

MARATHON® TERRAMAX® MOTORS FOR STONE PROCESSING EQUIPMENT

IE2(SCA), IE3(TCA) & IE4(QCA) EFFICIENCY



Over the last few years the demand for stone processing equipment (granite, marble and sandstone) has been continuously increasing, which has led to the OEM's shifting to general stone machines which are suitable for all types of stones. Electric motors play a major role in converting electrical energy into useful mechanical energy. Due to such wide requirements these motors has a significant impact on the industries around world. Stone processing equipment requires high quality service due to their rugged usage in tough environments. Marathon® motors, under its sub-brand TerraMAX® motors, are high quality, high efficiency specialized motors that can be used to drive stone processing equipment.

BENEFITS

- Low vibration
- Low noise
- Extended service life of parts
- Hassle free performance
- Global design
- Safe and reliable

ELECTRICAL FEATURES

- Voltages 220V to 690V
- Frequencies (50Hz / 60Hz)
- Class 'F' insulation

ELECTRICAL OPTIONS

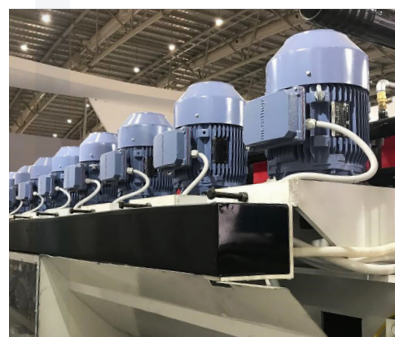
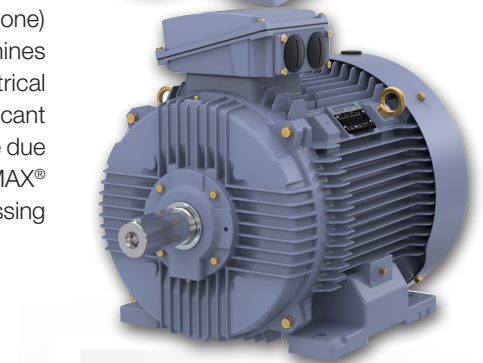
- Bearing sensors
- Space heater
- RTD (Resistance Temperature Detectors)
- BTD (Bearing Temperature Detectors)
- Anti-condensation heaters
- Thermistors (PTC)
- Tropicalized windings

MECHANICAL FEATURES

- Totally Enclosed Fan Cooled (TEFC)
- Ambient Temp -20°C to +40°C (+50 DegC for India)
- Motor dimensions as per IEC®* 60072 standard
- Condensation drain holes (from 160 frame onwards)
- Grade A vibration level as per IEC 60034-14
- Terminal box rotation by 180° upto 132 frame; by 90° from 160 frame onwards
- Stainless steel nameplate
- Sheet metal fan cover

MECHANICAL OPTIONS

- Encoder mounting provision
- Cable glands
- Brakes
- Roller bearing
- Provision for mounting SPM probe
- Double shaft extension
- Auxiliary terminal box for accessories
- Rain cap
- EN24 shaft



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TYPICAL REQUIREMENTS

Type of equipment	Major Ratings
Wiresaw	15 kW 4 Pole B3, 30 kW 4 Pole B3 & 45 kW 4 Pole B3
Gantry cranes	From 7.5 kW to 18.5 kW 4 Pole B3
Sandstone Gangsaw	37 kW 6 Pole B3, 45 kW 6 Pole B3 & 55 kW 6 Pole B3
Marble Gangsaw	75 kW 4 Pole B3, 132 kW 4 Pole B3 & 110 kW 6 Pole B3
Granite block cutter (Single blade)	22 kW 6 Pole B3 & 30 kW 6 Pole B3
Granite block cutter (Multi blade)	37 kW 6 Pole B3, 45 kW 6 Pole B3, 55 kW 6 Pole B3, 55 kW 4 Pole B3 - All with roller bearings
Line polishing machine	7.5 kW 4 Pole B5, 9.3 kW 4 Pole B5 in 132M⁽¹⁾ , 11 kW 4 Pole B5 & 15 kW 4 Pole B5
Resin Lines	1 HP 4 Pole B5 - Worm geared motors

⁽¹⁾ Special offering for this model to meet the application demand.

