

# Sheet metal energy storage cabinet processing process

How to reduce energy consumption in sheet metal forming?

The proposed process optimization method was melded with previous energy-matching control method of forming equipment to further decrease the energy consumption in sheet metal forming. The comprehensive energy-saving method for sheet metal forming was integrally applied to a stamping process chain.

Is sheet metal forming energy-saving?

The comprehensive energy-saving method for sheet metal forming was integrally applied to a stamping process chain. Results show that the energy consumption can be decreased by 37% compared with the original stamping process chain. Therefore, the proposed method shows significant energy-saving potential.

What are the energy flow and conversion processes in sheet metal forming?

The energy flow and conversion processes in sheet metal forming process are shown in Fig. 2. The electrical energy is converted into forming energy through several forms by the energy units of hydraulic metal forming equipment, such as motors, pumps, pipes, valves, and cylinders; then, output force and velocity act on the sheet material.

How to calculate the process energy of sheet metal forming?

Therefore, the process energy of sheet metal forming,  $E_{\text{forming}}$ , can be calculated in accordance with the following energy consumed as the compressive and tensile deformation, bending, and the friction energy consumption between the contact surfaces of the sheet material and molds.

Can embodied energy be used for energy saving in sheet metal forming workshop?

In this paper, modeling and application of embodied energy for energy saving in the sheet metal forming workshop is presented. The embodied energy of parts during the manufacturing phase (EEPM) is modeled.

What is embodied energy in sheet metal forming?

The "embodied energy of part or product" [14] is a feasible indicator to characterize the energy consumption of a part or a product during the manufacturing phase. The research presented in this paper explores the role that embodied energy of forming parts can play in achieving energy saving in the sheet metal forming workshop.

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A: The sheet metal design greatly affects the manufacturing of sheet metal parts, as all the specifications of the part designed are to be produced using the processes outlined. Richman (2010) describes a well ...

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Other materials like copper, brass, and tin are also used in sheet metal processing, albeit less frequently. Copper, for example, is highly conductive and often used in electrical components. Types of Sheet Metal Processing 1. ...

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