



Magnesium inner door

Exhibit description	Inner part of a car door made of Magnesium wrought alloy
Function	Inner door panel
Concrete benefits	Weight reduction of more than 50 percent compared to a conventional steel design
Exhibit-related competences	Technology development for machining Magnesium flat products (forming, cutting, joining), detailed determination of parameters and FEM for tempered processes
Unique selling proposition	Handling of the continuous process chain, tempered processes (deep drawing, stretch drawing, tube bending, edge rolling, hydroforming) for Magnesium
Target industry/target group	Automotive suppliers, container construction, Aerospace industry

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Hybrid car door

Exhibit description	Hybrid-car door (plastic inner part, hydroformed frame made of steel, stainless steel or aluminum); side collision protection reinforced with aluminum foam
Function	Self-carrying car door with new concept
Concrete benefits	Weight reduction of approx. 15 percent compared to conventional design
Exhibit-related competences	Design of complex units adapted to load, using different materials
Unique selling proposition	Hybrid design using different materials (steel, aluminum, plastics) and innovative processes (hydroforming joining, aluminum foam, gluing etc.)
Target industry/target group	Automotive suppliers

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