



Hot, Warm and Cold Stamping of High Strength Steel and Aluminium Alloy Parts

Guest Editors:

Prof. Dr. Ken-ichiro Mori

Department of Mechanical
Engineering, Toyohashi
University of Technology,
Tempaku, Toyohashi, Aichi 400-
8580, Japan

Dr. Tomoyoshi Maeno

Division of Systems Research,
Faculty of Engineering,
Yokohama National University,
Yokohama, Kanagawa 240-8501,
Japan

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Message from the Guest Editors

Dear Colleagues,

To improve the fuel efficiency of automobiles, the use of lightweight materials increases. High strength steel sheets have the advantages of low costs and a huge amount of production. The strength of the steel sheets increases, and that of ultra-high strength steel sheets exceeds 1 GPa. The application of the ultra-high strength steel sheets to body-in-white widely expands with rise in crash safety standards of automobiles, and these sheets are conventionally cold-stamped. To improve the drawbacks for the high strength steel sheets, warm stamping processes are tried. In hot stamping of quenchable steel sheets, high strength steel parts having a tensile strength of 1500 MPa can be produced under a low forming load. On the other hand, for high strength aluminum alloy sheets, not only cold stamping but also warm and hot stamping are attractive due to the improvement of springback and formability.

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Editor-in-Chief

Prof. Dr. Steven Y. Liang

George W. Woodruff School of
Mechanical Engineering, Georgia
Institute of Technology, Atlanta,
GA 30332-0405, USA

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*Journal of Manufacturing and
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MDPI, Grosspeteranlage 5
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