

OPTODYNE ANNOUNCES: NEW ROTARY AXIS CALIBRATION SYSTEM

*New System Calibrates Large Rotary Tables, and
A, B and C Rotary Axes of 5-axis Machine Tools.*

COMPTON, CA—OCTOBER 28, 2002—Optodyne Inc., the leader in laser measurement, calibration and compensation systems, today has announced the new system for the calibration of rotary tables, or A, B and C rotary axes of 5-axis machines. Calibration of rotary axes using the new system provides higher accuracy, consistency and reduces machine downtime. The system features a new motorized turntable, providing automatic data collection and Windows compatible software for ease of use.

“Our new calibration system for large rotary tables and rotary axes on 5-axis machine tools simplifies the calibration process by reducing downtime from a day or more to a few hours,” said Charles Wang, Ph.D., president of Optodyne. “Simplifying data collection, reducing machine downtime and increasing accuracy through process automation delivers tangible value to our customers, manifesting itself in repeat business and profitability.”

The motorized turntable is designed for the calibration of large rotary tables or the rotary A, B, and C axes of large gantry and 5-axis machine tools. The motorized turntable is programmed to return the dual-retroreflector to the starting position automatically after the data is collected at each user-specified increment. This eliminates reaching for the turntable and manually returning it to the start position. In addition, complete 360 degree, bidirectional multiple runs can be performed automatically.

The rotary table calibration system features a motorized turntable and new Windows compatible software that processes data for multiple bidirectional runs, generates compensation files and performs statistical analysis. The system is an accessory for the Aerospace Laser Calibration System MCV-5003, MCV 2002 and RT-100.

Optodyne's calibration systems are based on LDDM technology, which reflects a

modulated laser beam off of a movable target. The beam is detected and processed for displacement information used by the control to determine position. The laser head features a stability check of better than 0.1 PPM, accuracy of 1.0 PPM and resolution up to 0.000001" or 0.00001 mm. Standard sensors automatically compensate for environmental factors, such as barometric pressure, air temperature and material temperature to compensate for thermal expansion. Optodyne calibration systems are calibrated and traceable to NIST and analysis software supports NMTBA, VDI, ISO and ASME B5.54 standards.

Optodyne, a California corporation, develops, manufactures and markets laser-based precision measurement equipment for machine tool calibration, metrology, OEM, and other industrial applications that require precision measurement through a worldwide distribution network. The company's products are based on the patented Laser Doppler Displacement Meter (LDDM) technology developed by Dr. Charles Wang, Ph.D. Optodyne is ISO/IEC 17025 accredited, which requires a quality system similar to ISO 9000, plus testing and calibration equipment, as well as knowledgeable testing and calibration personnel.

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