

TOSHIBA

Aggregate, Cement & Quarry Solutions

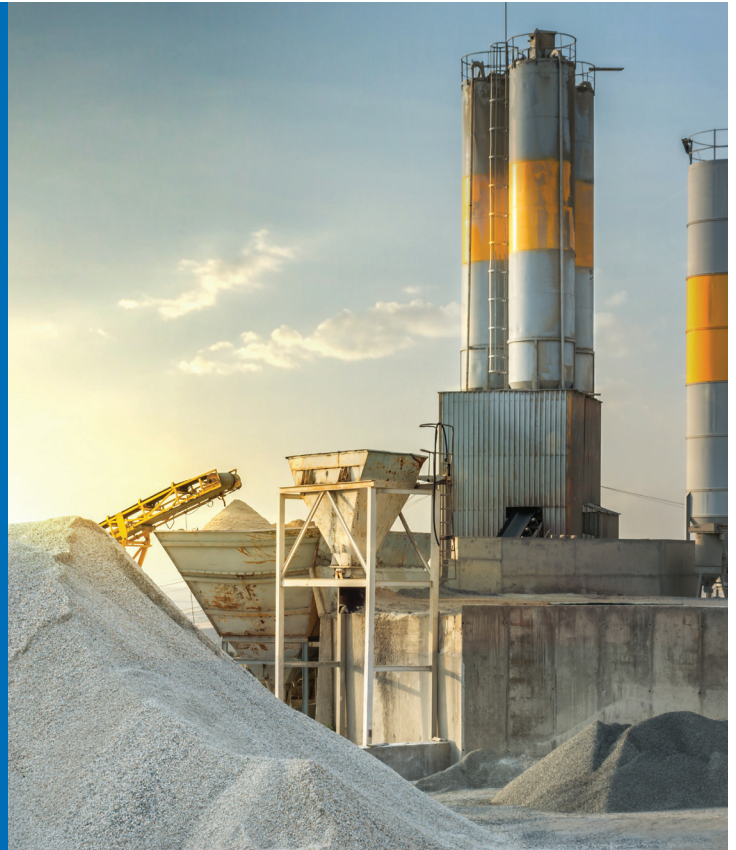
Motors, Drives, Controls & Industrial Automation

A close-up photograph of a blue industrial conveyor belt system. The belt is filled with large, light-brown aggregate material, likely crushed stone or gravel. The structure is made of blue metal frames and rollers. The background is a clear, light blue sky.

**Robust Solutions for Aggregate,
Cement & Quarry Applications**

Worldwide demand for aggregate and cement continue to rise as infrastructure repairs and upgrades become more urgent. From mining of materials such as sand, gravel, and stone, to recycling concrete, these processes require industrial solutions to keep operations running as efficiently as possible while maintaining optimal performance in the most severe industrial environments.

Toshiba's aggregate and cement solutions are equipped with rugged designs and enclosures to maximize system uptime and minimize routine maintenance, which in turn extends the life of the system and lowers operational costs. Coupled with Toshiba's extensive understanding of specific application needs, Toshiba solutions are backed with the reliability performance the industry has come to expect from Toshiba products.



TRUSTED COMPLETE PACKAGED SOLUTIONS

Toshiba International Corporation's (TIC) products undergo a vigorous testing process at on-site test labs. Having an in-house testing facility allows TIC to test products together, as a complete system, before it goes out into the field-ensuring the highest level of quality, performance, and reliability. TIC's test labs meet ISO 9001:2015, NVLAP (Lab Code 200088-0), and/or UL accreditations.

SUPERIOR STANDARDS

- Reliability and Up-time
- Lower Lifecycle Costs and Extended Life
- Excellent Performance and Efficiency for Reduced Energy Costs
- Superior Support and Reduced Maintenance Costs
- One Stop Solution - Single Source Supplier of Integrated Motor & Drive Systems



TOSHIBA

CUSTOM CAPABILITIES FOR ULTIMATE PERFORMANCE & RELIABILITY

ADJUSTABLE SPEED DRIVES

Toshiba's adjustable speed drives can be used to optimize control and energy consumption. Offering some of the highest overload ratings in the industry, these drives can operate continually in demanding aggregate and quarry applications while their efficiency, smaller footprint and reduced component count help to reduce production costs. Toshiba's low voltage adjustable speed drives are reliable and efficient, making them ideal for use in pump, fan, compressor, elevator belt, separator, and load sharing applications.

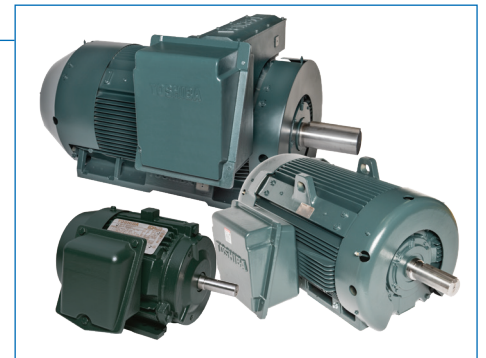
- **AS3 UL Type 12 / IP55:** 380 to 460 V at 0.5 to 100 HP HD (1 to 125 HP ND)
- **AS3P Outdoor:** 380 to 460 V; 7.5 to 450 HP HD (10 to 500 HP ND)
- **Plus Pack Outdoor:** 380 to 460 V; 100 to 1500 HP
- **MTX2® Outdoor:** 4160 V at 500 to 1,500 HP and 3,500 to 6,000 HP



MOTORS

Toshiba's motor solutions can be effectively used to help minimize down time and maximize production and are an excellent choice for crusher, mill, slurry pumps and material handling system applications. Toshiba motors are designed and manufactured for dependability and premium performance. These motors' unique multi-mount capabilities also provide flexibility in a wide range of applications.

- **EQP Global® Quarry Duty:** 460 or 575 V, 5 to 750 HP
- **EQP Global® 587 Design C:** 2300/4000 V, 250 to 750 HP
- **Wound Rotor:** 3000, 3300, 4160, 6000, 6600, 10000, 11000 V; 150 to 15000 kW



CONTROLS

Toshiba's motor controls are designed to softly start and stop AC motors in fixed speed applications, helping to reduce wear and tear on the motors. Toshiba's motor controls are constructed to help improve product performance and are an excellent option for use with conveyors, compressors, fans, and pumps.

- **TE3 Soft Starter Series:** High-end, digitally programmable, reduced voltage heavy-duty starter.
- **TE-H & TE-B Soft Starter Series:** TE2 Series soft starters in heavy-duty enclosure that is ready to work right out-of-the-box.
- **JK Series Medium Voltage Solid State Starters:** Compact controller design available in indoor and outdoor enclosure ratings.

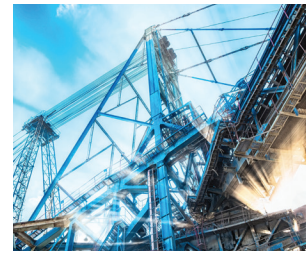


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APPLICATION SOLUTIONS

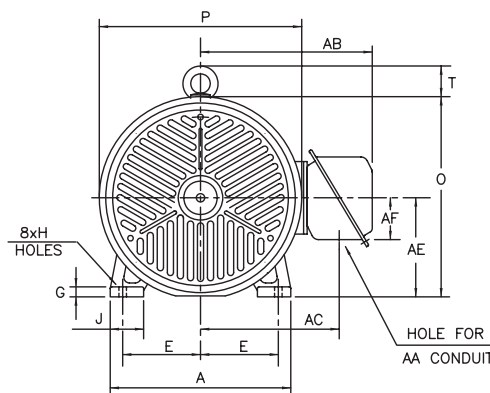
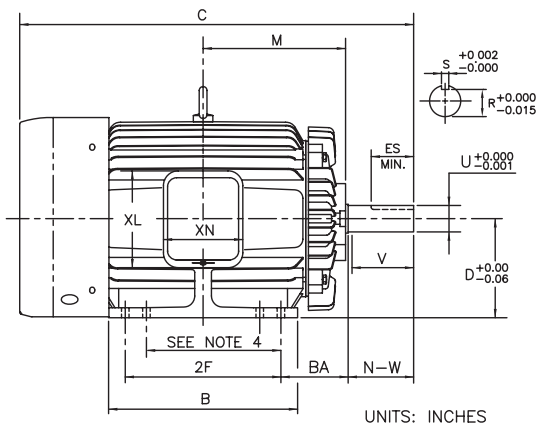
	PUMPS	MILLS	CRUSHERS	FANS	COMPRESSORS	CONVEYORS
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LOW & MEDIUM VOLTAGE DRIVES						
AS3 General Purpose	•	•	•	•	•	•
AS3 UL Type 12 / IP55	•	•	•	•	•	•
Plus Pack Outdoor	•	•	•	•	•	•
MTX® Outdoor	•	•	•	•	•	•
LOW & MEDIUM VOLTAGE MOTORS						
EQP Global® 840	•	•		•	•	•
EQP Global® Quarry Duty		•	•	•		•
EQP Global® 587		•	•	•	•	•
Wound Rotor	•	•	•	•	•	•
CONTROLS						
TE Series Soft Starters	•	•	•	•	•	•
TE-H & TE-B Series	•	•	•	•	•	•
TE Chassis Retrofit	•	•	•	•	•	•
JK Series MV Motor Starter & Solid State Starter	•	•	•	•	•	•



NEMA FRAMES CHART

Toshiba Frames	D	E	2F	H	BA	N-W	U	R	ES	S
S449T	11.000	9.000	25.000	0.820	7.500	8.500	3.375	2.880	6.910	0.875
B449T	11.000	9.000	25.000	0.820	7.500	8.500	3.375	2.880	6.910	0.875
5010UZ	12.500	10.000	32.000	1.120	8.500	11.620	4.375	3.817	10.000	1.000
B587LL	14.500	11.500	25.00/28.00/ 35.00/36.00	1.190	10.000	8.250	5.250	4.550	10.000	1.000
S587LQ	14.500	11.500	25.000	1.190	10.000	11.625	4.375	3.817	10.000	1.000
5810UZ	14.500	11.500	36.000/32.000	1.200	10.000	11.620	5.250	4.550	10.000	1.250



TOSHIBA SOLUTIONS

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



www.toshiba.com/tic
Motors • Adjustable Speed Drives • Controls • Industrial Automation

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