



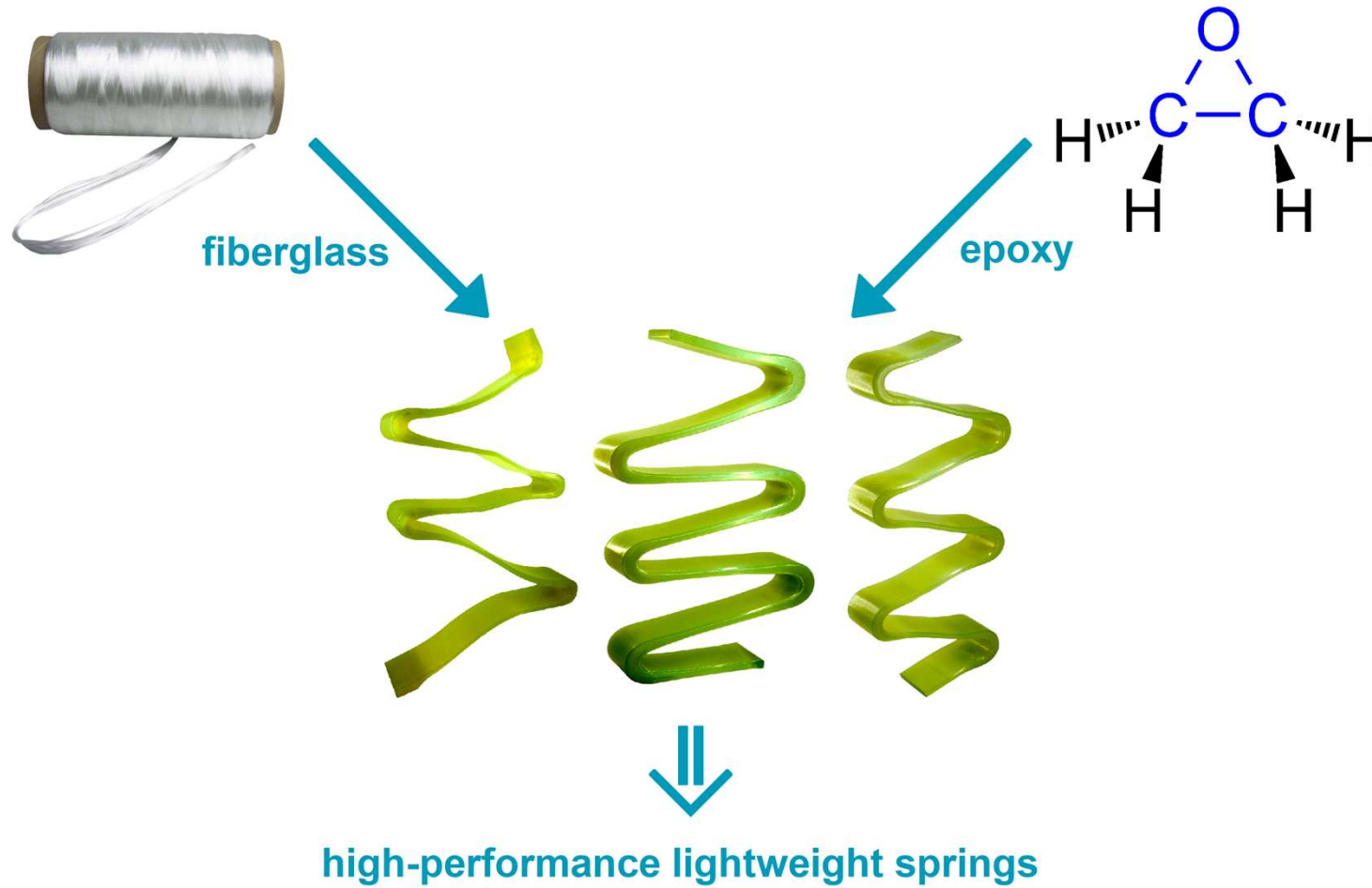
# Rethink spring!

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# What are we doing?



# Our challenges

## Coil Spring:

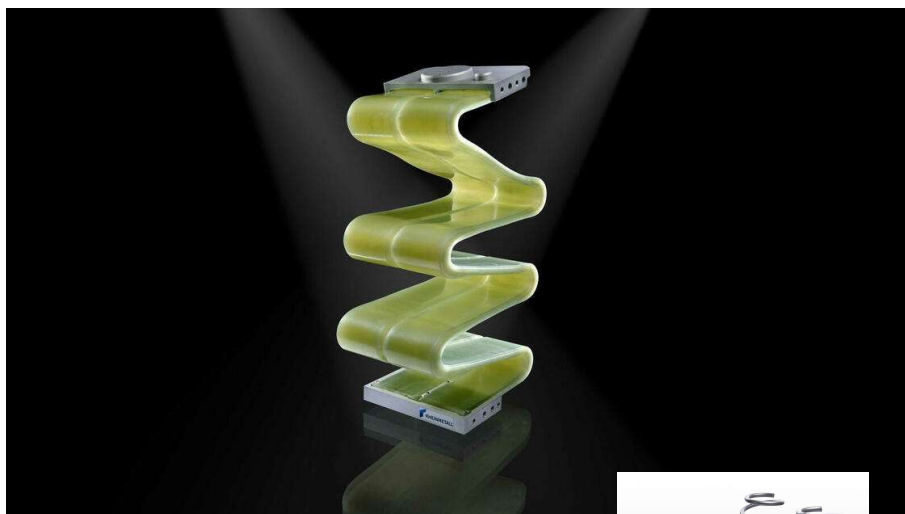


## Air spring, rubber-layer spring, leaf spring:

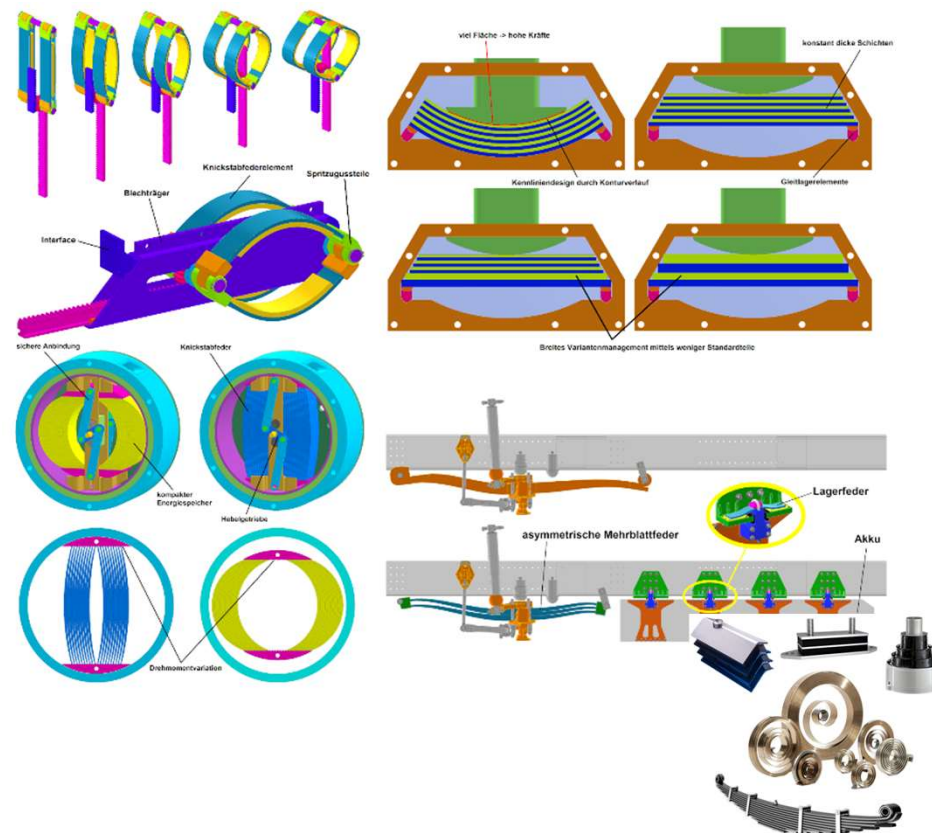


# Our solutions

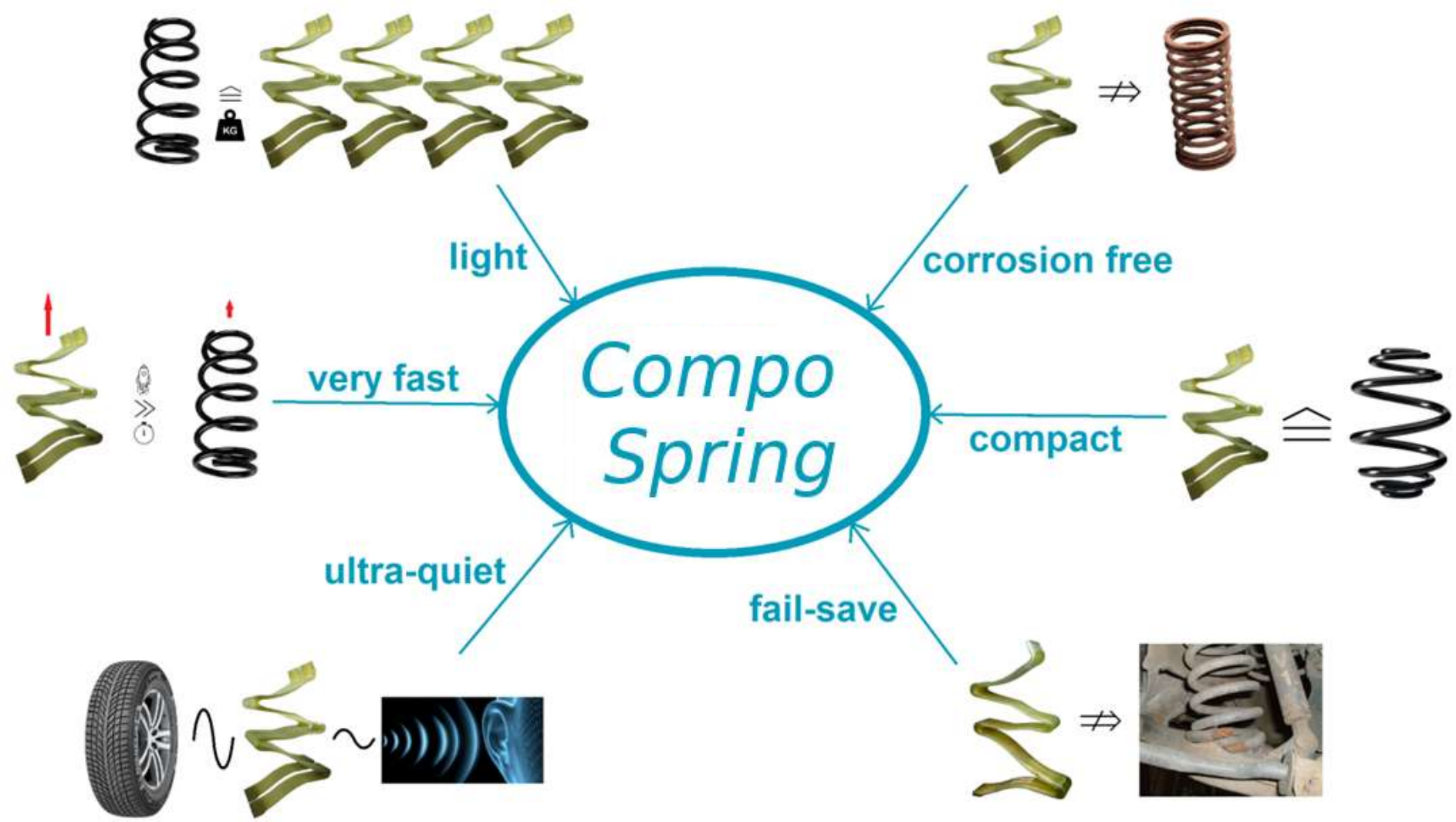
## Coil Spring:



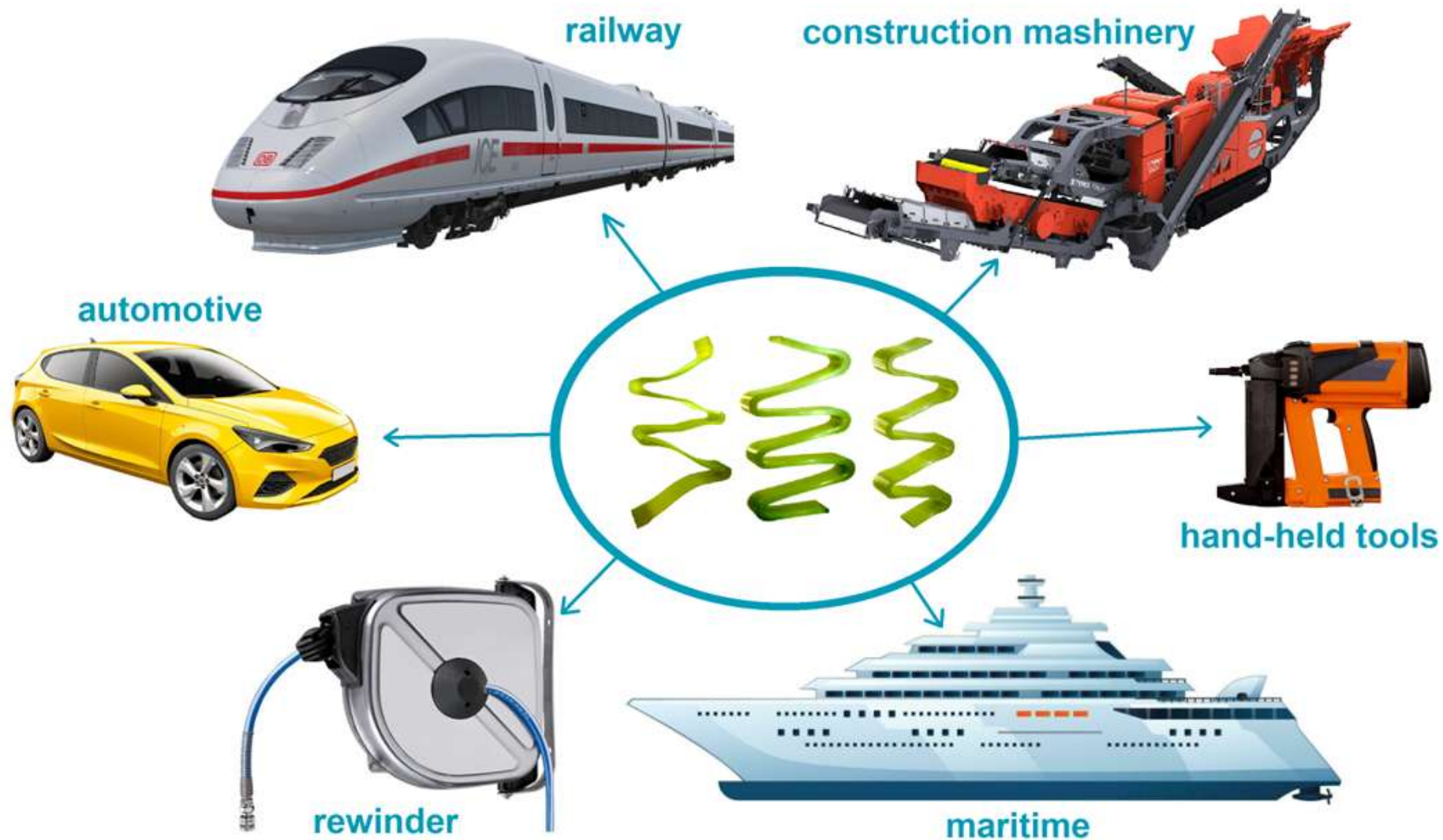
## Springs for other applications:



# Advantages



# Areas of application



# Our Spring Concepts for Maritime



## Applications:

- Vibration isolation
- Propulsion Systems
- Deck Hardware
- Hydraulik and pneumatic Systems
- Navigation / Sensor technology
- Cargo and Load Securing
- Fishing Equipment
- Offshore Equipment
- etc



Vibration Isolation



Propulsion Systems



Deck Hardware



Hydraulic & Pneumatic Systems



Navigation & Sensor Technology



Cargo & Load Securing



Fishing Equipment



Offshore Equipment

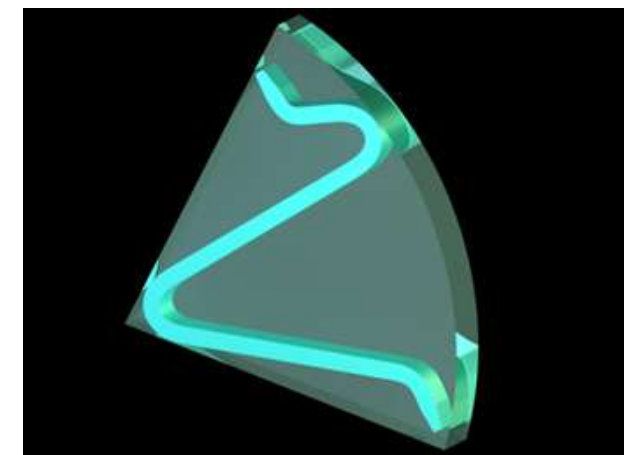
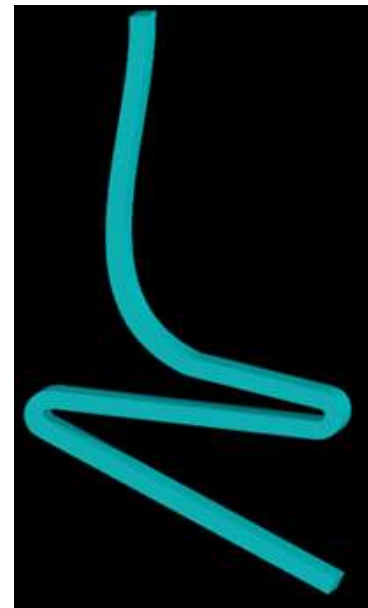


Special Applications

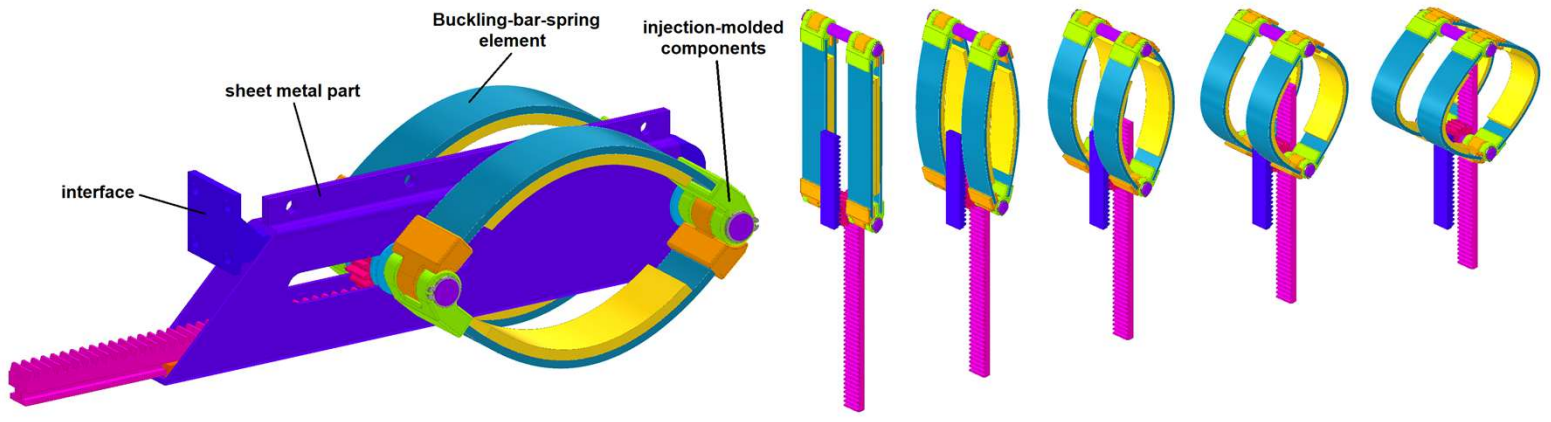
# DANTO Spring for Automotive

## DANTO-Spring-concept:

- Replaces steel coil spring in the same space
- 75% weight savings
- Corrosion free
- Variable design
- Adjustable spring characteristics
- High damping factor (acoustics)
- **Suitable for the automotive industry and many more**



# Buckling-bar-spring drive – characteristic

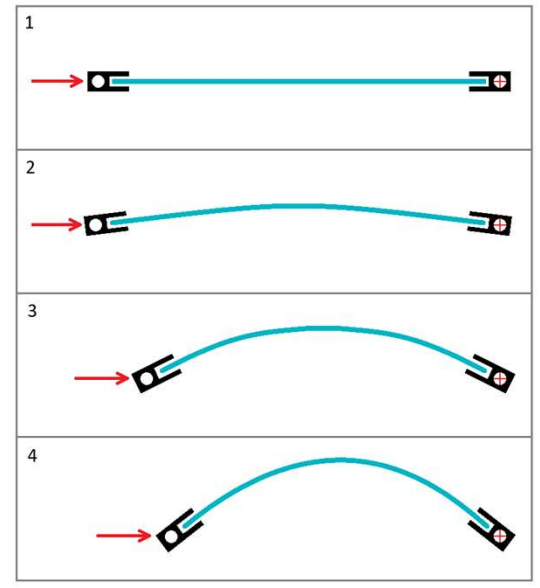
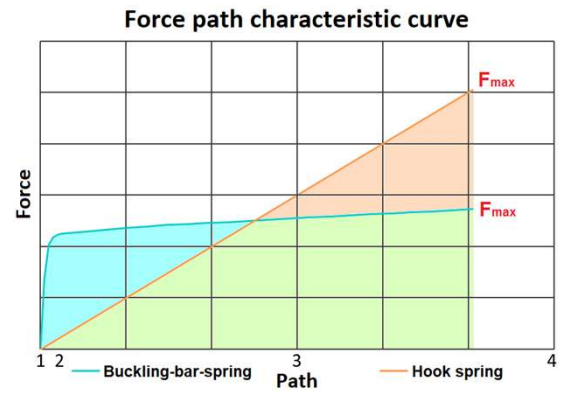
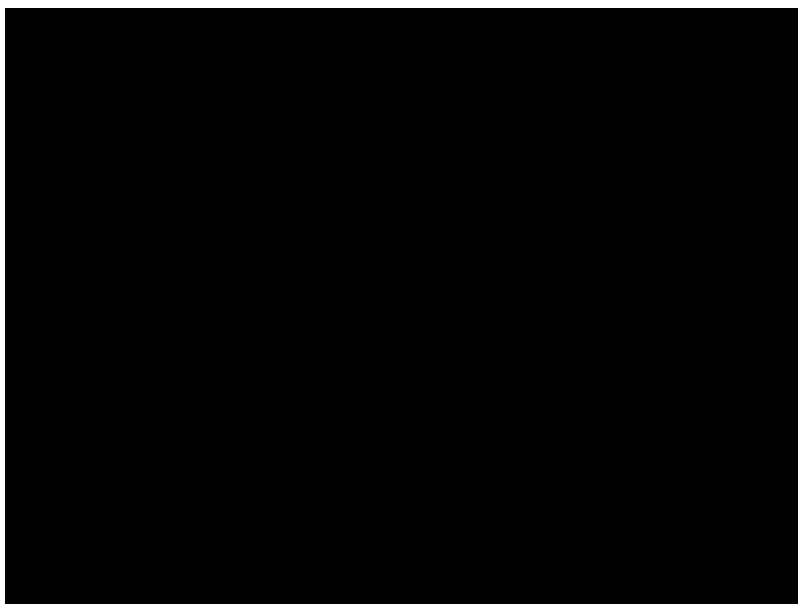


ready to use buckling-bar-spring drive module

**Advantages:**

- Light
- Cheap
- Durable

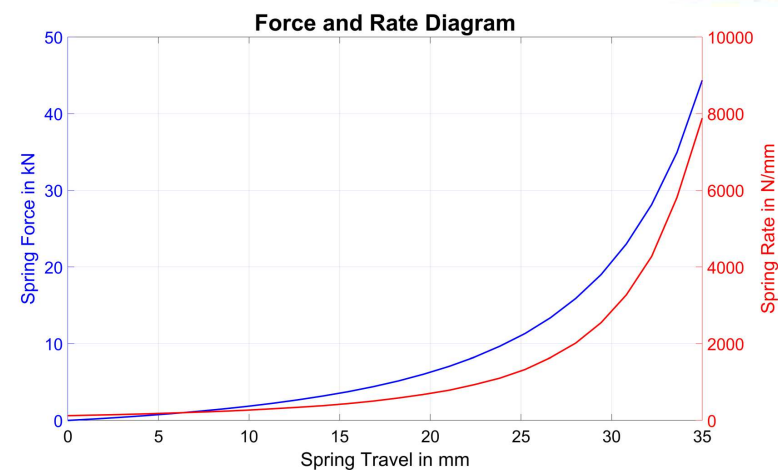
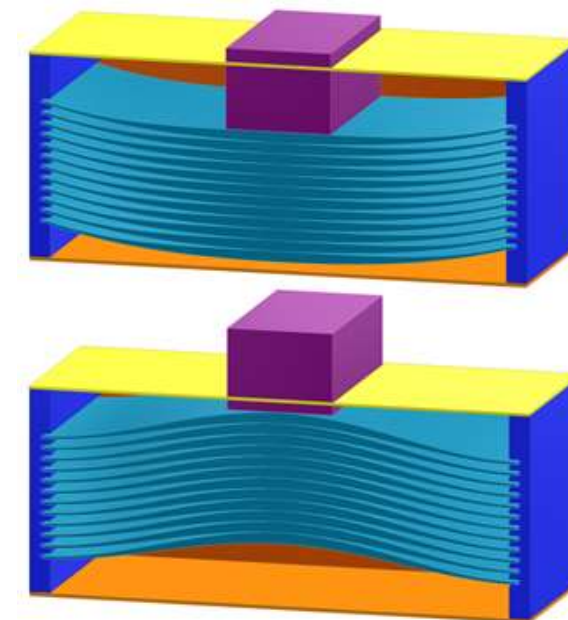
animation of a buckling-bar-spring driven hammer



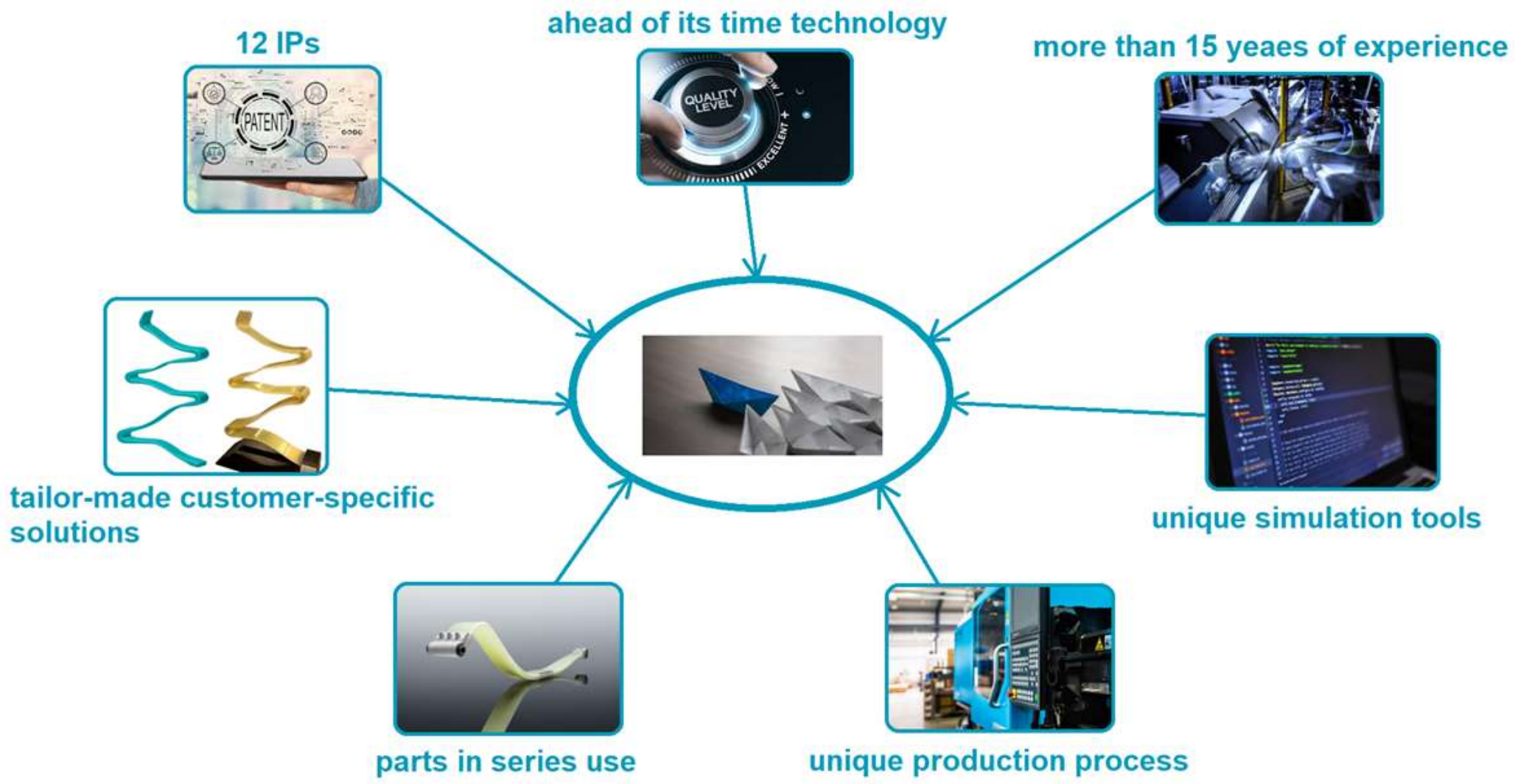
nonlinear spring characteristic

# Layered spring for trains vibration isolators

- Weight savings of 50-60%
- Durable (lifetime ca. 30 years) , no loss of force over time
- High forces, very compact
- No temperature dependence
- Replacement for rubber buffers and coil springs
- Low manufacturing costs
- Suitable for rail vehicles, vibration isolator



# About CompoSpring





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[www.compospring.com](http://www.compospring.com)