



Dodge ISN mounted spherical roller bearings

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Engineered for reliability and long life

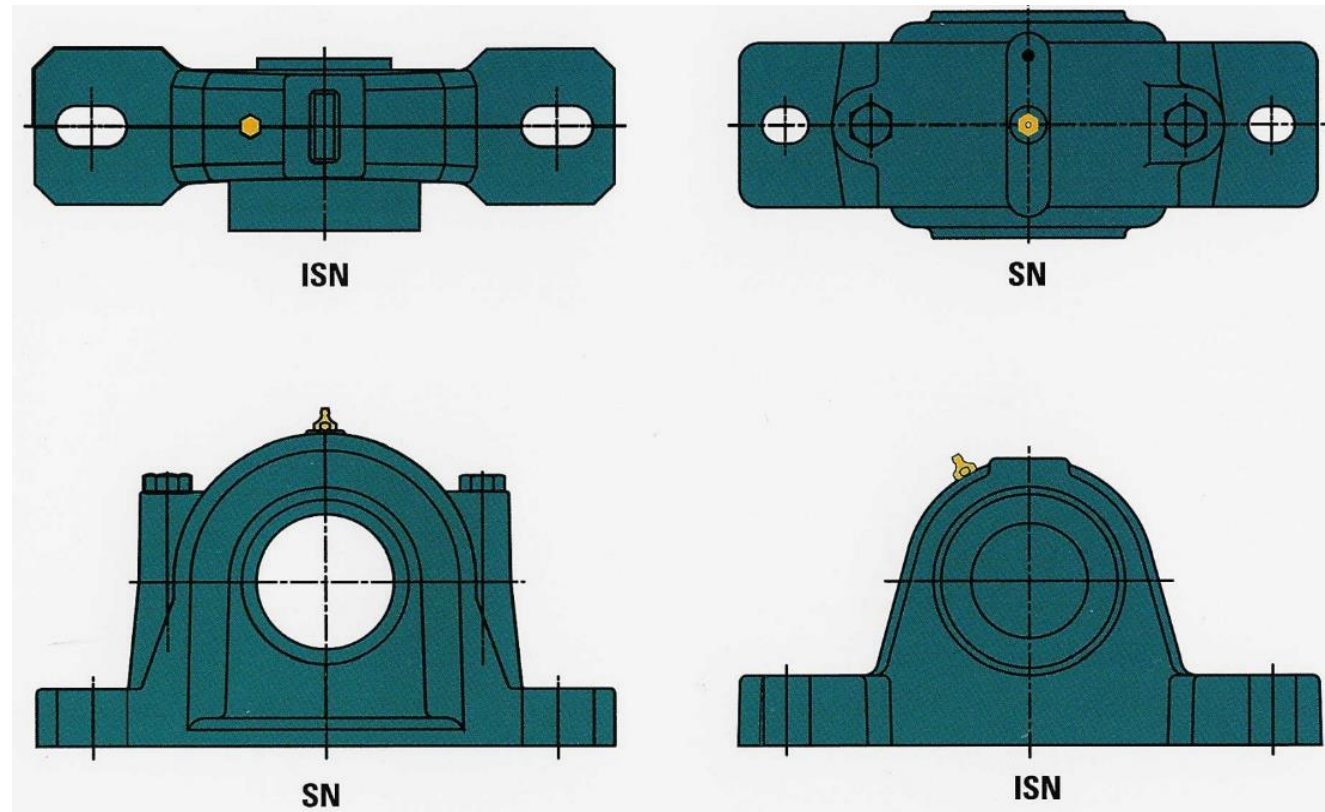
Easy to install and remove

- Factory sealed and greased
- Patented sealing system for extended life
- Patented integral adapter mounting and dismounting system
- No shaft damage
- Arrives in one piece – ready to install
- Interchangeable with SN dimensioned housings
- Cast iron two-bolt plummer block bore sizes 30 mm to 140 mm
- Ductile iron four-bolt plummer block bore sizes 150 mm to 170 mm
- Optional end covers for safety and reliability



Dodge ISN mounted spherical roller bearings

Dimensional interchange with standard SN split cap bearings



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ISN benefits vs. standard SN products



- Arrives in one package – shaft ready
- Factory greased and sealed
- Cost of initial grease fill included with bearing
- Constant seal pressure in misaligned conditions
- Seal retains grease near the rollers
- Simple clearance setting – no special tools needed
- Easy, intuitive removal method



- Three or more packages – user assembled
- User packs grease – subject to on-site contamination
- Customer pays extra for initial grease fill
- Diminished seal pressure in misaligned conditions
- Grease migrates away from rollers to housing cavity
- Requires feeler gauges
- Difficult to remove

Dodge ISN mounted spherical roller bearings

Product differentiator – superior sealing

Industry leading seal technology

Contamination leads to premature product failure. That's why Dodge ISN bearings feature innovative sealing systems that:

- Keep contaminants out
- Keep lubrication in
- Allow contaminated lubricant to purge

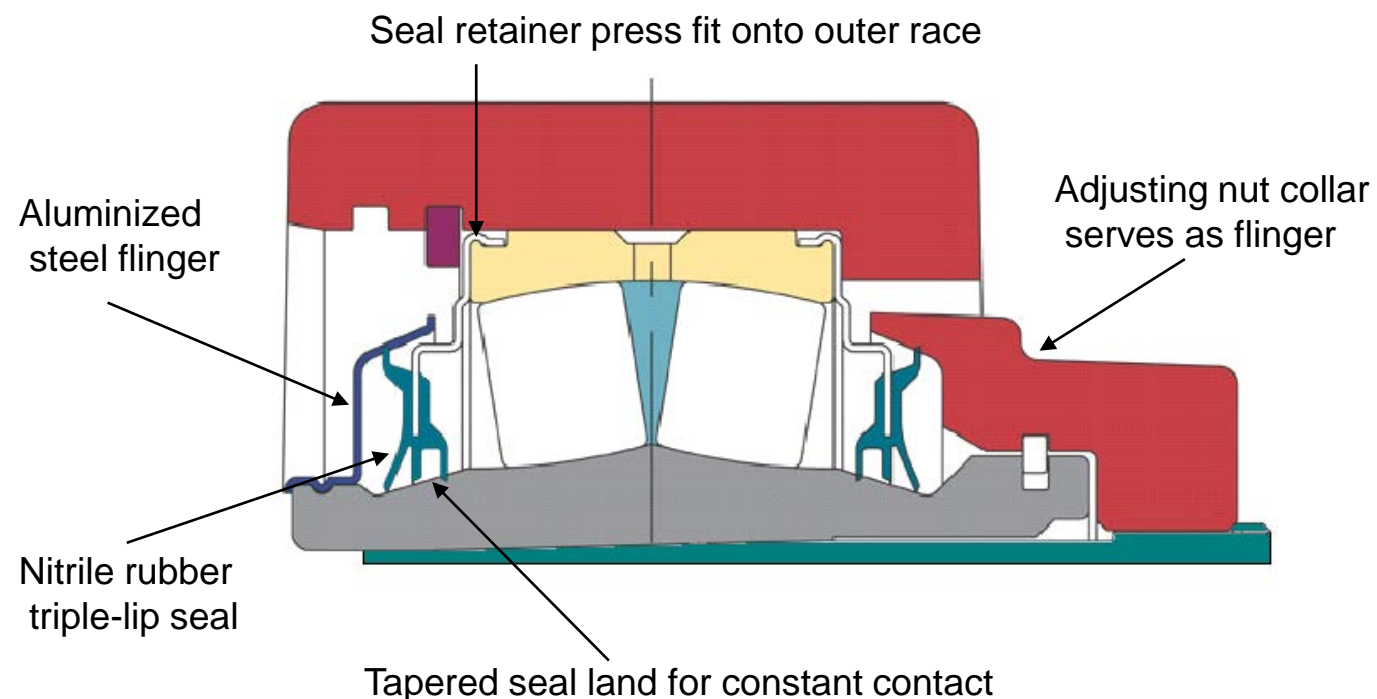


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Product differentiator – superior sealing

ISN Trident triple-lip sealing system

- Made of nitrile material
- Contact seal for wet or dirty environments
- Maintains full seal contact in misalignment
- Seals integral to the insert, not the housing
- Bearing interior can be fully purged
- Flinger also protects against contamination
- Optional end covers further enhance seal protection – also keeps workers safe from rotating shafts
- A labyrinth seal is available for higher speeds and higher operating temperatures



Dodge ISN mounted spherical roller bearings

Product differentiator – innovative shaft attachment methods

Field proven reliability

Installing and removing products can take time, and in many cases a great deal of effort. That's why Dodge ISN bearings have been engineered with a patented integral adapter mounting systems that:

- Makes these bearings easy to install and remove - saving valuable time
- Prevents fretting corrosion – no need to cut the shaft to remove the product - saving money on shaft replacement
- Increases reliability

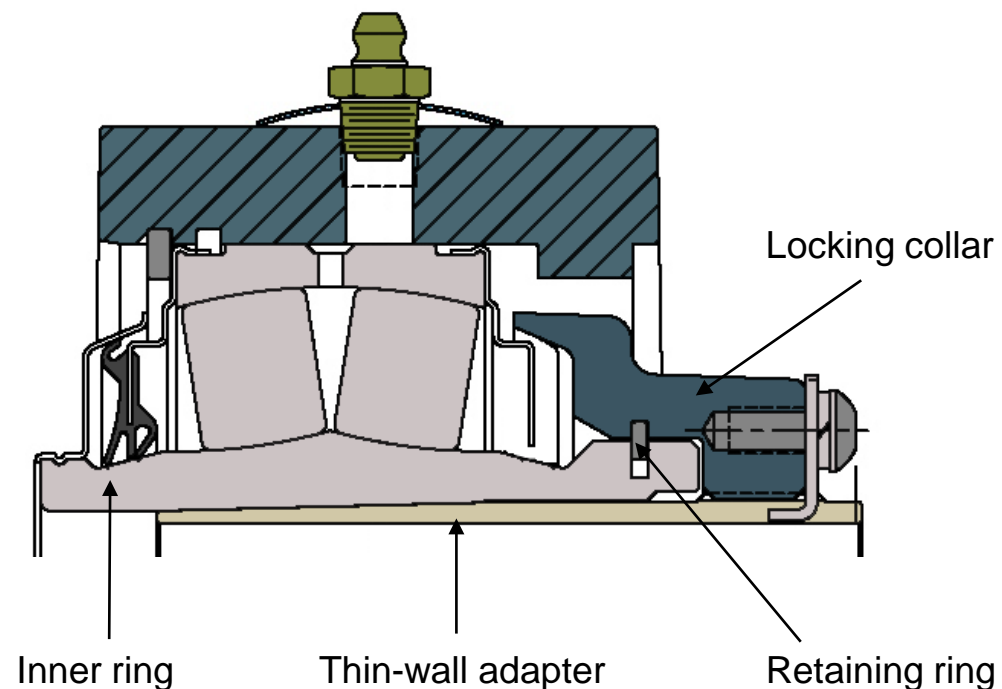
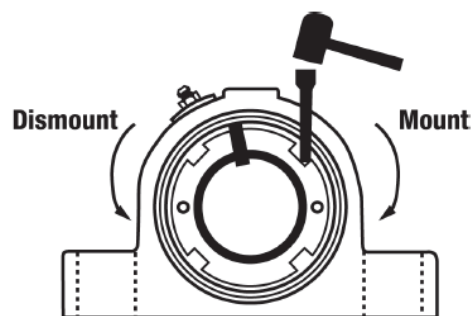


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Product differentiator – innovative shaft attachment methods

Patented ISN integral adapter system

- Integral adapter mounting and removal system
- Push to mount/pull to dismount adapter
- Easy 15 minute installation or removal
- Causes no shaft damage
- Single side access for installation and removal
- Set clearance by turning nut a specific distance past the zero point



Dodge ISN mounted spherical roller bearing

Product differentiator – innovative shaft attachment methods

Set Screw



- 500 hours in service
- Fretting corrosion on shaft
- Scar and mar on shaft
- Hard to remove the bearing

ISN



- 2500 hours in service
- No fretting corrosion on shaft
- No scars or marring
- Easy to remove the bearing

Dodge ISN mounted spherical roller bearing

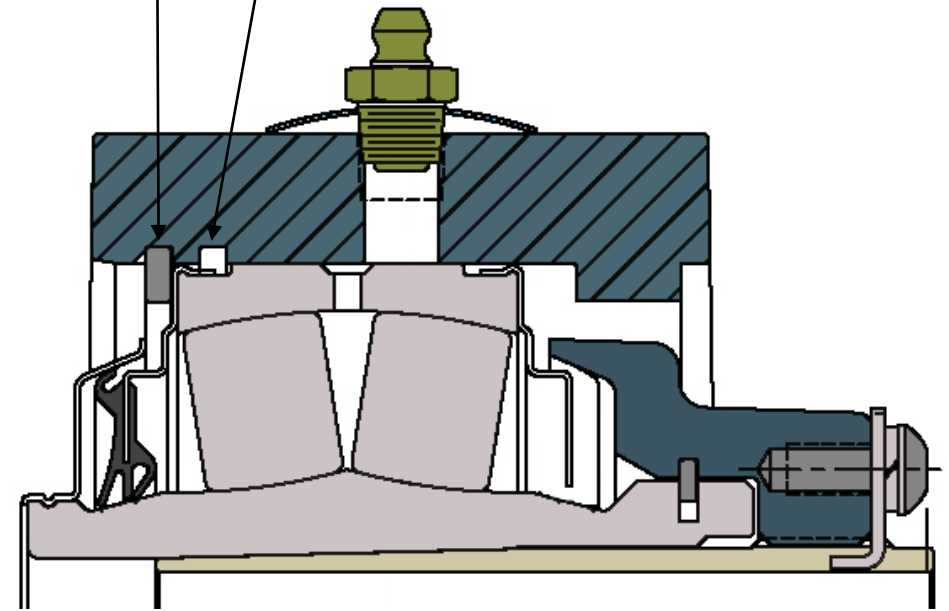
Expansion capability

Field convertible

- Easy conversion between expansion and non-expansion
- Snap ring re-positions from one housing bore groove to the other

Snap ring positioned in expansion groove

Snap ring groove for non-expansion



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Optional end covers

End covers for safety and reliability

- Keep workers safe from rotating shafts
- Helps prevent contaminants from coming in contact with the seal
- Durable
- Easy to install
- Open and closed versions available



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ISN in application

Belt conveyor assembly



Conveyor pulley assembly



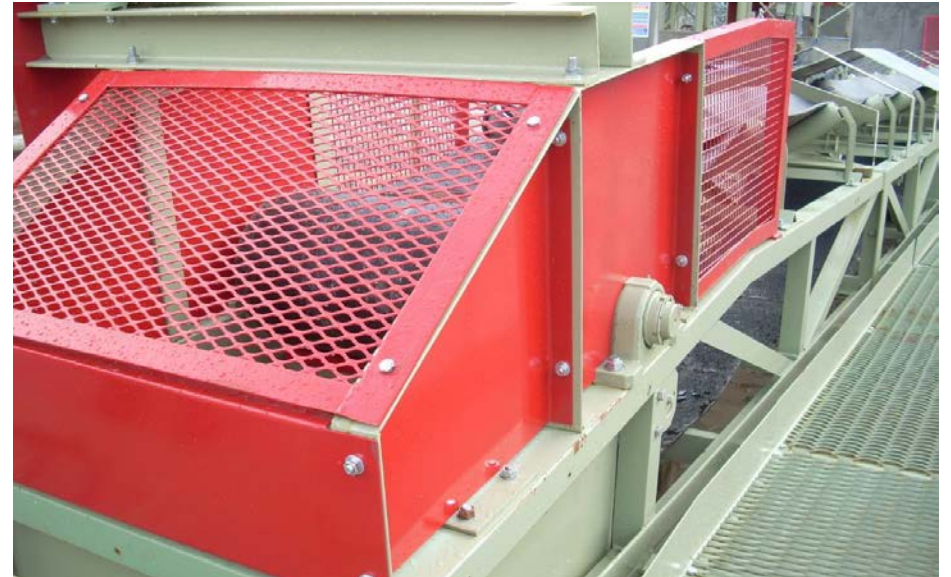
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ISN in application

Industrial fan



Quarry conveyor



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ISN in application

Pump system



Bucket elevator



ABB