake roller malfunction.

- 1. Gravity roller rack's slope range as 1.5~2.3°. Pallet weight please check specifications table.
- 2. Pitch of adjacent brake rollers should be less than the depth of pallet in flow direction, avoid accelerated speed and impact during flowing.
- 3. Please apply few brake rollers in actual weight and slope on gravity rack for test before bulk installation.
- 4. When you meet special application (heavy weight big slope or light weight small slope), please contact us for consultation.

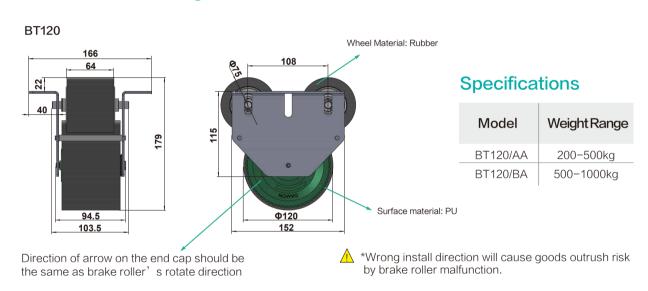
^{*}Environmental Tempreture: -5°C ~ +40°C, Humidity: 30% ~ 70% RH without condensation.



• Suitable for European standard / Australian standard pallets, Nine-feet pallets.

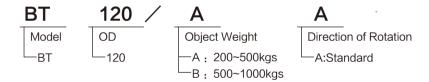


Dimensional Drawing



Order Example

* BT120 tandem brake is suitable for pallet wheel track.



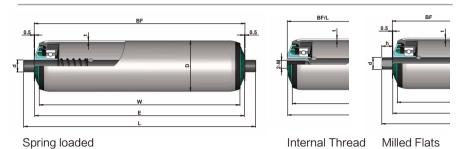
- 1. Gravity wheel flow rack's slope range as $1.5\sim2.3^{\circ}$. Pallet weight please check specifications table.
- 2. Pitch of adjacent brake rollers should be less than the depth of pallet in flow direction, avoid accelerated speed and impact during flowing.
- 3. Please apply few brake rollers in actual weight and slope on gravity rack for test before bulk installation.
- 4. When you meet special application (heavy weight big slope or light weight small slope), please contact us for consultation.

^{*}Environmental Tempreture: -5°C \sim +40°C, Humidity: 30% \sim 70% RH without condensation.

- Design of polymer bearing housing and end cap
- Beautiful, quiet operation
- Light running is available
- Environmental Tempreture: -5°C ~ +40°C
 Humidity: RH≥30%

1200 Series

Polymer Housing Non-Driven Roller

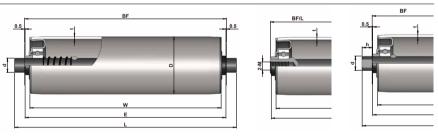


_			Tuþe		
D	t	Shaft	Steel Z/P	SS	
Ф50	1.5	11hex, Ф8/10/12/14	√	√	
Ф60	2.0	11hex, Ф10/12/14/15	√	√	

- Steel bearing housing, precision bearing, sturdy and durable
- Many options of diameter, wide range of load capacity
- Environmental Tempreture: −30°C ~ +80°C

1800 Series

Steel Housing Non-Driven Roller



Spring loaded

Internal Thread Milled Flats

			Tube	e
D	t	Shaft	Steel Z/P	SS
Ф50	1.5	Ф12/15	√	√
Ф60	2.0	Ф12/15/20	√	V

^{*} Please check weight burden of conveyor roller, make sure it comply with our load capacity diagram in catalogue.



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Because the printed copy is updated slowly, so for the newest product informations, pls refer to the official website.