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Titolo	Innovative research in hot stamping technology : selected, peer reviewed papers from the 1st International Conference on Hot Stamping of UHSS (ICHSSU 2014), August 21-24, 2014, Chongqing, China // edited by Mingtu Ma and Yisheng Zhang
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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 1063
Disciplina	671.33
Soggetti	Metal stamping Sheet-metal Engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Innovative Research in Hot Stamping Technology; Preface, Organization and Committee; Table of Contents; Chapter 1: Material Technologies and Testing; Simulation Study on the Austenisation and Cooling Behaviors of the Medium-Mn Steel; Development of Niobium Alloyed Press Hardening Steel with Improved Properties for Crash Performance; The Development and Application Research of Light Weight Heat Treated C-Grade Bullet Proof Steel; The Effect of Heating Process on Strength and the Original Austenite Grain Size of Hot Forming Parts; Solutions for Hydrogen-Induced Delayed Fracture in Hot Stamping Martensitic Stainless Steel as Alternative for Hot Stamping Steel with High Product of Strength and DuctilityMicrostructure Development and Mechanical Properties of a Hot Stamped Low-Carbon Advanced High Strength Steel Treated by a Novel Dynamic Carbon Partitioning Process; Microstructure Evolution Behavior of 22MnB5 Pickling Plate during Double Cold Reduction and Rapid Heating Process; Microstructure and Mechanical Properties of 22MnB5 Steel with Different Heat Treatment; A Study on High Speed Tension Property of C-Grade Bullet Proof Steel

Plate

Microstructure and Mechanical Properties of 22MnB5 Hot Stamping

PartMicrostructure and Mechanical Properties of 0.15C-1.5Mn-0.3Si

Steel Treated by Quenching and Partitioning Process; Research on

Elements Distribution in Hot Dip Aluminum Silicon Coating of Hot

Stamping Steel; A Study on the Relationship between Hardness and

Magnetic Properties of Ultra-High Strength Steel; Hot Formed Steel and

its Properties Test; Effects of Austenitizing Temperature on

Microstructure and Properties of Hot-Formed Steel

The Comparative Study on Dynamic Flow Behaviors of Bullet-Proof Steel

Using Various Constitutive ModelsEffects of Initial Material Conditions

on the High Temperature Surface Oxidation of Press-Hardening Steels;

Thermal and Mechanical Characteristics of a HSLA Steel as Joint Partner

for Hot Stamping Tailor Welded Boron Steel; Effect of Pre-Heating

Temperature on Microstructure and Properties of 22MnB5 Steel Hot

Stamping; Research on Resistance Spot Welding Process of Hot-

Stamped Steel BTR165; Research on Resistance Spot Welding Property

of Hot-Stamping Quenched Steel Sheets

Hot Deformation of Al - 4.5 Mass % Mg Alloy SheetMartensitic

Automotive Steel Sheet - Fundamentals and Metallurgical Optimization

Strategies; Investigation on Properties and Microstructure in Hot

Stamping Operation of Rear Axle Beams; Chapter 2: Forming and

Stamping Technologies and Investigations; Research and Progress of

Hot Stamping in China; Research Status of Advanced Hot Forming

Technology; Robustness of the Tailored Hot Stamping Process; Hot

Stamping High Strength Steel Spot Welding Technology and Quality

Evaluation of Welding Joint

Investigation of Mechanical Property and Springback Behavior with Hot

Stamping RCP Process

Sommario/riassunto

Collection of selected, peer reviewed papers from the 1st International Conference on Hot Stamping of UHSS (ICHSSU 2014), August 21-24, 2014, Chongqing, China. The 66 papers are grouped as follows:

Chapter 1: Material Technologies and Testing; Chapter 2: Forming and

Stamping Technologies and Investigations; Chapter 3: Modeling,

Simulation and Calculation Methods; Chapter 4: Equipments and Its

Application