

Chapter 2 Hot Stamping Technology And The Main Equipment

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Fig. 2.21 Sketch map of die cooling pipes. a Layout of uniform cooling pipes. b Layout of non-uniform cooling pipes. c Layout of tools with both cooling pipes and heating pipes - "Chapter 2 Hot Stamping Technology and the Main Equipment 2 . 1 The Hot Stamping Technology of High Strength Steel 2"

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Lechler J, Merklein M (2008) Hot stamping of ultra high strength steels as a key technology for lightweight construction. In: Materials science and technology (MS&T) 2008. Steel Product Metallurgy and Applications, Pittsburgh, Pennsylvania

Hot Stamping Technology and the Main Equipment | SpringerLink

Hot stamping technology is a temperature and time dependent process and consists of several steps: heat treatment and austenitisation by continuous- or batch-type furnaces, transfer from the furnace to the press and the deep drawing dies, hot plastic deformation and quenching in closed cool dies.

Hot stamping technology moves on | Article | Automotive ...

Innovative Research in Hot Stamping Technology. Book Cover. Description: Collection of selected, peer reviewed papers from the 1st International Conference on Hot Stamping of UHSS (ICHSU 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 ...

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The hot stamping technology (press hardening) is one of the most successful in producing complex components with superior mechanical properties. The hot stamping process can be described by the following steps; punching of dog bone specimen, heating to 950 C in a furnace to austenitization followed by simultaneous forming and quenching in forming tools. In hot stamping, specimen is hot formed ...

EXPERIMENTAL ASSESSMENT OF STAMPING PARAMETERS IN A NON ...

The second part deals with thermal and energy-assisted manufacturing processes, including warm and hot hydrostamping. It also covers high speed forming (electromagnetic, electrohydraulic, and explosive forming). The third part reviews advanced material removal process like advanced grinding, electro-discharge machining, micro milling, and laser machining. It also looks at high speed and hard ...

Modern Manufacturing Processes | Wiley Online Books

Chapter 2: The report provides a detailed study on each actor having a major impact on the global market Hot Foil Stamping Machine, such as company profiles, the latest technological advances of market players, and the product profile of the player currently available in the market, as well as the regions in which they operate mainly.

Hot Foil Stamping Machine 2020 GLOBAL OUTLOOK, RESEARCH ...

The Northampton, Mass.-based company, which offers machine monitoring technology such as uptime tracking, gave a telling webinar in late August, during which Zhang divided the COVID-19 recession into three chapters. The first lasted from mid-January through mid-April, the initial plunge. Outside certain shops with strong ties to sectors like medical equipment, IT infrastructure, and e-commerce ...

This book summarizes the advanced manufacturing technology of original innovations in hot stamping of lightweight car body. A detailed description of the technical system and basic knowledge of sheet metal forming is given, which helps readers quickly understand the relevant knowledge in the field. Emphasis has been placed on the independently developed hot stamping process and equipment, which help describe the theoretical and experimental research on key problems involving stress field, thermal field and phase transformation field in hot stamping process. Also, a description of the formability at elevated temperature and the numerical simulation algorithms for high strength steel hot stamping is given in combination with the experiments. Finally, the book presents some application cases of hot stamping technology such as the lightweight car body design using hot stamping components and gradient hardness components, and the cooling design of the stamping tool. This book is intended for researchers, engineers and graduate students in vehicle engineering, mechanical engineering, especially in the field of advanced manufacturing technology. The book also provides a useful reference for other new technology related temperature and phase transformation, such as aluminum-magnesium alloy hot stamping.

Collection of selected, peer reviewed papers from the 1st International Conference on Hot Stamping of UHSS (ICHSU 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

Providing a comprehensive overview of hot stamping (also known as 'press hardening'), this book examines all essential aspects of this innovative metal forming method, and explores its various uses. It investigates hot stamping from both technological and business perspectives, and outlines potential future developments. Individual chapters explore topics such as the history of hot stamping, the state of the art, materials and processes employed, and how hot stamping is currently being used in the automotive industry to create ultra-high-strength steel components. Drawing on experience and expertise gathered from academia and industry worldwide, the book offers an accessible resource for a broad readership including students, researchers, vehicle manufacturers and metal forming companies.

This proceedings brings together one hundred and ten selected papers presented at the 2nd International Conference on Advanced High Strength Steel and Press Hardening (ICHSU2015), which was held in Changsha, China, during October 15–18, 2015. To satisfy the increasingly urgent requirement of reducing the weight of vehicle structures and increasing passenger safety, ICHSU2015 provided an excellent international platform for researchers to share their knowledge and results in theory, methodology and applications of advanced high strength steel and press hardening technology. This conference aroused great interests and attentions from domestic and foreign researchers in hot stamping field. Experts in this field from Australia, China, Germany and Sweden, contributed to the collection of research results and developments. The papers cover almost all the current topics of advanced high strength steel and press hardening technology. Contents:Materials & Testing IRecent Developments and Challenges in Hot Stamping of Boron Steel (J P Lin, F F Li and J Y Min)Research on Grain Growth Behavior of Boron Steel (L F Song, M T Ma and G Fang)The Evolution of Oxidation Scales on 22MnB5 Hot Press Forming Steel during Rapid Heating (S J Yao, W J Liu, W B Gao, Z W Zhang and Y L Ding)Resistance Spot Welding Test of 1300HF Hot Forming Steel (Y H Hu, Z J Huang, R Ge and J G Hu)The Development of Data Processing Software for Dynamic Tension of Materials (Y Zhao, M T Ma, X M Wan, Q S Jin, J P Zhang and G Fang)Materials & Testing IIMicrostructure and Mechanical Properties of Fe-18Mn-10Al-1.2C Steel (D Han, H Ding, Z H Cai, Z Q Wu and J Zhang)Research on Stamping Performance of Dual Phase Steel in Tailor Welded Blanks (G C Liu, F Li, H C Zhu, C Wang, F X Xu and G Wang)Effect of Strain Path on the Dynamic Mechanical Properties of DP780 (Q J Zhao, G Fang, J P Zhang and Q S Jin)Mechanical Properties and Microstructure of DP Steel Sheets under Dynamic Loads (J P Zhang, G Fang, Q S Jin and M T Ma)Magnetic Barkhausen Noise Signal Characteristics of TRIP900 under Uniaxial Tension (Y Xu, B Zhu, Y L Wang, Y S Zhang and W Zhang)Modeling & Simulation:Metallo-Thermo-Mechanical Coupled Analysis of the Influence of Key Process Parameters on the Quality of Hot Stamping Component (W Zhang, Y G Liu, H R Gu, J C Jin, Y Zhang, J W Li and H B Wang)Finite Element Simulation for Hot Stamping of Automobile Pillar Inner Panel (F X Jin, Z Shen, Y Bian and Z P Zhong)Numerical Simulation on Cooling System of Hot Stamping Mold In B-Pillar (G J Chen, Y Zhang, W Shen, L J Qin, N Deng and X C Yao)Study on the Deflection Mechanism in Radial Ring Rolling (W X Hao, L H Song and C F Wang)Process Design:Tendency of Heat Treatment of Large Workpieces: Novel ATQ Technology (X W Zuo, N L Chen and Y H Rong)Research on High Strength Steel Hot Stamping Technology and Equipment (Y L Wang, B Zhu and Y S Zhang)Experiment and Simulation of Hot Stamping Tailor-Welded High Strength Steels (B T Tang, W Zheng and L L Huang)Development of Side Frame Beam with Hot Stamping Process (Q Yang, B Liu and Z T Zhu)Controlling Spring Back of High-Strength Steel Based on Shape Adjustable Bead (C Y Wang, X Y Zhang, C Dai, S Y Wang and F F Gao)Tribology & Tools:Tribology in Hot Stamping of Boron Steel Sheets (S Bruchi, A Ghiotti and F Meda)Understanding Wear Conditions during Hot Stamping (M P Pereira, A Abdollahpoor, B F Rolfe, P Zhang and C Wang)The Influence of Re Flow Iontriding on Abrasion Resistance of H13 Mould Material (M T Ma, Z F Sun, X C Yao, W Shen and L F Song)Equipment:Advanced Design of Continuous Furnace for Hot Stamping Line (B Dvorak, J J Tawk and T Vit)New Trends of Laser Applications for Hot Forming Parts Manufacturing (J H Ji and P Wang)Robot-Based Automatic Dimension Inspection for Hot Stamping Parts (L Y Han, Z W Li, K Zhong, G M Zhan, Y J Huang, G Yang and M Zhou)Product Properties:The Application of Press Hardened Steel on Volvo XC90 Gen II (X M Wan, Y Zhao, Y Li and J Zhou)Optimization Design of Side Collision Performance in Whole Car Based on Advanced Hot StampingThe Exploring Research of A-Pillar Strength Tube Based on the Vehicle's Small Overlap Crashworthiness (B H Wang, T Q Fan, F Wang, Q J Zhao and Y Li)Performance Evaluation of Hot Pressed Front Bumper (J P Zhang, L F Song, G Y Wang, M T Ma)The Cold Bending Cracking Analysis of Hot Stamping Door Bumper (M T Ma, Y Zhao, H Z Lu, J Bian, A M Guo and Z F Dan)and other papers

Readership: Researchers and Professionals in Advanced High Strength Steel and Press Hardening. Key Features:The proceedings collected together the latest late-breaking contributions funded by Chinese government research agencies in Material Science and Application, Mechanical EngineeringPrinted version of about 30 copies will be POD to meet the order form conference participants and authors alikeAdditional copies will be printed for marketing to include in their library package

This book focuses on the technology involved in using plastics, explaining the key areas of plastic materials, plastic product design, plastic processing, plastic end-use markets, and issues within the plastics industry, that are critical to working and communicating within the plastics industry.

Comprehensive Materials Processing provides students and professionals with a one-stop resource consolidating and enhancing the literature of the materials processing and manufacturing universe. It provides authoritative analysis of all processes, technologies, and techniques for converting industrial materials from a raw state into finished parts or products. Assisting scientists and engineers in the selection, design, and use of materials, whether in the lab or in industry, it matches the adaptive complexity of emergent materials and processing technologies. Extensive traditional article-level academic discussion of core theories and applications is supplemented by applied case studies and advanced multimedia features. Coverage encompasses the general categories of solidification, powder, deposition, and deformation processing, and includes discussion on plant and tool design, analysis and characterization of processing techniques, high-temperatures studies, and the influence of process scale on component characteristics and behavior. Authored and reviewed by world-class academic and industrial specialists in each subject field Practical tools such as integrated case studies, user-defined process schemata, and multimedia modeling and functionality Maximizes research efficiency by collating the most important and established information in one place with integrated applets linking to relevant outside sources

Over the last 15 years, the application of innovative steel concepts in the automotive industry has increased steadily. Numerical simulation technology of hot forming of high-strength steel allows engineers to modify the formability of hot forming steel metals and to optimize die design schemes. Theories, Methods and Numerical Technology of Sheet Metal Cold and Hot Forming focuses on hot and cold forming theories, numerical methods, relative simulation and experiment techniques for high-strength steel forming and die design in the automobile industry. Theories, Methods and Numerical Technology of Sheet Metal Cold and Hot Forming introduces the general theories of cold forming, then expands upon advanced hot forming theories and simulation methods, including: the forming process, constitutive equations, hot boundary constraint treatment, and hot forming equipment and experiments. Various calculation methods of cold and hot forming, based on the authors' experience in commercial CAE software for sheet metal forming, are provided, as well as a discussion of key issues, such as hot formability with quenching process, die design and cooling channel design in die, and formability experiments. Theories, Methods and Numerical Technology of Sheet Metal Cold and Hot Forming will enable readers to develop an advanced knowledge of hot forming, as well as to apply hot forming theories, calculation methods and key techniques to direct their die design. It is therefore a useful reference for students and researchers, as well as automotive engineers.

Collection of selected, peer reviewed papers from 2013 the 2nd International Conference on Mechanical Design and Power Engineering (ICMDPE 2013), November 29-30, 2013, Beijing, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 330 papers are grouped as follows: Chapter 1: Advanced Materials Engineering, Technologies and Processing; Chapter 2: Applied Mechanics and Dynamics; Chapter 3: Engineering Design, Modeling, Simulation and Computational Methods; Chapter 4: Engineering and Automation; Chapter 5: Electronics and Integrated Circuits, Embedded Technology and Applications; Chapter 6: Electrical Engineering, Electric Machines and Mechatronics; Chapter 7: Data and Signal Processing; Chapter 8: Measurement, Monitoring and Testing Technologies

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