



PRAMOD ENTERPRISES

A Complete Solution For Conveyor



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- ✓ **IDLER**
- ✓ **BRACKET**
- ✓ **PULLEY**

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Who We Are

We are one of the Idler along with Bracket & Pulley manufacturer in Odisha who have a special machinery for Idler manufacturing which are fully automatic and still we have better improving ideas in our design and production line for Idler. Day by day Pramod Enterprises team are thinking about better quality and services for their reputed clients.

OUR PRODUCTS

1. IDLER

We are the Manufacturer of best quality Conveyor Idlers. The range of Conveyor Idlers, offered by us, is inclusive of Carrying Idlers, Impact Idler, Return Idlers, Guide Roller, Garland Roller & Deflector. Available in various dimensions and grades, our Conveyor Idlers are used in several industries.



Main features of Idlers

Shell- The shells are made from special ERW/SEALMESS tube with close tolerance smooth, shock free eccentricity free running with minimum diametral runout. Smallest rotating weight of rollers requires low horse power, there by conserving power and energy due to lowest possible dynamic friction.

Bearing Housing- The bearing housing are made of deep drawing quality sheets pressed to a very high degree of accuracy, keeping tolerance at bearing seating region as specified by the bearing manufactures the housing are welded into the tubes to form mono block simultaneously from both sides on rotating centers to ensure absolute concentrically.

Bearing- Rollers are fitted with precision Ball / Taper roller bearing with C3 clearance as per international standard.

Shaft- Made from Carbon steel EN 8/C-40 round bar. The round bars are cut, turned with perfect tolerance and ground bearing seatings to ensure perfect fit between bearings and shafts.

Labyrinth Seals- Time tested and universally accepted multistage sealing arrangements made of Nylon 6 are provided on both sides of bearing with high quality grease packing ensuring effective sealing of bearings from ingress of dust and moisture, giving trouble long life.

Lubrication- All bearings, labyrinth and grease chambers are permanently lubricated.

Testing- All the rollers are thoroughly tested for free rotation, measurement of friction factors, dust and water proof sealing before dispatch.

2. PULLEY

Standard conveyor pulleys are fabricated from steel shells/plates with welded end plates and bosses keyed/fitted direct/through taper sleeve on the shaft. The distance over bosses can be made to suit any requirement however, we recommended that this be as wide as possible to keep the dimension between the boss and bearings to minimum to reduce shaft flexing. The diameters of pulleys selected for a given application depend on the specification of belt, which in turn depend on the power to be transmitted. We suggest to use adequate diameter of drum based on above factors and as recommended by belt manufacturers. Drive/Tail/ Take-up pulleys have machined crowned faces to train and reduce wear on belt. Other pulleys are with straight face. Plain or grooved rubber lagging can be furnished when additional friction is required between belt and pulley or if the application calls for the same such as handling wet/abrasive materials etc.

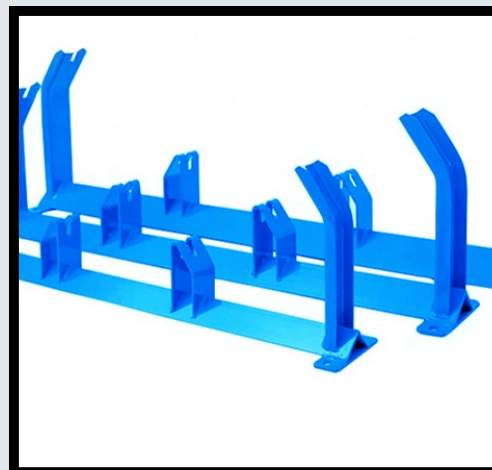
Equipment of Pulley:-

- 1.SHELL
- 2.END PLATE
- 3.HUB/BOSS
- 4.SET BOLT WITH NUT
- 5.SHAFT
- 6.KEY



3. BRACKET

We are offering Conveyor Brackets in various technical grades and dimensions. Our Conveyor Brackets are designed and developed using superior grade metals and other raw materials that we procure from trusted vendors of the domain. These brackets are manufactured in conformity with the set industrial norms and standards. like 20*,30*,35* Troghing, Impact, Return and carrying bracket etc.





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Why us

We have fully automated standalone machinery which are SPM for idler manufacturing as under.

1. Pipe cutting machine.
2. Automatic Double headed boring machine.
3. Double headed automatic welding machine.
4. Automatic assembly machine.
5. Water / Dust Testing Machine
6. Friction Testing Machine

Production capacity of 1000 Idlers per day

We are using following brands to manufacture the roller

- Jindal and Apolo make pipe.
- Bearing SKF/FAG only
- Nylon components—Nylon - 6Grd
- Dust Corner - CRC Sheet
- Housing---3.15 thick, D/D Grd CRC
- Grease—Bharat Petroleum / Servo
- Roller Shaft Vijak make C/40 EN



Following steps have been followed for the making of the Idlers.



1. PIPE CUTTING MACHINE:

Pipe cutting machine have a gauge fixed for requirement length up to 2000 mm long with 2mm tolerance and able to cut from 60 mm to 193 mm dia along with supporting texture. After the cutting of the pipe in the desired length, it will go to the 2nd level i.e. Boring Machine.



2. PIPE BORING MACHINE:

The pipes are set into the fully automatic Boring machine with CNC controller vide through hydraulic power pack. Boring of the pipes are done at a time at both ends facing centering and depth as per requirement length with a tolerance level of 0-0,60 to 193 mm dia up to 2500 mm length. After pipes were bored, it will move to the welding machine.



3. WELDING MACHINE:

The bored pipes are loaded on the fully automatic welding machine from track to loading and unloading systems which can weld at both end at a time with filet thickness to be adjustable fully auto by CNC and sensor systems. The housing is manual fixed at the both end through pressure by air systems.



4. ASSEMBLE MACHINE:

For rollers fittings twin type 2 motors 2 power pack with 2 nos pressure gauge which maintain the pressure gauge pressure of brg, Nylon components dust cover as per pressure meter, which indicate the require of different pressure which require.

We have also a friction test machine for 2000 mm long.



5. FRICTION & FACTOR TESTING MACHINE WITH TIR:

We have also Friction Test Machine up to 2000mm long idler.



6. WATER & DUST TEST MACHINE:

Water and dust machine is combined at a time water and dust can be checked.

a) Water Test:

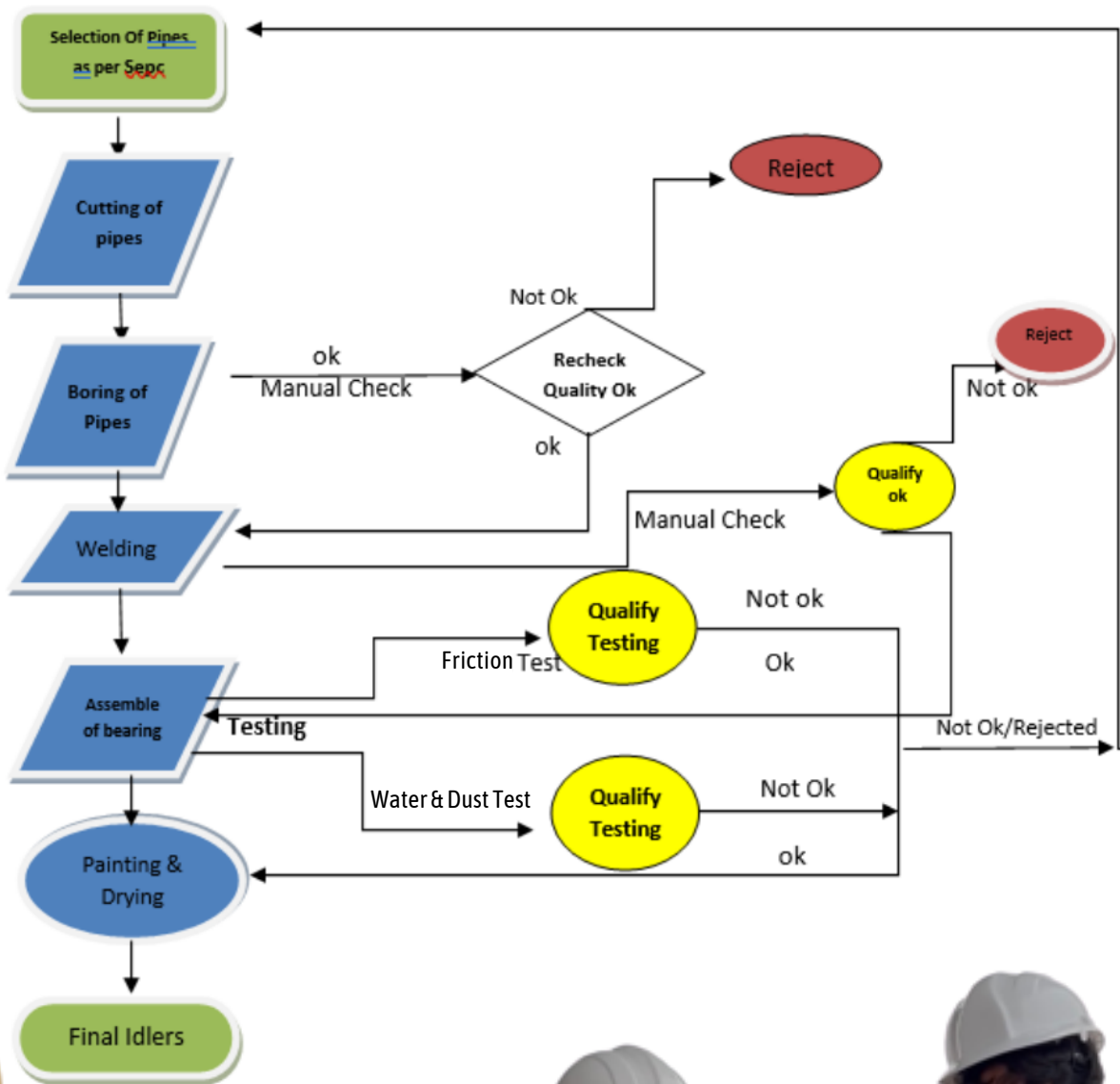
Water shower is directed at an angle 45 deg towards bearing housing and tube for required time at both ends of rotating idler at 250 rpm min.

b) Dust Testing:

Roller, directed rotating in dust (Coal Fine Dust) chamber with 350rpm - 30 minutes above



Flow chart of Manufacturing process





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