

# Energy storage box shell stamping die

How AHSS stamping die is designed?

The structural design of the stamping die for AHSS parts is still based on the experience of designers and the design method of die for common material part forming, which cannot meet the actual requirement anymore, due to the larger reactive force on the stamping die of AHSS [5].

How does a stamping die improve forming quality and fatigue life?

It is an effective way to increase the forming quality and fatigue life of stamping die by improving its structure, which effectively decreases the forming force and improves bearing capacity.

What happens if a stamping die has a high forming force?

The higher forming forces directly result in a sharp increase in the reactive force on the stamping die, which easily cause inevitable fatigue deformation and damage fracture.

Can topology optimization improve a stamping die?

Geometric reconstruction of the stamping die was implemented referring to the topology optimization results. The final result reveals that the lightweight punch and the qualified stamping part without fatigue deformation can be efficiently achieved through topology optimization.

What is the stamping speed of anti-collision beam?

The stamping speed was 30 mm/s, die clearance between punch and die was 1.76 mm (1.1 t) [16], and the friction coefficient was 0.17. Establishment of FEM model of stamping process of anti-collision beam. a True stress-strain curve of DP780. b FEM model of stamping

What is finite element simulation on stamping process of AHSS beam?

Finite element simulation on stamping process of the AHSS beam was accomplished by explicit kinetic analysis, in which the forming problems have been predicted, and distribution of the reactive force on the stamping dies was also obtained.

Nowadays, metal stamping parts are widely used in daily life products. The demand of stamping die from manufacturers is also increasing. Therefore, stamping die daily maintenance is very important. If we can ...

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