

# SmartBox

[www.kovis-group.com](http://www.kovis-group.com)

Improve your wagons with our  
lightweight axle box BA395.

 **KOVIS**<sup>®</sup>  
good ideas create future

# Market Opportunity.



**Government contribution and supports:** lower energy consumption, better CO2 footprint, eco-friendly production, zero waste approach....



**New way of transport:** increasing urbanization, traffic complexity, transferring road to rail freight transport, rising demand for safe transport, shorter journey time,...



Railway freight operation requires technical and economical solutions with **low life-cycle cost.**



**Lightweight materials** provide opportunities for the next generation of railway vehicles.

New axle boxes BA395 from Kovis **used for up to 25 tons axle load on freight wagons.**

# Safer,

Improved sealing against grease leakage (offered as standard option):

- **No leakage** of grease from axle box
- **Safer** operation of the train
- Longer periods without maintenance




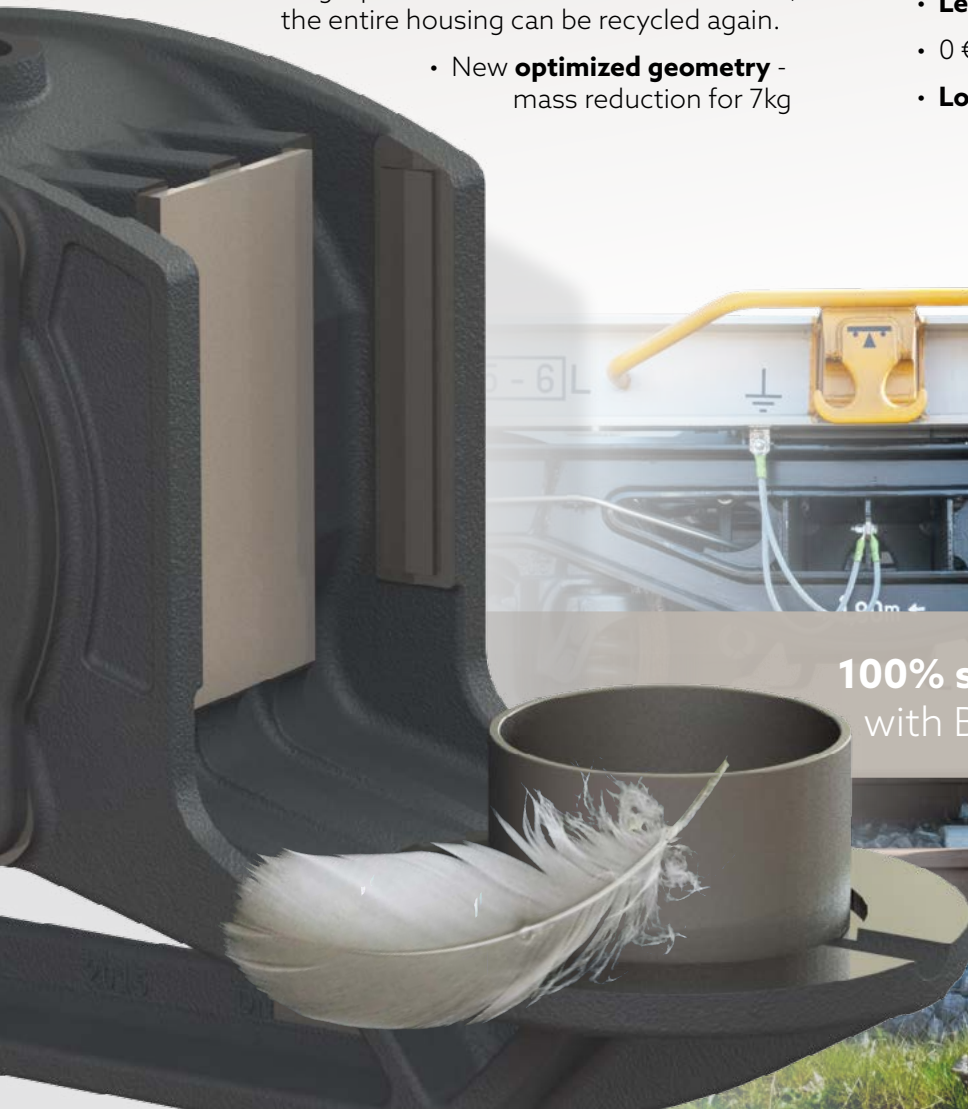


# greener

- **Reducing CO<sub>2</sub> emissions** in the production and use of the product.
- **80% of recycled material** is used in the process of making a product. At the end of its useful life, the entire housing can be recycled again.
  - New **optimized geometry** - mass reduction for 7kg

# and more efficient!

- **Increased strength** - maintained overall structural integrity
- Lower maintenance costs
- **Less energy** consumption at acceleration
- 0 € additional replacement costs
- **Low-cost solution**



100% substitution  
with BA 386 box

# Complete Integrated Solution. Our Responsibility.

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KOVIS is an internationally innovative company for the development and production of components for the railway industry and various parts for other industrial sectors.

**We turn good ideas into a safe and sustainable future.**



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