SPEED CONTROL
FOR GRAVITY CONVEYORS
WITH CENTRIFUGAL BRAKE ROLLERS
BRC CENTRIFUGAL BRAKE ROLLER

The greater the speed, the greater the braking force. Planetary gears and brake shoes create friction inside the roller tube, controlling the speed of the roller.

End Housings
Machined steel construction.

Planetary Gears
Made of low friction, co-efficient high-quality plastic. No lubrication required.

Brake Shoes
At very low speed, internal springs prevent contact, enabling roller to initially turn without resistance.

Roller Tube
Cold drawn steel 3.375" outside diameter, .109" wall. Can be hot dipped galvanized or urethane coated at additional cost.

Steel Reinforced Tube
May be applied for added protection to bring wall thickness to .229.

Tapped 1/2-20
For convenience of installation.

Mounting Brackets (No. 13012)
Steel. Custom drilled to assure centering with other rollers and proper bolt alignment with existing conveyor frames.

Axle
Centerless ground steel for accurate component alignment and roller tube engagement.

Bearings
Ball-type, high-quality, double sealed.

Contact Brake Roller Company for suggestions on all special applications.

REGULAR BRAKE ROLLER
Model 8525 C-1

HEAVY-DUTY BRAKE ROLLER
Model 8525 C-25R
**BRAKE ROLLER FEATURES AND OPERATIONS**

**Direct Working Roller**

*Brake Roller*

Replaces regular roller, reduces cost of conveyor system.

**One Basic Roller; Wide Braking Range**

8 lbs. 5,000 lbs.

Brake Rollers operate efficiently under varying load weights from 8 lbs. to 5,000 lbs. The amount of braking force generated is in direct proportion to the speed of the load as it crosses the roller. *No adjustments are ever needed.*

**Achieve Any Speed Reduction**

200 lbs. 200 lbs.

From 60 to 4 ft/min. by introducing one or more Brake Rollers into an existing conveyor system.

**Easy Installation, No Modification of Conveyor Rails**

Just remove a regular roller at any desired point and replace it with a Brake Roller. Mounting brackets supplied with the brake are custom tapped for perfect alignment with your existing side rails.

**Ideal For Use With Mechanical Stops**

When separating and spacing goods along a conveyor, the Brake Roller is an effective cushion ahead of the mechanical stop.

**Maintenance-Free, Long Wearing**

By experience, the Brake Roller is maintenance-free. Wear factor, after a simulated ten-year use period, is approximately 20% on brake shoe surface and is still well within operating tolerances.

**Produces Its Own Fail-Safe Power**

The Brake Roller is completely independent from any power source.

**Custom Lengths**

The inside dimension between frames or conveyor side rails (A).

**Regular** - (Model 8525 C-1) Brake Roller is available in any desired length from base length of 9".

**Heavy-Duty** - (Model 8525 C-25R) from base length of 11".

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**BRAKE ROLLER SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>REGULAR Braking Action</th>
<th>HEAVY-DUTY Braking Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Full Face Pallets</td>
<td>Model Number</td>
<td>8525 C-1</td>
</tr>
<tr>
<td></td>
<td>Load Range</td>
<td>up to 5,000 lbs. (2273 kg)</td>
</tr>
<tr>
<td></td>
<td>Base Length (A)</td>
<td>9.0&quot; (229 mm)</td>
</tr>
<tr>
<td></td>
<td>Shipping Weight</td>
<td>10 lbs. (4.55 kg)</td>
</tr>
</tbody>
</table>

**Add 0.20 lbs., for each additional inch of length**

**Working Temperature Range:** -22°F to +175°F (-30°C to +80°C)

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Dimensions shown are for our standard 4" c/c mounting bracket #13012. Optional 3" and 6" brackets are listed below:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>&quot;M&quot; Dimension</th>
<th>&quot;N&quot; Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>17091</td>
<td>3&quot; (76.2 mm)</td>
<td>4.25&quot; (108 mm)</td>
</tr>
<tr>
<td>17090</td>
<td>6&quot; (152.4 mm)</td>
<td>7.25&quot; (184.2 mm)</td>
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Install bracket in existing holes in the conveyor frame. Our bracket matches "G" dimension to fit existing rollers O.D.

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<tbody>
<tr>
<td></td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>G</td>
<td>J</td>
<td>K</td>
<td>L</td>
<td>M</td>
</tr>
<tr>
<td>inch</td>
<td>3.375</td>
<td>.591</td>
<td>.433</td>
<td>.455</td>
<td>1.160</td>
<td>.625</td>
<td>.78</td>
<td>2.50</td>
<td>4</td>
</tr>
<tr>
<td>mm</td>
<td>85.7</td>
<td>15</td>
<td>11</td>
<td>(11.30)</td>
<td>29.50</td>
<td>15.9</td>
<td>19.80</td>
<td>63.50</td>
<td>101.6</td>
</tr>
</tbody>
</table>

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**A**

Inside dimension between conveyor frames. TUBE WALL 109° THICK
THREE YEAR LIMITED WARRANTY

Brake Roller Company warrants Brake Rollers to be free of defects in material and workmanship for a period of three years from date of receipt if operated within the maximum entry speed of 60 ft/min.

All illustrations and specifications contained in this literature are based on the latest information available at the time of publication approval. Brake Roller Company reserves the right to make changes at any time without notice in materials, specifications and models or to discontinue models.