INDUSTRIAL BELT DRIVES

Twin 575kW Chipper Drive
Powered by GATES Predator® Belts
Photo Courtesy of Pedersen Holdings Ltd

ISO 14001
GCS CERTIFIED

ISO 9001
GCS CERTIFIED
While two V-belts may look similar to the casual observer, engineering design processes and materials can vary greatly, leading to vast differences in performance. With nearly 100 years of experience, Gates advanced V-belt systems are constructed to out-perform and outlast all other competitive products.

**FEATURES GUIDE**

### V-belt Curves

**When V-belts are under tension and running in a pulley they change shape.** Gates V-belts are designed with the exclusive Gates Curves feature that consists of three key components: Concave sidewalls, Radius relief corners and an Arched top. Concave sidewalls assure even contact with the pulley. Radius relief reduces corner wear and works in conjunction with the concave sidewalls for uniform tensile loading. The Arched top provides strength, preventing the "dishing" effect that is found in other belts not engineered for shape change. The superior Gates Curves work to evenly distribute wear and offer uniform cord support creating more efficient drives and increased service life.

### Match-Free Belts

**To prevent users from going through the cumbersome task of matching their V-belts, Gates has applied proven statistical process control (SPC) methods to material and assembly processes, creating the V80 and UNISET series of belts, which are built to tight tolerances in each size category.**

Each V80 and UNISET belt is manufactured with a 1% tolerance so that any Gates belt will match and perform with any other V80 or UNISET belt of the same size and type. Made with high-modulus polyester tensile cords, Gates V80 and UNISET belts exhibit extremely low stretch, saving maintenance time and money.

### Belt Drive Design Software

Gates Design Flex Pro™ software is the ideal tool for checking existing belt drives and designing new belt drives.

**Fast and Easy**

With as little as 6 pieces of data you can instantly generate a report providing you with the capacity and accurate tensioning details for your belt drive.

If you are trying to modify an existing drive, or design a completely new one, then just select the drive or belt types, enter in the required parameters and you will have a list of all possible drive options. All you need to do is then select the solution that best suits your requirements.

The detailed design reports generated can easily be printed or saved as a PDF for future reference.

Visit www.gates.com/designflex

### Preventive Maintenance Training Course

Gates offers certified Preventive Maintenance Training to assist in achieving the best performance from your belt drive and keeping downtime and maintenance at a minimum. The most common causes of poor belt life are improper maintenance and improper installation. The course aims to ensure that these causes are illustrated to provide trouble-free drives and increase your uptime.

**THE COURSE COVERS THE FOLLOWING:**

- Belt identification
- Belt construction
- Belt matching
- Belt drive problems
- Pulley and belt inspection
- Guard maintenance
- Shutdown procedures
- Drive installation and alignment
- Belt tensioning techniques
- Retension periods
- Training on the use of tension and laser alignment tools
- Troubleshooting failure modes

Duration of course = 3 – 4 hrs. Max 12 per class.

Cost: Dependent on group size.

**Increase Uptime With Proper Maintenance**

An effective preventive maintenance program keeps your facility running safely and at optimum capacity. Improperly maintained belt drives can be your most cost-effective and reliable power transmission solution. Industrial belt drive performance is negatively impacted by many factors.

**SOURCE:**

- Improper drive maintenance 42%
- Environmental factors 15%
- Improper installation 20%
- Poor design 20%
- Improper handling 2%
- Defective components 1%

Eliminate any of these factors having an impact on your productivity!

Attend the Gates Preventive Maintenance Seminar:

For more information on technical services, 

Gates Industrial Belt and Drive Preventive Maintenance Manual
THE COMBINED FORCE OF SAECOWilson & GATES

SAECOWilson and Gates have been recognized as industry leaders in the design, manufacture, and distribution of a wide range of high-performance belts and components. Together, the companies have earned a reputation for quality, innovation, and commitment to customer satisfaction. This partnership allows customers to benefit from the combined expertise of two market leaders.

No matter your industry, you can expect the best from SAECOWilson’s innovative and advanced product range. With a strong focus on customer needs, the company offers a comprehensive selection of high-quality belts that meet the specific requirements of various applications.

Innovation is at the heart of Gates’ mission. The company has a long history of developing cutting-edge products, including Predator® and Poly Chain® GT Carbon®. Gates is committed to improving the features of industrial belt products in anticipation of customers' future needs. With each new product advancement, Gates has helped industry overcome problem belt applications and minimize maintenance stress.

SAECOWilson’s longstanding commitment to servicing NZ industry has set the standard for excellence. The company’s branch network of 21 sites is supported by in-house engineers who provide the technical support necessary for your business’s success.

Gates' dedication to innovation and tradition is evident in the variety of products offered. From the space-saving Super HC® and Quad-Power® III to the downtime killing Predator®, Gates have a premium construction v-belt for every application.

With Gates' high-torque synchronous belts, you can rely on consistent performance, high-torque conditions, and smooth operation in limited space. Specially treated bare back fabric ensures the belt can withstand extreme conditions while being maintenance-free and economical in maintenance.

In contrast, Micro-V® offers extremely smooth operation, particularly suitable for linear movement applications. Gates' v-belts vibrate, turnover or jump out of the pulley, but their Poly Chain® GT Carbon® is designed to prevent dishing and rounded edges, offering an extremely small pulley diameters.

V-BELTS

SAECOWilson’s and Gates’ v-belts offer a variety of options to meet the needs of different industries. The unique combination of innovation and tradition makes Gates the perfect partner for industries looking to improve their operations.

Synchronous Belts

Gates’ Twin Power® Synchro-Power® Long Length belts are suitable for drives that require high-speed and high-torque applications. These belts are equipped with Polychain® GT3® poly chain, suitable for all heavy-duty industrial applications, particularly where resonance, belt length and center distance are a concern.

The unique combination of innovation and tradition makes Gates the perfect partner for industries looking to improve their operations.

ESSENTIAL MAINTENANCE TOOLS

For optimum belt drive performance, you need the right tools for the job. Gates offers a range of tools to ensure accurate belt installation. Using Gates’ belt installation aids, such as the single barrel (15kg) and the replacement magnet (7420-1212), you can ensure that correct tension is maintained, using the tension tester ensures the belt is neither too loose nor too tight.

With Gates’ wide range of essential maintenance tools, you can be sure to have the right solution for your needs. Whether you’re looking for replacement targets, belt alignment gauges, or tension testers, Gates has the tools you need to keep your systems running smoothly.

If you need the right tools for the job, Gates is your go-to for comprehensive solutions that include replacement targets, belt alignment gauges, and tension testers. Whether you’re looking for a tool kit, a green laser alignment device, or an essential maintenance tool, Gates offers a wide range of options to meet your needs.

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