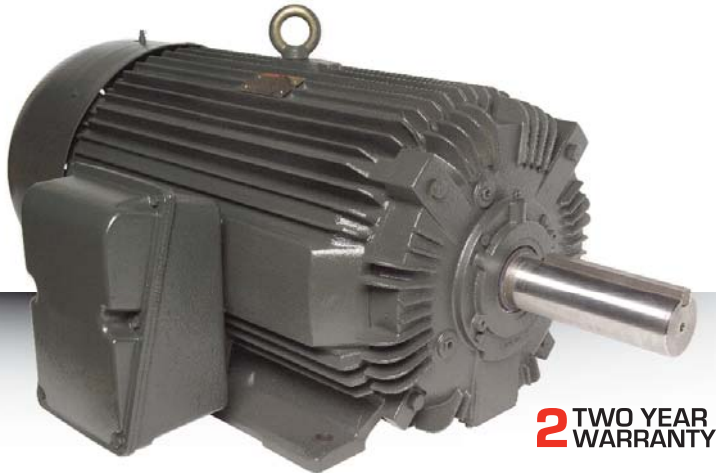


TOSHIBA

Leading Innovation >>>



Toshiba's Quarry Duty motor has a proven track record of exceeding the extreme demands of the aggregate & cement and mining & mineral industries.

The Quarry Duty motor utilizes a totally enclosed fan cooled design and provides exceptional high-starting torque, oversized superior-grade roller bearings, and shafts built with high strength 4142 steel to withstand the harshest environments. The roller bearings on the motor's drive-end allow for heavy radial loads normally associated with belt-driven applications. These key features allow our Quarry Duty motors to provide optimum reliability, performance, and efficiency for the toughest aggregate and mining operations.

- High-Starting Torque
- High Efficiency Design
- Cast Iron Construction
- IP54 Protection
- 4142 Shaft Steel
- Bearing Lock Nuts for Vertical Mounting

Horsepower	125 to 600 HP
Speed (60 Hz)	1800, 1200, or 900 RPM
Voltage (60 Hz)	460 or 575 V
Enclosure	Totally Enclosed Fan Cooled
Frame Size	505U through 5810U
Protection	IP54
Construction	Cast Iron (Frame, Bearing Brackets, & Conduit Box)
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)
Vibration	Typically 0.10 Inches/Second or Less (Unfiltered)
Environment	Severe Duty



QUARRY DUTY

LOW VOLTAGE MOTOR
SEVERE DUTY





BUILT FOR MINING OR AGGREGATE APPLICATIONS



Nameplate

- Stainless Steel
- Etched Lettering
- Four-Rivet Mounting



Construction

- Cast Iron Frame & Bearing Brackets
- Totally Enclosed Fan Cooled
- 4142 High Strength Shaft Steel
- Corrosion-Resistant Grade-8 Hardware as Standard
- IP54 Protection



Conduit Box

- Gasketed Cast Iron Construction
- Provision for Grounding
- Lead Seal Protection
- Terminal Lugs
- Rotatable (90°)
- NPT Conduit Opening



Bearing System

- Oversized DE Roller Bearings
- Bearing Lock Nuts for Vertical Mounting
- DE Ring Shaft Slinger
- Efficient Flow-Through Grease Path for Improved Purging & Circulation



Insulation System

- Major Components Made from Class H Rated Materials
- Low-Loss Electrical Steel
- Exceeds NEMA MG1 Part 31
- Voltage Withstand Capability of 2000 V in 0.1 μ s
- Large Thermal Margins for Extended Life & Reliability
- Phase Paper & Coil Bracing on Both Ends on All Motor Ratings



Testing

- 100% No-Load Commercial Test & Vibration Test on All Motors
- 100% of Bearings are Ball-Pass Frequency Tested
- Commercial Test Report with Vibration Data Supplied with All Motors

