BRUSH CLEANER
Conveyor Belt Cleaning System
**WARNING**
Always obey all applicable safety rules.
Be sure all power to the conveyor has been disconnected and controls are locked out.

### Installation Tools Required

- Tape measure
- Cutting Torch or Hole Saw (3½")
- Level
- Scribe or Chalk
- ¾" Wrench
- ¾" Socket & Ratchet
- Welder or Drill

Bolts, lock washers and nuts for mounting are not supplied

### Assembly Breakdown

<table>
<thead>
<tr>
<th>Number</th>
<th>Part Number</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Motorized Pulley Only</td>
<td>1</td>
<td>Motor Assembly</td>
</tr>
<tr>
<td>2</td>
<td>CP-BM-P0812A</td>
<td>2</td>
<td>Channel Bracket</td>
</tr>
<tr>
<td>3</td>
<td>CP-BM-P0406A</td>
<td>2</td>
<td>Mounting Bracket</td>
</tr>
<tr>
<td>4</td>
<td>CP-BM-P0102A</td>
<td>2</td>
<td>Bracket Top</td>
</tr>
<tr>
<td>5</td>
<td>CP-BM-P0104A</td>
<td>2</td>
<td>Adjustment Block</td>
</tr>
<tr>
<td>6</td>
<td>WASH-0.38-F-SAE-ZINC</td>
<td>20</td>
<td>3/8&quot; Flat Washer - Zinc</td>
</tr>
<tr>
<td>7</td>
<td>WASH-0.38-L</td>
<td>12</td>
<td>3/8&quot; Locking Washer</td>
</tr>
<tr>
<td>8</td>
<td>NUT-016</td>
<td>12</td>
<td>Nut 3/8&quot;-16UNC - Zinc</td>
</tr>
<tr>
<td>9</td>
<td>BOLT-0.5-13X4.5FT-ZINC</td>
<td>2</td>
<td>Hex Bolt 1/2&quot;-13UNC 4-1/2&quot; Long Zinc</td>
</tr>
<tr>
<td>10</td>
<td>BOLT-0.38A1.75NC-ZC</td>
<td>4</td>
<td>Hex Bolt - 3/8&quot;-16UNC 1-3/4&quot; Long Zinc</td>
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<tr>
<td>11</td>
<td>BOLT-0.375-16X2CB</td>
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<td>Carriage Bolt - 3/8&quot;-16UNC 2&quot; Long Zinc</td>
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<tr>
<td>12</td>
<td>BOLT-0.38X1.00NC-ZINC</td>
<td>4</td>
<td>Hex Bolt - 3/8&quot;-16UNC 1.00&quot; Long Zinc</td>
</tr>
</tbody>
</table>
Step 1:
Determine your mounting method for the system, either bolted or welded directly to the structure (Figure 1) or bolted or welded to a steel plate attached to the structure (Figure 2). Use Figure 3 and the chart below to find the Channel Bracket mounting width ("C" and "D") for the system being installed. If attaching as in Figure 1, use measurement "C" in the chart below. If mounting to the structure as shown in Figure 2, use measurement "D" below. These measurements are exact and are not adjustable. Reference Figure 4 for the vertical dimensions from the belt for mounting location.

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**Table**

<table>
<thead>
<tr>
<th>Belt Width</th>
<th>Part Number</th>
<th>&quot;A&quot; Brush Width</th>
<th>&quot;B&quot; Face Width</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
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<tbody>
<tr>
<td>24&quot;</td>
<td>CP-BM-A24-XX-XXX</td>
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<td>47.2&quot;</td>
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<td>65.0&quot;</td>
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<td>71.6&quot;</td>
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<td>CP-BM-A72-XX-XXX</td>
<td>74&quot;</td>
<td>78.7&quot;</td>
<td>82.7&quot;</td>
<td>85.4&quot;</td>
</tr>
</tbody>
</table>

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**Figures**

Figure 1: illustrates the bolted or welded direct to the structure mounting method.

Figure 2: illustrates the bolted or welded to a steel plate attached to the structure mounting method.

Figure 3: provides the Channel Bracket mounting width measurements.

Figure 4: illustrates the vertical dimensions from the belt for mounting location.
Step 2:
Once the location of the Channel Brackets is determined, they can be secured to the conveyor structure. If bolting, use the drilled holes in the bracket to mount to the structure or to a steel plate that is fastened or welded to the structure.

Step 3:
Fasten the Adjustment Blocks to the bottom of the Channel Brackets with the hex nut orientated up as shown in the photo to the right. Thread the $\frac{1}{2}$" x 4\frac{1}{2}" bolt into the hex nut from the bottom.

Step 4:
Loosely fasten the Mounting Brackets to the Channel Brackets, making sure that they are in the lowered position.
**Step 5:**
Place the Brush Cleaner Assembly shafts into the Mounting Brackets. Make sure to note the direction that is stamped on the end of the shaft opposite of the junction box. This shows the orientation of the shaft/motor and should be placed pointing up, as marked.

**Note:**
Argonics and Van der Graaf recommend installing the brush cleaner so that the brush spins in the same direction as the belt, slightly faster than belt speed. This prolongs the life of the cleaner and reduces wear on the belt.

**Step 6:**
Secure the Brush Cleaner Assembly onto the Mounting Brackets by installing the Bracket Tops.

**Step 7:**
Adjust the tensioning bolt (1/2” x 4 1/2”) upward forcing the cleaner to make contact with the belt. Adjust the tension so that there is approximately 1/4” of brush deflection.
**Step 8:**
Once the correct tension is achieved, tighten the four hex nuts (on each side) securing the Brush Cleaner Assembly to the Channel Brackets.

**Step 9:**
Brush Cleaner mounting is complete! Reference the Van der Graaf Drum Motor Installation Manual for the wiring diagrams needed to complete installation.

The Van der Graaf manual can be found online:

That manual also includes instructions on how to perform an oil change. Oil changes are recommended at 50,000 hour intervals.
Oil Changes
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Instructions on how to perform an oil change can be found in the Van der Graaf manual online: https://www.vandergraaf.com/media/VanderGraaf/site-images/PDFS/DRUM-MOTOR_INSTALL-MANUAL_700-e-2015.pdf?ext=.pdf
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