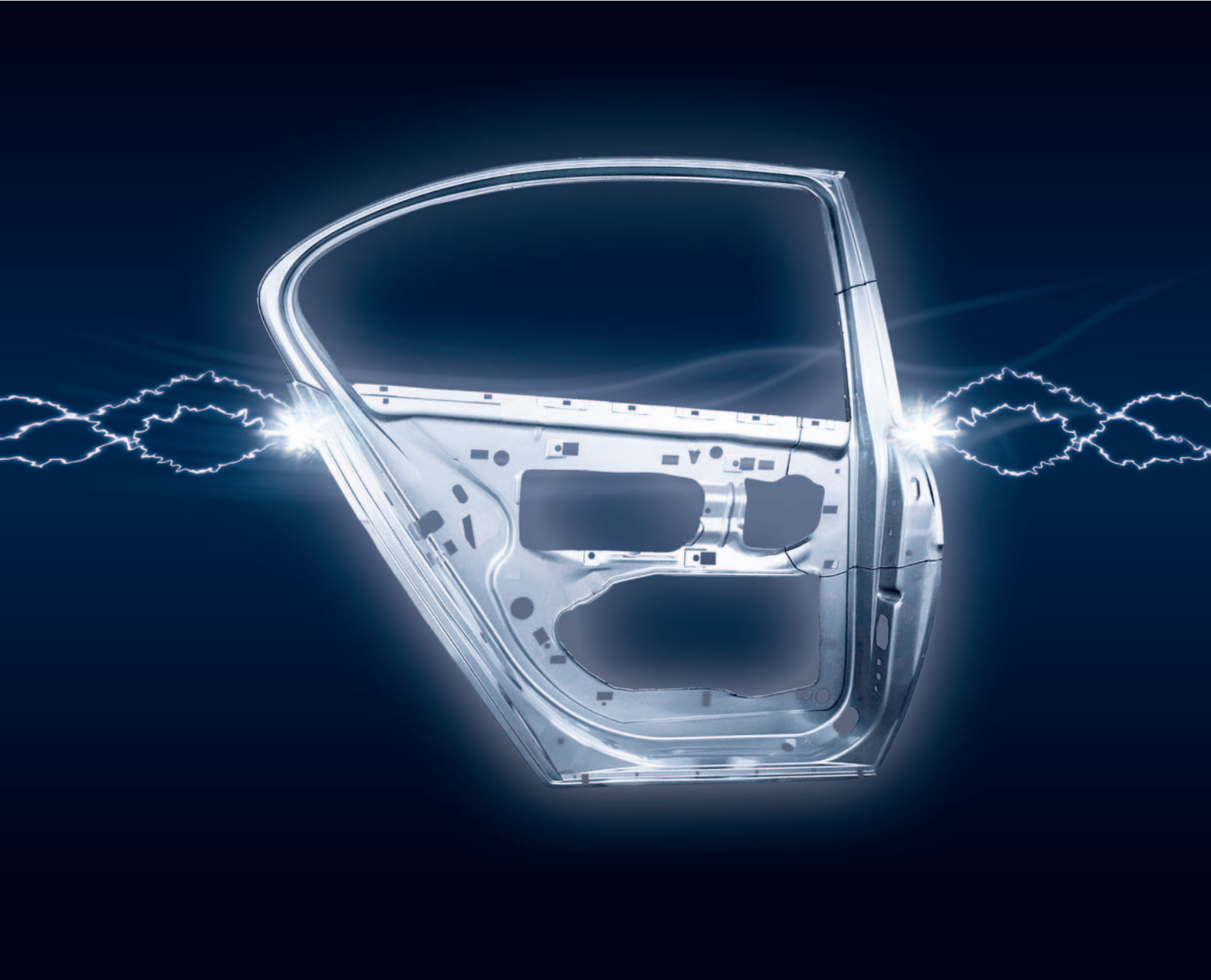


ThyssenKrupp Engineered Blanks.



A ThyssenKrupp
Steel
company

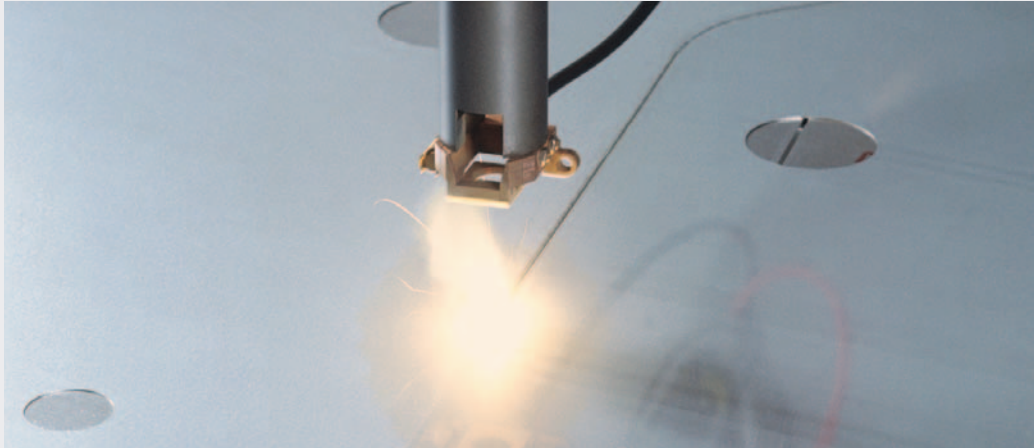
ThyssenKrupp Tailored Blanks



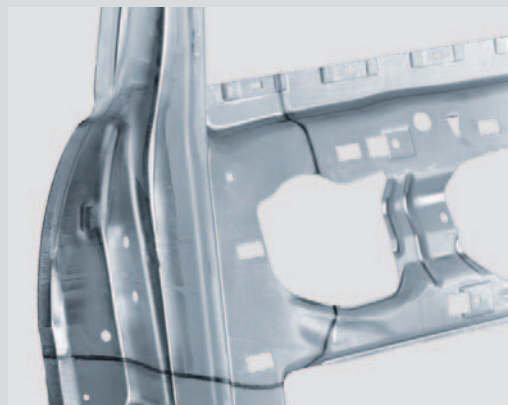
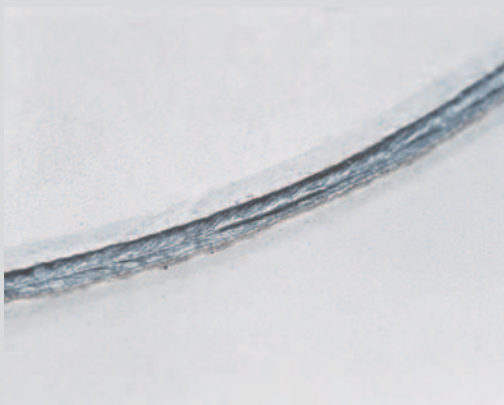
ThyssenKrupp

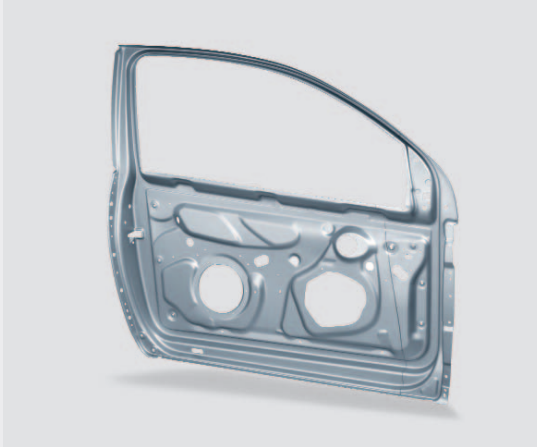
ThyssenKrupp Engineered Blanks.

Non-linear seams for greater individuality.



ThyssenKrupp Engineered Blanks are tailored blanks with non-linear welds which allow varying, in part conflicting requirements on vehicle components to be met. For example, reinforcement areas of thicker sheet material within a blank can be reduced to the necessary minimum. In this way, our engineered blanks can meet requirements for weight, strength, stiffness, forming behavior, crash performance and material utilization all at the same time.





Example
Door inner panel

Advantages of ThyssenKrupp Engineered Blanks

In addition to the *classic advantages* of tailored products, engineered blanks offer the following advantages over tailored blanks with linear welds:

- ⊕ greater weight-saving potential,
- ⊕ greater cost-saving potential with regard to materials.

Process

Production of ThyssenKrupp Engineered Blanks: laser welding

The reliable laser welding process is also used to produce engineered blanks. As a rule, the laser beam is guided by a gantry over the abutting edges of the workpieces, which are held in position during welding by magnetic clamping systems.

Applications

Like tailored blanks, engineered blanks are produced for the auto industry. They are mainly used when the primary aim is to reduce weight.

They are also generally used for parts with complex geometries, such as

- ▶ door inner panels,
- ▶ shock towers, and
- ▶ tailgates.

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