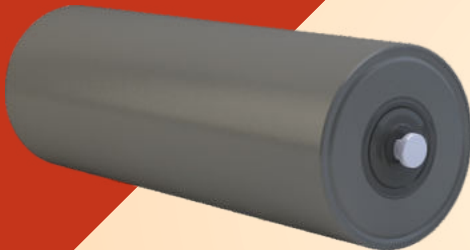


# Continuous Belt-Load Carrying use of Conveyor *Roller Idler*

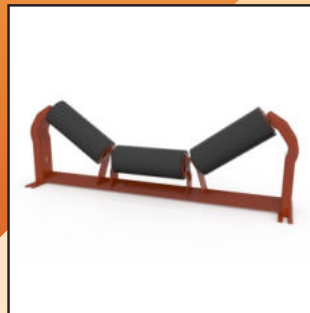
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Carrying  
as per IS 8598



Return  
per ISO 1537



Impact with Rubber Rings  
per CEMA-C



Self-Aligning  
per DIN 22107



Transition per  
IPSS-2-03-004-85



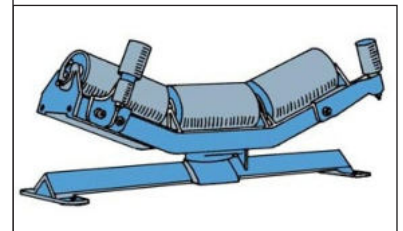
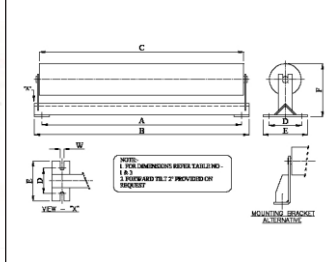
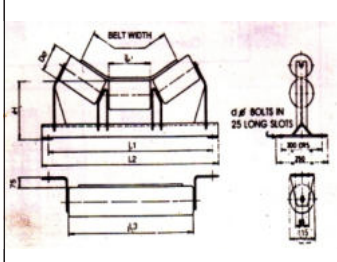
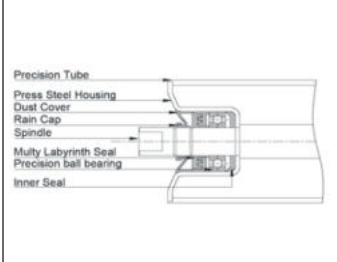
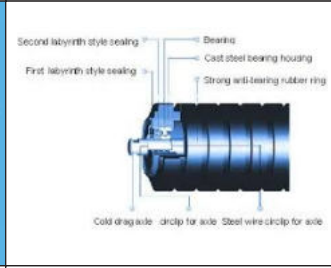
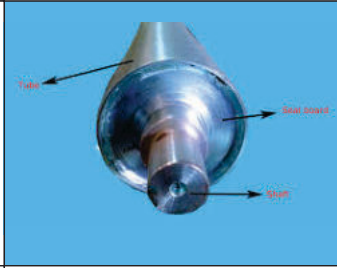
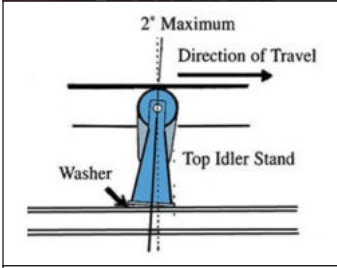
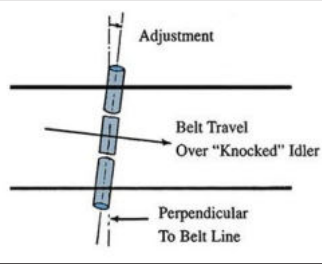
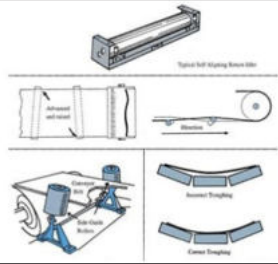
Idler Frame  
per SANS 1313-2



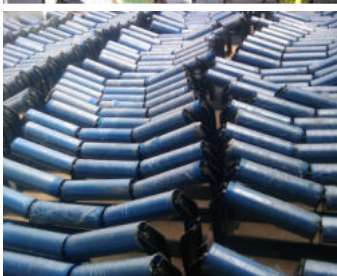
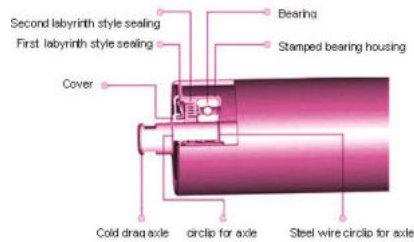
**Installation & Warranty  
Information**

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 True Performance Rubbers

**Wish Safe  
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 Belt-Support  
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## Thank You for Purchasing HIC “UNIVERSAL” Heavy-Duty Conveyor Idler

HIC International Co.'s Manufactured belt conveying system Load Carrying Movement Quality Steel with bright bar shaft, single piece frame fitted with seize resistant bearings Conveyor Idler Rollers for Carrying, Impact, Return Idlers up to 2400mm belt widths superseding IS 8598, IS 9295, ISO 1537, DIN 22107, IPSS-2-03-004-85, BS 970-En3B, CEMA- B, CEMA - C series quality standards Superb Housing & Sealing System & Least Total Indicator Run-out as well as Operating Noise aspect Advantage assures Long Life Reliability.



### Continuous Belt Conveyor Load Movement Idler Roller Installation **Tips**

- 1. Carrying Idler install** keeping in consideration that all carrier idlers are initially squared with the path of the belt and only the minimum shifting of idlers used as a **training** means. If the belt is over-corrected by shifting idlers, it should be restored by moving back the same idlers, not by shifting additional idlers in other direction.  
Obviously such idler shifting is effective for only one direction of belt travel. If the belt is reversed, a shifted idler, corrective in one direction, will misdirect in the other.  
Hence reversing belts should have all idlers squared up and left that way. Any correction required can be provided with **self-aligning** idlers designed for reversing operation. Not all self-aligners are of this type, as some work in one direction only.  
Tilting the **troughing** idler forward (not over 2°) in the direction of belt travel produces a self-aligning effect. The idlers may be tilted in this manner by shimming the rear leg of the idler stand. Here again this method is not satisfactory where belts may be reversing.
- 2. Return Idlers install** taking into account, **Flat** type, provide no self-aligning influence as in the case of tilted troughing idlers.  
However, by shifting their axis (knocking) with respect to the path of the belt, the return roll can be used to provide a constant corrective effect in one direction. As in troughing rolls, the end of roll towards which the belt is shifting should be moved longitudinally in the direction of return belt travel to provide correction.  
**Self-aligning return** rolls should also be used. These are pivoted about a central pin. Pivoting of the roll about this pin results from an off-center belt and the idler roll axis becomes shifted with respect to the path of the belt in a self-correcting action. Some return idlers are made with two rolls forming a 10° to 20° **V-trough**, which is effective in helping to train the return run.  
A further aid to centering the belt as it approaches the tail pulley may be had by slightly advancing and raising the alternate ends of the return rolls nearest the tail pulley.
- 3. Side Guide Rollers** be used to afford the protection to the belt as an emergency measure, provided that they do not touch the belt edge when it is running normally. If they bear on the belt continually, even though free to roll, they tend to wear off the belt edge and eventually cause ply separation along the edge.  
Side guide rollers should not be located so as to bear against the belt edge once the belt is actually on the pulley. At this point no edge pressure can move the belt laterally.
- 4. Pitch or spacing** of carrying idler sets of minimum 1meter, in general be done for high efficiency of belt conveying system.
- 5. Spillage of material at loading area** be cleaned periodically to protect idler shell, belt cover damages & high power consumption.
- 6. Collision or impingement** in tail-pulley & take-up area must be taken care of to avoid damages.
- 7. Feeding Point** must have 4-5 sets of **rubber lagged Impact idlers** at 500-750mm distance to protect high value Belting early damage.
- 8. Material of construction used** are proven Housing of CRCA Steel, Shell of MS ERW pipe as per IS 9295, Shaft of EN8 as per IS 9550, Sealing of double labyrinth dust & waterproof, Bearings of reputed seize resistant greased for life.

**Size Variation** (TIR, total indicated run-out Cylindrical Shell 1.6mm Max. along length <1350mm and >1350mm idler length, 2mm Max. ; Shaft Deflection at bearings 0.0029 radians Max.) and others as per HIC manufacturing tolerance should be acceptable.

**Disclaimer:** Information's, written and verbal are provided by HIC, relative to its **troughing idler roller** which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of HIC UNIVERSAL brand **conveyor idlers** should determine for itself the suitability of such **steel** products.



## Why HIC Universal Conveyor Idler Rollers?

**HIC**  
**UNIVERSAL**  
True Performance Rubbers

### Dust Proof Multi-Labyrinth Seals Carrying, Return, Impact

Ensures High Bearing Life in Crushers, Sand, Limestone Conveyors

### Corrosion Resistant CRCA Steel Housing Self-Aligning, Training

Ensures Top Durability in Sugar, Chemicals, Quarry Conveyor

### Accurate Rotating MIG Welded Machined Shell Ends

Ensures Smooth Run in Tunnel, Mining Belt Conveyors Troughing

### CNC Machined Slotted Bright Bar Shaft

Enables Replacement Ease in Coal Washery, Salt, Rock Conveyors

### Minimizes Seize-Resistant Bearing Misalignment

Prevents Belt Damage in Power Generation, Aggregate Conveyor



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## WARRANTY CERTIFICATE

The goods tailor-made, supplied as per buyer's P.O. specifications is warranted against any manufacturing defects for 12 months from the date of Invoice, and assume liability of repairing free of cost in the event of any manufacturing defects.

HIC Int. shall be under no liability in respect of any defect in the goods arising from any drawing, design or specification supplied by the Client. Goods claimed to be in default must be returned to HIC's factory at client cost; cost for return transport prepaid.



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