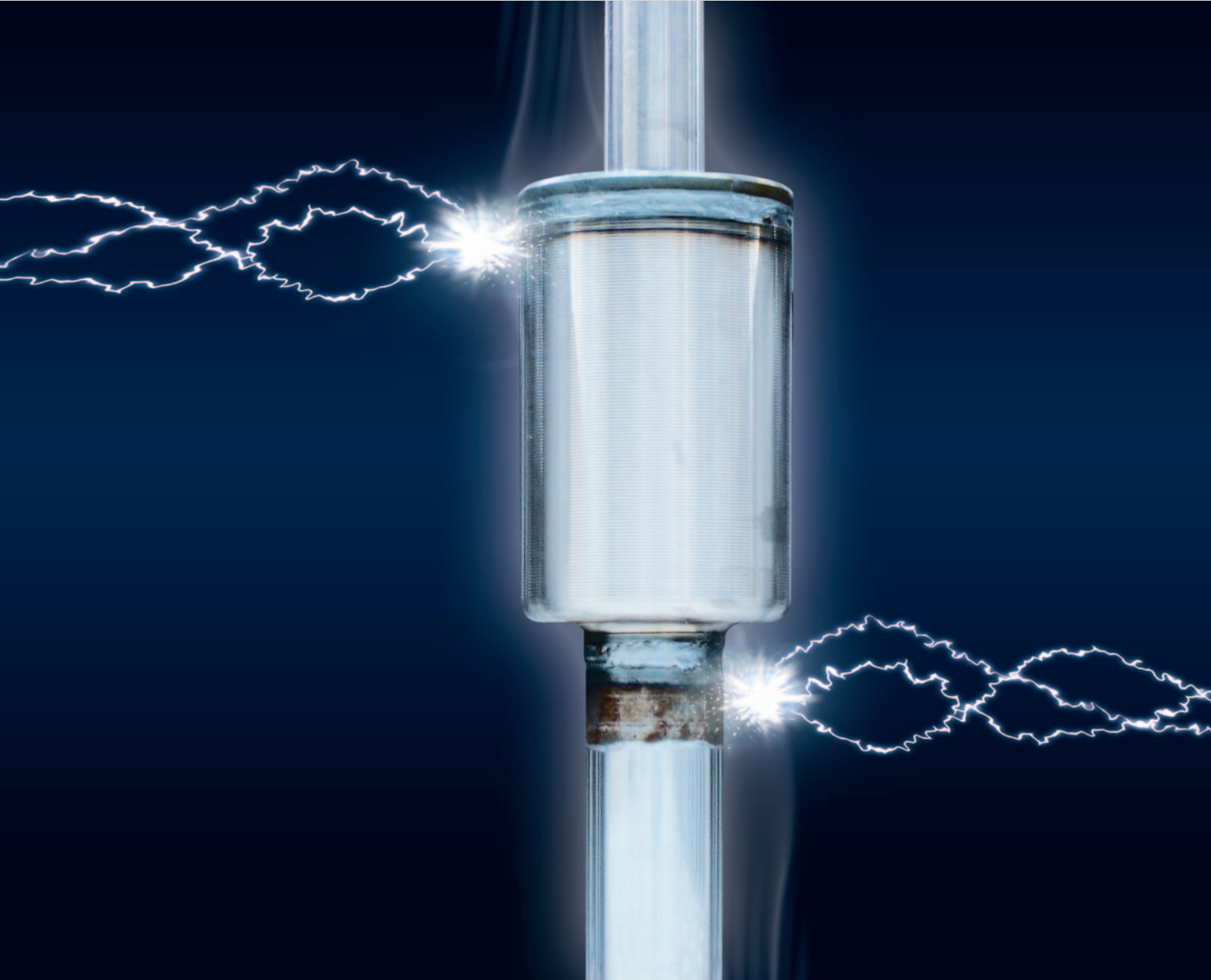


ThyssenKrupp Tailored Orbitals.



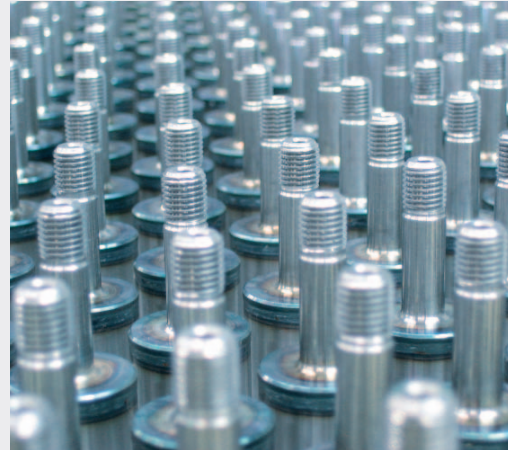
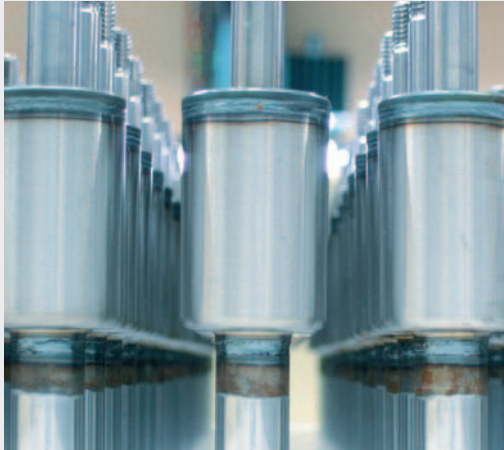
A ThyssenKrupp
Steel
company

ThyssenKrupp Tailored Blanks



ThyssenKrupp

ThyssenKrupp Tailored Orbitals. Tubular starting materials.



Laser-welded
piston rods

Perfectly rounded.

ThyssenKrupp Tailored Orbitals are welded tubular products made from tube or wire with a combination of different materials, thicknesses or coatings. They can therefore be tailored exactly to requirements. The properties of the tubes can be optimized for either reduced weight or increased stiffness. In addition, a broad range of variants can be made from standardized starting materials. This allows completely new functions to be integrated into existing products, paving the way for a whole new category of tubular parts.



Material flow

Advantages of ThyssenKrupp Tailored Orbitals

Tailored orbitals can help optimize your production processes as they

- ⊕ reduce material requirements and process steps,
- ⊕ reduce overall part weight,
- ⊕ improve functionality,
- ⊕ reduce costs and
- ⊕ allow greater forming freedom.

Process

Production of ThyssenKrupp Tailored Orbitals: Patented laser welding line

To produce tailored orbitals we use a specially developed laser welding line for round parts (“Symrolas”). Using two welds, this line can join up to three parts simultaneously.

Applications

Applications for ThyssenKrupp Tailored Orbitals – multiple uses

The wide range of variants for tailored orbitals guarantees uses in many different areas.

The products are used both in round auto components and in general engineering:

- ▶ Shocks and suspension in car chassis
- ▶ Shafts, valves and tappets in engines
- ▶ Shafts, gears, rings and disks in transmissions
- ▶ Pipes, pots and reinforcements in exhaust systems
- ▶ Joints, guides and gears in steering systems
- ▶ Piston rods



Tailored orbitals
as chassis
components



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