

Patterson 5 ft. Dia. x 6 ft. Long Ball Mill [Inventory ID #588838]



- 5 ft. 0 in. Diameter x 6 ft. 0 in. Long - Type "D" Non-Jacketed Steel Ball Mill
- Condition: New

Specifications

- Internal Mill Dimensions with Liner Plates Installed: 58-7/8 in. Diameter x 71-1/4 in. Inside Length
- Ball Mill Volume: Approx. 839 USG (112 cu.ft.)

Drive

- 30 HP
- 230-460 Volt
- 1725 RPM
- 3 Phase
- 60 Hz
- TEFC
- Enclosure
- Integrally Coupled to a Horizontal Parallel Shaft Helical Geared Reducer with Minimum AGMA Class II Gearing and Service Factor of 2.0 Minimum
- Output Shaft of the Gearbox is Installed the Pinion Gear Meshed with the Main Gear on the Mill Body
- Body Speed of the Mill is Approx. 17 RPM

Reducer

- SEW Eurodrive or Equal Horizontal Foot Mounted Parallel Shafted Helical Geared Unit with a Ratio of Approx. 14:1 Output Speed 125 RPM Full Load Motor Speed of 1750 RPM

- Mechanical Rating of 60 HP Minimum

Spur Gear

- Gear and Pinion Ratio 7.158 Approx.
- Class 40 Cast Iron or Equal Machine Cut Fine Tooth Helical Spur Gear
- 136 Teeth
- 2 D.P
- 20° Pressure Angle
- 5 in. Face Width

Pinion Gear

- SAE 1045 or Equal Forged Steel Machine Cut Fine Tooth Helical Pinion
- 19 Teeth
- 2 D.P
- 20° Pressure Angle
- 5 in. Face Width
- Body Speed Approx. 17 RPM

Mill Guarding

- Comes Supplied with Full Type Split Gear Guard

Mill Interior Finish

- Mill Shell Lined with 24 x ¼ in. Thick Liner Plates
- Head Each Lined with 8 x 3/8 in. Thick Pie Shaped Liner Plates
- Liner Plates Retained in Place by 8 x Bolted-In Lifters/Retainer Bars
- Inlet and Mill Trunnion with Lifter Inside Diameter to Suit 6 in. Diameter Feed Auger and Ball Retaining Screen

Mill Cylinder

- Fabricated Weldment Consisting of Fabricated Steel Ribbed Heads and Carbon Steel Shell
- Opening for Charging of the Mill is Cut in the Shell and Door Frame is Welded Around Opening
- Opening: 14 in. x 20 in.
 - Allow for Installation of Liner Plates
- Fabricated Steel Mill Heads Have Bearing Trunnions
 - Some 10 in. Diameter
- Drive Head has an External Flange
 - Main Bull Gear is Mounted

Cylinder Access Door

- Fabricated Steel Grinding Door Complete with
 - 3/8 in. 60 Durometer Neoprene Rubber Gasket

Trunnion Bearings

- Cast Iron Split Cap and Bottom Housing with
 - Poured ASTM Alloy Grade 7 Babbitt
 - Machined
 - Grease-Grooved Surface
- Top Caps have a Cavity for Filling with Bearing Block-Type Brick Grease-Grooved Surface
- Bottom Halves have Externally Cast Spherically Contoured Body Seats into their Counterpart
- Bearing Sockets and Bearing Socket Brackets are Bolted to the Support Stand
- Bearings: 10 in. Diameter with
- Heavy Duty
- SKF or Equal
- Adaptor Sleeve Mounted
- Spherical Roller
- Self Aligning Pillow Block Bearing with
 - Cast/Ductile Iron Bodies and Standard Double Lip Seal

Support Stands

- Fabricated Weldments using
 - Standard Structural Steel and Plate Sections
- Stands are Designed for 66 in. Clearance Between Mill Cylinder and Floor
- Stands are Upper Pad Surface for Bolting Together with Bearing Socket Bracket

- Location: Western USA

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