HC Series, HD Series, H-Plus Series, SDX-2200 Series and HXF-40 Series
Conveyor Components
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.

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**Reference dimensions**

- **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
**Tapered roller bearing**

**HC series**

20 deg. troughing training idler

5" dia. 69AHC503-BW

6" dia. 69AHC603-BW

Reference dimensions

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Bolt Centers: 5 1/8 Min / 5 7/16 Max.

35 deg. troughing training idler

5" dia. 69AHC532-BW

6" dia. 69AHC632-BW

Reference dimensions

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Bolt Centers: 5 1/8 Min / 5 7/16 Max.

**HD series**

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

20 deg. troughing idler

5" dia. 72AHDS01-BW

6" dia. 72AHDS01-BW

Reference dimensions

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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 in correction without notice. Use certified prints for construction purposes.

For drag action self-aligning idlers, consult factory.

For drag action training idlers, consult factory.

For return training idlers, consult factory.

HC tapering idlers exceed CEMA D specifications through 38” BW. Four inch-diameter rolls are also available.

**Conveyor Component Product Overview**

1. An exterior shield provides an initial barrier to divert contaminants away from the bearing cavity.
2. A finger 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.

*Available on all return rolls and on all 42-inch belt width and wider center troughing rolls.
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 mating parts, which provides a precise close tolerance seal. The lip seal contacts the precision zinc die-cast surface to provide maximum 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 solid shaft ends that are machined to 3/4" diameter. The center tube sections are sized for high-capacity applications. By design, these shafts greatly 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 reduced deflection potential of tapered roller bearings. Modified geometry automotive class line contact 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.  

4. Modified geometry
Modified geometry taper roller bearings

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 welds unitizes the shell and provides concentricity.

6. Relubrication system
All bearings are positively greased from one fitting on either side. The compensating flats distribute lubricant to each bearing cavity. The grease enters behind the bearing, washes around and through the bearing, through the seal, purging 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.

**Note:** Our patented shaft is available on all return rolls and all 42-inch belt width and wider troughing rolls.

**Komatsu Mining Corp. Group**

**H-Plus series — regreasable**

**H-Plus series**

- 45° troughing idler
- 20°/S/A troughing idler
- 35°/S/A troughing idler
- 45° S/A troughing idler

**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.

**CEMA D**

**45° troughing idler**

**127 mm (5") dia. 78AH542-BW**

**152 mm (6") dia. 78AH642-BW**

**20°/S/A troughing idler**

**127 mm (5") dia. 78AH503-BW**

**152 mm (6") dia. 78AH603-BW**

**35°/S/A troughing idler**

**127 mm (5") dia. 78AH532-BW**

**152 mm (6") dia. 78AH632-BW**

**45° S/A troughing idler**

**127 mm (5") dia. 78AH544-BW**

**152 mm (6") dia. 78AH644-BW**

**Komatsu Mining Corp. Group**
### H-Plus series

#### 20° impact troughing idler

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### 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.
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 maximum 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”.

Connecting tube
Elastomer tube provides positive grease passage.

Minimum clearance for maximum belt support and protection

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

High-capacity, long-life precision 1¼” tapered roller bearings

Uniform wall thickness
Reduces a potential source of roll vibration.

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.

Minimum clearance for maximum belt support and protection

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

High-capacity, long-life precision 1¼” tapered roller bearings

Uniform wall thickness
Reduces a potential source of roll vibration.

End bracket design
Ample clearance is provided to reduce the potential for spilled material to wedge between roll and end bracket.

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 1¼” 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 groove-lock design. This approach provides a truly concentric roll assembly and bearing alignment for long-life operation.

2. Relubrication system

All bearings are positively greased from one fitting on either side. The compensating flats provide a metered grease path which equally distributes lubricant to each bearing cavity. The purpose of the positive purge of the bearing cavity is to prevent excessive back pressure which may blow seals or lock rolls.

3. Patented shaft design

Our patented multi-piece shaft design includes a hollow tube center section and solid shaft ends that are machined to a 32 mm (⅞") diameter. The center tube sections are sized for super 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 fills 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 maximum 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 set-up 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

* Available on all return rolls and on 42-inch belt width and wider troughing rolls

* Patented shaft design

¢ Patented, engineered shaft

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

Komatsu Mining Corp. Group
SDX-2200 series

35° S/A troughing idler
152 mm (6") dia. 73ASDX723-BW
178 mm (7") dia. 73ASDX732-BW

45° Impact troughing idler
184 mm (7 1/16") dia. 73ASDX748-BW

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

20° Impact troughing idler
184 mm (7 1/16") dia. 73ASDX702-BW

35° Impact troughing idler
184 mm (7 1/16") dia. 73ASDX736-BW

Instr. No.

Conveyor Component Product Overview

35° S/A troughing idler
Self-Aligners for reversing service are also available. Consult factory.

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.

45° Impact troughing idler
Available in sealed construction only.

5° - 35° transition idler
Part number is for regreasable idler. Part number for sealed idler is 73AK7103-BWS.

20° Impact troughing idler
Also available in 20° and 45°.

35° impact reinforced idler with removable end bracket
Part number is for regreasable idler. Part number for sealed idler is 73AK4233-BWS.

20° extended center roller idler
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.
Rubber disc self-aligning return idler

184 mm (7 ⅞”) dia. 73ASDX708-BW

Consult factory for load ratings.

20° extended double center roll impact idler

184 mm (7 ⅞”) dia. 73AK9104-BWG

Part number for sealed idler is 73ASDX719-BWSE.

SDX-2200 series

Self-aligning return idler

152 mm (6”) dia. 73ASDX619-BW

178 mm (7”) dia. 73ASDX719-BW

Rubber disc self-aligning return idler

178 mm (7”) dia. 73ASDX721-BW

Massed end return idler

178 mm (7”) dia. 73AK2027-BW

Return idler

152 mm (6”) dia. 73ASDX610-BW

178 mm (7”) dia. 73ASDX710-BW

V return

152 mm (6”) dia. 73ASDX628-BW

178 mm (7”) dia. 73ASDX728-BW

Rubber disc return idler

178 mm (7”) dia. 73ASDX712-BW

20° extended center roll impact idler

184 mm (7 ⅞”) dia. 73ASDX628-BW

20° extended double center roll impact idler

184 mm (7 ⅞”) dia. 73AK7755-BWSE

Part number is for regreasable idler.

Part number for sealed idler is 73ASDX619-BW.

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.

Komatsu Mining Corp. Group
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 special return training idler designed to train your conveyor belt. Its unique design, a steel roll centered on a 60 mm ball bearing, pivots when the conveyor belt moves off center and guides it 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.

<table>
<thead>
<tr>
<th>Belt width</th>
<th>A</th>
<th>C</th>
<th>Wt.</th>
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<td>60</td>
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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 two standard toughing idler frames with center rolls and UHMW/steel support bars with support mounting brackets, this unit will 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**
  - BW
  - Part number
  - Stock of bars
  - Wt. lbs.
  - 5" Dia.
  - 6" Dia.
  - Qty.
  - 5 ft. section
  - 8 ft. section

**Wing support insert**

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<th>3&quot; Dia. 20 to 35 degrees</th>
<th>3&quot; Dia. 20 to 35 degrees</th>
<th>5&quot; Dia. 20 to 35 degrees</th>
<th>6&quot; Dia. 20 to 35 degrees</th>
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**UHMW replacement bars only**

<table>
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<th>Wt. lbs.</th>
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