

Double row idlers

High capacity double row idlers for use in automotive belt drive applications

Idlers are used in belt drives to guide the belt and to allow a flexible drive layout with sufficient belt wrap angles for each driven unit.

The main challenges are meeting high belt loads and the high operating temperatures. Under these conditions the idler must still fulfil the service life of the engine. To allow this SKF is offering specially designed double row idlers that are greased and sealed for engine service life. The grease is selected to ensure maximum service life and is optimised for outer ring rotation.

Applications

- The main applications are belt drives, i.e.
- Timing belt drive
- Accessory belt drives

The requirements for the two applications are similar with the main difference being that accessory idlers require an improved corrosion protection and an improved sealing arrangement due to being exposed to a harsher environment.

Secondary applications are, for example, chain gear idlers for chain drives where low friction properties in rolling element bearings is required.

Key design features

- High capacity ball set
- Efficient sealing solution
- A modular design to allow the idler to be customized for each application
- High precision pulleys
- Flexibility in pulley material and shape for each application requirements

Benefits

- Applicable for high load applications
- Low belt drive noise
- Low friction
- Designed to fulfil the full engine service life
- Flexibility of design
- High temperature performance

SKF's double row idler offers robust belt guidance with low friction during the complete engine service life, also under severe operating conditions.

SKF has produced belt idler units for over 30 years and this high load double row idler is further proof of SKF's commitment to continuous improvement in order to meet the needs of our customers.

Our extensive know-how in timing drives together with our experience and in-house developed timing drive system analysis and design software, makes SKF the ideal partner for developing optimised solutions for engine drive bearings.



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PUB 10/S7 11099 EN · September 2010

