CILINDRICAL ROLLER BEARINGS Applications

Common Applications



CRB Applications

Common in many industrial applications where radial

loads are prevalent



Flat and Long Product Rolling Mills



Coal Pulverizer Wheels



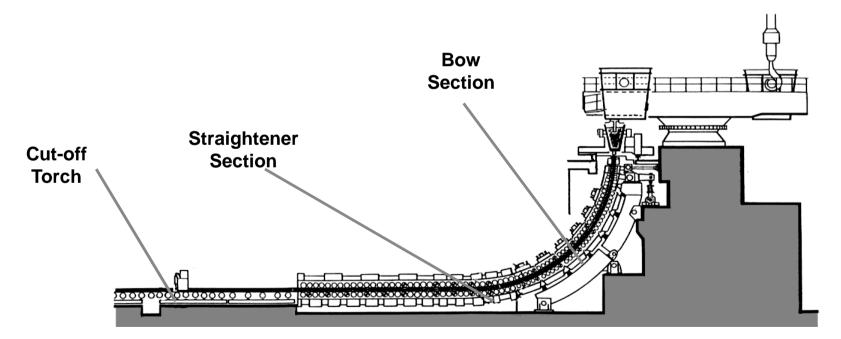


Casters



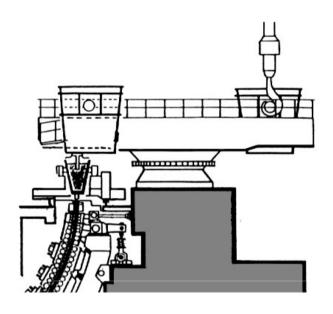
Metals - Continuous Caster

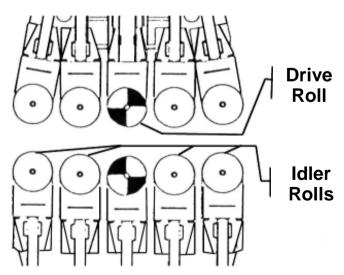
- Slab leaves mold and travels down [sometimes through a bender] to the Bow and Straightener sections
- At the bottom of the caster, continuous bar cut into separate bars by a gas torch





Metals - Continuous Caster





Ladle Turret

- Cylindrical, spherical, taper and ball thrust bearings up to 1200 mm (47.25 in) bore
- Radial cylindrical and spherical bearings

Mold Oscillator

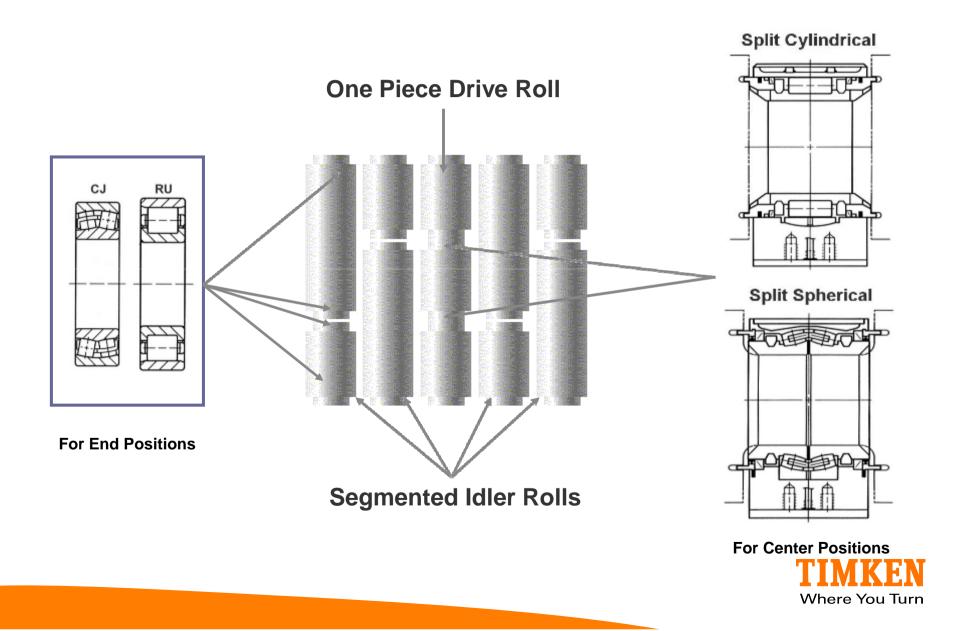
 Spherical, taper and cylindrical bearings with heavy duty cages and tight tolerances

Strand Segments

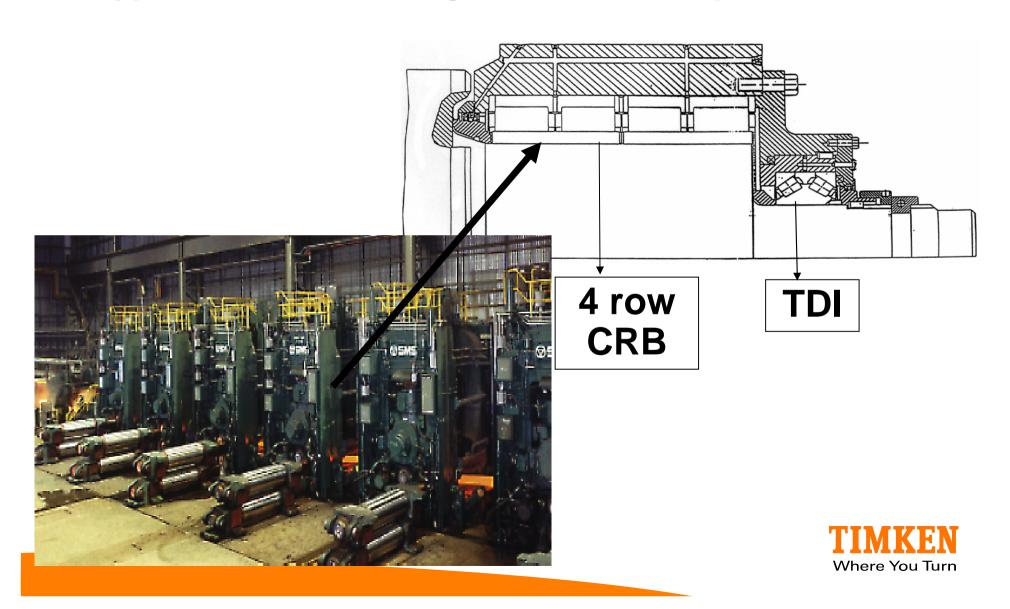
- Drive rolls:
 Spherical and cylindrical roller, split spherical, or split cylindrical roller bearings
 Water cooled split housings
- Idler rolls: Needle, spherical and cylindrical roller bearings



Continuous Caster - Segment Rolls



Typical Plate Mill Configuration – Back-up Roll

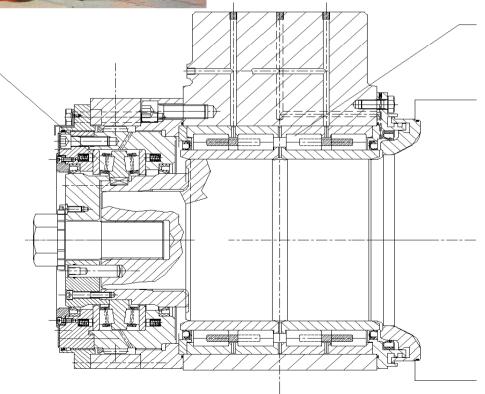


Typical Bar Mill Configuration – Work Roll



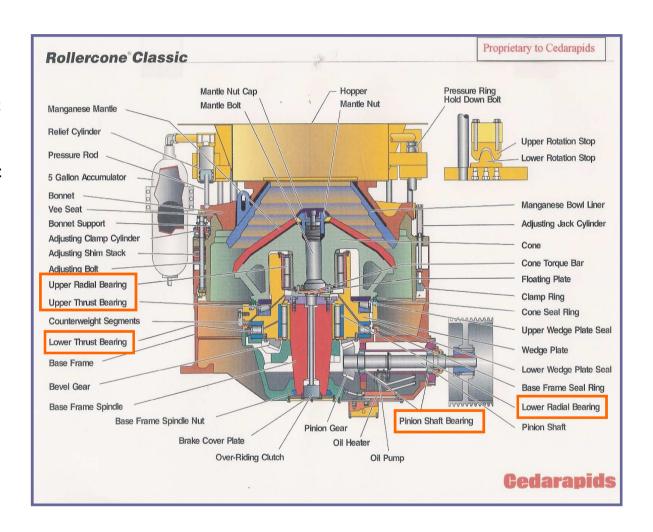
Radial bearing 4-row CRB Open or Sealed (bore 140-400mm)

Axial bearing TTDWK



Aridos – Machacadora de Cono

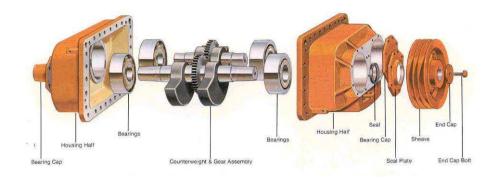
- Upper radial bearing: CRB
- Lower radial bearing: CRB
- Upper thrust bearing: Thrust TRB (TTVF type)
- Lower thrust bearing: Thrust CRB (TP type)
- Pinion shaft: TRB (TS type)



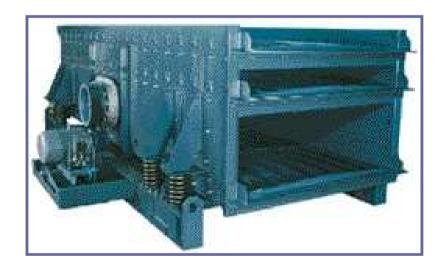


Aridos- Criba Horizontal

- Reciprocating action
- Uses multiple shafts with two bearings per shaft



Low Head Screen Bearing Assembly (CRBs)



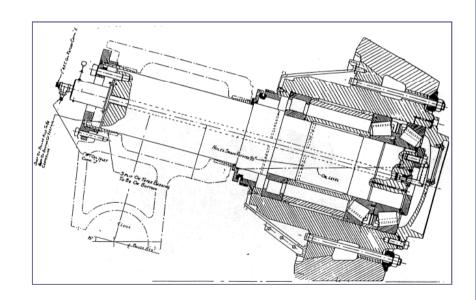


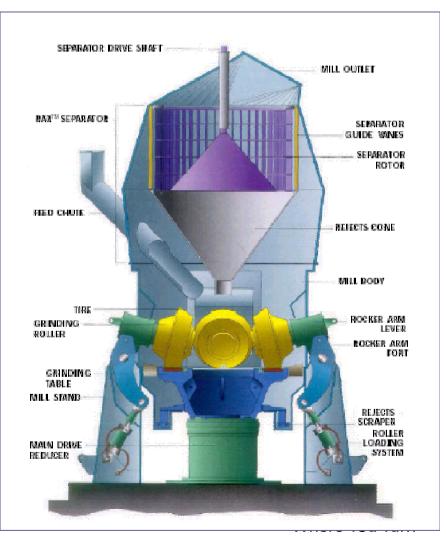


Cemento

Grinding Roller Bearings

- TRB in fixed
- CRB in float



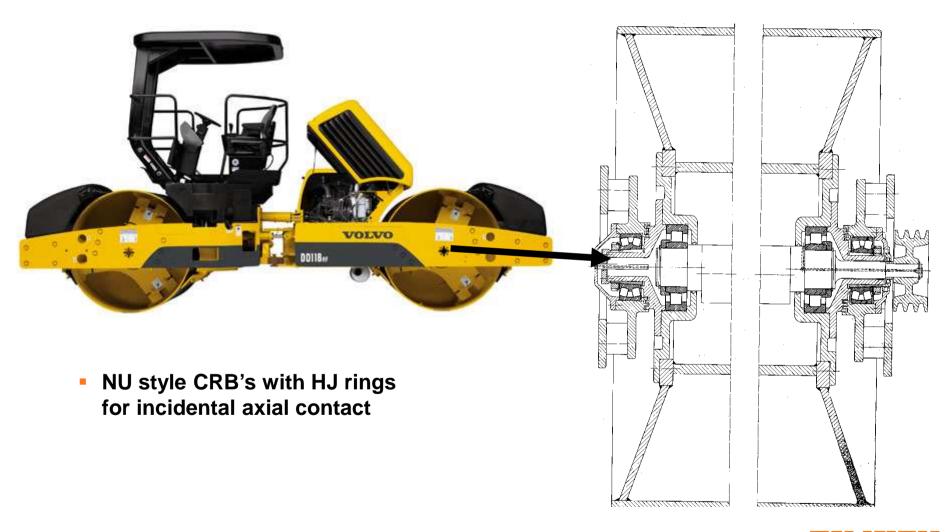


Construction – Front End Loader

N style CRB's Outboard planetary

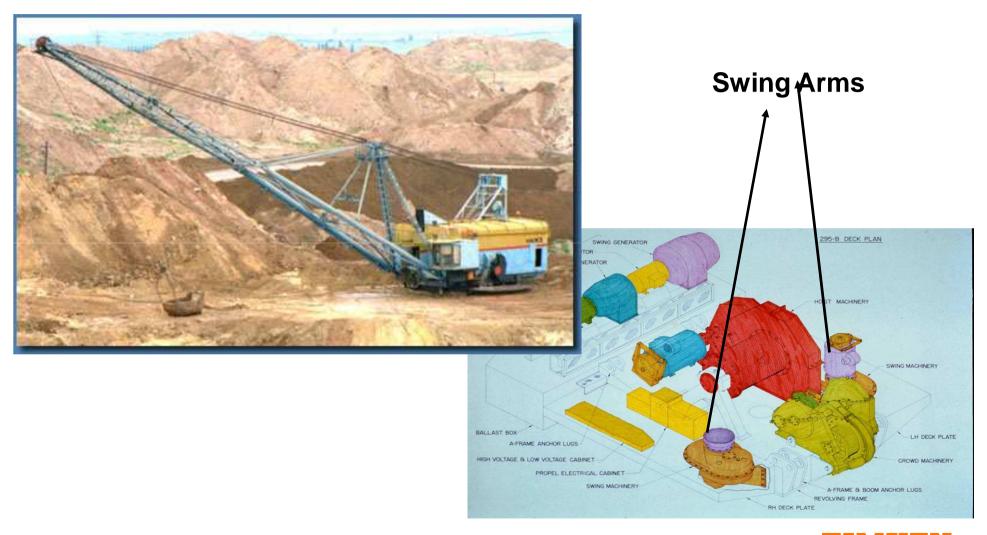
Where You Turn

Construction – Vibratory Compactors

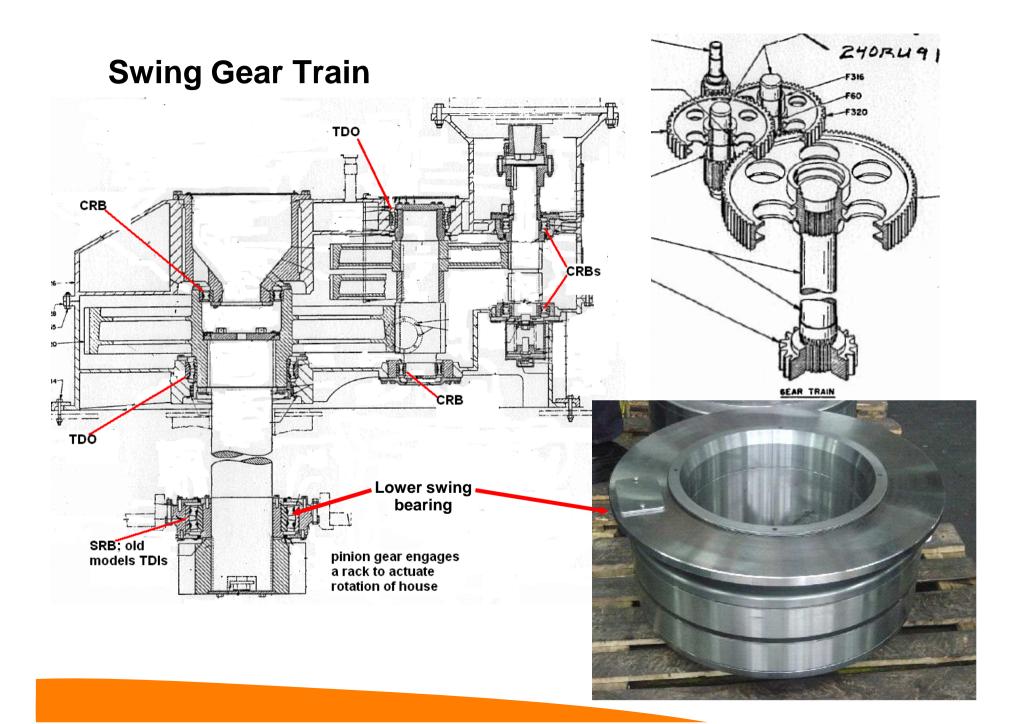


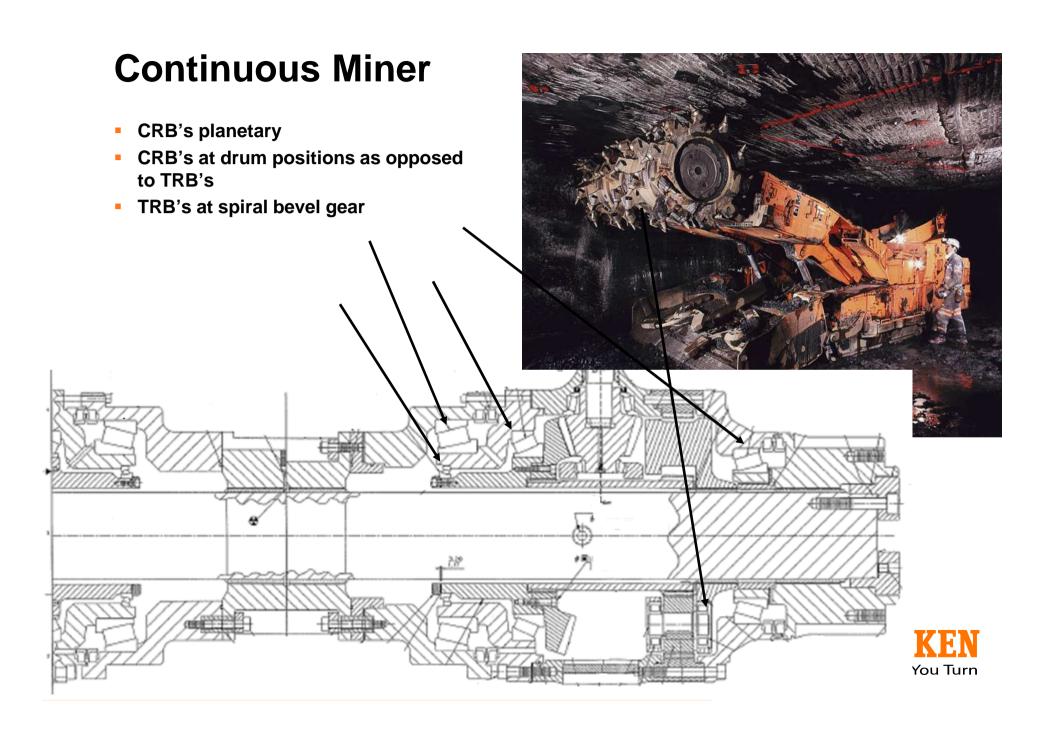


Mining Applications





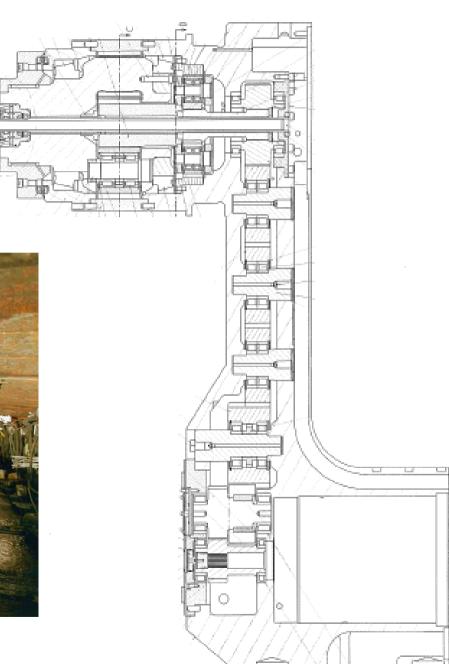




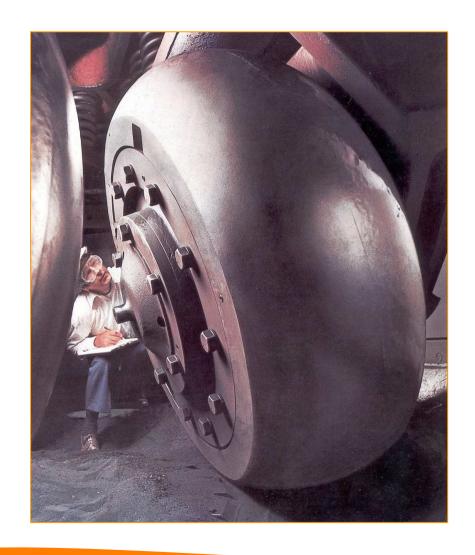
Longwall Shears

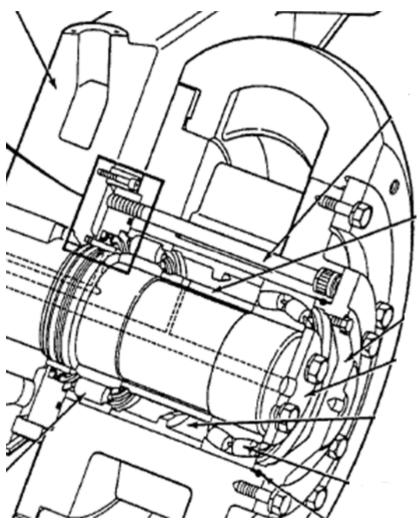
- Motor Input
- TRB's Cutter head
- NJ CRB's Idlers
- CRB planets





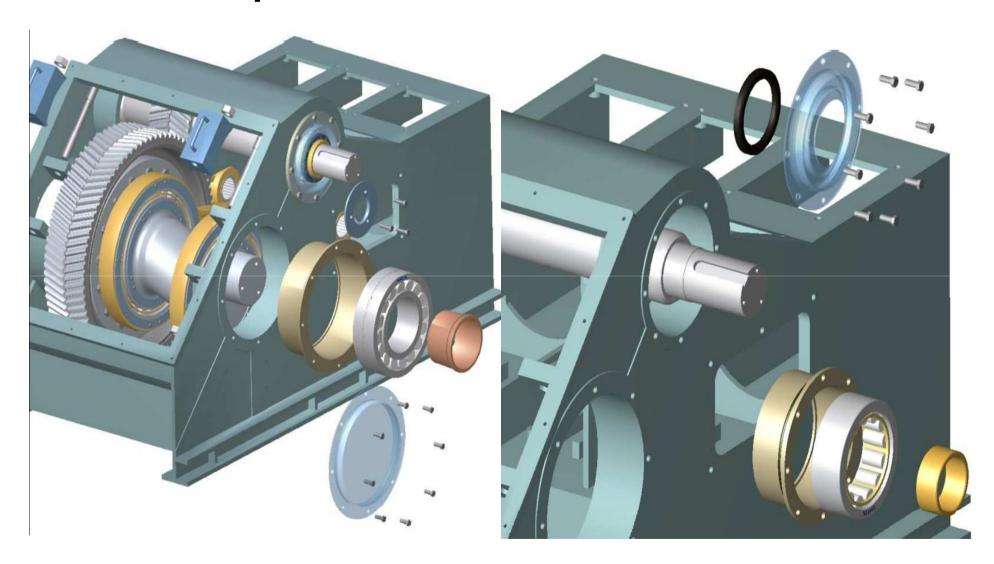
Pulverizer Wheels







Mud Pump

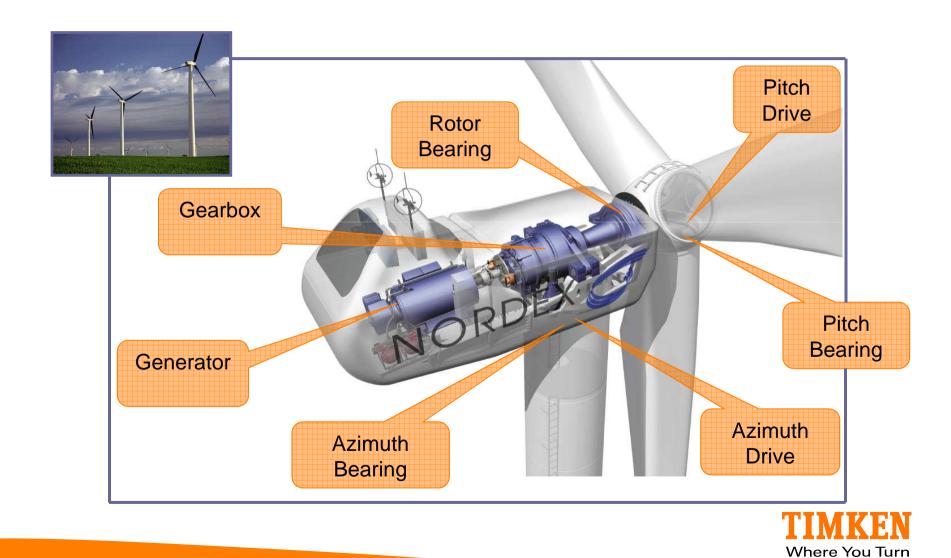




Mud Pump

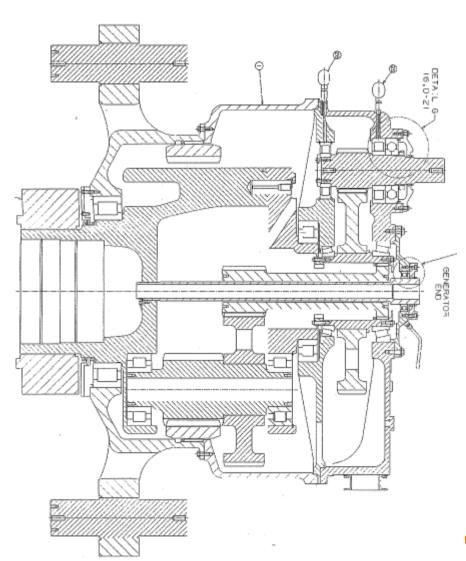
Crank - Eccentric Fractured Cylindrical Pinion/Crank - Support - TRB, CRB, SRB Where You Turn

Wind Turbines



Wind Turbines – Gear Drive

- NJ CRB's Carriers
- NJ CRB's Planets
- NU high speed output





Slurry Pump

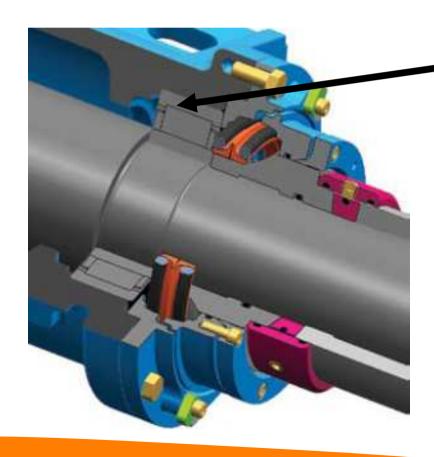
- Tandem Ball Bearing Fix Position
- CRB Float Position





Slurry Pump

NU Style Float Position

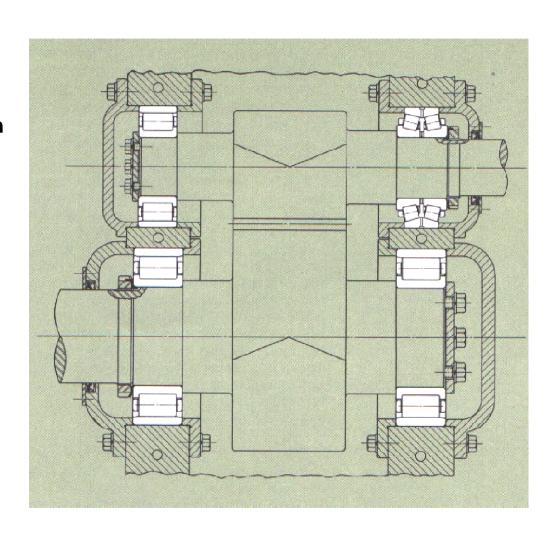






Gear Drives

- Float N Style CRB opposite input TRB Fixed
- N Style CRB on Output with Herringbone Drive





TIMES TO THE TOTAL TOTAL

