







# MITSUIE

The non-joint production technology and molding production process used by this product are both top-level all over the world.

Durability and long life endless timing toothed type belt  
ジョイントません生産技術使用される製造プロセスを成形する製品は、世界中のトップレベルの商標です。  
耐久性と長寿命無端状のタイミング歯型ベルト



Model: E7000  
Colour: \_\_\_\_\_  
Date: \_\_\_\_\_

This is a professional production of drive belts for textile machinery.  
これは繊維機械用の駆動ベルトのプロの生産です。

# MITTSUIE

The new 2000 production technology  
and working production process used by the  
products are both top level in over the world.  
Handling and long life, making strong bonded type has  
been adopted. This is a new product for textile machinery.  
It is a new product for textile machinery. It is a new product for textile machinery.  
It is a new product for textile machinery. It is a new product for textile machinery.



Model: E 700P  
Colour: \_\_\_\_\_  
Date: \_\_\_\_\_

This is a professional production of drive belts for textile machinery.  
これは繊維機械用の駆動ベルトのフコの生産です。

MITSUJIE





# Toothed Belt

## Endless loop, no join type construction for unbeatable tensile strength

This toothed belt is designed to provide a constant, synchronised, slip-free drive to all the yarn feeders on the feeder ring. The endless loop construction means that the belt has no bonding join. The belt has a very strong tension cord with 11 windings. These two features means that the belt has an excellent tensile strength along its entire length. There are no weak spots. Belt materials and construction method have proved to be the only way to produce a high quality belt which guarantees smooth, trouble-free running and a very long service life.

## Advantages

- No bonding join and therefore no weak point
- Excellent tensile strength thanks to continuous, endless loop construction
- Longer belt life and therefore less machine downtime
- Less wear and fewer belt breakages results in cost savings.
- Lower spare stock required
- Smooth, fault-free machine drive

## Technical Data

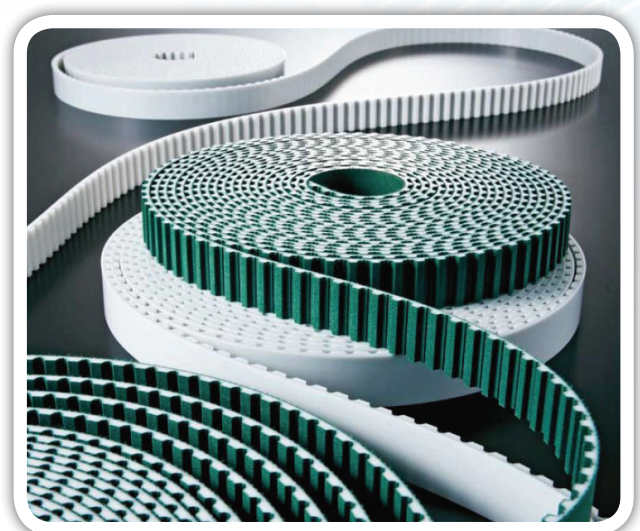
Width : 10mm

Colour : Blue

Lengths : Available in steps of 200mm

Endless loop type with one tensioner cord in 11 windings.

No join available in lengths from 5800mm to 16000mm in 200mm steps.



## Timing/Driving Belts for your industry:

*High performance belts by OPTIBELT hold up to extreme conditions. For Textile and Circular Knitting machine smooth operation. Everywhere where dust, heat, cold, aggressive chemicals or enormous rotation speeds put the material to a difficult test, OPTIBELT displays its strengths.*

*OPTIBELT's original timing belt engineered and manufactured to exceed expectations. It starts with the fiberglass cords that efficiently transmits more power where you need it. The cords are counter wound for smooth, non-biased running. The durable rubber impregnated polyimide fabric increases durability and oil resistance is bonded to the engineered natural & synthetic rubber core. Fits standard HTD® and RPP® pulleys so you get more performance and durability without the need to replace existing pulleys.*

## Features:

**PERFORMANCE:** Glass fiber cords provide superior strength and pulling force.

**LOW-NOISE:** Belt tooth design and fabric cover for quieter operation.

**DURABLE:** Fabric cover provides for increased wear and chemical resistance.

**STRENGTH:** Engineered core rubber compound for a tooth structure with superior shear strength.

**VERSATILITY:** Fits HTD® and RPP® pulleys.

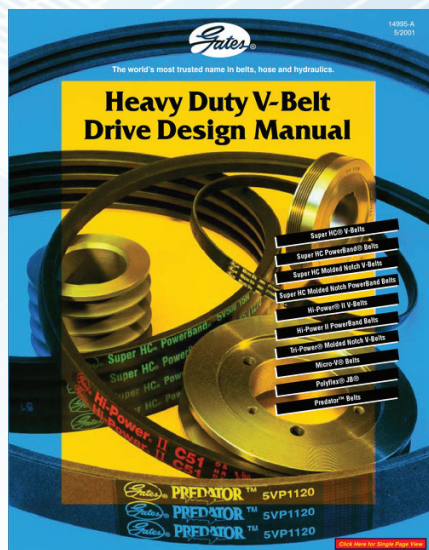
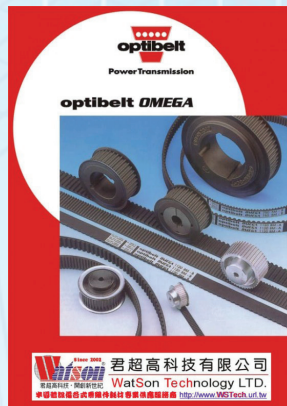
**TRUE RUNNING:** Counter rotated cords ensure the belt does not have a pull bias under running stress.

**TEMPERATURE RANGE:** Increased operation range -22 to 212°F.

## Construction

- Oil resistant top layer fabric
- Polychloroprene rubber core
- Glass fiber tension cords
- Reinforced polyamide tooth cover

**OPTIBELT V-Belts** are manufactured with carefully chosen raw materials and by using continually updated manufacturing methods. With modern production processes, large scale laboratory testing, and carefully controlled quality, OPTIBELT produces an ideal V-belt for every power transmission requirement with function, efficiency and durability exceeding any competitor's product.



**Maintenance-Free, High-Capacity, Wedge Belts** This second generation of V-belts produces results that are really worth talking about: **up to 42% more power** while at the same time **cutting costs by up to 20%**. Improved production processes and consistent development of basic products have led to these excellent results. The cost savings are



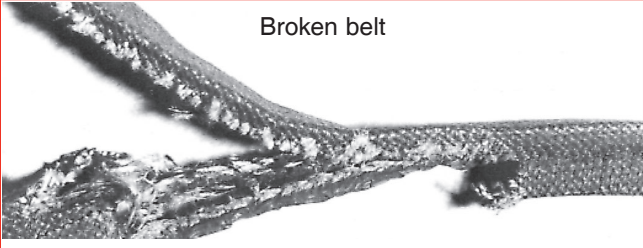
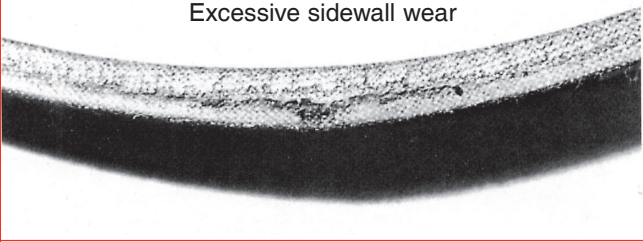
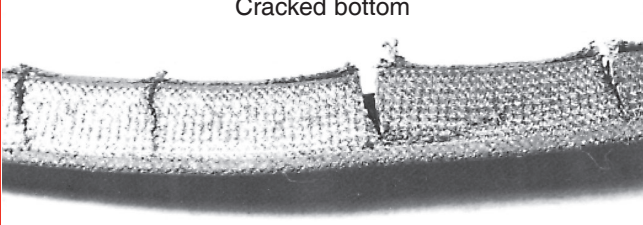
explained with the following formula: **Fewer belts + narrower pulleys + saving in drive space = lower costs.**



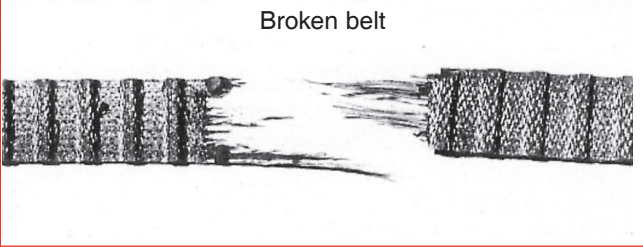
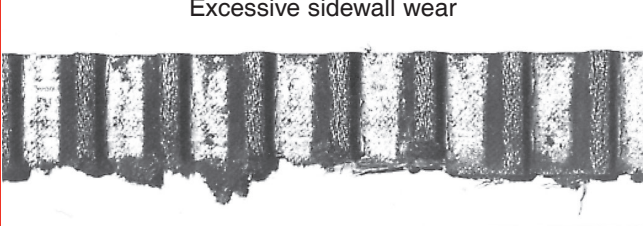
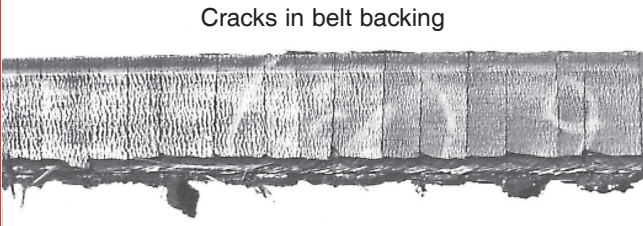
# Troubleshooting Examples of V-Belt & Timing Belt

Here are some examples of belt failures described on pages 6 and 7.  
If you've encountered similar problems, check below for probable causes and solutions.

## V-Belts

Problem	Probable Cause	Solution
 <p>Broken belt</p>	Foreign object in drive	Shield drive
 <p>Excessive sidewall wear</p>	Worn or damaged sheaves	Replace sheaves
 <p>Cracked bottom</p>	Sheave diameter too small Back side idler diameter too small Slippage High temperature	Redesign drive Replace with an inside idler on slack side, or redesign Retension drive Remove heat source. Improve ventilation

## Timing Belts

 <p>Broken belt</p>	Underdesigned drive Crimp caused tensile cord damage Belt was pried or forced on the drive Foreign object in drive Belt ran onto pulley flange	Redesign drive Follow proper storage and handling procedures Follow proper installation guidelines Shield drive Align pulleys
 <p>Excessive sidewall wear</p>	Misalignment or non-rigid centers Bent flange	Align drive and/or reinforce mounting Straighten flange
 <p>Cracks in belt backing</p>	High temperatures	Remove heat source. Improve ventilation. Check for special belt construction

