

# GMN



## GMN Freewheel clutches for E-Bikes and hubs

Freewheel manufacturer with more than 50 years of experience

The Nuremberg specialist in drive technology has built up extensive expertise in freewheels over a long period of time. Since the late 1960s, GMN has been offering this important component, and since the 1990s, specifically for bicycles. From 2014 onwards, the company has increasingly been represented in the e-bike sector.

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### FE 400 KA

NEW!



The brand-new series FE 400 KA has been developed and designed specifically for bike-applications. The spring-preload is now integrated into the cage-design: The cage-spring system!

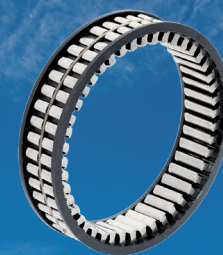
This patent pending design combines highest torque capacity in minimized space with highest reliability. At the same time, the weight of the freewheel clutch is noticeably reduced due to the less number of sprags.



### FER 400

The FER 400 series has also been specifically developed for use in bicycle applications. The freewheel clutch already includes an integrated roller bearing, allowing for space-saving design solutions.

### FE 400 Z / BZ



GMN insert elements are available in many different standard dimensions. The established and approved series FE 400 Z and FE 400 BZ are equipped with a classical tension-spring and transmit highest torque in smallest space. The specific sprag design provides an integrated overload protection.

All GMN insert elements of the series FE 400 Z and FE 400 BZ can be produced in widths ranging from 6 to 15 mm and in various dimensions on request.

They are designed for the assembly between hardened and ground mating parts and are suitable for both oil and grease lubrication.

All GMN insert elements can be used as indexing elements, overrunning clutches, or backstops.

