

Poster Presentations

Time: 13:20-15:00, 24 (Wed.) September, 2014

Place: Pre-Function Room

- P01 Research on Material Removal Mechanism of Single Grit Cutting based on FEM Simulation
L. Yan, F. Jiang, C. Fang
- P02 A Preliminary Study of Surface Integrity and Wheel Wear in the Grinding of Multilayered Thin Film Structures
C. Kang, B. Hao, H. Huang
- P03 Experiment Research on ZrO₂ Engineering Ceramics with Abrasive Belt Grinding
D. Zhang, Y. Huang, X. Yin, L. Zhou, Y. Yang, L. Yong
- P04 Research on Grinding of Silicon Particles Reinforced Aluminum Matrix Composites with High Volume Fraction
F. Zhang, K. Wang, P. Fu, M. Wu
- P05 Investigation of Grinding Characteristics of Cemented Carbides YL10.2 and YF06
T. Xu, J. Yu, Z. Zhang, J. Tu, X. Liu, Y. Wu, L. He
- P06 Optimization of Grinding Conditions in Non-axisymmetric Aspherical Grinding
N. Yoshihara, T. Nakagawa, N. Nishikawa, M. Mizuno
- P07 Investigation Performance of AlCrN_x based Coated Broaching Tool in Broaching of Gas Turbine Material X12CrMoWVNbN1011
Z. Liu, M. Chen, C. Wang, Q. An, C. Ge, G. Guo
- P08 Study on Force Characteristics of Ultrasonic Vibration-assisted Sawing Ceramics with Diamond Blade
X. Xiang, J. Shen, Z. Hu, X. Xu
- P09 A Study on Erosion of Alumina wafer in Abrasive Water Jet Machining
Y. Wang, H. Zhu, C. Huang, J. Wang, P. Yao, Z. Zhang
- P10 An innovative cooling method for grinding process based on heat pipe technology
J. Chen, Y. Fu, Q. He, W. Zhang, Y. Zhu
- P11 Simulations of milling process of Inconel 718 alloy based on three dimensional finite element models
L. He, H. Su, J. Xu, J. Fu
- P12 Wear characteristics of binder-less nano-polycrystalline diamond and cubic boron nitride
H. Sumiya, K. Harano
- P13 Development of PCD milling tool for carbon-fiber-reinforced plastics
T. Kitajima, J. Kusuyama, A. Yui, K. Fujii, Y. Ito
- P14 Study on the Model of Surface Crack Depth in Ceramics Grinding
J. Kwang Su, B. Lin, L. Wang
- P15 Radial Directional Vibration-assisted Ductile-mode Grinding of Engineering Ceramic
K. Imai
- P16 Blind Hole Machining of Quartz Fiber Reinforced Ceramic Matrix Composites by Helical Milling with Electroplated Diamond Tool
H. Gao, T. Zhao, Y. J. Bao, C. Sun, S. X. Lu
- P17 Effectiveness Evaluation of Novel Pad Dressing Method by Flexible Fiber Dresser –Tool Life Evaluation of Flexible Fiber Dresser–
M. Uneda, N. Takahashi, Y. Arai, T. Fujita
- P18 Development of Rotary Work Table with Constant-flow Hydrostatic Water Bearing for Large Scale Silicon-wafer Grinding Machine
G. Okahata, A. Yui, T. Kitajima, S. Okuyama, H. Saito, A. H. Slocum

- P19 Development of a Fine Grating on ZnS for a Wideband Spectral Disperser in Characterizing Exoplanets using Space-borne Telescopes
K. Enya, T. Sukegawa, S. Sugiyama, F. Iijima, N. Fujishiro, Y. Ikeda, T. Yoshikawa, M. Takami
- P20 Ultrasonic Vibration Assisted Grinding of Sintered Dental Zirconia Ceramics: An Experimental Study on Surface Roughness
S. Dong, K. Zheng, X. Xiao
- P21 External Magnetic Field Control during EDM of a Permanent Magnet
H. Takezawa, N. Yokote, N. Mohri
- P22 Development of ultrasonic lapping equipment for small holes finishing
J. Liang, R. Kang, F. Ma, J. Liu, Y. Yu
- P23 Experimental Investigation of Copper-tungsten Electrode Wear in EDM
J. Yu, L. He, X. Sheng, W. Duan, S. Yin, Z. Shang
- P24 Proposal of micro removal process with pulsed laser irradiation based on form generation theorem
H. Sakamoto, K. Morioka
- P25 Study on the Flow Pressure of Mass in Centrifugal Disc Finishing
Y. Matsumoto, T. Yamaguchi, K. Kitajima, A. Yamamoto, S. Takahashi
- P26 Research on Performance of Fixed Abrasive Tools of Polishing 6H-SiC Wafers
J. Lu, G.Q. Hu, G.Q. Huang, C.F. Fang, X.P. Xu
- P27 Evaluation of Grinding Performance By Mechanical Properties of Super Abrasive Wheel –Relationship Between Modulus of Rupture and Critical Grain Holding Power (2nd report)–
T. Sawa, N. Nishikawa, Y. Ikuse
- P28 Investigation on properties of magnesia grinding wheels used in silicon wafer grinding
B. Hao, Z. Dong, S. Gao, R. Kang, D. Guo
- P29 Influence of Tool Shape and Coating Type on Machined Surface Quality in Face Milling of CFRP
T. Furuki, T. Hirogaki, E. Aoyama, H. Kodama, K. Ogawa
- P30 Estimation of Machining Error in Ball-End Milling of Hemispherical Surface based on Measured Cutting Force
K. Shimana, E. Kondo, S. Yamashita, Y. Kawano, N. Kawagoishi
- P31 Monitoring of Wear Land Width of Diamond Tool Cutting Edge with Large Nose Radius in Ultra-precision Cutting using Static Cutting Forces
E. Kondo, R. Iwamoto, Y. Kobaru
- P32 Study on a Novel Brazing Diamond Wire with CuSnTi Brazing Filler
X. Zhu, H. Huang, H. Guo, Y. Yu, X. Xu
- P33 A 5-axis coordinated CNC grinding method for the flank of a non-coaxial helical micro-drill with the cylinder grinding wheel
Z. Liang, H. Jian, X. Wang, W. Zhao, S. Zhang, Y. Otani, S. Xue
- P34 Influence of Processing Parameters on Surface Roughness in Micro Mill-Grinding Aluminium Alloy 6061
Y. Gong, C. Wang, J. Cheng, X. Wen, G. Yin
- P35 Experiment Research on Surface Roughness in Micro-grinding Metal Material
Y. Gong, X. Wen, Z. Zhu, J. Cheng, G. Yin, C. Wang
- P36 Investigation of Grinding Fluid Supply Parameters on Workpiece Surface Integrity
X. Shichao, Z. Xiuming, J. Ang, S. Xiaoliang, L. Shujun, L. Xiaopeng
- P37 Study on the Tribological Property of Bionic Lead Rail using ABAQUS
L. Ma, L. Gu, Y. Luo, F. Wang, X. Chen
- P38 A Wear Simulation of the Fixed Soft Abrasive Film based on Discrete Element Method
Z. Zhou, K. Feng, J. Yuan