

Platform 2100 Brush Servo Motor Provides a Superior Measure of Success

A leading manufacturer of precision coordinate measuring machine had a number of specific requirements for servo motor designs used in a key CMM instrument that was targeted to be a large seller to a wide range of industries that the manufacturer served. Both optimum performance and fit were of major importance to the manufacturer.



The Coordinate Measuring Machine operated in frequent acceleration and deceleration modes. At low speed, the machine needed to maintain high accuracy measurement. The DC servo motors driving the system had to run with minimal cogging to achieve this capability. A Torque Systems proprietary low cogging feature was designed into the 2100 Series standard platform motor to provide smooth, slow speed operation during acceleration and deceleration - a critical performance enhancement to ensure the measuring instrument's precision and accuracy.

Torque Systems also provided customized interfacing with their equipment. The customer specified a metric mounting plate and equipment specific connectors and cables. These features enabled the customer to maintain their optimum design without compromising to fit an "off the shelf" motor.

The end result was a not only a highly precise and accurate machine, but the support of the manufacturer's excellent reputation with the customers that they serve.