

PRODUCT BRIEF



SYNCHRONOUS BELT DRIVE SYSTEM TENSIONER TECHNOLOGY

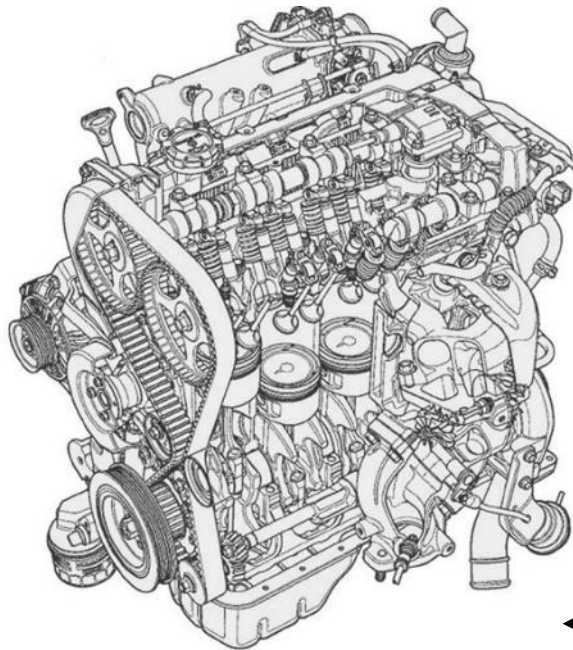
Gates' capability to supply complete Synchronous Belt Drive Systems has led to the development and application of a wide range of tensioners specifically designed to fulfill our customers' needs.

SYSTEM

Tensioner Damping →

CAM / CRK
Roughness
AV / TV

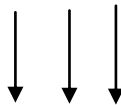
Idler Specification →



← Belt Stiffness / Damping
Elongation

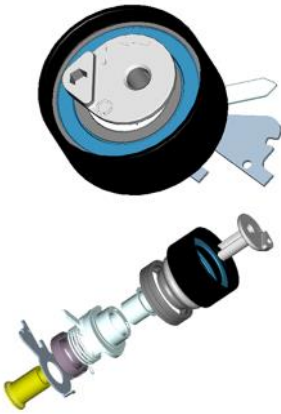
← System Geometry

← Accessories
Power Consumption and Inertia



- Low Belt Effective Tension
- Reduced Span Vibrations
- Low Noise System
- Optimised Dynamic Behavior SBDS
- Belt and Tensioner Durability
- Low Power Consumption

SYNCHRONOUS BELT DRIVE SYSTEM TENSIONER TECHNOLOGY



COMPACT MECHANICAL TENSIONERS

- › Compact and robust design
- › Same space as fixed idler
- › Cost-effective
- › Hub load dependent damping
- › Short arm length (3-4 mm)
- › Well proven in the field



HYDRAULIC TENSIONERS

- › Very high asymmetric damping
- › Robust
- › Relatively high cost
- › Requires space to package
- › Arm length (8-10 mm or 40-60 mm)
- › Large wrap angle (70°) possible



ECO TENSIONER

- › Compact and robust design
- › Cost-effective
- › Easy to install
- › Damping proportional to hub load

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The manufacturers reserve the right to amend details where necessary.