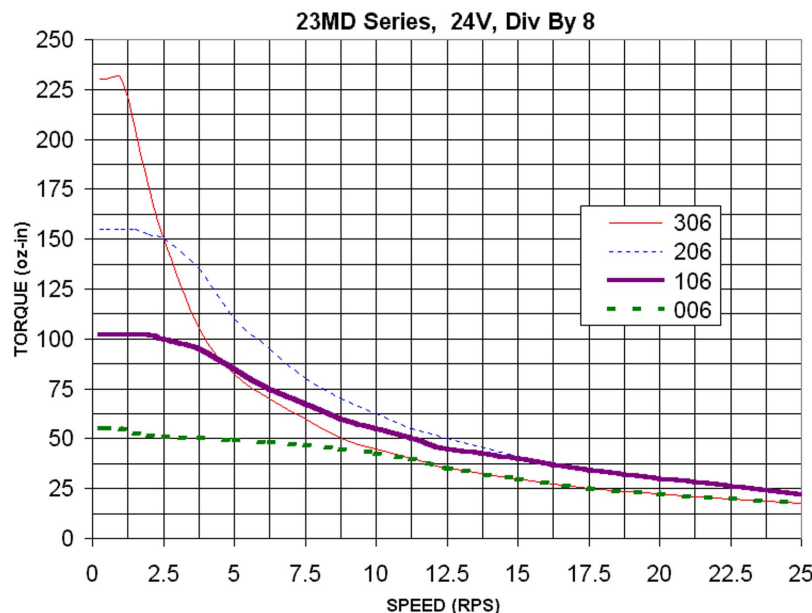


# 23MD Series Motor / Driver Combination PRODUCT RELEASE

- **Step Motor / Microstep Driver Combination**
- **Eliminates Motor Wires**
- **Encoder Options Available**
- **Microstep Divisors of 8, 4, 2, or Full Step**
- **Compact Package**
- **12-24V Power Requirement**
- **TTL Logic or 24V Level Inputs Available**
- **Ideal for Precise Positioning**
- **0.225° Resolution at Eighth Step**
- **Efficient and Durable**
- **Long Life Expectancy**



The 23MD Series is a compact construction that implements a microstepping driver and a step motor in one streamline package. With the two parts combined into one casing, the need to include motor wires has been eliminated. The high-torque step motor can generate up to 230 oz-in of torque. The microstepping driver will operate off 12VDC minimum to 24VDC maximum with a maximum power intake of 40W. The inputs are capable of running from either open collector or TTL level logic outputs, or sourcing 24VDC outputs from PLCs. The microstepping driver features resolutions from 200 - 1600 steps/revolution, providing smooth rotary operation. The 23MD series comes in either a single-shaft version or a double-shaft version with optional encoder and motor stack lengths of 1/2, 1, 2, or 3 allowing for varying amounts of start-up torque and inertia. The 23MD series features include built in over temperature and short circuit shut down, automatic 70% reduction in current after clock pulses stop being received, and status LED's to indicate power on (green LED) and clocks being received (yellow LED).



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