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BELT TENSIONER KITS



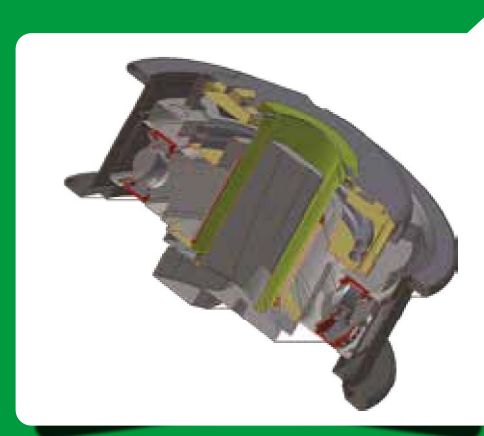
FROM PROJECT TO PRODUCT.

- For over 40 years we have been manufacturing belt tensioners and clutch bearings. We have a wide range of wheel bearing kits available and we make the management of the entire product development process the cornerstone of our work, where we assert the features of our company values of responsibility, flexibility and quality-orientation.

RESEARCH AND DEVELOPMENT

● DESIGN

Our Technical Department is the starting point for the development of new products. The main steps are: feasibility study, analysis of the characteristics specific to the application, design, structural testing, prototyping and drafting of all necessary documentation for final approval. Over the years, the tools available to designers have evolved enormously, offering not just an increased ability for representation, but also an effective estimation analysis that, through sophisticated simulation programs, are able to demonstrate product compliance according to the specifications required by its application. Both a complete 3D management of the entire project including its approval and a reduction in development and production time have been achieved using SolidWorks software.



● INSPECTIONS AND MEASUREMENTS

Alongside test benches, measuring tools are also fundamental in supporting research and development and ensure that, during the production control phase, standards defined in the project are maintained over time. A roundness and surface roughness tester, a profilometer and a three-dimensional inspection station are the most recent additions to our measurement and inspection apparatus.



● TESTING

To assist in design, test benches for automatic tensioners and belt tensioners allow us to check the features of our products by comparing them with those of the original products and to simulate the life cycle under extreme temperature, load and speed conditions.

The data collected, which enrich the large corporate database, represent a concrete and immediate feedback to the design and, at the same time, an important platform on which to base the constant improvement of products through specific analysis (FMEA).



● CERTIFICATION

It has been many years since achieving the ISO 9001 quality certification, but a commitment to continuous improvement, which has long been the cornerstone of our philosophy, has continued. In September of 2013, we achieved the milestone of the ISO/TS 16949:2009 certification of the Quality System issued by the TUV.



QUALITY

● QUALITY CONTROL

All of our products' production phases are monitored by careful quality controls:

- Operating instructions
- Inspection plans
- Production cycles
- Systematic checks
- Detection and correction system for non-conformity of the product and process
- Evaluation of production waste

are just some of the tools that are used daily by all departments to ensure that the quality of the products undergoes constant monitoring and remains consistent over time.



PRODUCTION

Production is undoubtedly a focal point of our business.

It is, alongside designing and testing, the distinguishing feature of the company; one that allows us to distinguish ourselves from many of our competitors (who simply act as repackers) and become a supplier of leading manufacturers and part suppliers.



- 1.raw material
- 2.semimanufactured product
- 3.end-item
- 4.laser marking
- 5.cartoning
- 6.stocking

● WHEN CONSIDERING BELT TENSIONERS, ONE CANNOT OVERLOOK THE CORE OF THIS PRODUCT, THAT IS THE ROLLER BEARING.

ALL PROJECTS ARE BASED ON THE IN-DEPTH ANALYSIS OF THIS IMPORTANT COMPONENT; AS A MANUFACTURER WE HAVE A VERY CLEAR IDEA OF THE TECHNICAL SPECIFICATIONS THAT ARE FUNDAMENTAL FOR ENSURING EFFECTIVE QUALITY AND DURABILITY.



- THESE SPECIFICATIONS ARE:
- RADIAL AND AXIAL FREE PLAY
 - HOUSINGS
 - GREASE TYPE
 - MATERIAL QUALITY
 - GEOMETRIC SHAPE AND DIMENSIONAL TOLERANCES

ALL THIS INFORMATION, A VALUABLE PART OF OUR EXPERTISE, IS USED AS GUIDELINES DURING THE PRODUCTION AND INSPECTION PHASES OF THE SPECIAL BEARINGS USED IN THE ASSEMBLY OF OUR BELT TENSIONERS.

- **BELT TENSIONERS AND KITS**

BELT TENSIONERS ARE THE CENTERPIECE OF OUR PRODUCT RANGE.

RANGE

OUR CATALOGUE CURRENTLY CONTAINS OVER **2000** PART NUMBERS AND IS CONSTANTLY GROWING.



- OUR BELT TENSIONERS ARE EITHER PRODUCED IN ITALY OR ENTRUSTED TO LEADING EUROPEAN PART SUPPLIERS.

CURRENTLY WE ARE MAKING MAJOR INVESTMENTS IN THE DEVELOPMENT OF A NEW GENERATION OF SO-CALLED "AUTOMATIC" OR "PRETENSIONED" TENSIONERS. PRODUCTS INTENDED TO REDUCE ASSEMBLY PROBLEMS AND VIBRATIONS IN THE ENGINE TIMING SYSTEM.

- RECENT YEARS HAVE SEEN THE GRADUAL EVOLUTION IN THE USE OF MOUNTING KITS WHICH COMBINE THE BELT TENSIONER, THE TIMING BELT AND AUXILIARY DRIVE SYSTEMS INTO A SINGLE PACKAGE.

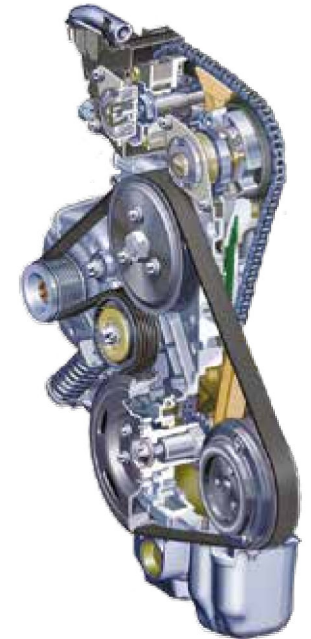
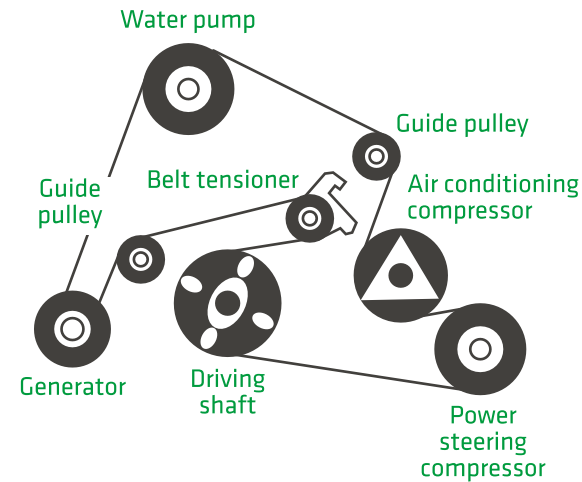
RECENTLY "WATER PUMPS" WERE ALSO ADDED BECAUSE ALSO THIS COMPONENT, LIKE THE OTHER ELEMENTS OF THE SYSTEM, BECOMES STRESSED BY THE TIMING BELT TENSION AND IT IS SUBJECT TO WEAR AND TEAR THAT LEADS TO IT HAVING TO BE REPLACED ALONG WITH THE BELT AND BELT TENSIONER.



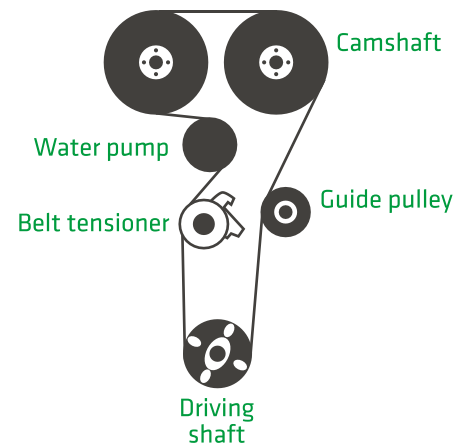
OUR DEVELOPMENT STRATEGY IS BUILT UPON THESE KITS, AND FOR THIS REASON WE HAVE EXPANDED OUR RANGE TO OVER **650** TIMING BELT TENSIONER KITS, MORE THAN **200** KITS WITH WATER PUMP AND **60** AUXILIARY DRIVE KITS.

- A further important element of the distinctive Breda Loretta kits is the use of DAYCO belts, a guarantee of quality and reliability.

AUXILIARY EQUIPMENT



DISTRIBUTION



All the products in our range help populate the TecDoc database from which the most common part numbers and all aftermarket supply chain e-commerce searches are derived.

