

BNL 2310 Brushless Servomotor Improves Wire Bonder Performance

A leading OEM of wire bonding equipment for the semiconductor industry had been producing various models for several years. For many of these years, a competitive brushless servomotor was used to power the precision motion needed in the equipment. The wire bonder manufacturer began to have problems with product support and availability because the motor manufacturer had decided to discontinue the servomotor model.



The wire bonder manufacturer needed to replace the discontinued motors with a minimum of changes to his product. A robust, yet economical motor that matched speed, torque and mechanical fit was required.

The solution was the Torque Systems BNL 2310. To meet customer specified speed and torque requirements, a matched winding BNL 2310 was proposed. Since the need was urgent, a number of standard winding prototypes were tested by the OEM. They not only met the performance requirements, but actually improved the performance of the wire bonder due to better acceleration capability over the old servomotors. The customer quickly decided to specify the standard winding BNL 2310 servomotors into his equipment.

Torque Systems also customized the shaft and motor mounting plate to the exact specifications of the customer. The capability of the BNL2310 enabled the customer to improve the wire bonder performance without redesigning to fit an "off the shelf" motor.

The end result was a smooth transition to improved performance in a high quality wire bonder without gaps in product support or availability.