

Special Issue 2019 JSPE Technology Award

Lecture

■ Development of Miniaturized Machine Tool with Pipe Frame Structure

Naohiko SUZUKI, Yoshitaka MORIMOTO, Yoshiyuki KANEKO,
Kenichi HIROSAKI and Yuichi OKAZAKI130

■ Development of a Fully Integrated Machine Tool with Built-In Robot

Shoichi MORIMURA, Hiroyuki SUGIURA, Kenji IGUCHI,
Tatsuhiko YOSHIMURA and Tomohiro SHIBATA136

■ Development of Long Life Ball Screw Using Material with High Retained Austenite Amount for High-Load Drive

Masahiro UEDA, Naruaki ABE, Naoki KAWATA and Hideyuki HIDAHA140

Episode

■ Episode 1/Naohiko SUZUKI and Yoshiyuki KANEKO144

■ Episode 2/Shoichi MORIMURA146

■ Episode 3/Masahiro UEDA, Naruaki ABE, Naoki KAWATA and Hideyuki HIDAHA148

■ My Experience in Precision Engineering

Shinji SHIMIZU157

■ Gravure

TAKAMAZ Machinery Co., Ltd/Kanazawa Institute of Technology/Industrial Research Institute of Ishikawa/National Institute of Advanced Industrial Science and Technology127
Okuma Corporation
NSK Ltd.

■ Introduction to Precision Engineering

New Definition of the Kilogram/Naoki KURAMOTO151

■ Introduction of Laboratories

Precision Machining Laboratory, Kyushu University155

- JSPE Affiliate News 158
- International Conference Report 161
- Information 162, 163
- From the Lecture Committee 告 2-1

Paper

- Automatic Video Presentation for Backhoe Embankment Construction Based on Remote Operator's Requirements ——— 164
Shota CHIKUSHI, Yushi MORIYAMA, Hiromitsu FUJII, Yusuke TAMURA, Hiroshi YAMAKAWA, Keiji NAGATANI,
Yuya SAKAI, Takumi CHIBA, Shingo YAMAMOTO, Kazuhiro CHAYAMA, Atsushi YAMASHITA and Hajime ASAMA

- Order-Dependent Convergent Search for Efficient Search of Feature Patterns ————— 171
Hirokazu ASANO, Wenjun ZHOU, Hidenori TAKAUJI and Shun'ichi KANEKO

- Study on Residual Stress Relief Technology Using Phase Transformation in Metal Additive Manufacturing ————— 177
—Demonstration of Stress Inhibiting Effect by Transformation Amount Control—
Ichiro ARAIE, Hiroshi AMIOKA, Katsuya MATSUMURA, Atsushi HIROTA, Keiichi TANIGUCHI, Sadao SANO, Syuji
OKAZAKI, Yasuyuki MIYASHITA, Itaru MATSUMOTO, Hajime ANDO, Yuuta YOSHIDA and Masahiro TAKANO

※The journal papers listed above are published on J-STAGE (Japan Science and Technology Information Aggregator, Electronic).
<https://www.jstage.jst.go.jp/browse/jjspe/-char/en/>
This printed material does not include these papers.