



DRIVEN BY POSSIBILITY™

DESIGN POWER™: TPU MODULE

TPU SOLUTIONS SIMPLIFIED

We understand the challenges of designing reliable thermoplastic polyurethane (TPU) belt drives. That's why we've enhanced Gates Design Power with the TPU Module to make your work easier, faster, and more precise.

Whether you're in pharmaceuticals, logistics, food and beverage, or robotics and automation, the Design Power TPU Module is built to make your operation unstoppable.

FOR THE TEAMS THAT MAKE IT HAPPEN

APPLICATION ENGINEERS & PRODUCT LINE MANAGERS

- **Efficiency redefined:** Tackle complex TPU applications with a design software that evaluates every product in our portfolio at once. Get the answers you need faster, with our desktop or mobile versions
- **Consistent and reliable:** Built to provide globally consistent outputs, ensuring accuracy and efficiency no matter which regions you're supporting

SALES TEAMS & SPECIALISTS

- **Deliver tailored solutions:** Configure products to meet your customer's needs with confidence, backed by precise calculations and seamless usability
- **Information at your fingertips:** Find the belt specs you need to support your application with our intuitive tool that also serves as a product information library



BETTER TOOLS, BETTER DESIGNS, BETTER BUSINESS.
START USING GATES DESIGN POWER TODAY.

SELF-SERVICE BELT SPECIFICATIONS CALCULATOR

Building a new drive or looking for new solutions to improve an existing drive? Use the Belt Specifications Calculator in four easy steps:



ENTER YOUR DRIVE LAYOUT

Input drive layout details such as the belt length, pulley diameters, and any belt width requirements or limitations.



ENTER YOUR APPLICATION LOAD

Enter application details such as loads, accelerations, speeds, and any other additional forces.



ENTER ENVIRONMENTAL CONDITIONS

Select the conditions for the operation's environment such as contact with food, UV exposure, or high humidity.



REVIEW BELTING SOLUTIONS

View a list of all recommended products for the application, filter them down using the calculated technical details, and request a quote for the exact products selected.

TPU MODULE FUNCTIONS

1. BROADER RANGE OF APPLICATION TYPES

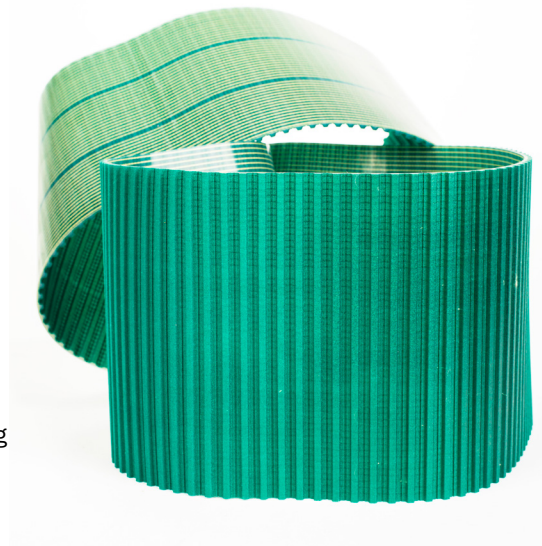
Use the tools in the TPU Module to specify the right products or dive deeper into product information for a wide range of applications. Need to get information about other Gates belt products? Easily flip to another Design Power module like Design IQ™ or Design Flex Pro™.

2. QUICK ORDER PRODUCT CONFIGURATOR

Already know the specifications for your belt? Use the digital input sheet in the Quick Order product configurator to enter your belting specifications and request a quote.

3. REQUEST FOR QUOTE

Ready to quote the products from your design? Save time and streamline the buying process by doing it straight from the Design Power TPU Module. There's no need to get other people or systems involved, simply click the Request for Quote button and move on to creating your next drive. All your details in one place.



COMMON APPLICATIONS

CONVEYING



Gates TPU belts excel in many common conveying tasks in industrial applications, like:



LOGISTICS & MATERIAL HANDLING

Configure durable TPU belt drives for applications requiring continuous operation and high precision, such as crossbelt sorters and general conveyor systems for package handling.



PHARMACEUTICAL & HYGIENICS

Deliver belts that meet stringent cleanliness and durability requirements for your pipetting processes, diaper and feminine hygiene production lines or tablet and capsule conveyor systems.

POSITIONING



Linear positioning functions require specific belt properties to handle the job. Choose from our TPU belt selection for both omega and 2-pulley drive setups in industries such as:



MANUFACTURING AUTOMATION

Designed to enhance performance in critical applications like laser cutting in textile manufacturing, robotic assembly, and material handling in pharmaceutical packaging.



PACKAGING SYSTEMS

Develop reliable TPU belting solutions for efficient packaging processes that contain flow wrapping stations, case packaging lines, and inspection and sorting systems.

LIFTING



Use the Design Power TPU module to specify belting for your 1-pulley counterweight, 2-pulley, or wind up lifting applications:



INTRALOGISTICS

Create designs for your warehouse lifting systems including automated product retrieval, smart shelving, and cranes.



LIFT SYSTEMS

Support the quick and efficient transport of goods in advanced vertical systems, ensuring precise positioning for applications such as automotive lifts and other industrial processes.

POWER TRANSMISSION



2-pulley power transmission applications require the right materials and design to perform in industries like:



ROBOTICS

TPU's flexibility and ability to run on small pulley diameters makes it an ideal component for robotic pick and place systems and autonomous mobile robots.



LIGHT DUTY INDUSTRIAL MANUFACTURING

TPU belts perform well in manufacturing applications like embroidery & screen printing machines, food automation, and small electronics production.