

OS11 Advanced machine tools and elements

OS11-01 Fundamental Grinding Characteristics of Trial
Manufactured Desktop Type Grinder
Masakazu Fujimoto , Yuki Inoue and Tomoya
Yamamoto

OS11-02 Virtual Material Contact Model for Estimation
of Vibration Characteristics of Jointed Structure
Reiji Hirasawa and Daisuke Kono
Kyoto University

OS11-03 Estimation of Spindle Dynamic Compliance
Using the Coil Current of a Contactless Electromagnetic
Loading Device
Kai Iwai, Shuntaro Yamato and Atsushi Matsubara
Kyoto University

OS11-04 Proposal and prototype design of a new
machine tool configuration with multiple spindles
Kianoosh Rossoli and Soichi Ibaraki
Hiroshima University

OS11-05 A direct method for the normal stiffness of an
aerostatic slide considering the fluid-structure interaction
Wenyuan Wei, Qiang Gao and Lihua Lu
Harbin Institute of Technology

OS11-06 Chuck with integrated clamping force
measurement for thin walled workpieces
Berend Denkena, Henning Buhl, Eike Wnendt and
Matthias Meier
Leibniz University Hannover, Institute of Production
Engineering and Machine Tools (IFW)

OS11-07 Compensation of strain gauge signal changes
due to position-based internal changes in sensory linear
guides
Berend Denkena, Henning Buhl, Dennis Kowalke, Rico
Ottermann and Marc C. Wurz

OS11-08 Development of Machine Tool Spindle for
Non-axisymmetric and Non-circular Inner Cylinder
Machining
Masayuki Obata, Yoshitaka Morimoto, Masahide
Oshima, Akio Hayashi and Kai Segawa

OS11-09 Prediction of thermally induced motorized
spindle displacement using cooling fluid temperature
Ryota Ishida, Shumon Wakiya, Jumpei Kusuyama and
Yohichi Nakao
Kanagawa University

<p>OS11-10 Feasibility study on direct immersion cooling for mechanical devices</p> <p>Genki Uchiyama, Jumpei Kusuyama and Yohichi Nakao Kanagawa University</p>
<p>OS11-11 Reduction of vibration during machining by applying cast iron with excellent damping properties to the structure</p> <p>Taiji Yamada, Shuta Irako, Toru Kizaki, Naohiko Sugita, Masahide Sakada, Taskuo Umetani and Nobuhiro Kai Tokyo University</p>
<p>OS11-12 FEM Analysis for Torsional Stiffness of a Leaf-Spring Type Coupling Considering Contact Surface Characteristics</p> <p>Yuta Kondo, Ryuta Sato, Eiji Shamoto and Taichi Sasaki</p>
<p>OS11-13 Modeling of friction characteristics in feed drives and its application to dynamics prediction of machine tools</p> <p>Yosuke Higuchi and Yasuhiro Kakinuma</p>
<p>OS11-14 Evaluation of air-cooling effect improvement using heat dissipating paint</p> <p>Runfeng Zhao, Rin Takamizawa, Hiromitsu Wada, Naohiko Suzuki, Yoshiyuki Kaneko and Yohichi Nakao Kanagawa University</p>
<p>OS11-16 Experimental study on temperature-dependent spindle vibration analysis with in-process measurements</p> <p>Jihui Liu, Shun Tanaka, Yiju Liao, Kenichi Nakanishi, Shogo Nakamura, Toru Kizaki and Naohiko Sugita</p>
<p>OS11-17 Study of technology for fine conditioning of pad surfaces with fiber conditioner in CMP</p> <p>Haruki Hashimoto and Takashi Fujita Kindai University</p>
<p>OS11-21 The improvement of thermal error modeling on machine tools by optimal selection of temperature measuring points</p> <p>Lei Cao, Gyungho Khim, Seung-Kook Ro and Chun-Hong Park Korea institute of machinery & materials</p>