Material Lifting Conveyor
Drum Pulleys

Technical Specifications

Conforming IS 8531

Poleas tambor de acero equilibrados estáticamente
البكرات طبل المصلب ثابتة بشكل المتزاوجة
Équilibrage statique Tambour métallique Poulies

HIC Universal
True Performance Rubbers
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Specification of Steel Drum Pulleys

Classified under HS Code 8425

HIC Universal Drum Pulleys ensures continuous conveyor operation with increased bearing life and reduced power consumption, in a way, the shell is made from heavy tubes or fabricated from steel plates, pulley shafts of carbon steel machined with proper bore and keyway (taper lock bushing system are also offered being optional), shafts fitted with anti-friction self-aligning ball bearings, pulley drum furnished with high quality herringbone or diamond groove rubber lagging grooved properly to resist slippage and conforms to IS:8531, ISO 3684, BS 970, SANS 1669-1 quality standards.

About HIC

HIC International Co Inc, formed in 1988 manufacturing industrial steel and rubber products ISO 9001 certified producer of Conveyor belt pulley lagging drum, Power Transmission belts coupling pulley, Hydraulic hose valve, Safety rubber sheet mat quality exporters of HIC Universal brand to industrial traders distributors of USA, Australia, UAE, Singapore, China, South Africa, UK, Germany, Taiwan having manufacturing factories in Delhi and Ghaziabad UP of India.

Total Quality Management principles are followed and True Performance is thus assured.
Lifting of materials vertically in the conveyor belt gets accomplished using conveyor drum pulleys made in India by HIC Universal.

HIC Universal conveyor drum pulleys are Original Choice by power plant consultants and underground mining equipment manufacturers in India, Europe, Australia, Middle East, North America, South America, East Africa, South Africa, New Zealand, Ethiopia, Grenada, Hong Kong, Far East, and different Asian countries.
**RANGE of Pulleys**

*Material Lifting HIC Conveyor Drum*

- Conveyor Head Pulley
- Tail Pulley
- Conveyor Snub Pulley
- Conveyor Bend Pulley
- Take-Up Pulley

- Conveyor Belt Drive Pulley up to 2400 mm BW
- Head Drum Pulley with Rubber Lagging Diamond Groove Pattern
- Tail End Pulley
- Belt Conveyor System Snub Pulleys
- Conveyor Machine Take up Pulley
- Industrial Pulleys, Others, as per specific requirements.
Sizes of Drum Pulley Manufactured

**HIC Material Lifting Conveyor Roller**

Conveyor drum roller face width MM of 600, 700, 750, 950, 1150, 1400, 1600, 1800, 2000, 2200 mm Head end drum rubber lagged and Tail end conveyor roller manufactured for respective belt width MM 500, 600, 650, 800, 1000, 1200, 1400, 1600, 1800, 2000 mm BW.

**Bearing Plummer Block in Pulley**

**Sizes Assembled in Conveyor Drum Made By HIC**

Bearing taper roller aperture of drum pulley 1211 EK – Plummer block SNL 511 for 50mm shaft diameter of reputed company like SMR or Masta used in manufacture of conveyor pulley used in manufacture.

Bearing size 1215 EK- SNL 515 for shaft diam 65mm, bearing size 1219 EK- SNL 519 for shaft diam 85mm, bearing size 1222 EK- SNL 522 for shaft diam 100mm, bearing size 22226 EK- SNL 526 for shaft diam 115mm, bearing size 22228 EK- SNL 528 for shaft diam 125mm of conveyor drum rollers.

Shaft diameter of belt conveyor drum rollers in accordance with corrected resultant load and belt tension selection being made.
Tube Diameter, Shell and Shaft

**Head Drum, Tail Pulley Produced By HIC**

**Diameter of conveyor drum** pulley in accordance with maximum allowable working tension as per HIC conveyor belts fabric ply thickness specifications of minimum pulley diameter recommendations of steel tube diameter produced sizes MM 219, 273, 323, 355, 408, 455, 510, 630, 800,1000 mm.

Keyless locking elements used in manufacture for conveyor pulley shaft-to-hub attachments.

**Shell Thickness** of carbon-steel pulley drum MM 8, 10, 12, 14, 18, 22 used in manufacture as per load lifting requirements, machined to be concentric with shaft within the permissible run-out.

**Head** end conveyor drum for 3 ply ep or nylon conveyor belt used MM size 273, 323, 355, 408, 455 mm.  
Head pulley conveyor for 4 ply ep or nylon conveyor belt used MM size 355, 408, 455, 510, 630 mm.

**Tail end drum** for 3 ply ep or nylon conveyor belt used MM size 273, 323, 355, 408, mm.  
Tail pulley conveyor for 4 ply ep or nylon conveyor belt used MM size 408, 455, 510, 630 mm.

**Shaft material** of EN3A steel grade or EN9 used in manufacture and quality grease type GPG-2LX EP used for bearing lubrication of conveyor drum pulley.

HIC drum conveyor pulleys are **statically balanced**.

**Dynamic Balancing** of drum conveyor roller also undertaken for drum pulley needed to drive at very high speed rotation.
Order Quantity Minimums

Conveyor Head drum Minimum order quantity of 01 number.
Tail drum conveyor Minimum order quantity of 01 number.

Packed in sea-worthy jute or HDPE bags. Also, packed in wooden cases on specific orders.

Head End Drum

Head end pulleys are used by mining conveyor equipment manufacturers that helps give motion to the conveyor belt.

Herringbone Rubber Diamond Groove Lagging Pulley

Diamond grooved rubber lagging conveyor drum pulley are used by bulk material handling project consulting manufacturers for installations where conveying material deposits cannot be fully avoided.
Tail End Drum

Quarry Vibrating Screen Conveyor Pulley

Tail end drum conveyors are used by quarry vibrating screen manufacturers for mounting at the end of a conveyor near loading point meant for cleaning spillage that turns freely allowing conveyed material to fall to the sides.

Snub Pulley

Crushing Feeders Conveyor Drum

Snub conveyor pulleys are used by crushing feeder’s equipment manufacturers that helps to change the direction of rubber belt movement and for tightening the lower flight to the top one being mounted at the conveyor bends for achieving a higher angle of wrap on the drive pulley.

Direction Reversing Pulley

Mineral Processing Conveyors Drum Pulleys

Direction reversing pulleys are used by mineral processing conveyors manufacturer’s advantage being that helps to reverse the rotation of the driven pulley wheel in relation to the driver pulley.
Nomenclature of Drum Pulley
Drum Diameter, Face Width: Technical Data

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Disclaimer: Information’s, written and verbal are provided by HIC, relative to its products which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of UNIVERSAL brand industrial products should determine for itself the suitability of such products.
HIC ships drum conveyor pulley conforming IS 8531 tailor-made to buyer’s order specifications to different countries including India. Please send following information in English to quote prices:

1. Drum roller face **Width** size mm
2. Drum tube **Diameter**
3. **Bearing** and Plummer block size
4. **Shaft** length and extension mm
5. **Keyway** size
6. Conveyor **Pulley Type**, head or tail or snub
7. **Rubber** lagging thickness mm, if needed
8. **Quantity**- numbers

**Shipment Handling and Delivery Time**

Bulk quantity orders are packed in sea-worthy jute or HDPE in Rolls or Bags shipped via sea in less than container loads (LCL) /FCL or by air. Sea freight (BL) or Air freight (AWB) charges payable at destination.

Small orders are shipped overseas via **DHL** or **FedEx** or Aramex courier, for which your Authorization Account number be sent to be booked on “Freight To Collect” basis, together with complete acceptable physical address and phone or mobile number.

**Domestic orders** are dispatched to any destination in India by Road Transport, Gati or TCI or ARC or Jaipur Golden on COD basis.

**Shipping Time**, generally within 8-10 weeks or as stipulated in quote and accepted order.

(Email at: belts@universaldelhi.org; universal@hic-india.com or Call +91 11 2874 5120)
Installation Method of Drum Pulleys

Non Stop Conveyors Operation, HIC Safe Conveying Tips

- Stands Be Fitted Properly
- Conveyor Be Assembled Properly, if necessary
- Mounting Brackets Be Attached To Conveyor
- Attach Conveyor to Stands
- Return Rollers Be installed on Conveyor Gear Motor Be Mounted as per manufacturers manual
- Guides or other accessories may be attached at the end
Industrial supply manufacturing company having dedicated team of 63 skilled work forces includes Rubber Technologist, Chemists, Engineers and Skilled Labor’s, Management Experts viz., Plant Manager, Quality Control Inspector, Lab In charge and I.T specialists. Majority of operations are automatic.

## Production Capacity of Conveyor Transport Products

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<tr>
<th>Item Description</th>
<th>Approximate Qty. per annum</th>
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<tr>
<td>1. Head Drum Pulley, Tail Conveyor Pulley, Snub Pulley</td>
<td>1,200 nos.</td>
</tr>
<tr>
<td>2. Carrying Idlers, Impact Rollers with Rubber Rings, Self Aligning Idlers, Conveyor Return Idlers</td>
<td>60,000 nos.</td>
</tr>
<tr>
<td>3. Conveyor Belts General Purpose, Heat Resistant Rubber Belt, Food Belt</td>
<td>72,000 meters</td>
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<tr>
<td>4. Conveyor Belt Fastener, Bucket Elevator Bolt, Staple Type Lacing Fastener</td>
<td>1,000,000 numbers</td>
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Visakhapatnam Steel Plant (721354), NALCO (3072), Subhash Projects (EM-10,18), Heavy Engg. Corp.(6003), Bokaro Steel (72621), Salem Steel(000155), Gujarat State Road(000118), ACC (944), Army Base(512/ABW-76), NTPC(H8267), etc.

* Price List & terms on specific enquiry please.
Quality assurance plan

HIC Drum Pulleys Testing Parameters

Quality drum conveyor pulleys manufactured in ISO 9001 certified HIC factories in India with Production Supervisors conducting routine pre-manufacture checks and post-manufacture tests as to:

- 100% Physical checks with respect to dimensions,
- 100% Chemical checks w.r.t. MOC,
- 20% Random physical tests

Test Certificate & Warranty

HIC Manufacturer’s Lab TC of Conveyor Drum Pulley Supplied

Quality conveyor pulleys conforming IS 8531, ISO 3684- HIC manufacturers modern in-house Lab Test Certificate issued with respect to Overall dimensions, Face Width or Length, Bearings type, Shaft of EN8 bright steel bar, sealing system, besides other tests.

Warranty of one year against any manufacturing defects in HIC manufactured drum conveyor product.

Third Party Inspections by DNV, RITES, EIL, QSS, SGS, also arranged in HIC’s conveyors factory or by Government Approved Laboratory, Test Certificate issue fee charges directly reimbursed by buyers.

Legalization by Embassy or Chambers of Commerce Attestation of export shipping Invoice and other documents also provided towards export of Indian Origin steel conveyor products if demanded on actual fee remitted by importers directly to HIC and or cost added up in Invoice.
Manufacturing & Testing Equipments

Exporters-Importers of industrial products having latest manufacturing machinery and advanced testing equipments.

Conveyor Products Production Machinery

Banbury Rubber Mixer, Dispersion Kneader(s), Mixing Mill(s) 2 Roll, Calander Machine (3 Roll), Jointing Machine, Rubber Bale Cutter, Hydraulic Presses (2 daylight), Hydraulic Press (single daylight), Hydraulic Finishing Press, Belt Endlessing M.C.(Vulcaniser), Sundry Machines viz. Lathes, Shaper, Generator sets, Hydraulic Jacks, etc.

Rubber Products Quality Testing Apparatus as per ISO :

B.O.D. Incubator (seasoning chamber), Hot Air Ageing Oven, Physical Balance, Tensile Testing Machines, Abrasion Tester(as per DIN), Drum Friction Tester (as per Canadian stds), Scott Flex Tester (as per railways), Dumbbell Dies, Yarn Testing Machine, etc. Calibrated periodically. Indigenous technology with latest technical Indian knows how, however, no collaboration made so far.

Quality Control

It is in between process checks that are strongly checked & lodged in register to ensure finished rubber product meeting quality standards. Test Certificate (TC) of our Lab, wherever, applicable, is forwarded along with the supply.

Export Excellence Award during Feb 1997

ISO Certificate

# Many more certificates available as feedbacks are constantly monitored for providing highest customer's satisfaction.

Total Quality Management Principles Followed
Statically Balanced.

Key Less.

Cocentric.

Steel Drum Pulleys

TRUSTED BY MACHINERY OEMs OF UNDERGROUND MINING, POWER PLANT, CEMENT, SUGAR SINCE 1988

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