\mathbf{PI}

Test Stand for Analyzing New Types of High-Performance Ultrasonic Piezomotor Drives

Variable Metrology Stand for Piezoelectric Ultrasonic Motors

Test Stand





Design Features

- Interchangeable adapter to

Measured Caracteristic Curves







- Measured characteristics of a 60x26x9mm piezo ceramic actuator
- Various mechanical and electrical properties can be displayed and permit easy analysis

Force vs. Speed Characteristic

Force vs. Power Characteristic

Summary

- Flexible, easy to handle measurement
- Graphic user interface to control and evaluate measurement
- Automated measurement of travel, speed and force
- Measurement of electrical characteristics
- Open-loop and closed-loop operation

Fields of application

- Determination of characteristic curves
- Development and improvement of linear, ultrasonic motors
- Production quality assurance
- Investigation of different friction element pairs
- Endurance and efficiency testing
- Optimization of the motor driver electronics

Dr. W. Wischnewskiy, B. Philips • Physik Instrumente (PI) GmbH & Co. KG • http://www.pi.ws • Phone +49 (721) 4846 - 0 • Fax 4846 - 499