



Faculty Member

Timken Foundation Center for Precision Manufacturing

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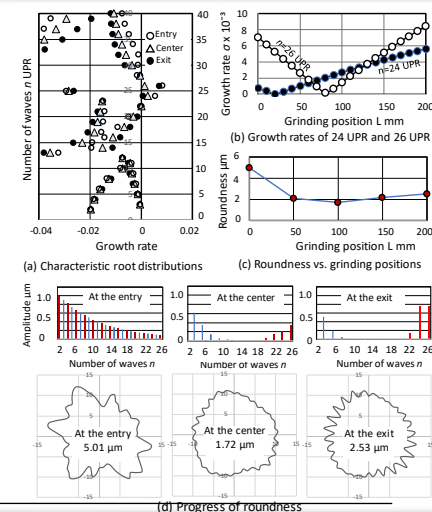
Research Interests

- Manufacturing technologies from material conversion to finishing processes
- Grinding and hard turning technologies
- Abrasive fine-finishing technologies, like superfinishing, honing, lapping/polishing, mass finishing and others
- Centerless grinding and shoe centerless grinding
- Modeling of finishing processes and finishing process development
- Manufacturing cost analysis and IP management

Sample Research I:

Dynamic Rounding Stability in Through-feed Centerless Grinding

- Modeling of through-feed centerless grinding processes.
- Characteristic roots of through-feed centerless grinding system.
- Evolution of roundness from entry to exit in grinding space.
- Proposal of rounding stability index for optimum setup condition.



Sample Research II:

Characteristics and Performance of Surface Created by Various Finishing Methods

- Characterization of surfaces finished by grinding, hard turning, superfinishing and mass finishing.
- The effect of surface textures on functional performance.
- The influences of 2D and 3D roughness parameters on product performance

