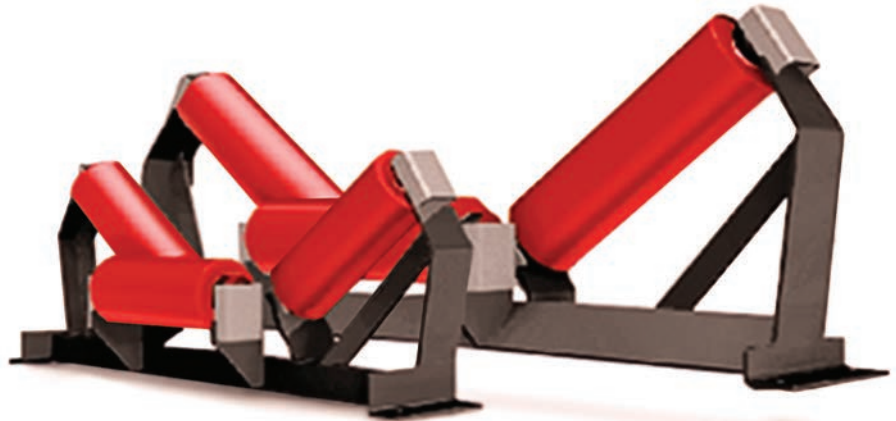


ProtectaRoll Outboard bearing system

The ProtectaRoll bearing system from Komatsu was developed specifically to operate in dusty, open-weather conditions, including heavy-duty stacking, reclaiming, quarrying, biomass, energy and shipside operations.



The ProtectaRoll bearing system standard configuration is designed to allow bearing units to be replaced at the end of their life while retaining use of the roller shell. Replacement is quick and easy and does not require any special tools, skilled labour or workshop facilities. Optionally, bearing units can be factory-fitted, reducing fitting time on site. This option also reduces the required number of spares to be kept in stock.

Outboard bearing technology has been proven in heavy-duty applications since 1967, through the long-term use of these idlers in steel, cement and power generation plants on conveyors with high operating capacity. Bespoke sizes are available to suit the application.

Applications

- Quarrying
- Biomass energy
- Shipside operations
- Bulk material handling of coal, sinter, iron ore, limestone, granite, cement and gravel
- Steel works
- Mining
- Power generation
- Ship discharge of materials
- Dredging
- Sugar refining
- Fertilizer
- Food industries
- Others



ProtectaRoll bearings are mounted externally to the roller. The bearing unit design vastly reduces the chance of ingress and contamination due to one end being closed. This eliminates pressure variations within the roller cavity due to temperature change, reducing the risk of grease loss.

Bearings are precision-mounted in cast iron encapsulated housings. This enables the roller to be correctly mounted in the support frame, providing greater reliability and superior roller life. The design of the ProtectaRoll bearing system ensures the bearing is as close as possible to the support frame thus improving L_{10} life of the bearing.



SandBloc

Bearing protection



Our standard SandBloc sealing system provides the ultimate in bearing protection. Developed over 50 years, SandBloc has been operating with supreme efficiency in abrasive, dusty environments of extreme temperatures. The five-part, multi-labyrinth sealing system provides a barrier against ingress from the smallest of particles in the most demanding of environments.



- Extensive research and development during the past 50 years has refined the SandBloc sealing system to be an integral precision-engineered product
- The SandBloc system incorporates a zinc-plated, steel, multi-labyrinth seal located within a cast iron bearing housing
- The SandBloc sealing system is designed and engineered to provide a barrier against ingress of the smallest abrasive particles, such as sand, coal dust, coke, ores, and granite dust, amongst others
- Our SandBloc sealing system is the standard in ProtectaRoll bearing systems

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