

# TOSHIBA

Leading Innovation >>>



## INDUSTRIAL DIVISION

MOTORS, DRIVES, & MOTOR CONTROLS





## Adjustable Speed Drives

Toshiba produces award-winning low voltage drives ranging from fractional to 1500 HP and 230 to 690 V and medium voltage drives ranging from 300 to 10,000 HP and 2300 to 6600 V.



**+ PLUS PACK**

### Plus Pack ASD

- 60 to 1500 HP
- Virtual Linear Pump (VLP™) Technology
- Load-Balancing Over Multiple Devices
- Outdoor & Indoor Applications (NEMA® 3R or NEMA® 1)
- Open- & Closed-Loop Speed Control
- User-Friendly Operator Interface
- 6-Pulse, 12-Pulse, & 18-Pulse Input Rectifier Designs with Patented Auto-Transformer Technology



**G9**

### G9 ASD

- 1 to 350 HP
- Most Advanced Severe Duty Drive Ever Offered by Toshiba
- Highest Standard Overload Rating in Industry
  - 115% Continuous & 150% for Up to Two Minutes
- SS Overload Protection
- Adjustable Acceleration/Deceleration
- Flying Start
- Power Ride-Through
- Output Frequency 0.01 to 299 Hz



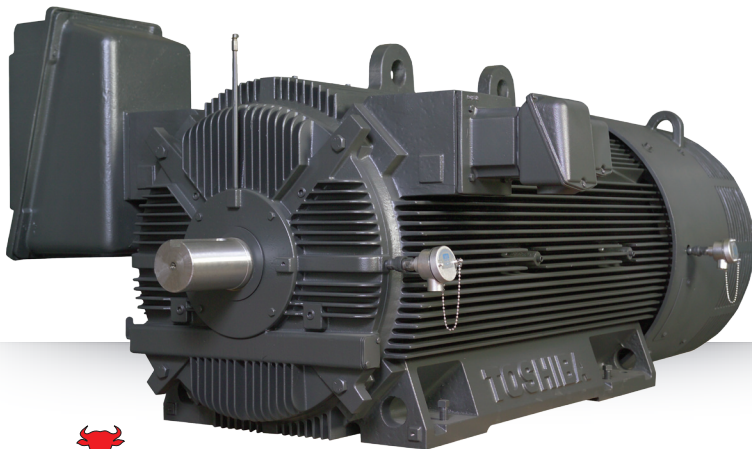
**T300MVi®**

### T300MVi® ASD

- 2400, 4160, & 6600 V
- Three Cables In, Three Cables Out
- 24-Pulse Harmonic Cancellation Complies with IEEE-519-1992
- Higher True Power Factor (0.96) than Running Motors Across-the-Line
- Advanced Electronics Reduce Component Count
- Additive Multi-Level Pulse Width Modulation (PWM) Output Voltage with No Neutral Shift
- Small Footprint
- Ten-Year Mean Time Between Failures

## Motors

Toshiba low voltage motor products range from 1/2 to 800 HP and 230 to 575 V. Medium voltage motors range from 200 to 50,000 HP and 2300 to 13,800 V.



**DURA-BULL TX<sup>®</sup>**

### Dura-Bull TX<sup>®</sup> Motor

- 200 to 2000 HP
- Extreme Performance, Multiple-Mount, & Low Maintenance Motor & Starter/Drive Combinations (Smooth Start)
- Sleeve Bearing & Copper Bar Rotor Capability
- Side-Ventilated Cast Iron Fan Covers Allow Installation in Tight Spots where Traditional End-Ventilated May Restrict Cooling
- Low Temperature, Low Vibration Design
- Oversized Cast Iron Main Terminal Box with F1, F2, or Top-Mount Capability
- Multi-Functional Cast Iron Auxiliary Terminal Box Configuration
- Oversized, Same Diameter Bearings on Both Ends for Extended Life



**EQP Global<sup>™</sup>**

### EQP Global<sup>™</sup> Motor

- 3/4 to 700 HP
- Meets or Exceeds Energy Independence & Security Act of 2007 (EISA) Requirements
- Series Includes:
  - Severe Duty
  - Mill & Chemical 840
  - Petro-Chem 841
- Cast Iron Construction
- Totally Enclosed Fan Cooled
- NEMA Premium<sup>®</sup> Efficiency Levels on Applicable Ratings
- Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)

## Motor Controls

Toshiba is a world leader in motor control technology, producing low and medium voltage control products from 208 to 6600 V.



**JK SERIES**

### JK Starter

- 400 & 700 A
- One- or Two-High Design on FVNR or Feeder Design
- No Internal Power Cables
- Streamlined, Space Saving 30" Wide Design
- Isolation Switch with Visible Disconnect
- Includes:
  - Safety Interlock Grounded in Open Position
  - Patented Bolted Pressure Isolation Switch Connections
  - Zero-Insertion Pressure for Increased Life
  - Low Resistance Connection for Decreased Heat Loss
  - Separate Medium & Low Voltage Compartments
- Current Limiting, High Interrupting Power Fuses
- UL Listed

## ONE CALL. ONE SOLUTION.

Toshiba International Corporation (TIC) is a Toshiba America Inc. (TAI) Group Company, a wholly owned subsidiary of Toshiba Corporation. TIC's Industrial Division is headquartered in Houston, Texas and employs approximately 1,200 people. With an extensive product offering ranging from electric motors and adjustable speed drives to uninterruptible

power systems and super-charge ion batteries, TIC provides application solutions to a wide range of industries. Most products are manufactured at our one million square foot state-of-the-art manufacturing facility, in Houston, Texas. We are proud to be a single-source solution for our customers.

### > In-House Services

- Research & Development
- Field Service
- Design & Engineering
- Customer Service & Project Management
- Manufacturing
- Logistics & Warehousing
- Sales & Marketing
- Product Application & Field Service Training
- Applications Support

### > One Stop for All Your Product Needs

Our comprehensive product offering and large installed base demonstrates our customers' confidence in choosing Toshiba. Since our products are manufactured under one roof, we can offer customized solutions to meet your application needs.

We also have the capability to test our products together, as a complete system, before it goes out into the field—ensuring the highest level of quality, performance, and reliability.

### > Applicable Industries

- Aggregate & Cement
- Assembly
- Food & Beverage
- Oil & Gas
- Mining & Mineral
- Textiles
- Pulp & Paper
- Water/Wastewater
- Utilities



#### TOSHIBA INDUSTRIAL PRODUCTS:

- Adjustable Speed Drives
- Motors
- Motor Controls
- Instrumentation & PLCs
- Uninterruptible Power Systems

**TOSHIBA**  
Leading Innovation »»

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