

The New HOPP-Carbon Ceramic Pulley-Cage with Oversize Pulleys using LUVOCOM XCF high-performance materials for outstanding bike performance

Main features:

- High modulus thermoplastic carbon fiber compound for optimal shifting precision
- Additional weight saving by optimized design
- Maximum impact safety

Hopp-Carbon is a leading supplier of specialty carbon fiber tuning parts in the bicycle market. They develop and manufacture derailleur and brake components with the finest craftsmanship, exclusively for the high-end segment. Due to their manufacturing methods, these components are available in limited quantities, making them very exclusive. To offer ambitious athletes and competitive sportsmen a broader range of applications, HOPP-Carbon has added a new lightweight pulley cage with oversized pinions to its product range. Together with the LEHVOSS Group and Formenbau Niemann, all components were functionally optimized and designed for minimal weight.



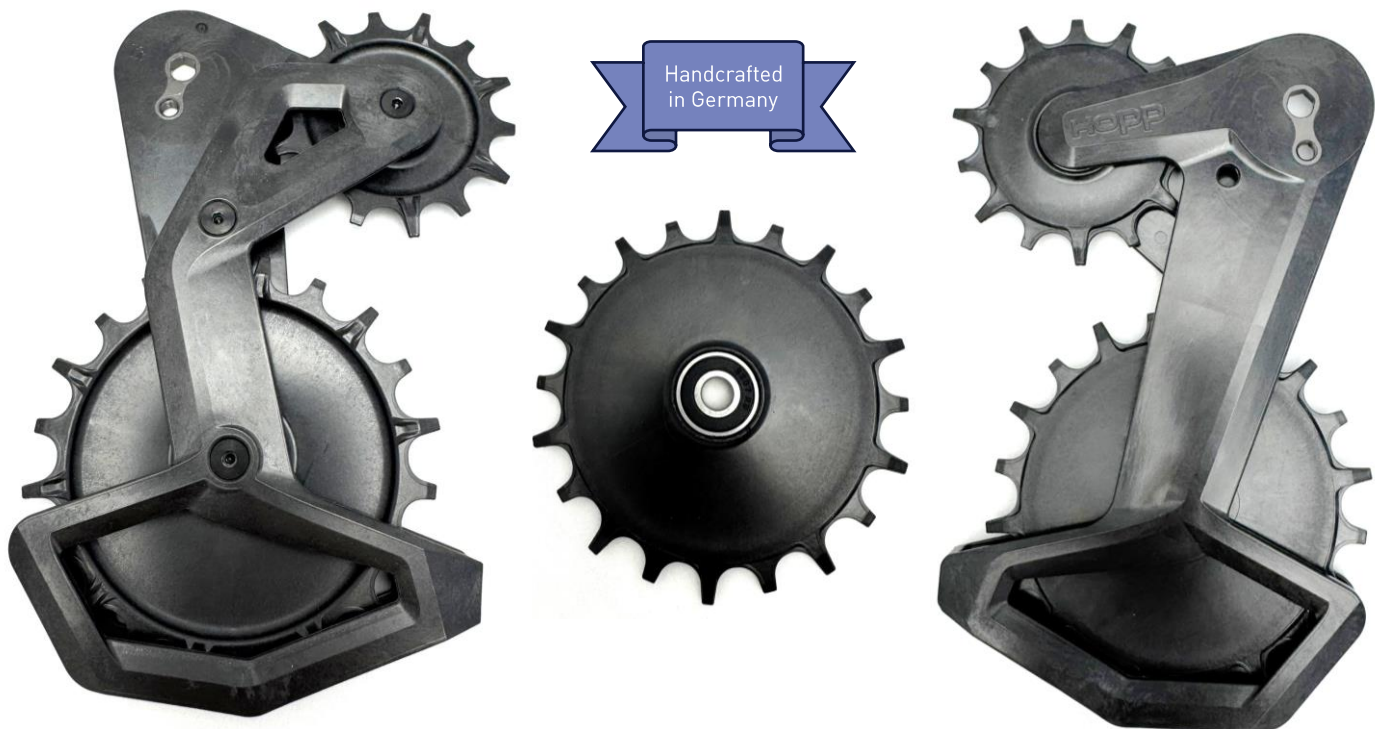
Materializing
Ideas

The shifting precision and speed of derailleurs depend directly on the rigidity of the derailleur cage. Therefore, a material based on extended carbon fiber technology (LUVOCOM XCF compound) was selected. This material combines maximum stiffness and strength with exceptionally high impact energy absorption – important characteristics for an MTB pulley cage of this performance class.

The entire pulley cage and the derailleur pulleys can be disassembled into their individual components, making it easier to replace parts in the event of a crash. The newly developed pulleys use ceramic bearings to minimize losses and optimally transfer pedaling power to the road or trail. These special bearings are weight-optimized and exhibit very low wear.

For the lubricant of the ceramic bearings, the expertise of the LEHVOSS Functional Fluids department was utilized. The result is a lubricant that ensures a long bearing life while minimizing energy losses.

A specific objective was to source all components, tools, and materials from Germany. Component manufacturing and assembly were also to take place in Germany. This was easily achievable, and thus this cage can rightfully bear the title "Made in Germany."



This project was realized through cooperation of:

HOPP
carbon parts

**FORMENBAU
NIEMANN GmbH**

LW LEHVOSS
Group

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