HC Series, HD Series, H-Plus Series, SDX-2200 Series and HXF-40 Series
 Conveyor Components
Tapered roller bearing

HC series

The advanced five-stage seal design contributes long-life operation without re-lubrication

Five-stage seal design
1. An exterior shield provides an initial barrier to divert contaminants away from the bearing cavity.
2. A flinger employs the natural centrifugal forces of a rotating idler roll to redirect potential contaminants away from the bearing cavity.
3. A grease-filled, horizontal labyrinth seal retards lateral movement of contaminants.
4. A contact lip seal provides additional sealing protection and keeps lubricant in the bearing cavity.
5. A rear seal provides added protection for the grease reservoir.

20° troughing idler  5” dia. 69AHC501-BW

6” dia. 69AHC601-BW

35° troughing idler  5” dia. 69AHC530-BW

6” dia. 69AHC630-BW

Tapered roller bearing

HC series

Flat belt roll  5” dia. 69AHC510-BW

6” dia. 69AHC610-BW

Return roll  5” dia. 69AHC510-BW

6” dia. 69AHC610-BW

10 deg. V return idler  5” dia. 69AHC528-BW

6” dia. 69AHC628-BW

Bearing and seal cavities are filled with grease from the factory to promote long-life operation.
## Tapered roller bearing

**HC series**

<table>
<thead>
<tr>
<th>Reference dimensions</th>
<th>Weight [lb]</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 25</td>
<td>18 17</td>
</tr>
</tbody>
</table>

### 20 deg. troughing training idler

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>27</td>
<td>21</td>
<td>23</td>
<td>86</td>
<td>91</td>
<td>103</td>
<td>4</td>
</tr>
<tr>
<td>24</td>
<td>33</td>
<td>33</td>
<td>27</td>
<td>26</td>
<td>102</td>
<td>108</td>
<td>8</td>
</tr>
<tr>
<td>30</td>
<td>39</td>
<td>39</td>
<td>33</td>
<td>36</td>
<td>121</td>
<td>128</td>
<td>11</td>
</tr>
<tr>
<td>36</td>
<td>45</td>
<td>45</td>
<td>39</td>
<td>42</td>
<td>131</td>
<td>140</td>
<td>12</td>
</tr>
<tr>
<td>42</td>
<td>51</td>
<td>51</td>
<td>45</td>
<td>48</td>
<td>142</td>
<td>151</td>
<td>13</td>
</tr>
<tr>
<td>48</td>
<td>57</td>
<td>57</td>
<td>51</td>
<td>54</td>
<td>155</td>
<td>166</td>
<td>14</td>
</tr>
</tbody>
</table>

### 35 deg. troughing training idler

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>27</td>
<td>21</td>
<td>23</td>
<td>86</td>
<td>91</td>
<td>103</td>
<td>4</td>
</tr>
<tr>
<td>24</td>
<td>33</td>
<td>33</td>
<td>27</td>
<td>26</td>
<td>102</td>
<td>108</td>
<td>8</td>
</tr>
<tr>
<td>30</td>
<td>39</td>
<td>39</td>
<td>33</td>
<td>36</td>
<td>121</td>
<td>128</td>
<td>11</td>
</tr>
<tr>
<td>36</td>
<td>45</td>
<td>45</td>
<td>39</td>
<td>42</td>
<td>131</td>
<td>140</td>
<td>12</td>
</tr>
<tr>
<td>42</td>
<td>51</td>
<td>51</td>
<td>45</td>
<td>48</td>
<td>142</td>
<td>151</td>
<td>13</td>
</tr>
<tr>
<td>48</td>
<td>57</td>
<td>57</td>
<td>51</td>
<td>54</td>
<td>155</td>
<td>166</td>
<td>14</td>
</tr>
</tbody>
</table>

### 45 deg. troughing training idler

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>5&quot;</td>
<td>69AHC544-BW</td>
<td>69AHC644-BW</td>
<td>69AHC545-BW</td>
<td>69AHC645-BW</td>
<td>69AHC546-BW</td>
<td>69AHC646-BW</td>
<td>69AHC547-BW</td>
</tr>
<tr>
<td>18</td>
<td>27</td>
<td>21</td>
<td>23</td>
<td>86</td>
<td>91</td>
<td>103</td>
<td>4</td>
</tr>
<tr>
<td>24</td>
<td>33</td>
<td>33</td>
<td>27</td>
<td>26</td>
<td>102</td>
<td>108</td>
<td>8</td>
</tr>
<tr>
<td>30</td>
<td>39</td>
<td>39</td>
<td>33</td>
<td>36</td>
<td>121</td>
<td>128</td>
<td>11</td>
</tr>
<tr>
<td>36</td>
<td>45</td>
<td>45</td>
<td>39</td>
<td>42</td>
<td>131</td>
<td>140</td>
<td>12</td>
</tr>
<tr>
<td>42</td>
<td>51</td>
<td>51</td>
<td>45</td>
<td>48</td>
<td>142</td>
<td>151</td>
<td>13</td>
</tr>
<tr>
<td>48</td>
<td>57</td>
<td>57</td>
<td>51</td>
<td>54</td>
<td>155</td>
<td>166</td>
<td>14</td>
</tr>
</tbody>
</table>

### Return training idler

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>5&quot;</td>
<td>69AHC519-BW</td>
<td>69AHC619-BW</td>
<td>69AHC520-BW</td>
<td>69AHC620-BW</td>
<td>69AHC521-BW</td>
<td>69AHC621-BW</td>
<td>69AHC522-BW</td>
</tr>
<tr>
<td>18</td>
<td>27</td>
<td>21</td>
<td>23</td>
<td>86</td>
<td>91</td>
<td>103</td>
<td>4</td>
</tr>
<tr>
<td>24</td>
<td>33</td>
<td>33</td>
<td>27</td>
<td>26</td>
<td>102</td>
<td>108</td>
<td>8</td>
</tr>
<tr>
<td>30</td>
<td>39</td>
<td>39</td>
<td>33</td>
<td>36</td>
<td>121</td>
<td>128</td>
<td>11</td>
</tr>
<tr>
<td>36</td>
<td>45</td>
<td>45</td>
<td>39</td>
<td>42</td>
<td>131</td>
<td>140</td>
<td>12</td>
</tr>
<tr>
<td>42</td>
<td>51</td>
<td>51</td>
<td>45</td>
<td>48</td>
<td>142</td>
<td>151</td>
<td>13</td>
</tr>
<tr>
<td>48</td>
<td>57</td>
<td>57</td>
<td>51</td>
<td>54</td>
<td>155</td>
<td>166</td>
<td>14</td>
</tr>
</tbody>
</table>

### Belt Travel

- **21/4" Dia.**
- **5/16" Min. / 9 Max.

### Bolt Centers

- **61/4" Min. / 9 Max.**

### Tapered roller bearing

**HD series**

The advanced five-stage seal design contributes long-life operation without re-lubrication.

1. An exterior shield provides an initial barrier to divert contaminants away from the bearing cavity.
2. A flinger employs the natural centrifugal forces of a rotating idler roll to redirect potential contaminants away from the bearing cavity.
3. A grease-filled, horizontal labyrinth seal retards lateral movement of contaminants.
4. A contact lip seal provides additional sealing protection and keeps lubricant in the bearing cavity.
5. A rear seal provides added protection for the grease reservoir.

### 20 deg. troughing idler

- **5" dia.**
- **6" dia.**
- **72AHD501-BW**
- **72AHD601-BW**

### 35 deg. troughing idler

- **5" dia.**
- **6" dia.**
- **72AHD530-BW**
- **72AHD630-BW**
**COMPONENTS**

**CONVEYOR**

**10 deg. V return idler**

- 5" dia. 72AHD510-BW

**Tapered roller bearing**

- 45 deg. troughing idler 5" dia. 72AHDS42-BW
- 6" dia. 72AHDS42-BW

**TD series**

**10 deg. V return idler**

- 5" dia. 72AHD610-BW

**Tapered roller bearing**

- 20 deg. troughing training idler 5" dia. 72AHDO3-BW
- 6" dia. 72AHDO3-BW

**Troughing trainers for reversing service are also available. Consult factory.**

**CONVEYOR COMPONENTS**

**54 45 43 39 36 33 30 27 24 21 18 15 12 9 6 3 0**

**Reference dimensions**

- Bolt Centers
- Width A B D E G H
- Width A B D E G H
- Bolt Centers
- Width A B D E G H
- Bolt Centers
- Width A B D E G H

Bolts, nuts, and washers for mounting are not included with idlers. All weights are in pounds and all lengths are in inches. Dimensions subject to change or correction without notice. Use certified prints for construction purposes.
### H-Plus series – regreasable

1. Combination lip and labyrinth seal A unique, precision die-cast adjusting nut, and triple horizontal labyrinth seal provide three baffles designed to keep contaminants out. The outer labyrinth is formed from machine parts, which provides a precise close tolerance seal. The lip seal contacts the precision zinc die-cast surface to provide increased seal integrity. Additionally, the threaded bearing adjustment nut also provides an integral barrier against contamination.

2. Patented shaft design Our patented multi-piece shaft design includes a hollow tube center section and solid shaft ends that are machined to 3/4” diameter. The center tube sections are sized for high-capacity applications. By design, these shafts increase load capacity by decreasing shaft deflection and bearing misalignment.

3. Reduced deflection potential The reduced distance from support to bearing lessens shaft deflection and the potential for bearing misalignment.

4. Modified geometry tapered roller bearings Modified geometry, 19mm (3/4”) tapered roller bearings provide more bearing contact area than ball bearings. Spreading the load over a larger area relieves stress and enhances bearing life under heavy loads and impact.

5. Head concentricity Full section, pressed steel heads, manufactured by a proprietary technique, provide a centered product for a true roll. The computerized controlled bead electric weld unites the shell and provides concentricity.

6. Relubrication system All bearings are positively greased from one fitting on either side. The compensating flaps provide a metered grease path, which equally distributes lubricant to each bearing cavity. The grease enters behind the bearing, purging around and through the bearing, through the seal, flushing the bearing cavity of old grease and any contamination. The purpose of the positive purge of the bearing cavity is to prevent excessive back pressure, which may blow seals and lock rolls.

**20° troughing idler**

<table>
<thead>
<tr>
<th>Dia. (mm)</th>
<th>C</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>W1-W5</th>
<th>W6-W8</th>
</tr>
</thead>
<tbody>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**35° S/A troughing idler**

<table>
<thead>
<tr>
<th>Dia. (mm)</th>
<th>C</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>W1-W5</th>
<th>W6-W8</th>
</tr>
</thead>
<tbody>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**45° troughing idler**

<table>
<thead>
<tr>
<th>Dia. (mm)</th>
<th>C</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>W1-W5</th>
<th>W6-W8</th>
</tr>
</thead>
<tbody>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**20° S/A troughing idler**

<table>
<thead>
<tr>
<th>Dia. (mm)</th>
<th>C</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>W1-W5</th>
<th>W6-W8</th>
</tr>
</thead>
<tbody>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**35° S/A troughing idler**

<table>
<thead>
<tr>
<th>Dia. (mm)</th>
<th>C</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>W1-W5</th>
<th>W6-W8</th>
</tr>
</thead>
<tbody>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**45° S/A troughing idler**

<table>
<thead>
<tr>
<th>Dia. (mm)</th>
<th>C</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>W1-W5</th>
<th>W6-W8</th>
</tr>
</thead>
<tbody>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Note:

- Our patented shaft is available on all return rolls and all 42-inch belt widths and wider troughing rolls.

- Self-aligners for reversing service are also available. Consult factory.

**Self-aligners for reversing service are also available. Consult factory.**
### H-Plus series

#### 20° impact troughing idler

**Dimensions:**
- **Diameter:** 159 mm (6 1/4")
- **Type:** 78AH602-BW

**Weights:**
- 24: 33 lbs
- 30: 39 lbs
- 36: 45 lbs
- 42: 51 lbs
- 48: 57 lbs
- 54: 63 lbs

**Bolt Centers:**
- Min: 6 in
- Max: 9 in

**Available in sealed construction only.**

#### 35° impact troughing idler

**Dimensions:**
- **Diameter:** 159 mm (6 1/4")
- **Type:** 78AH363-BW

**Weights:**
- 24: 33 lbs
- 30: 39 lbs
- 36: 45 lbs
- 42: 51 lbs
- 48: 57 lbs
- 54: 63 lbs

**Bolt Centers:**
- Min: 6 in
- Max: 9 in

#### 45° impact troughing idler

**Dimensions:**
- **Diameter:** 159 mm (6 1/4")
- **Type:** 78AH649-BW

**Weights:**
- 24: 33 lbs
- 30: 39 lbs
- 36: 45 lbs
- 42: 51 lbs
- 48: 57 lbs
- 54: 63 lbs

**Bolt Centers:**
- Min: 6 in
- Max: 9 in

#### Transition idler

**Dimensions:**
- **Height:** 127 mm (5")
- **Type:** 78AH559-BW

**Weights:**
- 24: 33 lbs
- 30: 39 lbs
- 36: 45 lbs
- 42: 51 lbs
- 48: 57 lbs
- 54: 63 lbs

**Bolt Centers:**
- Min: 6 in
- Max: 9 in

#### Self-aligning return idler

**Dimensions:**
- **Height:** 127 mm (5")
- **Type:** 78AH589-E

**Weights:**
- 24: 33 lbs
- 30: 39 lbs
- 36: 45 lbs
- 42: 51 lbs
- 48: 57 lbs

**Part numbers:**
- 60: 63 lbs
- 69: 75 lbs

**Drop brackets sold separately.**

#### Rubber disc return roll

**Dimensions:**
- **Height:** 152 mm (6")
- **Type:** 78AH612-BW

**Weights:**
- 24: 33 lbs
- 30: 39 lbs
- 36: 45 lbs
- 42: 51 lbs

**Part numbers:**
- 60: 63 lbs
- 69: 75 lbs

**Self-aligning rubber disc return idler**

**Dimensions:**
- **Height:** 127 mm (5")
- **Type:** 78AH621-BW

**Weights:**
- 24: 33 lbs
- 30: 39 lbs
- 36: 45 lbs
- 42: 51 lbs

**Part numbers:**
- 60: 63 lbs
- 69: 75 lbs

---

Add 5 to part number for sealed construction. Add 6 to part number for regreasable construction. Weights shown in pounds and lengths shown in inches.
Roll construction for 36 inch belt widths

- Concentric rolls
  - Mechanical steel tubing cut and machined to rigid tolerances provides concentricity of roll-head assembly.
- External labyrinth seal
  - The unique roll head and nut designs are combined to produce an extremely effective long path, close tolerance labyrinth seal.
- One point lubrication
  - All bearings are positively greased and purged at each bearing from one fitting on either side.
- Positive hold down
  - Drop-in rolls are factory assembled and positively secured with a sturdy 3/8” bolt.
- Extra heavy, die-formed bracket
  - Designed with super wide base and direct foot mounting for increased rigidity and resistance to impact.
- Patented shaft
  - Available on all return rolls and on 42-inch belt width and wider troughing rolls. (Details listed on page 14)

Smooth and rounded roll edges reduce the potential for belt damage.

Adjusting nut
- Provides additional protection to seal area and establishes a very precise bearing adjustment.

Inverted angle base
- Made from high-strength, 50,000 PSI minimum yield strength steel. Self-cleaning design reduces the potential for roll and belt damage due to material build-up. Low stress angle cross member selection provides extra load support – truly “Super Duty”.

SDX-2200 super-duty belt conveyor idlers

Roll construction for 42 inch and wider belt widths

- Rolls interchangeable
  - Wing and center rolls, sealed and regreaseable, for a given belt width are interchangeable, reducing spare requirements and simplifying field service.
- End bracket design
  - Ample clearance is provided to reduce the potential for spilled material to wedge between roll and end bracket.

Connecting tube
- Elastomer tube provides positive grease passage.

Rigid, one-piece, jig-welded frame
- Accurate roll positioning simplifies belt training and greatly reduces friction and roll wear.

SDX-2200 idlers are offered from 36” belt widths in 20 deg., 35 deg., and 45 deg. troughers with equal and extended center roll styles. Both sealed and regreaseable designs are available.

The SDX-2200 idler is furnished with 152 mm (6”) or 178 mm (7”) diameter rolls equipped with modified geometry, 1 1/4” tapered roller bearings which provide generous load and thrust capacities. Our patented shaft design is available on all return rolls and on 42-inch belt width and wider troughing rolls.
The secrets of SDX-2200 superiority

1. Groove-lock connection of machined head and tube

Heads are press fit into the roll and positively locked into position by means of our unique groove-lock design. This approach provides a truly concentric, scale-quality roll assembly.

2. Relubrication system

All bearings are positively greased from one fitting to the other, flushing the bearing cavity of old grease and any contamination. The purpose of the positive purge of the bearing cavity is to prevent excessive back pressure which may blow seals or bearings out of place.

3. Patented shaft design

Our patented multi-piece shaft design includes a hollow tube center section and solid shaft ends that are machined to 32 mm (1 1/4”) diameter. The center tube sections are sized for high-capacity applications. By design, these shafts increase load capacity by decreasing shaft deflection and bearing misalignment.

4. Combination lip and labyrinth seal

The combination of multiple labyrinths and a contact lip seal filled with grease has proven for decades to be the most effective seal for heavy-duty service. The outer labyrinth is formed from mating machined ductile parts which contributes to a precise close tolerance seal. The lip seal contacts a burnished mirror finish surface to provide increased seal integrity.

5. Heavy section cast ductile head and nut

The SDX-2200 idler roll head and nut are heavy section, web-reinforced, ductile castings that are precision-machined for accurate roll and bearing fit. All machining is done in a single setup to promote uniformity and dimensional accuracy.

SDX-2200 series

20° troughing idler 152 mm (6”) dia. 73ASDX601-BW 178 mm (7”) dia. 73ASDX701-BW

35° troughing idler 152 mm (6”) dia. 73ASDX630-BW 178 mm (7”) dia. 73ASDX730-BW

45° troughing idler 152 mm (6”) dia. 73ASDX642-BW 178 mm (7”) dia. 73ASDX742-BW

20° S/A troughing idler 152 mm (6”) dia. 73ASDX603-BW 178 mm (7”) dia. 73ASDX703-BW

Self-aligning for reversing service is also available. Consult factory.
CONVEYOR COMPONENTS

SDX-2200 series

35° S/A troughing idler 152 mm (6") dia. 73ASDX632-BW 178 mm (7") dia. 73ASDX732-BW

Weights shown in pounds and lengths shown in inches.
Add S to part number for sealed construction. Add G to part number for regreasable construction.

Self-Aligners for reversing service are also available. Consult factory.

45° S/A troughing idler 152 mm (6") dia. 73ASDX644-BW 178 mm (7") dia. 73ASDX744-BW

Weights shown in pounds and lengths shown in inches.
Add S to part number for sealed construction. Add G to part number for regreasable construction.

Self-Aligners for reversing service are also available. Consult factory.

20° Impact troughing idler 184 mm (7 1/4") dia. 73ASDX702-BW

Available in sealed construction only.

35° Impact troughing idler 184 mm (7 1/4") dia. 73ASDX736-BW

Also available in 20° and 45°.

SDX-2200 series

45° Impact troughing idler 184 mm (7 1/4") dia. 73ASDX748-BW

5° - 35° transition idler 152 mm (6") dia. 73ASDX659-BW 178 mm (7") dia. 73ASDX759-BW

Part number is for regreasable idler.
Part number for sealed idler is 73ASDX703-BWS.

35° impact reinforced idler w/removable end bracket

Part number is for regreasable idler.
Part number for sealed idler is 73AK4233-BW.

Also available in 20° and 45°.

20° extended center roll idler 152 mm (6") dia. 73ASDX605-BW 178 mm (7") dia. 73ASDX705-BW

Consult factory for load ratings.
Add S to part number for sealed construction. Add G to part number for regreasable construction.
Weights shown in pounds and lengths shown in inches.
SDX-2200 series

**CONVEYOR COMPONENTS**

**CONVEYOR COMPONENTS**

**Rubber disc self-aligning return idler**

178 mm (7”) dia. 73ASDX721-BW

<table>
<thead>
<tr>
<th>BW</th>
<th>A</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>45</td>
<td>48</td>
<td>39</td>
<td>213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>51</td>
<td>54</td>
<td>45</td>
<td>236</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>57</td>
<td>60</td>
<td>52</td>
<td>244</td>
<td>279</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>63</td>
<td>66</td>
<td>57</td>
<td>261</td>
<td>297</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>69</td>
<td>72</td>
<td>64</td>
<td>282</td>
<td>324</td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>75</td>
<td>78</td>
<td>70</td>
<td>301</td>
<td>347</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>81</td>
<td>84</td>
<td>72</td>
<td>338</td>
<td>393</td>
<td></td>
</tr>
<tr>
<td>78</td>
<td>87</td>
<td>90</td>
<td>82</td>
<td>388</td>
<td>456</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>93</td>
<td>96</td>
<td>88</td>
<td>358</td>
<td>416</td>
<td></td>
</tr>
<tr>
<td>96</td>
<td>105</td>
<td>108</td>
<td>100</td>
<td>396</td>
<td>467</td>
<td></td>
</tr>
</tbody>
</table>

**SDX-2000 series**

**Rubber disc return idler**

178 mm (7”) dia. 73ASDX712-BW

<table>
<thead>
<tr>
<th>BW</th>
<th>A</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>X</th>
<th>Y</th>
<th>Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>45</td>
<td>48</td>
<td>39</td>
<td>24</td>
<td>7</td>
<td>12</td>
<td>63</td>
</tr>
<tr>
<td>42</td>
<td>51</td>
<td>54</td>
<td>45</td>
<td>24</td>
<td>7</td>
<td>18</td>
<td>101</td>
</tr>
<tr>
<td>48</td>
<td>57</td>
<td>60</td>
<td>52</td>
<td>24</td>
<td>7</td>
<td>24</td>
<td>118</td>
</tr>
<tr>
<td>54</td>
<td>63</td>
<td>66</td>
<td>57</td>
<td>24</td>
<td>7</td>
<td>30</td>
<td>135</td>
</tr>
<tr>
<td>60</td>
<td>69</td>
<td>72</td>
<td>64</td>
<td>24</td>
<td>7</td>
<td>36</td>
<td>153</td>
</tr>
<tr>
<td>66</td>
<td>75</td>
<td>78</td>
<td>70</td>
<td>24</td>
<td>7</td>
<td>41</td>
<td>171</td>
</tr>
<tr>
<td>72</td>
<td>81</td>
<td>84</td>
<td>72</td>
<td>24</td>
<td>7</td>
<td>47</td>
<td>188</td>
</tr>
<tr>
<td>78</td>
<td>87</td>
<td>90</td>
<td>82</td>
<td>24</td>
<td>7</td>
<td>53</td>
<td>205</td>
</tr>
<tr>
<td>84</td>
<td>93</td>
<td>96</td>
<td>88</td>
<td>24</td>
<td>7</td>
<td>59</td>
<td>222</td>
</tr>
<tr>
<td>96</td>
<td>105</td>
<td>108</td>
<td>100</td>
<td>24</td>
<td>7</td>
<td>65</td>
<td>239</td>
</tr>
</tbody>
</table>

**Massed end return idler**

178 mm (7”) dia. 73AK2027-BW

<table>
<thead>
<tr>
<th>BW</th>
<th>A</th>
<th>D</th>
<th>F</th>
<th>X</th>
<th>Y</th>
<th>Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>45</td>
<td>48</td>
<td>52</td>
<td>27</td>
<td>8</td>
<td>63</td>
</tr>
<tr>
<td>42</td>
<td>51</td>
<td>54</td>
<td>55</td>
<td>27</td>
<td>8</td>
<td>101</td>
</tr>
<tr>
<td>48</td>
<td>57</td>
<td>60</td>
<td>62</td>
<td>27</td>
<td>8</td>
<td>135</td>
</tr>
<tr>
<td>54</td>
<td>63</td>
<td>66</td>
<td>68</td>
<td>27</td>
<td>8</td>
<td>169</td>
</tr>
<tr>
<td>60</td>
<td>69</td>
<td>72</td>
<td>74</td>
<td>27</td>
<td>8</td>
<td>196</td>
</tr>
<tr>
<td>66</td>
<td>75</td>
<td>78</td>
<td>80</td>
<td>27</td>
<td>8</td>
<td>224</td>
</tr>
<tr>
<td>72</td>
<td>81</td>
<td>84</td>
<td>86</td>
<td>27</td>
<td>8</td>
<td>252</td>
</tr>
<tr>
<td>78</td>
<td>87</td>
<td>90</td>
<td>92</td>
<td>27</td>
<td>8</td>
<td>280</td>
</tr>
<tr>
<td>84</td>
<td>93</td>
<td>96</td>
<td>98</td>
<td>27</td>
<td>8</td>
<td>308</td>
</tr>
<tr>
<td>96</td>
<td>105</td>
<td>108</td>
<td>110</td>
<td>27</td>
<td>8</td>
<td>336</td>
</tr>
</tbody>
</table>

**Self-aligning return idler**

152 mm (6”) dia. 73ASDX619-BW

178 mm (7”) dia. 73ASDX719-BW

<table>
<thead>
<tr>
<th>BW</th>
<th>A</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>45</td>
<td>48</td>
<td>39</td>
<td>213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>51</td>
<td>54</td>
<td>45</td>
<td>236</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>57</td>
<td>60</td>
<td>52</td>
<td>244</td>
<td>279</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>63</td>
<td>66</td>
<td>57</td>
<td>261</td>
<td>297</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>69</td>
<td>72</td>
<td>64</td>
<td>282</td>
<td>324</td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>75</td>
<td>78</td>
<td>70</td>
<td>301</td>
<td>347</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>81</td>
<td>84</td>
<td>72</td>
<td>338</td>
<td>393</td>
<td></td>
</tr>
<tr>
<td>78</td>
<td>87</td>
<td>90</td>
<td>82</td>
<td>388</td>
<td>456</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>93</td>
<td>96</td>
<td>88</td>
<td>358</td>
<td>416</td>
<td></td>
</tr>
<tr>
<td>96</td>
<td>105</td>
<td>108</td>
<td>100</td>
<td>396</td>
<td>467</td>
<td></td>
</tr>
</tbody>
</table>

**Return idler**

152 mm (6”) dia. 73ASDX610-BW

178 mm (7”) dia. 73ASDX710-BW

<table>
<thead>
<tr>
<th>BW</th>
<th>A</th>
<th>D</th>
<th>F</th>
<th>X</th>
<th>Y</th>
<th>Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>45</td>
<td>48</td>
<td>52</td>
<td>27</td>
<td>8</td>
<td>63</td>
</tr>
<tr>
<td>42</td>
<td>51</td>
<td>54</td>
<td>55</td>
<td>27</td>
<td>8</td>
<td>101</td>
</tr>
<tr>
<td>48</td>
<td>57</td>
<td>60</td>
<td>62</td>
<td>27</td>
<td>8</td>
<td>135</td>
</tr>
<tr>
<td>54</td>
<td>63</td>
<td>66</td>
<td>68</td>
<td>27</td>
<td>8</td>
<td>169</td>
</tr>
<tr>
<td>60</td>
<td>69</td>
<td>72</td>
<td>74</td>
<td>27</td>
<td>8</td>
<td>196</td>
</tr>
<tr>
<td>66</td>
<td>75</td>
<td>78</td>
<td>80</td>
<td>27</td>
<td>8</td>
<td>224</td>
</tr>
<tr>
<td>72</td>
<td>81</td>
<td>84</td>
<td>86</td>
<td>27</td>
<td>8</td>
<td>252</td>
</tr>
<tr>
<td>78</td>
<td>87</td>
<td>90</td>
<td>92</td>
<td>27</td>
<td>8</td>
<td>280</td>
</tr>
<tr>
<td>84</td>
<td>93</td>
<td>96</td>
<td>98</td>
<td>27</td>
<td>8</td>
<td>308</td>
</tr>
<tr>
<td>96</td>
<td>105</td>
<td>108</td>
<td>110</td>
<td>27</td>
<td>8</td>
<td>336</td>
</tr>
</tbody>
</table>

Add S to part number for sealed construction. Add G to part number for regreasable construction. Weights shown in pounds and lengths shown in inches.
CEMA F
HXF-40 series

40mm spherical roller bearing idlers

The HXF-40 exceeds CEMA F idler load standards and is designed for today’s super high capacity operations. Applications include high tonnage mining and industrial operations, mining operations with overburden removal and underground longwall coal mining operations that want to more closely match tonnage rates to highly productive longwall mining machines.

HXF-40 series idlers are offered with our in-line design or with our OR-C frame design from 60” to 120” BW.

The Wobbler idler

Description

The Wobbler idler is a return training idler made up of a tubular roll mounted on an anti-friction bearing in the center of the tube. The idler is pivoted on an inclined, fixed swivel pin. If the weight of the belt falls more on one side than the other, the heavy side rocks downward and forward, skewing the roller and guiding the belt to its central position.

Benefits

No frame equals less material buildup – The Wobbler idler also solves another common problem. Most trainers have complex frames which accumulate so much material that the roll jams, causing possible de-training and damage to the belt. The Wobbler return training idler is held in place by two simple brackets with no framework to collect material. Lubrication can be accomplished from either side.

Summary

Designed to solve common belt training problems – The Wobbler idler is a return training idler designed to train your conveyor belt. A steel roll, centered on a 60mm ball bearing, pivots when the conveyor belt moves off center and guides the belt back to allow for a more efficient operating conveyor. The Wobbler idler is available in belt widths from 18” to 60”.

Optional urethane available

For sticky material or adverse weather conditions, request the Wobbler return trainer with a 1/4” urethane cover that is designed to reduce material buildup on the surface of the idler.

D6-RAW-BWB

Belt width | A | C | Wt
---|---|---|---
18 | 27 | 20 | 59
24 | 33 | 26 | 67
30 | 39 | 32 | 75
36 | 45 | 38 | 83
42 | 51 | 44 | 91
48 | 57 | 50 | 99
54 | 63 | 56 | 107
60 | 69 | 62 | 115

S08709A clamp box will be supplied if not specified. Available in 6” diameter rolls only.
Impact bed assembly

The impact bed assembly extends belt life and reduces downtime by supporting the conveyor belt and cushioning it against the shock of heavy loads and impact. Its modular design allows multiple units to be closely fitted to form the bed length needed. As shown in the picture below, the impact bed assembly is also offered with an impact center roll. Contact your sales representative for part numbers.

Slide seal assembly

The slide seal assembly is a simple and cost-effective way to provide continuous support of your conveyor belt against the skirting material, resulting in a positive seal. By utilizing standard troughing idler frames with center rolls and UHMW/steel support bars with support mounting brackets, this unit is designed to provide a positive seal in your loading area with reduced belt drag. For impact loading, refer to impact bed assembly.

Replacement parts

UHMW replacement bars only

<table>
<thead>
<tr>
<th>BW</th>
<th>Part number</th>
<th>Size of bars</th>
<th>Wt lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>60K08050-18</td>
<td>UHMW 3 1/2” x 1 1/4” x 18”</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>60K08060-18</td>
<td>Rubber 3 1/2” x 1 1/4” x 18”</td>
<td>4</td>
</tr>
</tbody>
</table>

*Consult factory for CEMA E applications.

Impact bed assembly with impact center roll
Komatsu: Revolutionizing the mining industry for a sustainable future

Product designs, specifications and/or data in this document are provided for informational purposes only and are not warranties of any kind. Product designs and/or specifications may be changed at any time without notice. The only warranties that apply to sales of products and services are Komatsu’s standard written warranties, which will be furnished upon request.

Komatsu and other trademarks and service marks used herein are the property of Komatsu Ltd., Komatsu America Corp., Komatsu Mining Corp., or one of their affiliates, or the respective owners or licensees.


The retaining sleeve is covered by U.S. Patent No. 9273731.

© 2019 Komatsu Mining Corp. All rights reserved.

EN-HCHHDPSYXHDF01-0819-V3