

TOSHIBA is one of North America's leading turbine/generator service providers. Our unique high-speed balance and overspeed facility assures that proper balance is achieved prior to returning your equipment to service. Precision balancing of steam turbine and generator rotors also provides a comprehensive understanding of equipment operating characteristics.

Need a high-speed balance? No problem.

Toshiba's high-speed balancing facility enables multi-plane balancing of flexible rotors by means of influence coefficients and modal balancing techniques. High-speed balancing of flexible rotors results in minimal deflection of the rotor's axis during operation and a reduction of forces transmitted to the foundation through the full speed range of the unit. Minimal residual unbalance also improves the life of fluid film bearings, thus reducing maintenance costs and downtime. For generator rotors, our balancing facility also permits overspeed, flux probe, impedance and heat run tests to be performed as part of any balancing jobs. Toshiba's facility includes:

- *150-ton balancing capacity for steam turbine and generator rotors*
- *Overspeed up to 110% of operating speed*
- *Generator rotor electrical testing—at rated speed—including:*
 - *Impedance tests (0 to 3,600 rpm to 0)*
 - *Flux probe test at 3,600 rpm*
 - *Running Megger testing*
- *Optimization of balance weight placement and consolidation*
- *Collection and evaluation of indicator run-out readings*
- *Precision monitoring and supervisory control equipment*
- *Electronic data acquisition to record critical parameters*

