

## **Faculty Member**

**Timken Foundation Center for Precision Manufacturing** 

## Sample Research I: Contact Information Dynamic Rounding Stability in Through-feed Centerless Grinding Fukuo Hashimoto, PhD Modeling of through-feed Adjunct Professor centerless grinding Center for Precision Manufacturing processes. University of Akron Characteristic roots of Email: fhashimoto@uakron.edu through-feed centerless grinding system. 0.02 100 Retired Director and Sr. Scientist at Growth rate Grinding position L mr Evolution of roundness from (c) Roundness vs. grinding position (a) Characteristic root distributions Timken Research entry to exit in grinding space. President of AFT Ltd. 6 10 14 18 22 26 2 6 10 14 18 22 26 Proposal of rounding Number of waves n Number of waves Akron, OH 44319 stability index for optimum Email: fukuohashimoto@gmail.com setup condition. At the cente At the entry At the evit 1.72 μm Phone: 330-623-3041 5.01 um Sample Research II: Research Interests Characteristics and Performance of Surface Created by Various Finishing Methods Manufacturing technologies from material conversion to Characterization of surfaces finishing processes finished by grinding, hard turning, superfinishing and Grinding and hard turning technologies (a) GD: Ground (b) SF: Superfinished mass finishing. · Abrasive fine-finishing technologies, like superfinishing, The effect of surface textures honing, lapping/polishing, mass finishing and others on functional performance. Centerless grinding and shoe centerless grinding (c) HT: Hard Turned (d) IF: Isotropic finishe The influences of 2D and 3D Modeling of finishing processes and finishing process roughness parameters on development product performance Manufacturing cost analysis and IP management

(c) HT: Hard turned

(d) IF: Isotropic finis