

## Bulk Material Handling Products

### Passive Rolling Brush Sweeper User's Manual

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## ● Passive Rolling Brush Sweeper

Passive Rolling Brush Sweeper is used to sweep the working surface of the belt in the lower part of the return belt or unloading pulley, which belongs to the second or third sweeper.

Through the appropriate contact between the tip of the sweeping Rolling Brush and the belt surface, it can effectively remove the adhering materials on the belt surface, and has the functions of preventing the conveyor belt from deflection, preventing accidents, prolonging the service life of the conveyor belt and the rollers, avoiding dust, improving the environment, and saving the cost, etc.

The bristles are made of high elasticity wear-resistant nylon wire, or anti-static high elasticity nylon wire, wear-resistant rubber and other high-quality materials.

It is suitable for all kinds of conveyors with various bandwidths in all kinds of industries, especially for the patterned belt which is difficult to be sweep with the conventional Sweeper, and it is the most faithful "cleaner" of the belt conveyor.



Heavy Duty  
Structural  
Designs

## ● Features of the new wear-resistant Sweeper

- 1、Featuring easy replacement of wear-resistant Rolling Brushes, quick removal of materials from the belt working surface, and high-performance anti-vibration design.
- 2、Rolling Brush is made of imported nylon wire 8801 material, which has high abrasion resistance. At present, only the United States, Germany and other very few countries can produce.
- 3、Unique tensioning device with high-performance imported bearings, can make the brush in the belt constantly shaking situation, can be closely attached to the belt, always keep close to the belt, adjusting the Rolling Brush fit without disassembling the Sweeper, only need to tighten the top of the flower orchid bolt can be. The Sweeper has obvious sweeping effect and durability, and has been praised by users.
- 4、A total of three Rolling Brushes can be selected to cope with different working conditions.

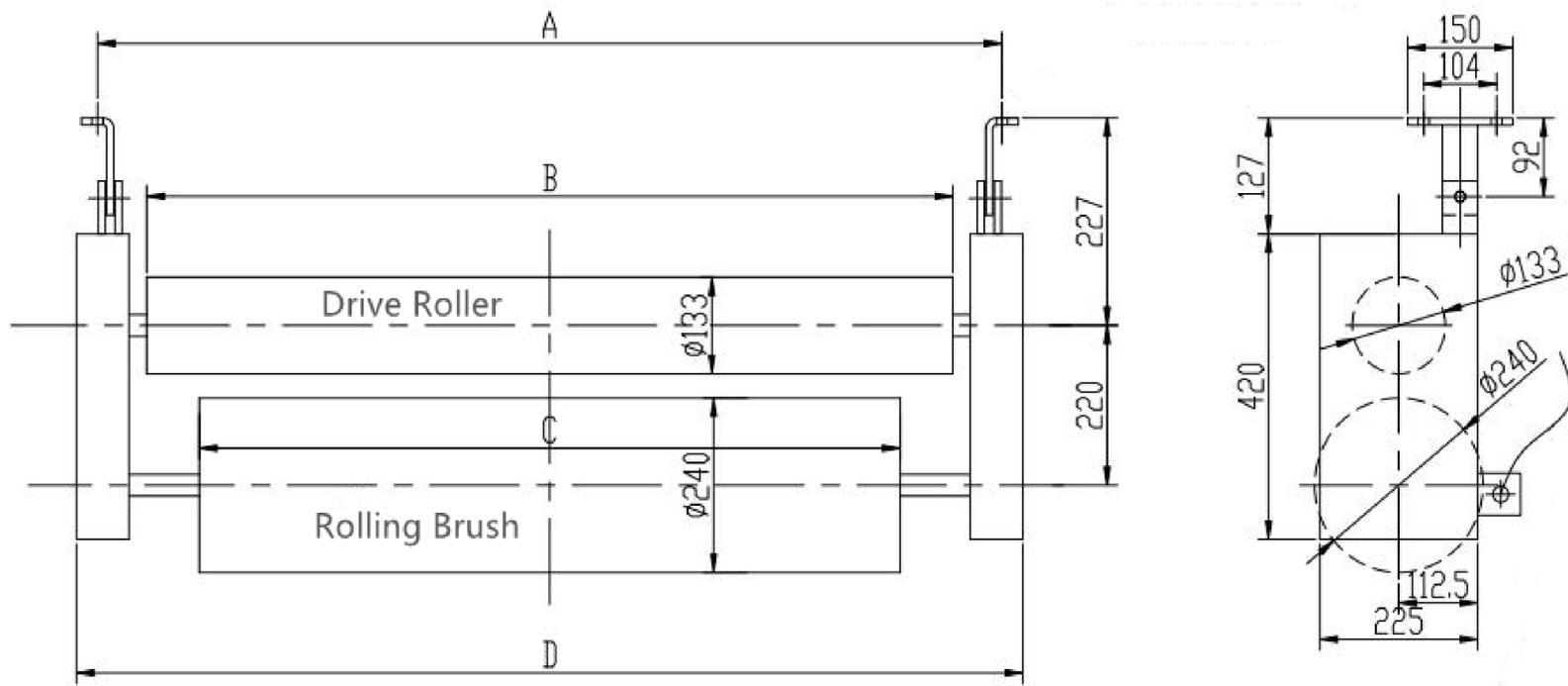
For dry and powdery materials, the Rolling Brush with nylon wire is used.

For wet materials and strong adhesion, use the Mixed Wire Rolling Brush or the Steel Wire Rolling Brush.

The service  
life of the  
Rolling Brush  
is  
approximately  
2,500 hours  
at room  
temperature.



## ● Structure of Sweeper



## ● Technical Parameters

Model No.	SIZE (mm)				Suitable belt width
	A	B	C	D	
500	740	600	500	850	500
650	890	750	650	1000	650
800	1090	950	800	1200	800
1000	1290	1150	1000	1400	1000
1200	1540	1400	1200	1650	1200
1400	1740	1600	1400	1850	1400
1600	1990	1800	1600	2100	1600
1800	2190	2000	1800	2300	1800
2000	2420	2200	2000	2530	2000

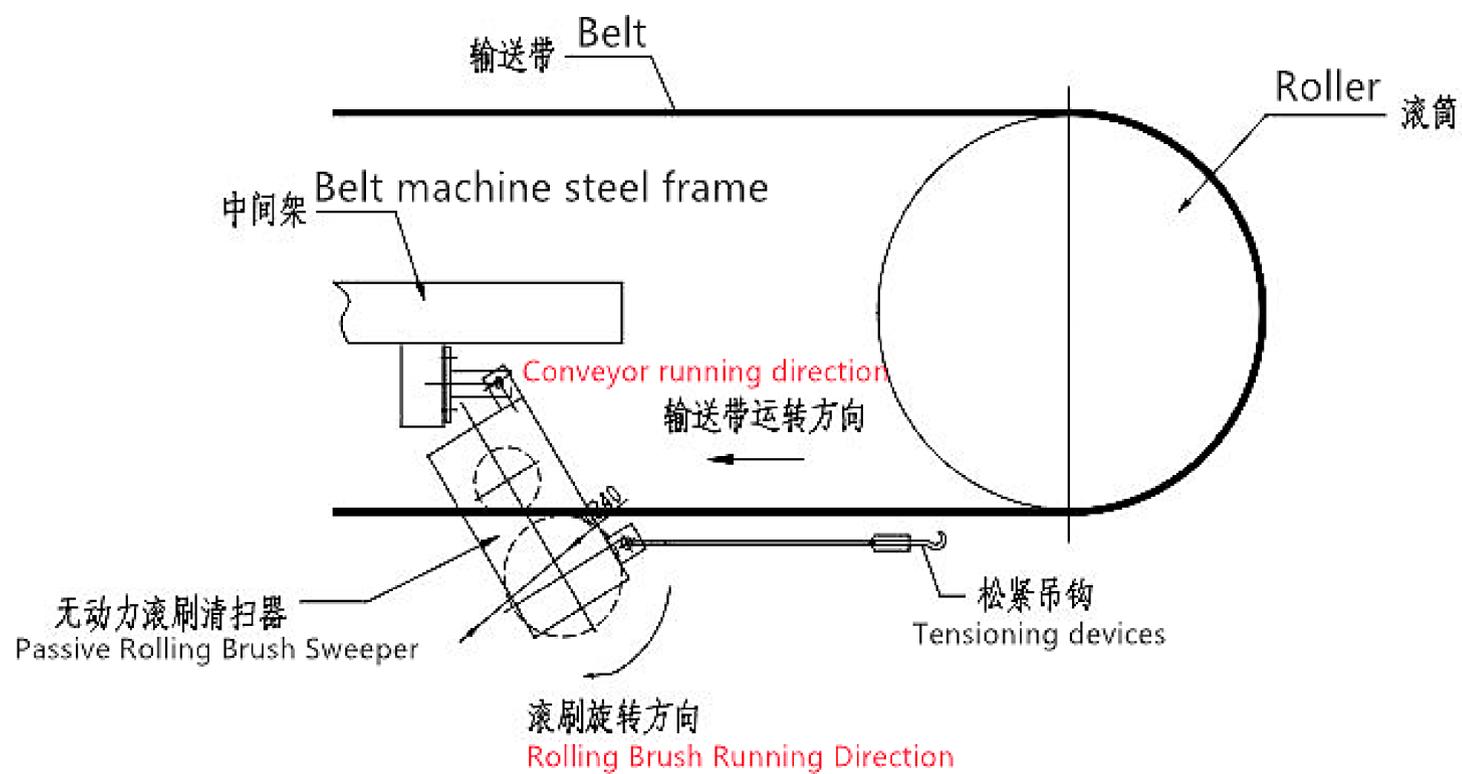
As the products are upgraded from time to time, if there is any change of technical data, our company will not give any notice, please refer to the actual drawings.

## Working Principle

The Sweeper is mounted on the frame of the belt conveyor by two supports so that the drive roller contacts the non-working surface of the return belt of the conveyor and generates appropriate pressure.

When the conveyor is running, the friction force makes the drive roller rotate with the conveyor, and the drive chain drives the sweeping Brush to rotate.

The direction of rotation of the Rolling Brush is opposite to the direction of the return belt, so that the adherents adhering to the working surface of the return belt can be swept down to achieve the purpose of sweeping.



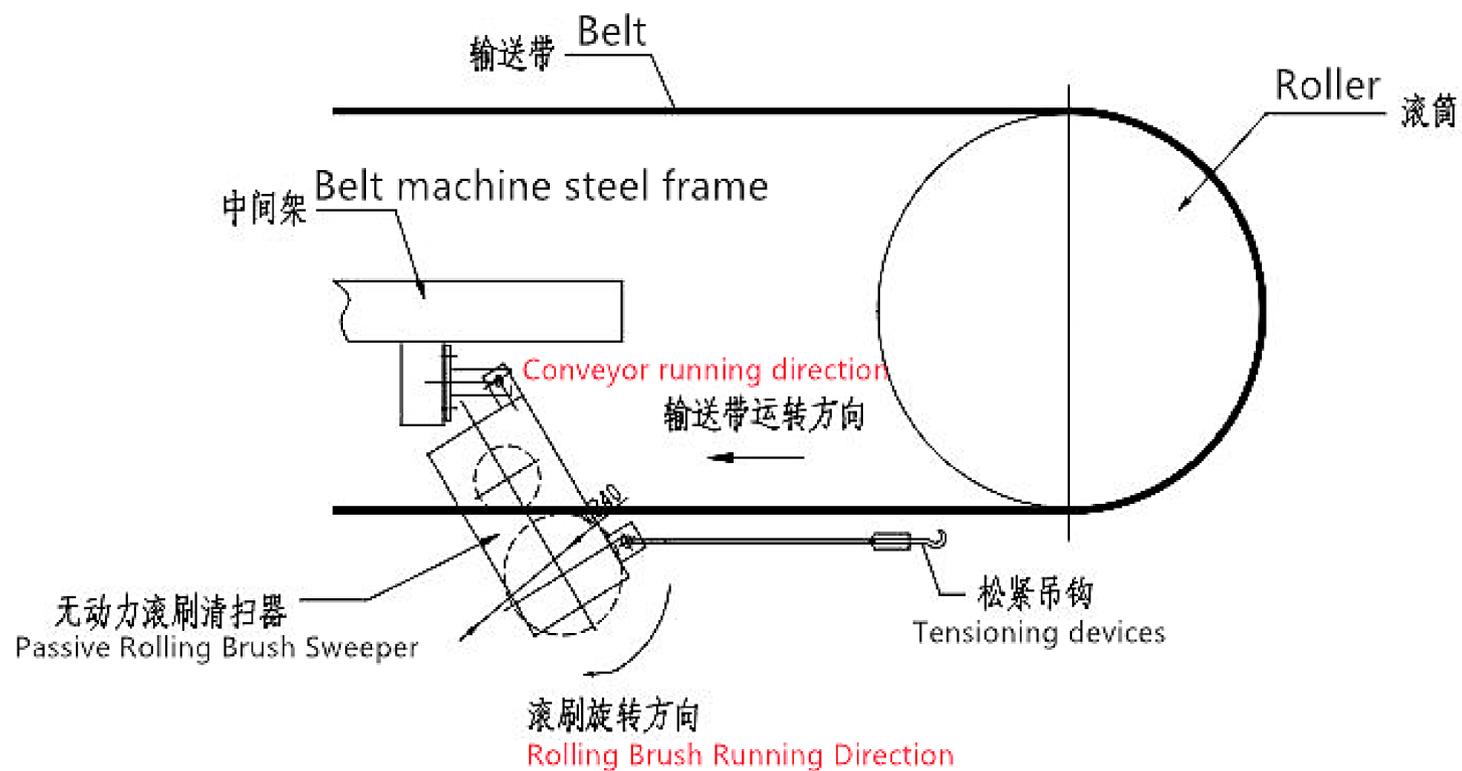
Easy to install

Elastic Contact

No Belt Wear

## ● Mounting Positions

Mounted in the conveyor frame so that the "Drive Roller" is above the return belt and the Sweeping Rolling Brush is below the return belt. It can be installed either at the head of the conveyor to sweep the belt or in the middle of the conveyor to sweep the belt.



## ● Mounting Steps

1. Punch holes in the frame of the belt conveyor with reference to the positional dimensions of the mounting holes on the support.
2. Take off the Rolling Brush: Open the cover plate at both ends of the Sweeper, then remove the bearing screws and take off the Rolling Brush from the Sweeper.
3. Put the Sweeper on the return belt with the drive roller on top and the Rolling Brush on the bottom, then put the bearings back to the original position and close the cover.
4. Bolt the support to the frame of the belt conveyor, adjust the Sweeper to a suitable position, so that the drive roller has appropriate pressure on the belt, tighten the locking screws on the support.
5. according to the locking screw buckle and the maximum length of the wire rope, weld the screw buckle tensioning rod at the appropriate position of the frame, connect the locking screw buckle to the tensioning rod, adjust the position of the Rolling Brush through the screw buckle, the depth of contact between the brush bristles and the belt should not be too large, otherwise it will shorten the service life of the sweeping Rolling Brush.

Note: After opening the box, if it is not installed for the time being, the Sweeper should be padded up to avoid the bristles of the Sweeping Brush contacting the ground for a long time, which will affect the effect of sweeping by pressure and deformation.

## Maintenance & Care

1. In the process of use, the user should formulate the Maintenance System according to the specific situation, regularly check the sweeping effect and the depth of contact between the bristles and the belt, etc., and make adjustments at the right time.
2. The bristles of the brush will be shortened by wear and tear in the course of use. When the height of the bristles in the effective part is less than 30mm, or the sweeping effect is not satisfactory, the Rolling Brush should be replaced in time.
3. For every 5000 hours of accumulated work of Sweeper, the bearings of Sweeper should be cleaned or replaced with grease.
4. When the conveyor needs to replace or repair the conveyor belt, the sweeping Rolling Brush should be taken off to avoid damage to the sweeping Brush or affect the maintenance of the conveyor belt.

## Ordering Information

When ordering, users need to provide the corresponding conveyor model, belt width, and explain the use of the environment.

For the work in chemical industry, mine and high dust and other flammable, explosive environment, should use anti-static high elasticity wear-resistant nylon bristles or wear-resistant rubber bristles.

Support customisation, please contact our sales manager if you need.

- *This product is recommended for use with polyurethane scrapers and alloy scrapers.*

