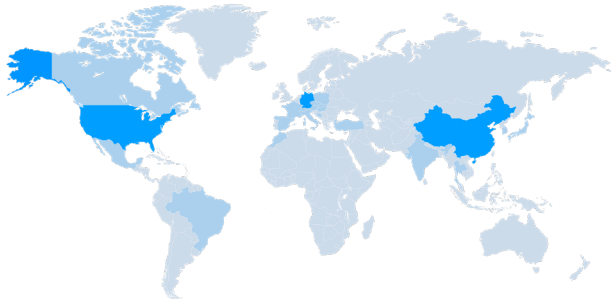


Why Mubea?

Global:

Worldwide presence with three locations
(Germany, USA, China)



Experience:

60 years of experience

World market leader:

40% market share and market
and technology leader

Volume:

300 million disc springs per year

Customers:

2,000 customers from various industries

Contact

Mubea Tellerfedern GmbH

Im Kirdorf 34, 57567 Daaden,
Germany

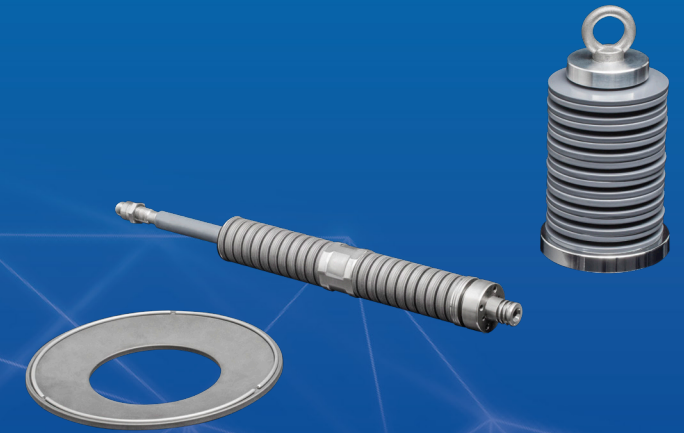
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www.mubea.com



DISC SPRINGS

QUALITY FROM THE
WORLD MARKET LEADER

Mubea

DISC SPRINGS



MUBEA DISC SPRINGS

The name Mubea is internationally synonymous with spring technology of the highest standard. Our disc springs set the pattern for the global market as they are produced with professional expertise, modern quality assurance, and decades of experience.

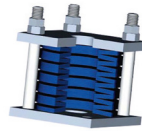
Disc springs are shallow conical rings that are loaded in an axial direction. Depending on the specific application either static or dynamic, they are identified with an outer diameter (De), inner diameter (Di), material thickness (t), and overall height (Lo).

For more than five decades, Mubea has specialized in the production of high quality disc springs. They are used globally in a wide variety of applications throughout numerous industrial markets, from subsea actuators 3,000m under the sea to satellites 36,000km in space. Mubea also specializes in the production of related components including complex fine blanked parts.

Disc springs have the following characteristics:

- › High load capacity with a small spring deflection
- › High space utilization when compared with other spring types
- › Modular elements for various load characteristics

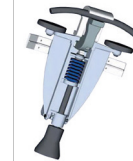
APPLICATION EXAMPLES



Pre-assembled spring stacks



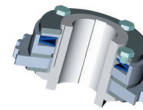
Energy storage



Cableway grips



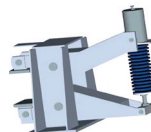
Piston return springs



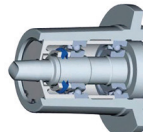
Slip clutches



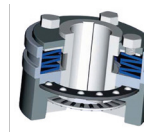
Valves



Spring-actuated brakes



Backlash compensation



Overload clutches

Due to their versatility, disc springs are used in many areas of machine and plant engineering, oil & gas, aviation, aerospace, and the automotive industries.

DEVELOPMENT

Using decades of engineering experience combined with customer feedback we are able to innovate today for our products of tomorrow.

Our complete in house production allows us to manufacture disc springs up to 800mm outer diameter.

The innovation process derives from our customer's technical requirements.

For example, we can produce disc springs with tighter diameter tolerances, which allows higher spindle speeds for tool clamping systems.

Generation II technology significantly improves the disc springs fatigue life. The size and weight can also be optimized as an additional advantage.

Advantages of using GEN II disc spring stacks:

- › The outer diameter can be reduced up to 25 %.
- › The installation space can be reduced up to 33 %.
- › The lifetime can be increased up to 10 times.