



HUBS & BEARINGS

PERFECTLY CRAFTED HUBS AND BEARINGS DESIGNED FOR THE AFTERMARKET



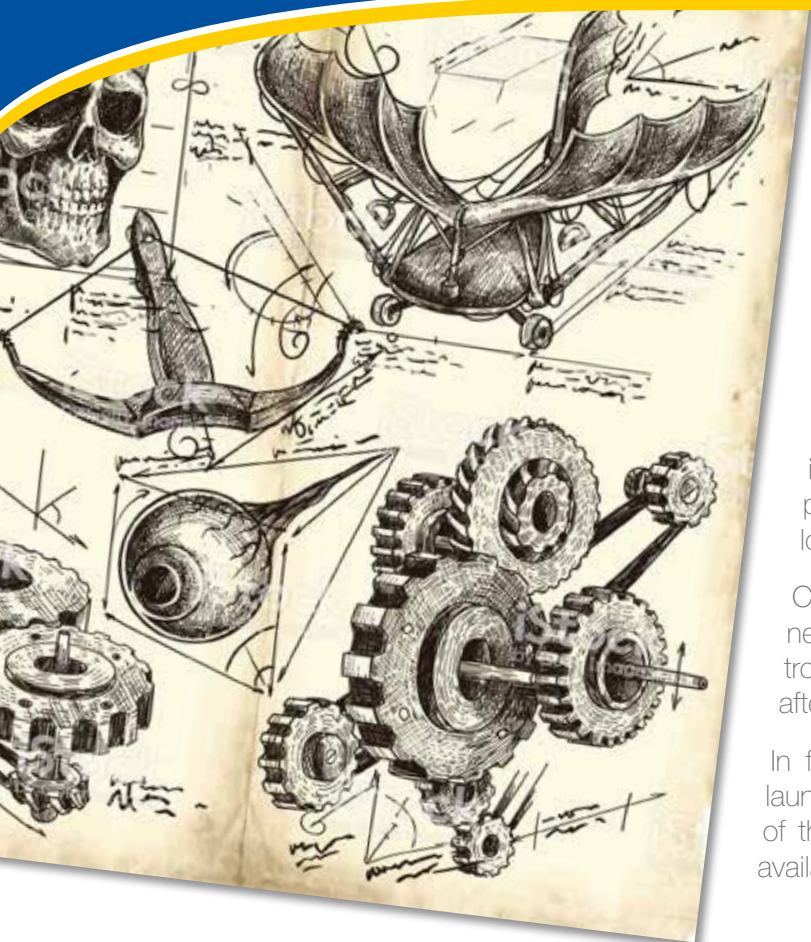
INTRODUCTION

The history of the bearing is the subject of some debate with the Ancient Egyptians, the Romans and even Leonardo Da Vinci being afforded credit for the invention.

Modern day wheel bearings play a crucial role in mobilising all types of vehicle and must have the capacity to handle immense radial and/or axial loads. High-quality replacement parts are therefore absolutely essential in maintaining the long-term performance of a vehicle.

Comline's range of high-quality hub assembly kits and all-new wheel bearing kits are designed to deliver smooth, trouble-free operation and equally smooth results for aftermarket businesses.

In fact, having responded to customer feedback with the launch of new wheel bearing kits, Comline now offers one of the most comprehensive wheel hub and bearing ranges available in the aftermarket.



MANUFACTURING

Comline quality starts with manufacturing. All Comline wheel hubs and bearings are manufactured to tight tolerances in class-leading production facilities that operate to ISO 9001 certified standards and in compliance with TÜV regulations. The result is perfectly crafted hubs and bearings that feature precise internal geometry.

MATERIALS

Comline wheel hubs and bearings are shaped from lightweight, high-carbon steel for a superior mix of toughness, heat resistance and durability that yields stellar performance throughout the service life of the part.

Premium, long-life seals deliver protection from contaminants whilst high-performance grease offers effective lubrication across a broad range of temperatures (-20°C – 120°C), corrosion protection and resistance to washout.

TESTING

The final piece in the Comline quality jigsaw sees extensive testing undertaken to ensure the performance of all hubs and bearings throughout the range. This includes:

- Material analysis
- Dimension testing
- Bolt tensile testing
- Metallographic analysis
- ABS signal detection
- Fatigue life testing



RANGE

The Comline hub & bearing range delivers in-depth coverage across the vehicle parc spanning all popular European, Japanese and Korean applications. Each part number is delivered as a complete kit and contains all the relevant accessories required for simple, convenient installation. Accessories vary by application but may include nuts, split-pins, seals, caps, O-rings, circlips, lock-nuts, bolts, shields, spacers, paper-gaskets and washers.



As illustrated to the right, the Comline range also encompasses examples from each bearing generation ranging from simple, two-piece, 'Generation 0' designs to the more complex second and third generation variants.

This comprehensive, high-quality product range is backed by Comline's value-for-money promise which is proven to deliver positive results for aftermarket businesses in over 40 countries worldwide.



GENERATION 0

Single row ball (driven wheels) or taper roller bearing (non-driven wheels).

Traditional, two-piece bearings, less prevalent on modern vehicles.

Laborious installation as manual pre-load, lubrication and sealing is required.

Complex mounting process compared to other product generations



GENERATION 1

Double-row ball (driven wheels) or taper roller bearing (non-driven wheels).

Cartridge style design comprised of a complete inner and outer race, balls or rollers, cage and seal.

Lifetime seal and pre-lubrication with factory set pre-load.



GENERATION 2

Bearing with integrated hub for wheel and disc attachment or flange for stub axle fixing.

Double-row ball or taper roller bearings.

Lifetime seal and pre-lubrication with factory set pre-load.

Integration of ABS sensors on selected applications.



GENERATION 3

Dual-flange design with integrated hub for wheel and disc attachment and secondary flange for suspension fixing.

Double-row ball or taper roller bearings.

Lifetime seal and pre-lubrication with factory set pre-load.

Integrated ABS sensors on selected applications.

Lightweight, compact characteristics make Generation 3 designs increasingly popular with vehicle manufacturers.





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