

Learn more in this blog post about the challenges of forming ultra-high-strength materials and how hot forming, also known as press hardening, assists in this process. ...

The hot stamping technology of high performance sheet metal is extremely important to the lightweight of automobile and is widely used. With the advancement of hot stamping technology ...

Ever wondered how your smartphone's tiny components stay intact through daily drops, or what keeps airplane engines securely welded at 30,000 feet? The answer might ...

Horizontal Rotary Forging Machine Warm and hot flow forming technologies are specialized variants of traditional flow forming processes that involve forming metal ...

This manuscript throws some light on different metal forming process, servo press application in automobile, aviation industry and different components require to make metal ...

Welding hot-formed plates demands precision and power! This video showcases our Energy Storage Spot Welding Machine seamlessly joining high-strength hot-form...

This paper describes the hot stamping of laser spliced plates based on multi-component integration and the digital transformation of the shop floor. As the global automotive ...

This study applies the GTN damage model to evaluate the damage progression and formability of high-strength steel laser-welded blanks (TWBs), made from Usibor1500P ...

Let's face it - welding isn't exactly the sexiest topic at dinner parties. But when an energy storage pulse welding machine can slice through production costs like a hot knife through butter, even ...

TATE energy storage spot welding machine for hot forming steel bolt projection welding, we are the source manufacturer of energy storage spot welding machine...

Compared with other welding method, energy storage welding machine has the lower Instantaneous power, balanced load of each phase and high power factor . the energy storage ...

This post will explain the four different steel forming process: hot rolled steel, cold rolled steel, forged steel and cast steel. Definition & differences.

For this reason, a variety of new approaches to sheet metal forming, and especially to the hot forming of

high-strength aluminum alloys, have been developed to ...

This article presents a baseline study on how to control cracking when welding stainless steel structures for the construction of pressure vessels and heat exchangers.

Bulk metal forming is a type of forming that involves large deformations of metal. It can be classified into three categories: cold work, warm work, and hot work. Cold work is performed at ...

Hot metal gas forming (HMGF) of tubular profiles enables intricate designs for lightweight material production. HMGF showed an immense manufacturing potential, due to ...

This paper addresses this gap by presenting a comprehensive life cycle assessment of green hydrogen production integrated within the steel manufacturing process, ...

Hot stamping is more complex than just adding heat to a cold stamping process. Suppliers of cold stamped parts are responsible for forming a dimensionally accurate part, assuming the steel ...

The constitutive modeling of these forming processes is recapitulated, and the newly established energy field assisted metal forming technologies are exemplified and ...

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Global 46 Series Large Cylindrical Battery Structure Component Market Research Report: By Application (Electric Vehicles, Energy Storage Systems, Consumer Electronics, Power Tools), ...

This study addresses critical issues of hydrogen embrittlement (HE) and liquid metal embrittlement (LME) in Al-Si-coated and Zn-coated hot-press-forming (HPF) steel ...

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