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Torque Motors

ETEL

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I TMC - HIGH DENSITY TORQUE MOTOR



The TMC family aims to bridge the gap between the existing

TMB+ and TMK ranges. It is meant for applications requiring high torque output in an ultra-compact environment, at an aggressive cost per performance ratio.



The TMC family was designed with compactness and performance in mind. Depending on diameter and height, TMC delivers between 33% and 120% more torque performance while maintaining the same stator footprint as the equivalent TMB+. TMC's has the best torque density in the market!

In case the extra performance is not needed, it is possible to select a shorter motor, increasing the available workspace inside the machine. For high-end applications, the motor can also run at lower torque, reducing the overall losses and heat generation in the machine. This way, overall accuracy and repeatability will be greatly improved. On top of that, the maximum continuous torque Tc is available on a much broader speed range than TMB+. While TMK family remains the king of high-speed applications, TMC can nicely close the gap between the TMB+ and TMK when medium speeds are targeted, at a much more market compatible price tag.

TYPICAL APPLICATIONS

- · Rotary tables (compactness)
- High-end milling (Km efficiency)
- Grinding (speed range)
- · Drastically increased torque within same stator footprint
- Reduced footprint & increased workspace (with a smaller motor)
- Run at lower capacity to reduce heat generation: increased accuracy & repeatability

MAIN FEATURES / HIGHLIGHTS

- Much higher torque density
- · Constant torque over the whole speed range
- Attractive cost per performance
- Updated magnetic design: up to 120% better Tc and Tp
- Special coil design: max Tc available on full speed range
- · Semi-automated manufacturing: highly repeatable performance
- Design to cost: optimized price (up to 40% better €/Nm ratio)

TMC's continuous torque is 15 to 30% above best competitor products available in the market, and it constitutes an excellent alternative to conventional torque motors in all applications that look for the best performance in a compact environment, namely high precision machining, grinding and rotary tables.

TMC MOTORS RANGE





