

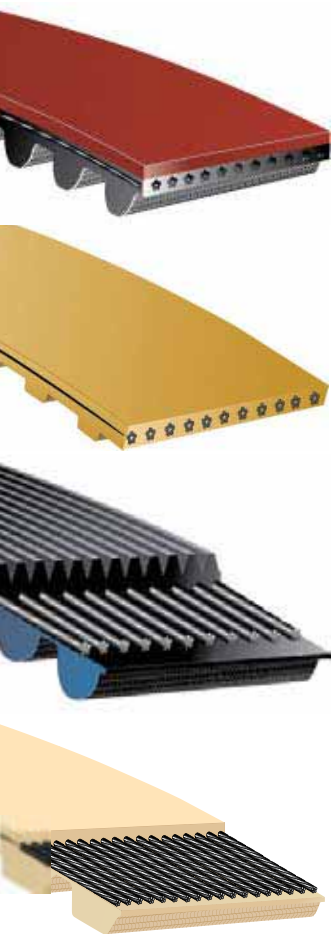
A COMPREHENSIVE GUIDE TO

# Gates Specialty Synchronous Belts

Special Applications  
Twin Power®  
Long-Length

The Driving Force in Power Transmission®





▶ **Special Applications**

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▶ **Twin Power® Belts**

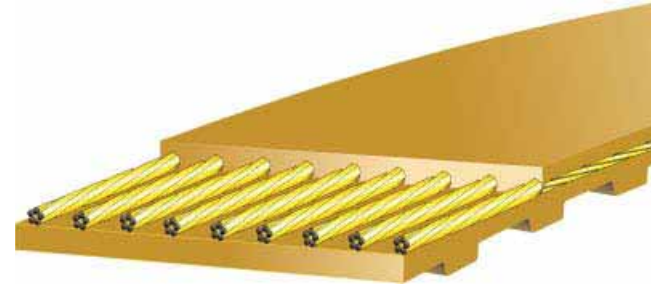
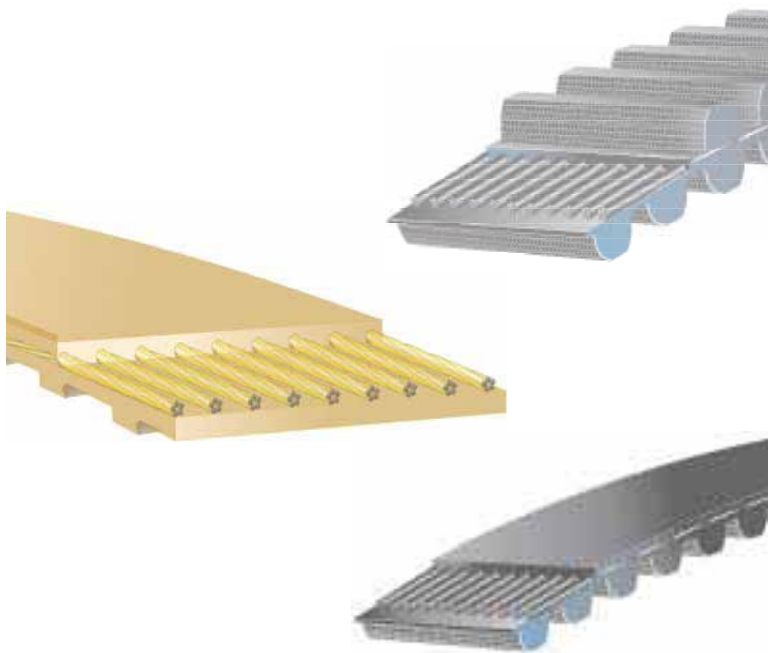
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- Many applications have a unique set of requirements that dictate a particular type of material or compound. Those requirements can include factors such as: service environment, physical properties requirements and special compound requirements such as FDA/USDA, coefficient of friction, hardness, etc.

Gates offers a wide variety of materials with specific durometers, various material properties, tensile cords and thicknesses for your special applications.



# Special Application Belts

## Special Constructions

Contact Product Application  
(303) 744-5800 or [ptpasupport@gates.com](mailto:ptpasupport@gates.com)

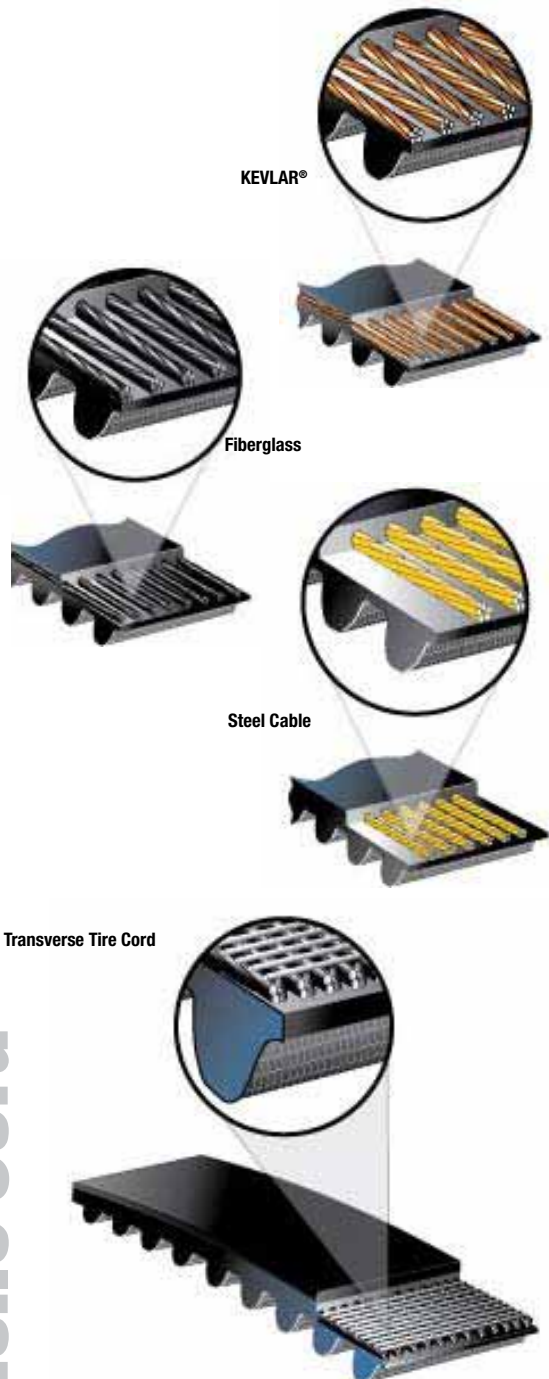
	PAGE	PGGT2 2MM	PGGT2 3MM	PGGT2 5MM	PGGT2 8MM	PGGT2 14MM
Fiberglass		●	●	●	●	●
KEVLAR®		●	●	●	●	●
Steel Cable			●	●	●	●
Transverse Tire Cord		☞	☞	☞	☞	☞
“S” Twist		●	●	●	●	●
“Z” Twist		●	●	●	●	●
Special Tensile Cord Jump Spacing		●	●	●	●	●
Extra Backing		●	●	●	●	●
Micro-V® Backing			☞	☞	☞	☞
Black Non-Marking Duro 51		●	●	●	●	●
Yellowish-Tan Non-Marking Duro 52		●	●	●	●	●
Gray Non-Marking Duro 59		●	●	●	●	●
Tan Low Duro 31		●	●	●	●	●
Black Low Duro 35		●	●	●	●	●
Brick Red Low Duro 45		●	●	●	●	●
Black Low Duro 51		●	●	●	●	●
Black Low Duro 64		●	●	●	●	●
TruMotion® Clean Running		●	●	●		
Oil-Resistant		●	●	●	●	●
Gray Wear-Resistant Duro 50		●	●	●	●	●
Red Ozex Wear-Resistant Duro 63		●	●	●	●	●
Nylon Backing		●	●	●	●	●
Low Temp (-65°F to +175°F) Small Pitch Duro 50		●	●	●		
Low Temp (-65°F to +175°F) Large Pitch Duro 72					●	●
High Temp (-30°F to +225°F) Duro 68		●	●	●	●	●
Black Conductive Small Pitch Duro 70		●	●	●		
Black Conductive Large Pitch Duro 80					●	●
Black Non-Conductive Duro 74		●	●	●	●	●
FDA Construction Duro 52						
Class 1 Grind		●	●	●	●	
Class 2 Grind		●	●	●	●	●
Class 3 Grind						●

Special Constructions



## Special Application Belts

- ▶ **Fiberglass**
- ▶ **KEVLAR®**
- ▶ **Steel Cable**
- ▶ **Transverse Tire Cord**



### Tensile Cord Options

#### ▶ **KEVLAR® Cord:**

Provides a higher tensile modulus for added shock-load resistance and robustness for especially tough applications.

#### ▶ **Fiberglass:**

Standard tensile cord for rubber synchronous belts. Offers a high-tensile modulus for dimensional stability and excellent flex-fatigue characteristics.

#### ▶ **Steel Cable:**

Provides the greatest belt tensile modulus for the lowest belt elongation under load. This is most useful in positioning and registration applications where minimizing belt elongation improves accuracy.

Pitch	Minimum Recommended Belt Width
MXL	3/32" (.093)
XL	1/8" (.125)
L	1/4" (.250)
H	3/8" (.375)
XH	1" (1.000)
XXH	1" (1.000)
2mm GT	3mm (.118)
3mm	3mm (.118)
5mm	6mm (.236)
8mm	12mm (.472)
14mm	30mm (1.181)
20mm HTD	40mm (1.574)

Pitch	Min. Recommended Belt Width	Min. Belt Width Physically Possible
MXL	Wire Not Available	Wire Not Available
XL	3/16" (.188)	3/16" (.188)
L	1/4" (.250)	6mm (.188)
H	3/8" (.375)	3/8" (.375)
XH	1" (1.000)	3/4" (.750)
XXH	1" (1.000)	3/4" (.750)
2mm	Wire Not Available	Wire Not Available
3mm	3/8" (.375)	3/8" (.375)
5mm	3/8" (.375)	3/8" (.375)
8mm	12mm (.472)	3/8" (.375)
14mm	30mm (1.181)	3/4" (.750)
20mm	40mm (1.574)	1" (1.000)

Anything less than stated "minimum recommended belt width" has too few cords to be stable in sprockets. Narrow belts can turn over in sprockets or offer inconsistent performance. Any exceptions to stated "minimum recommended belt width" needs Product Application approval.

#### ▶ **Transverse Tire Cord:**

Provides transverse rigidity to belts. Typically used in belts wider than 10" where extra rigidity is required such as long conveyor spans and heavily loaded conveyor designs.

NOTE: All cords not available in all constructions.

### Tensile Cord Options

#### ► Standard

Belts are normally produced with an “S” and “Z” twist cord construction (right and left hand) for neutral tracking. Neutral tracking does not mean belt will run in center of pulley/sprocket, but rather lessens side thrust.

#### ► “S” Twist (Right)

Designed for special tracking purposes so belt will ride to one side of the sprockets. Recommended choice for drive systems that only have flanges on one side of sprockets. Used in drives with vertical shafts or if belt needs to track in a specific direction.

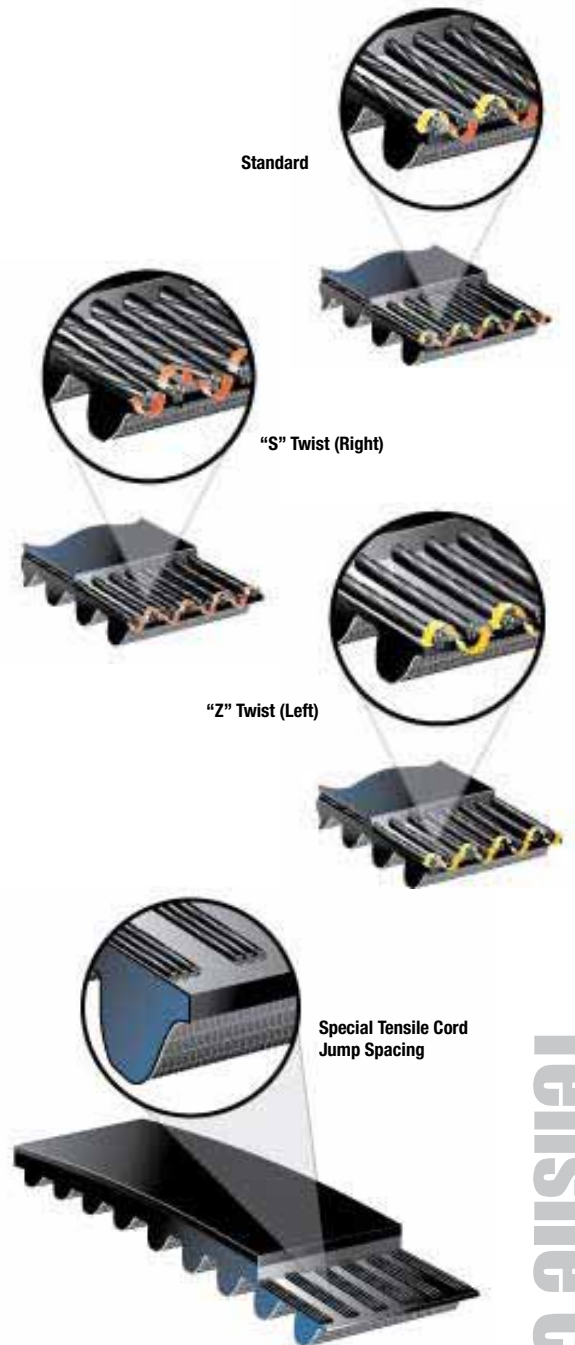
#### ► “Z” Twist (Left)

Designed for special tracking purposes so belt will ride to one side of the sprockets. Recommended choice for drive systems that only have flanges on one side of sprockets. Belts with “Z” twist cords will track in the opposite directions as those with “S” twist cords. Used in drives with vertical shafts or if belt needs to track in a specific direction.

#### ► Special Tensile Cord Jump Spacing

Best for special functional belt applications where features or holes are being added in secondary operations, such as product positioning or vacuum belts. Less tensile members also increase belt flexibility, but at the cost of tensile strength.

- Standard ◀
- “S” Twist ◀
- “Z” Twist ◀
- Special Tensile Cord Jump Spacing ◀



## Special Application Belts

### ▶ Extra Backing



#### General Guidelines

Length (in.)	Maximum Extra Backing (in.)
Under 8	Not Available
8 -12	1/8
12 -22	1/4
22 -41	3/8
41 - 181	1/2
Over 181	Not Available

### Extra Backing Options

- ▶ Special compounds can be added to the back of belts for special frictional, non-marking or wear-resistant requirements.

#### Exceptions to General Guidelines Where Tooling is Available

Length (in.)	Pitch	Max. Extra Backing (in.)
66"	H (.500 in.)	1.000
70"	H (.500 in.)	0.375
75"	H (.500 in.)	0.250
75"	H (.500 in.)	0.250
75"	H (.500 in.)	1.000
125"	H (.500 in.)	0.282
63"	H (.500 in.)	1.000

Length (in.)	Pitch	Max. Extra Backing (in.)
63"	H (.500 in.)	1.000
80"	H (.500 in.)	0.375
100"	H (.500 in.)	0.250
170"	H (.500 in.)	0.250
170"	H (.500 in.)	1.000
1,778mm	H (.500 in.)	0.282
2,500mm	H (.500 in.)	1.000

Special tooling required for extra backing over 1/2" (other than those listed). Contact Customer Service with inquiry.

#### Extra Backing Not Available in the Following:

Pitch Length in. (mm)	Pitch
6.260 (159)	3m PGGT2
9.163 (233)	.187 Timing
5.079 (129)	3m HTD
6.496 (165)	3m HTD
6.614 (168)	3m HTD
8.268 (210)	3m HTD
4.560 (116)	MXL Timing
7.200 (183)	MXL Timing
7.440 (189)	MXL Timing
17.200 (437)	MXL Timing
7.344 (187)	.0816 Timing
62.362 (1,584)	8m PGGT2
69.291 (1,760)	8m PGGT2
70.866 (1,800)	8m PGGT2
78.740 (2,000)	8m PGGT2
38.031 (966)	14m PGGT2
46.850 (1,190)	14m PGGT2
55.118 (1,400)	14m PGGT2
63.386 (1,610)	14m PGGT2

Pitch Length in. (mm)	Pitch
70.000 (1,778)	14m PGGT2
74.490 (1,890)	14m PGGT2
82.677 (2,100)	14m PGGT2
90.945 (2,310)	14m PGGT2
96.457 (2,450)	14m PGGT2
101.969 (2,590)	14m PGGT2
110.236 (2,800)	14m PGGT2
124.016 (3,150)	14m PGGT2
132.283 (3,360)	14m PGGT2
137.795 (3,500)	14m PGGT2
151.575 (3,850)	14m PGGT2
170.315 (4,326)	14m PGGT2
180.236 (4,578)	14m PGGT2
195.118 (4,956)	14m PGGT2
209.449 (5,320)	14m PGGT2
225.984 (5,740)	14m PGGT2
242.520 (6,160)	14m PGGT2
270.079 (6,860)	14m PGGT2

Note: In some cases, a new mold specifically designed for desired thickness can be purchased. Contact Customer Service with inquiry.



### Micro-V® Backing Options

- ▶ Micro-V® profiles can be provided as backing for synchronous belts. Used in synchronous applications that require synchronization on one shaft and have the ability to run a pulley off the back of the belt, as in flour mill applications and vacuum cleaners.

Available as a made-to-order product in “H”, “J” and “K” sections only, 30” to 120” in length and in 3” or less in width. Minimum order quantities and tooling may be required.

Note: Contact Product Application with inquiries.



## Special Application Belts

- ▶ Black Non-Marking Duro 51
- ▶ Yellowish-Tan Non-Marking Duro 52
- ▶ Gray Non-Marking Duro 59
- ▶ Gray Non-Marking Duro 75

Black Non-Marking Duro 51



Yellowish-Tan Non-Marking Duro 52



Gray Non-Marking Duro 59 or 75

Note: Duro 75 available in MXL pitch only.



NOTE: Colors may vary in production.

### Non-Marking Options

- ▶ For non-marking applications that require a low durometer backing. Non-marking belts do not produce any noticeable marking on objects that the belt contacts. Used in belt drive systems such as paper transport, letter sorting, surface or color-sensitive products or conveyors.

**Note:** *Compounds with higher durometer numbers have a greater hardness and are generally less aggressive in their frictional characteristics.*

### Low Durometer Options

- For applications requiring a low durometer backing. Low durometer materials generally have higher coefficient of friction than higher durometer materials. Ideal for applications that must convey materials up inclines, transfer fragile parts, bottlers or cappers.

- Tan Duro 31 (Non-Marking) ◀
- Black Duro 34 ◀
- \*Black Duro 35 ◀
- Black Duro 57 ◀
- Brick Red Duro 45 ◀



**Tan Duro 31 (Non-Marking)**



**Black Duro 34**  
**\*Black Duro 35**  
**Black Duro 57**

\*Minimum order quantity equal to 300 lbs. of belts.

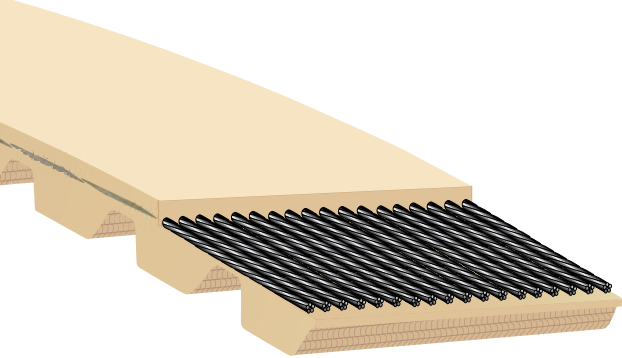


**Brick Red Duro 45**

**NOTE:** Colors may vary in production.

## ▶ Special Application Belts

### ▶ Clean Running

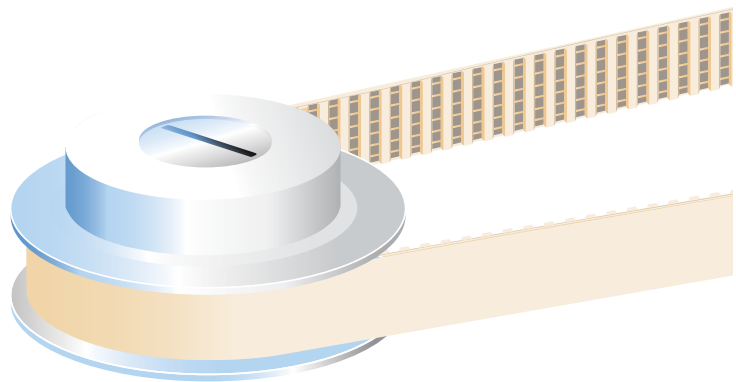


### Clean Running Options

- ▶ The TruMotion® belt construction utilizes a clean white polymer and a polymer free nylon tooth surface, resulting in minimal dusting. This makes it ideal for many applications including data storage equipment, printers, plotters, medical equipment, food processors, money handling, copiers and other office equipment.

The new PowerGrip® TruMotion belts are available in all of Gates light duty synchronous pitches.

- PowerGrip GT® TruMotion Belts: 2MR, 3MR and 5MR.
- PowerGrip HTD® TruMotion Belts: 3M and 5M.
- PowerGrip Timing TruMotion Belts: MXL, XL and L.



**NOTE:** PowerGrip HTD TruMotion Belts are made to order. Please contact customer service for price and availability.

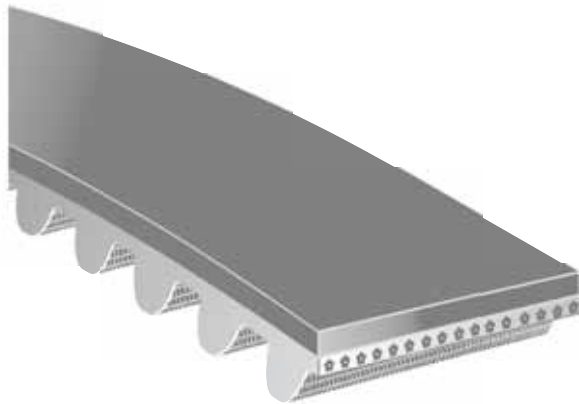
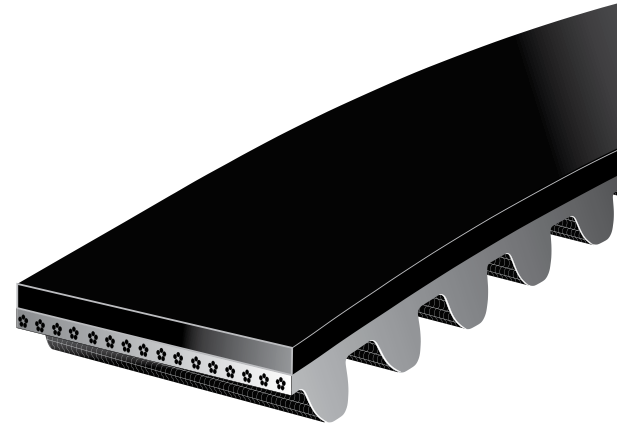
**NOTE:** Colors may vary in production.

### Oil-Resistant Options

#### ► Oil-Resistant Black Duro 70

For applications requiring improved oil resistance. Made with Nitrile rubber, this belt offers increased oil resistance over standard belts. For use in belt drive systems in environments with oil mist or oil contact such as machine tools.

**NOTE:** Poly Chain® GT® Carbon™ hot oil construction available for specific OEM/high volume applications. Contact Product Application at [PTPASupport@gates.com](mailto:PTPASupport@gates.com) with inquiries.

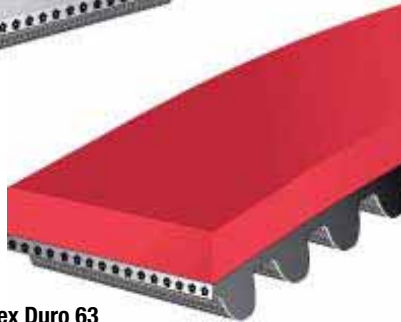


## Special Application Belts

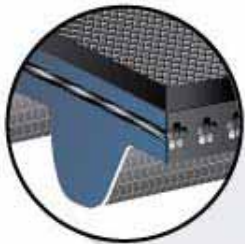
- ▶ Gray Wear-Resistant Duro 50
- ▶ Red Ozex Duro 63
- ▶ Nylon Backing



Gray wear-resistant Duro 50



Red Ozex Duro 63  
(Exceptional wear-resistance)



Nylon Backing



NOTE: Colors may vary in production.

### Wear-Resistant Options

- ▶ For applications requiring increased wear resistance over standard rubber belts. Ideal for applications requiring a low durometer for friction in highly-abrasive environments such as wire drawing and wood, glass and aluminum conveyors.

### Nylon Backing

- ▶ For applications requiring increased wear resistance over standard rubber belts. Ideal for applications requiring a low durometer for friction in highly-abrasive environments such as wire drawing and wood, glass and aluminum conveyors.

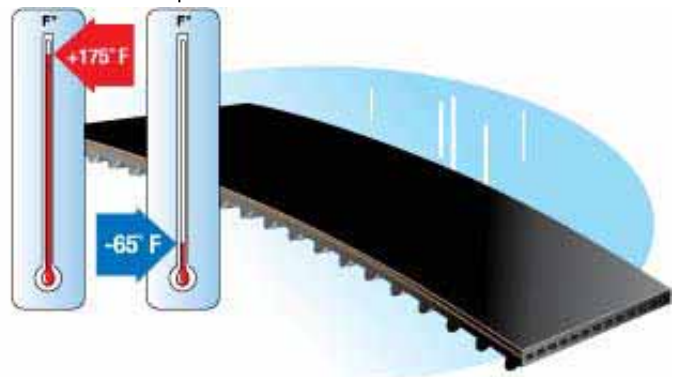
**Variable Temperature Options**

► For use in applications where the operating temperature will be outside the range of standard rubber belts. Belt performance is generally unaffected in ambient temperature environments between -30°F and 185°F. Applications beyond these limits should be reviewed by Gates Product Application.

- Low Temp (-65°F to + 175°F) Small Pitch Duro 50 ◀
- Low Temp (-65°F to + 175°F) Large Pitch Duro 72 ◀
- High Temp (-30°F to + 225°F) Duro 68 ◀

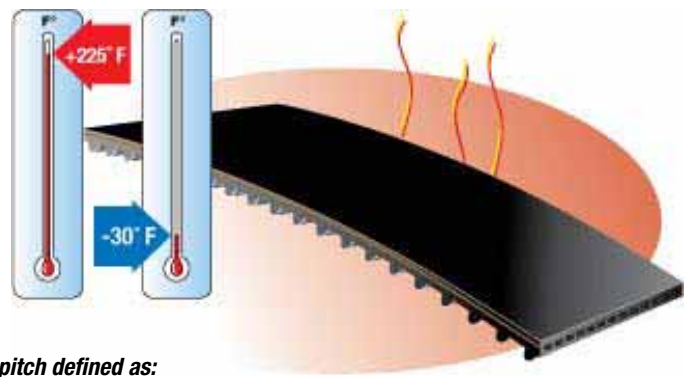
**Low Temp (-65 F to + 175 F)  
Small Pitch Duro 50  
Large Pitch Duro 72**

Ideal for belt drive systems in arctic or freezer environments.



**High-Temp (30 F to +225 F)  
Small & Large Pitch Duro 68**

For use in hot rooms or applications with high environmental temperatures and limited ventilation such as engine compartments, kilns or fans for ovens.



*Small pitch defined as:  
MXL, XL, L, H, 2mm, 3mm, 5mm.*

*Large pitch defined as:  
XH, XXH, 8mm, 14mm, 20mm.*

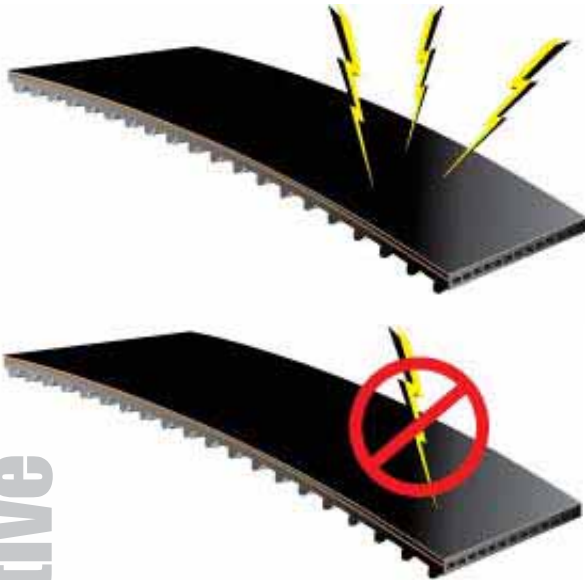
**NOTE:** Poly Chain® GT® Carbon™ High Temperature construction available for specific OEM/high volume applications. Contact Product Application at [ptpasupport@gates.com](mailto:ptpasupport@gates.com) with inquiries.

Low & High Temp



## Special Application Belts

- ▶ Black Conductive Small Pitch Duro 70
- ▶ Black Conductive Large Pitch Duro 80
- ▶ Black Non-Conductive Duro 74\*



### Conductive /Non-Conductive Options

#### ▶ Conductive Small Pitch Black Duro 70 and Conductive Large Pitch Black Duro 80

For use in applications requiring a conductive (anti-static) rubber synchronous belt, or areas where a static charge buildup must be minimized such as clean rooms, microchip manufacturing and conveyors, or flammable or explosive environments.

#### ▶ Non-Conductive Small & Large Pitch Duro 74\*

For use in applications requiring a non-conductive (insulating) rubber synchronous belt. Used in belt drive systems with electrical isolation requirements, for example double-insulated tools or home appliances.

##### **Small pitch defined as:**

*MXL, XL, L, H, 2mm, 3mm, 5mm.*

*Resistance no greater than 300,000 ohms.*

##### **Large pitch defined as:**

*XH, XXH, 8mm, 14mm, 20mm.*

*Resistance no greater than 6,000,000 ohms.*

*Refer to the Rubber Manufacturer's Association (RMA) Bulletin IP 3-3 for static conductivity.*

#### **Static Conductive Belts**

Static discharge can pose a hazard on belt drives that operate in potentially explosive environments. Static discharge can also interfere with radios, electronic instruments or controls used in a facility. (Note: A static conductive belt will not prevent this.) Static conductivity is a required belt characteristic in these cases in order to prevent static discharge.

The Rubber Manufacturer's Association (RMA) has published Bulletin IP 3-3 for static conductivity. Static conductivity testing involves using an ohmmeter to pass an electrical current with a nominal open circuit 500 volt potential through a belt. The test should be performed with the belt off the drive. The belt's resistance is measured by placing electrodes 8.5 inches apart on the clean driving surface of the belt. A resistance reading of six (6) megohms or more constitutes a test failure. Belts that measure a resistance of six megohms or more are considered to be non-conductive. Belts that measure a resistance of less than six megohms are considered to be static conductive. A static-conductive belt with a resistance of six megohms or less has sufficient conductivity to prevent measurable static voltage buildup, thus preventing a static discharge.

PowerGrip® Timing, PowerGrip® GT®2, Poly Chain GT®, Poly Chain GT®2 and Poly Chain® GT® Carbon™ belts do not meet the static conductivity requirements specified in RMA Bulletin IP 3-3, and are not considered to be static conductive. PowerGrip® GT®2 and PowerGrip® Timing belts can be manufactured in a static-conductive construction on a made-to-order basis.

When a belt is used in a hazardous environment, additional protection must be employed to ensure that there are no accidental static spark discharges. The portion of the belt that contacts the sprocket must be conductive to ensure the static charge is conducted into the belt drive hardware. Synchronous belts must have a static-conductive tooth surface in contact with conductive sprockets, and a conductive path to ground.

Unusual or excessive debris or contamination on the belt contact surface or sprocket grooves should be cleaned and removed. If there is any question about the belt's physical condition or its static conductivity characteristics, replace the belt. Any belt drive system that operates in a potentially hazardous environment must be properly grounded. A continuous conductive path to ground is necessary to bleed off the static charge. This path includes a static-conductive belt, a conductive sheave or sprocket, a conductive bushing, a conductive shaft, conductive bearings and the ground. As an additional measure of protection, a static-conductive brush or similar device should be employed to bleed off any residual static buildup that might remain around the drive. Refer to the Gates Belt Drive Preventive Maintenance & Safety Manual (form no. 14995).

**\*Gates Product Application approval required.**





### FDA Construction Options

- For use in applications where a food-grade belt construction is required. Belts are a yellowish-tan, non-marking Duro 52 with a special non-coated jacket. Ideal for food conveying, washdown applications and anti-bacterial conveyors.

#### Note: FDA Materials

Gates synchronous belts have been used extensively throughout the food and beverage industry in applications where the belts do not directly contact food.

While the FDA does not either approve or disapprove of the use of belts in food-related applications, they have identified certain materials or ingredients that have been approved. Gates special yellow rubber compound specifically meets those FDA requirements regarding materials and ingredients.

The USDA will evaluate and approve belts on an individual basis if submitted to them. Gates has not requested any USDA approvals. If the USDA belt approval is required, then the belt user should submit specific belt samples directly to the USDA.

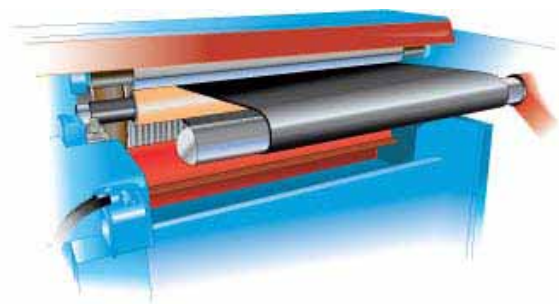
Any further belt application related questions may be directed to Gates Product Application at [ptpasupport@gates.com](mailto:ptpasupport@gates.com).



NOTE: Colors may vary in production.

## Special Application Belts

### Grinding Options



Precision Grinding Process

### Grinding Options

- ▶ For special applications involving a critical overall belt thickness dimension such as belt clamping or when the belt operates with little clearance. Also used in applications where backside idlers are in use, or to reduce vibrations.

All belt constructions (except nylon backings) are available with the following finish grind tolerances:

#### Class 1:

Nominal Thickness +/- 0.005"

#### Class 2:

Nominal Thickness +/- 0.010"

#### Class 3:

Nominal Thickness +/- 0.025" Unground

Nominal Thickness +/- 0.015"

Belt Pitch	Nominal Thickness (in)	Class 1 +0.005"	Class 2 +0.010"	Class 3 +0.025"	Unground +0.015"
0.080 MXL	0.045	X	X*		X**
0.200 XL	0.090 (1)	X	X*		X**
0.375 L	0.135	X	X*		
0.500 H	0.155 (2)	X	X*		
0.875 XH	0.450		X	X*	
1.250 XXH	0.600		X	X*	
3mm HTD	0.095	X	X*		X**
5mm HTD	0.150	X	X*		X**
8mm HTD	0.236	X	X*		
14mm HTD	0.394 (3)		X	X*	
20mm HTD	0.520 (4)		X	X*	
2mm GT2	0.060	X	X*		X**
3mm GT2	0.095	X	X*		X**
5mm GT2	0.150	X	X*		X**
8mm GT2	0.220	X	X*		
14mm GT2	0.390		X	X*	

\*Standard ground tolerance.

\*\*Standard unground tolerance (all belts are ground if possible).

(1) Gray non-marking construction in XL pitch = 0.100 nominal overall thickness.

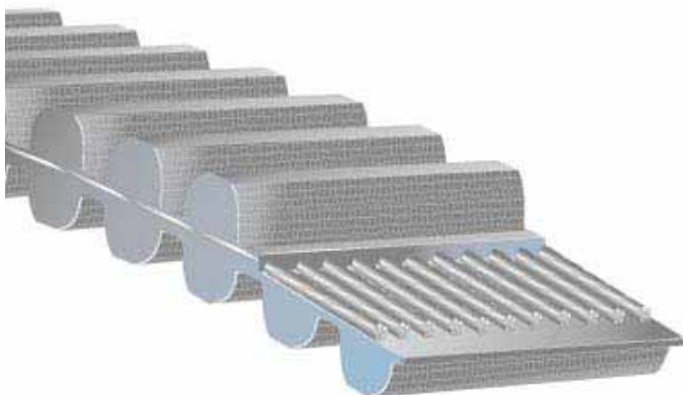
(2) Gray non-marking construction in H pitch = 0.165 nominal overall thickness.

(3) Steel cable construction in 14mm HTD = 0.450 nominal overall thickness.

(4) Steel cable construction in 20mm HTD = 0.580 nominal overall thickness.

- ▶ Gates Twin Power® Belts have teeth on both sides of the belt to accommodate unique synchronized drive layouts such as shaft rotation reversal and serpentine drives.\*

The materials used for the standard, single-sided PowerGrip® product lines are also used for Twin Power belts, including a wear-resistant nylon tooth facing on both sides of the belt and helically-wound fiberglass tensile members embedded in a neoprene body. Twin Power belts have the same load carrying capacity as their single sided equivalents and can transmit 100% of their maximum rated load capacity from either side of the belt.



\*See Design IQ page 24.





# Twin Power® Belts

- ▶ Available Constructions
- ▶ Size Limitations



PowerGrip® GT2® Twin Power® Timing Belt



PowerGrip® HTD® Twin Power® Timing Belt



PowerGrip® Twin Power® Timing Belt

## ▶ Available Constructions

	PGGT2-2mm	PGGT2-3mm	PGGT2-5mm	PGGT2-8mm	PGGT2-14mm	HTD-3mm	HTD-5mm	HTD-8mm	HTD-14mm	HTD-20mm	Timing MXL	Timing XL	Timing L	Timing H	Timing XXH	Timing XXH
<b>Standard Construction</b>	⊘	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	⊘	⊘	Yes	Yes	Yes	⊘	⊘
<b>High Temp (-30° to +225°F) Duro 68</b>	⊘	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	⊘	⊘	Yes	Yes	Yes	⊘	⊘
<b>Special Tensile Cord Jump Spacing</b>	⊘	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	⊘	⊘	Yes	Yes	Yes	⊘	⊘
<b>"S" Twist</b>	⊘	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	⊘	⊘	Yes	Yes	Yes	⊘	⊘
<b>"Z" Twist</b>	⊘	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	⊘	⊘	Yes	Yes	Yes	⊘	⊘
<b>Oil Resistant</b>	⊘	Yes	Yes	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘

Note: Twin Power® belts are not available in other constructions including KEVLAR® or steel. ⊘ = Tooling or construction not available.

## ▶ Size Limitations

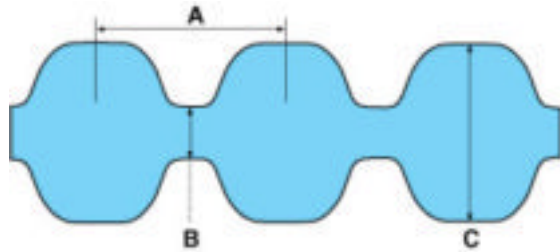
Pitch	Min. Pitch Length	Min. No. Teeth	Max. Pitch Length	Max. No. Teeth	Max. Width
XL (.200")	12.4"	62T	270"	1,350T	5.0"
L (.375")	15.0"	40T	270"	720T	5.0"
H (.500")	15.0"	30T	270"	540T	5.0"
3MM (HTD & GT2)	372mm	124T	6,858mm	2,286T	150mm
5MM (HTD & GT2)	385mm	77T	6,858mm	1,370T	150mm
8MM (HTD & GT2)	558mm	69T	6,858mm	857T	150mm
14MM (HTD & GT2)	953mm	68T	6,858mm	490T	170mm

There are no minimum order quantities for any Twin Power® belts of standard width/length and construction (standard width/length and construction is defined by standard single-sided cataloged belt widths and lengths, or cataloged Twin Power® belts). Any deviation in construction from standard neoprene with fiberglass tensile cord is made-to-order with required lead time and minimum order quantity.

Available Constructions



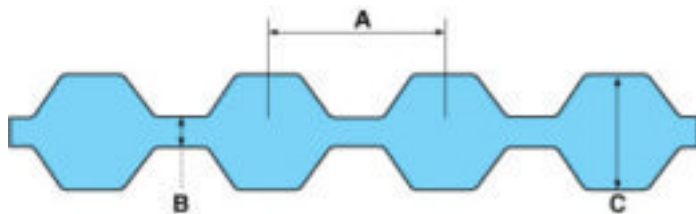
► PowerGrip® HTD® and PowerGrip® GT®2 Tooth Profile



A B C

Belt Type	Pitch		Web Thickness		Overall Height	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
3mm HTD	0.118	3	0.030	0.76	0.126	3.2
5mm HTD	0.196	5	0.045	1.14	0.209	5.3
3mm PGGT2	0.118	3	0.030	0.76	0.126	3.2
5mm PGGT2	0.196	5	0.045	1.14	0.209	5.3
8mm PGGT2	0.315	8	0.054	1.37	0.332	8.2
14mm PGGT2	0.552	14	0.110	2.80	0.590	15.0

► PowerGrip® Timing Tooth Profile



A B C

Belt Type	Pitch		Web Thickness		Overall Height	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
XL	0.200	5.08	0.020	0.51	0.118	3.1
L	0.375	9.53	0.030	0.76	0.181	4.6
H	0.500	12.70	0.054	1.37	0.234	5.9



TP Belt Dimensions



# Twin Power® Belts

## Standard Size Listings

### 3mm Pitch - PGGT2 Widths (mm) 6, 9, 15

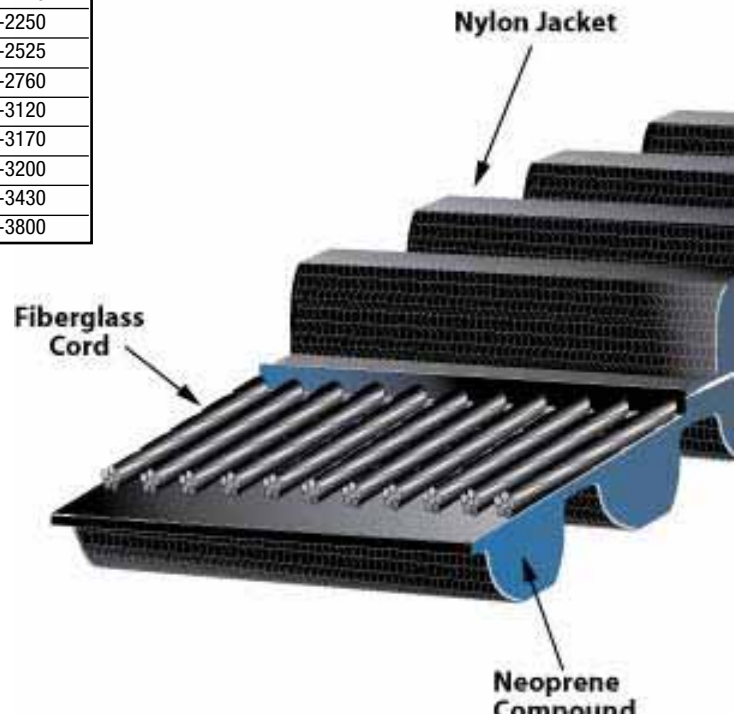
Part No.	
TP3MR-381	TP3MR-657
TP3MR-393	TP3MR-663
TP3MR-396	TP3MR-669
TP3MR-399	TP3MR-684
TP3MR-405	TP3MR-687
TP3MR-411	TP3MR-696
TP3MR-420	TP3MR-711
TP3MR-426	TP3MR-735
TP3MR-432	TP3MR-738
TP3MR-435	TP3MR-750
TP3MR-447	TP3MR-753
TP3MR-465	TP3MR-786
TP3MR-468	TP3MR-795
TP3MR-471	TP3MR-822
TP3MR-474	TP3MR-837
TP3MR-480	TP3MR-840
TP3MR-486	TP3MR-843
TP3MR-489	TP3MR-873
TP3MR-492	TP3MR-882
TP3MR-501	TP3MR-891
TP3MR-510	TP3MR-900
TP3MR-513	TP3MR-915
TP3MR-519	TP3MR-945
TP3MR-525	TP3MR-951
TP3MR-528	TP3MR-981
TP3MR-531	TP3MR-1002
TP3MR-537	TP3MR-1026
TP3MR-552	TP3MR-1035
TP3MR-558	TP3MR-1056
TP3MR-564	TP3MR-1062
TP3MR-570	TP3MR-1062
TP3MR-576	TP3MR-1080
TP3MR-585	TP3MR-1125
TP3MR-591	TP3MR-1155
TP3MR-597	TP3MR-1191
TP3MR-600	TP3MR-1263
TP3MR-606	TP3MR-1335
TP3MR-609	TP3MR-1500
TP3MR-612	TP3MR-1512
TP3MR-627	TP3MR-1536
TP3MR-633	TP3MR-1587
TP3MR-639	TP3MR-1956
TP3MR-645	TP3MR-2004
TP3MR-648	TP3MR-2061
TP3MR-654	

### 5mm Pitch - PGGT2 Widths (mm) 9, 15, 25

Part No.	
TP5MR-400	TP5MR-1050
TP5MR-425	TP5MR-1115
TP5MR-450	TP5MR-1125
TP5MR-500	TP5MR-1150
TP5MR-535	TP5MR-1195
TP5MR-565	TP5MR-1250
TP5MR-575	TP5MR-1270
TP5MR-580	TP5MR-1295
TP5MR-600	TP5MR-1300
TP5MR-625	TP5MR-1375
TP5MR-650	TP5MR-1420
TP5MR-700	TP5MR-1450
TP5MR-710	TP5MR-1575
TP5MR-740	TP5MR-1595
TP5MR-745	TP5MR-1635
TP5MR-750	TP5MR-1690
TP5MR-765	TP5MR-1790
TP5MR-790	TP5MR-1800
TP5MR-800	TP5MR-1895
TP5MR-815	TP5MR-1945
TP5MR-830	TP5MR-1980
TP5MR-835	TP5MR-2000
TP5MR-850	TP5MR-2110
TP5MR-870	TP5MR-2250
TP5MR-890	TP5MR-2525
TP5MR-900	TP5MR-2760
TP5MR-925	TP5MR-3120
TP5MR-950	TP5MR-3170
TP5MR-975	TP5MR-3200
TP5MR-985	TP5MR-3430
TP5MR-1000	TP5MR-3800

### 8mm Pitch - PGGT2 Widths (mm) 20, 30, 50, 85

Part No.	
TP560-8MGT	TP1280-8MGT
TP600-8MGT	TP1440-8MGT
TP640-8MGT	TP1512-8MGT
TP720-8MGT	TP1600-8MGT
TP800-8MGT	TP1760-8MGT
TP840-8MGT	TP1800-8MGT
TP880-8MGT	TP2000-8MGT
TP920-8MGT	TP2200-8MGT
TP960-8MGT	TP2400-8MGT
TP1040-8MGT	TP2600-8MGT
TP1064-8MGT	TP2800-8MGT
TP1120-8MGT	TP3048-8MGT
TP1160-8MGT	TP3280-8MGT
TP1200-8MGT	TP3600-8MGT
TP1224-8MGT	TP4400-8MGT



TP Standard Size Listings



**14mm Pitch - PGGT2**  
Widths (mm) 40, 55, 85, 115, 170

Part No.	
TP966-14MGT	TP3150-14MGT
TP1190-14MGT	TP3360-14MGT
TP1400-14MGT	TP3500-14MGT
TP1610-14MGT	TP3850-14MGT
TP1778-14MGT	TP4326-14MGT
TP1890-14MGT	TP4578-14MGT
TP2100-14MGT	TP4956-14MGT
TP2310-14MGT	TP5320-14MGT
TP2450-14MGT	TP5740-14MGT
TP2590-14MGT	TP6160-14MGT
TP2800-14MGT	TP6860-14MGT

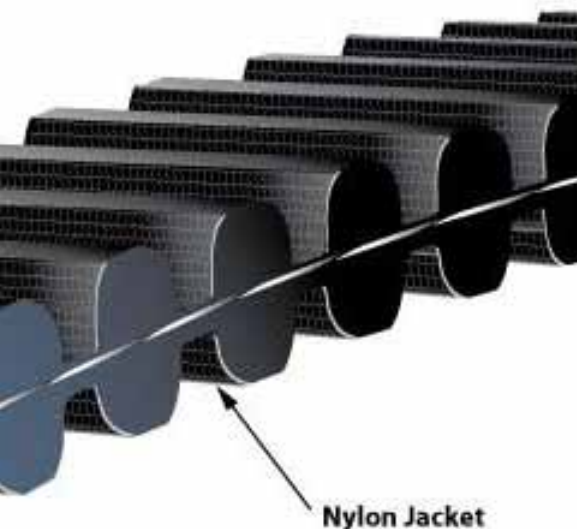
Lengths of 4956 through 6860 available in 40, 55, 85 only as stock line product.

**3mm Pitch - HTD**  
Widths (mm) 6, 9, 15

Part No.	
TP381-3M	TP639-3M
TP390-3M	TP645-3M
TP396-3M	TP648-3M
TP399-3M	TP654-3M
TP405-3M	TP657-3M
TP411-3M	TP663-3M
TP417-3M	TP669-3M
TP420-3M	TP684-3M
TP426-3M	TP687-3M
TP432-3M	TP696-3M
TP435-3M	TP711-3M
TP438-3M	TP735-3M
TP447-3M	TP738-3M
TP468-3M	TP753-3M
TP471-3M	TP795-3M
TP474-3M	TP822-3M
TP480-3M	TP837-3M
TP486-3M	TP843-3M
TP489-3M	TP873-3M
TP492-3M	TP882-3M
TP501-3M	TP891-3M
TP510-3M	TP900-3M
TP513-3M	TP915-3M
TP525-3M	TP945-3M
TP528-3M	TP951-3M
TP531-3M	TP981-3M
TP537-3M	TP1002-3M
TP558-3M	TP1026-3M
TP564-3M	TP1035-3M
TP570-3M	TP1062-3M
TP576-3M	TP1125-3M
TP585-3M	TP1155-3M
TP591-3M	TP1191-3M
TP597-3M	TP1263-3M
TP600-3M	TP1500-3M
TP606-3M	TP1512-3M
TP609-3M	TP1587-3M
TP612-3M	TP1956-3M
TP627-3M	TP2004-3M
TP633-3M	

**3mm Pitch - HTD**  
Widths (mm) 9, 15, 25

Part No.	
TP400-5M	TP890-5M
TP415-5M	TP925-5M
TP425-5M	TP950-5M
TP450-5M	TP975-5M
TP460-5M	TP985-5M
TP475-5M	TP1000-5M
TP480-5M	TP1050-5M
TP495-5M	TP1115-5M
TP500-5M	TP1125-5M
TP520-5M	TP1195-5M
TP535-5M	TP1250-5M
TP555-5M	TP1270-5M
TP565-5M	TP1295-5M
TP580-5M	TP1375-5M
TP585-5M	TP1420-5M
TP600-5M	TP1575-5M
TP615-5M	TP1595-5M
TP635-5M	TP1635-5M
TP655-5M	TP1690-5M
TP665-5M	TP1790-5M
TP670-5M	TP1800-5M
TP680-5M	TP1895-5M
TP685-5M	TP1945-5M
TP695-5M	TP1980-5M
TP710-5M	TP2000-5M
TP740-5M	TP2110-5M
TP745-5M	TP2250-5M
TP765-5M	TP2525-5M
TP790-5M	TP2760-5M
TP800-5M	TP3120-5M
TP830-5M	TP3170-5M
TP835-5M	TP3430-5M
TP850-5M	TP3800-5M
TP870-5M	





# Twin Power® Belts

## ► Standard Size Listings (cont'd)

### 1/5" Pitch - XL .200" Widths (in.) .25, .375

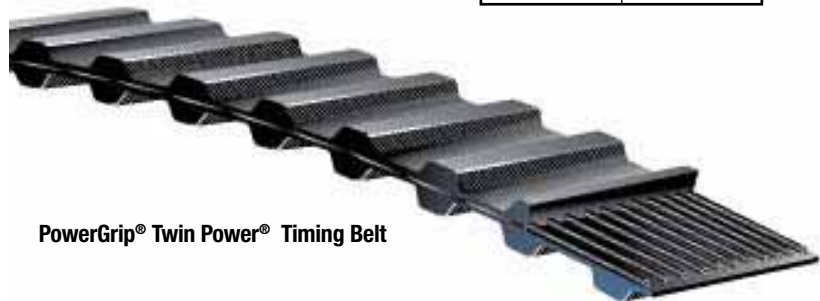
Part No.		
TP126XL	TP212XL	TP344XL
TP128XL	TP214XL	TP348XL
TP130XL	TP218XL	TP350XL
TP132XL	TP220XL	TP352XL
TP134XL	TP222XL	TP362XL
TP136XL	TP226XL	TP370XL
TP138XL	TP228XL	TP380XL
TP140XL	TP230XL	TP384XL
TP142XL	TP232XL	TP390XL
TP144XL	TP234XL	TP400XL
TP146XL	TP236XL	TP412XL
TP148XL	TP240XL	TP420XL
TP150XL	TP244XL	TP424XL
TP152XL	TP246XL	TP432XL
TP156XL	TP250XL	TP438XL
TP158XL	TP254XL	TP444XL
TP160XL	TP258XL	TP450XL
TP162XL	TP260XL	TP454XL
TP166XL	TP262XL	TP460XL
TP168XL	TP264XL	TP468XL
TP170XL	TP266XL	TP480XL
TP172XL	TP268XL	TP492XL
TP174XL	TP270XL	TP498XL
TP176XL	TP274XL	TP500XL
TP178XL	TP280XL	TP506XL
TP180XL	TP286XL	TP524XL
TP182XL	TP290XL	TP570XL
TP184XL	TP296XL	TP580XL
TP186XL	TP300XL	TP592XL
TP188XL	TP306XL	TP612XL
TP190XL	TP310XL	TP630XL
TP192XL	TP316XL	TP672XL
TP200XL	TP320XL	TP690XL
TP202XL	TP322XL	TP770XL
TP204XL	TP330XL	TP850XL
TP206XL	TP338XL	
TP210XL	TP340XL	

### 1/5" Pitch - L .375" Widths (in.) .50, .75, 1.0

Part No.	
TP150L	TP315L
TP154L	TP322L
TP158L	TP345L
TP165L	TP367L
TP173L	TP375L
TP176L	TP390L
TP187L	TP420L
TP195L	TP446L
TP199L	TP450L
TP210L	TP480L
TP218L	TP510L
TP225L	TP540L
TP240L	TP566L
TP248L	TP600L
TP255L	TP660L
TP263L	TP720L
TP270L	TP817L
TP285L	TP900L
TP300L	TP945L

### 1/2" Pitch - H .500" Widths (in.) .75, 1.0, 1.5, 2.0, 3.0

Part No.	
TP210H	TP570H
TP220H	TP585H
TP225H	TP600H
TP230H	TP605H
TP240H	TP630H
TP270H	TP645H
TP300H	TP655H
TP310H	TP660H
TP315H	TP700H
TP320H	TP730H
TP330H	TP750H
TP340H	TP775H
TP350H	TP780H
TP360H	TP800H
TP370H	TP820H
TP390H	TP840H
TP400H	TP850H
TP410H	TP900H
TP415H	TP960H
TP420H	TP1000H
TP445H	TP1100H
TP450H	TP1140H
TP455H	TP1180H
TP465H	TP1250H
TP480H	TP1400H
TP490H	TP1510H
TP495H	TP1550H
TP510H	TP1645H
TP525H	TP1680H
TP540H	TP1700H
TP555H	TP2120H
TP560H	TP2330H



PowerGrip® Twin Power® Timing Belt

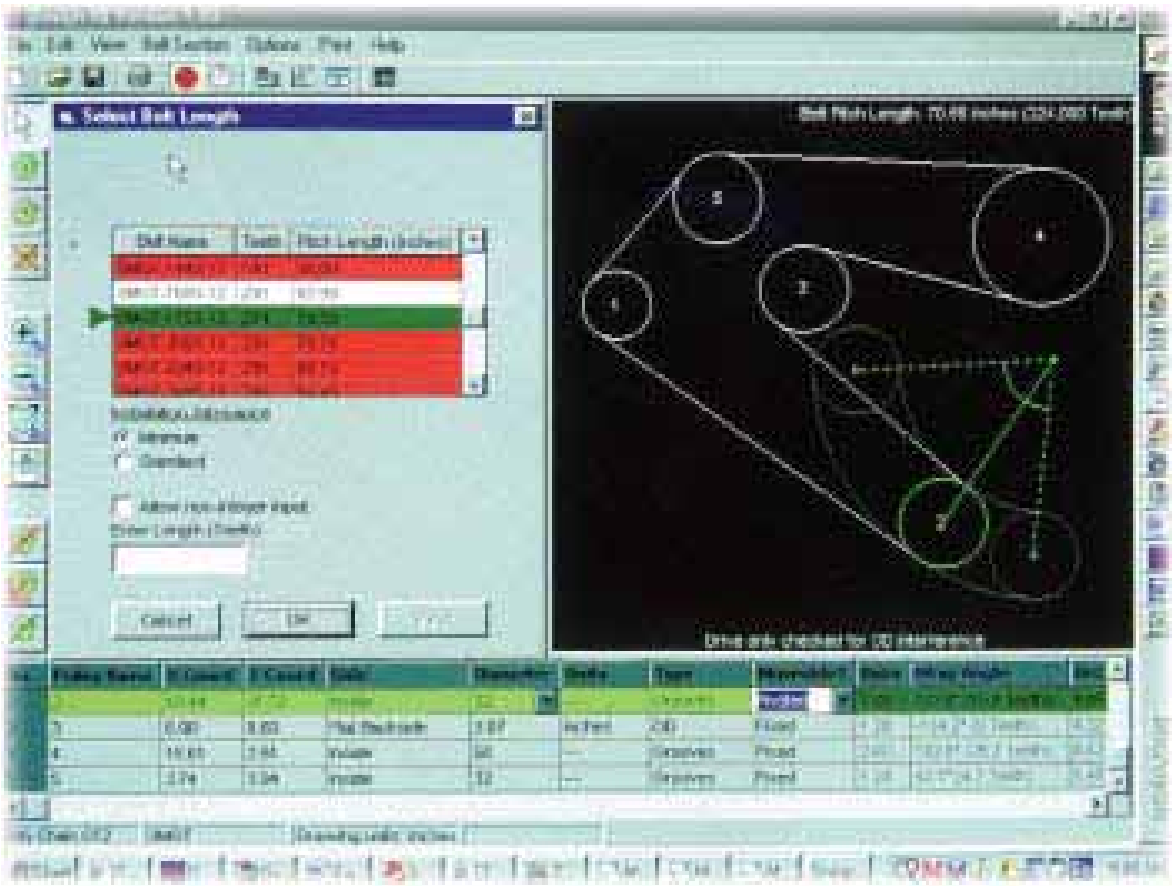
TP Standard Size Listings





**Design IQ™ Program**

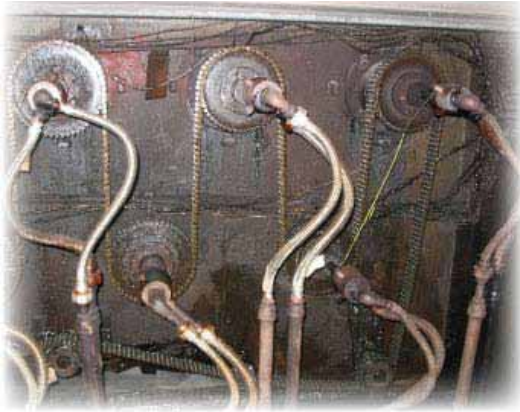
- ▶ This special design program provides comprehensive design of multi-point serpentine drives, including changing load conditions and idler positioning. This is a great time-saving tool exclusive to Gates and available at [www.gates.com/drivedesign](http://www.gates.com/drivedesign). Contact your Gates representative for more information.





## Twin Power® Belts

### ► Before and After



#### **Before: Roller chain**

- This photograph depicts the use of a roller chain drive utilizing automatic lubrication hoses that not only contaminates the product, but creates downtime, increases maintenance and noise. What a mess!



#### **After: PowerGrip® GT®2 Twin Power**

- Replacing the old roller chain technology with a Gates Twin Power® PowerGrip® GT®2 belt drive system eliminates maintenance, product contamination, hoses, lubrication, excessive noise and costly downtime.

TP Before and After



### Long-Length Belting

- ▶ Long-Length synchronous belting is a cost-effective, efficient and low-maintenance alternative to flat belts and roller chain. Open-end synchronous belting is especially suited for linear movements (automated doors, automated warehouse conveyors and elevators), accurate positioning (machine tools, and x-y coordinate machines), and reversal drives (computers, printers and office equipment). Gates Long-Length belting is a technically sophisticated, compact, economical option for modern linear drives.

Note: Contact Product Application at [ptpasupport@gates.com](mailto:ptpasupport@gates.com) for tensile strength.



## ▶ Long-Length Belting

### ▶ Poly Chain® GT® Carbon™



### Poly Chain® GT® Carbon™ Long-Length Belting

- ▶ Poly Chain® GT® Carbon™ Long-Length belting has a patented tooth profile with a lightweight polyurethane compound specially blended for adhesion to the cords and fabric. It resists most oils, chemicals, pollutants, corrosion and abrasion, and is fully operational under extreme temperatures (-65° F to + 185° F). The robust carbon tensile cord combines minimal stretch with extraordinary strength and load carrying capacity! The flex-fatigue life is exceptional, and the high-impact strength withstands shock and surge loading. Abrasion-resistant nylon fabric facing decreases friction with the sprocket, thus reducing noise and heat buildup.

#### General Guidelines

Pitch	Min. Width (mm)	Max. Width (mm)	Standard Widths (mm)
LL8MGT	12	44	12, 21, 36
LL14MGT	20	42	20, 37

Minimum order quantity for standard widths is 98 ft.  
Minimum order quantities on non-standard widths, and maximum continuous lengths, vary by width. Please contact Customer Service for information.



**PowerGrip® GT®2 Long-Length Belting**

- ▶ PowerGrip® GT® 2 Long-Length belting has polychloroprene teeth that are precision molded and accurately spaced to ensure correct engagement with the sprocket grooves. Steel or fiberglass tensile members give enormous strength, flex life and elongation resistance. Durable and flexible backing protects the cords from environmental pollution and friction wear. Low friction nylon facing protects the tooth surface against wear.

**General Guidelines  
Fiberglass Cord**

Pitch	Min. Width (mm)	Max. Width (mm)	Standard Widths (mm)
LL2MR	4	25	4, 6, 9
LL3MR	6	25	6, 9, 12
LL5MR	9	25	9, 15, 25
LL8MR	12	25	20
LL8MR	12.7	228.6	30, 50, 85
LL14MR	N/A	N/A	N/A

Minimum order quantity for standard widths is 50 ft.  
Minimum order quantities on non-standard widths, and maximum continuous lengths, vary by width. Please contact Customer Service for information.

**General Guidelines  
Steel Cord**

Pitch	Min. Width (mm)	Max. Width (mm)	Standard Widths (mm)
LL5MRST*	5	150	15, 25
LL8MRST*	9	150	20, 30, 50

Minimum order quantity for standard widths is 98 ft.  
Minimum order quantities on non-standard widths, and maximum continuous lengths, vary by width. Please contact Customer Service for information.  
\*Produced in Aachen, Germany.

**KEVLAR® Cord**

Made to order.  
Contact Customer Service for information.  
Minimum order quantity and lead time may apply.  
\*Produced in Aachen, Germany.



LL PowerGrip® GT® 2



## ▶ Long-Length Belting

### ▶ PowerGrip® HTD®



### PowerGrip® HTD® Long-Length Belting

- ▶ The curvilinear tooth design of PowerGrip® HTD® Long-Length belting improves stress distribution and allows higher overall loading. Steel or fiberglass tensile members provide excellent flex life and high resistance to elongation. Precisely formed and accurately spaced polychloroprene teeth ensure smooth engagement with sprocket grooves. Tough nylon facing protects tooth surface.

#### General Guidelines Fiberglass Cord

Pitch	Min. Width (mm)	Max. Width (mm)	Standard Widths (mm)
LL3M	6	6, 9, 15	25
LL5M	6	9, 15, 25	25
LL8M	12	20	25
LL8M	12.7	30, 50, 85	228.6
*LL14M	20	40, 55, 85	150

Minimum order quantity for standard widths is 50 ft. Minimum order quantities on non-standard widths, and maximum continuous lengths, vary by width. Please contact Customer Service for information.

#### General Guidelines Steel Cord

Pitch	Min. Width (mm)	Max. Width (mm)	Standard Widths (mm)
LL14M ST*	20	150	40, 55, 85

Minimum order quantity for standard widths is 98 ft. Minimum order quantities on non-standard widths, and maximum continuous lengths, vary by width. Please contact Customer Service for information.  
\*Produced in Aachen, Germany.

#### KEVLAR® Cord

Made to order.  
Contact Customer Service for information.  
Minimum order quantity and lead time may apply.

LL PowerGrip® HTD®



**PowerGrip® Timing Long-Length Belting**

- Precisely formed and accurately spaced polychloroprene trapezoidal teeth ensure correct engagement with pulley grooves. Steel or fiberglass tensile members provide excellent flex life and high resistance to elongation. Nylon fabric cover protects the tooth surface.

**General Guidelines  
Fiberglass Cord**

Pitch	Min. Width (in.)	Max. Width (in.)	Standard Widths (in.)
LL MXL	3/16	1	1/4, 3/8, 1/2
LL XL	3/16	1	1/4, 3/8, 1/2
LL L	3/8	1	3/8, 1/2, 3/4, 1
LL H	3/8	1	1/2, 3/4, 1
LL L	3/8	6	1
LL H	3/8	9	1-1/2, 2, 3

Minimum order quantity for standard widths is 50 ft. Minimum order quantities on non-standard widths, and maximum continuous lengths, vary by width. Please contact Customer Service for information.

**General Guidelines  
Steel Cord**

Pitch	Min. Width (in.)	Max. Width (in.)	Standard Widths (in.)
LLHST*	3/8	5.905	3/4, 1

Minimum order quantity for standard widths is 98 ft. Minimum order quantities on non-standard widths, and maximum continuous lengths, vary by width. Please contact Customer Service for information.  
\*Produced in Aachen, Germany.

**KEVLAR® Cord**

Made to order. Contact Customer Service for information. Minimum order quantity and lead time may apply.



LL PowerGrip® Timing



**Long-Length Belting**

► **Maximum Continuous Lengths For Standard Widths**



**Poly Chain® GT® Carbon™**

Pitch (mm)	Width (mm)	Max. Cont. Length (ft)
8	12	900
8	21	504
8	36	285
14	20	522
14	37	298

**PowerGrip® GT®2**

Pitch (mm)	Width (mm)	Max. Cont. Length (ft)	
		Fiberglass	Steel
2	4	300	
2	6	300	
2	9	300	
3	6	600	
3	9	385	
3	15	240	
5	9	360	
5	15	230	392
5	25		392
8	20	300	392
8	30	300	392
8	50	300	392
8	85	300	

**PowerGrip® Timing**

Pitch (mm)	Width (mm)	Max. Cont. Length (ft)	
		Fiberglass	Steel
MXL	1/4	300	
MXL	3/8	300	
MXL	1/2	300	
XL	1/4	300	492
XL	3/8	225	492
XL	1/2	150	492
L	3/8	300	
L	1/2	300	492
L	3/4	300	492
L	1	300	
H	1/2	500	
H	3/4	500	492
H	1	500	492
H	1-1/2	500	
H	2	500	
H	3	500	

**PowerGrip® HTD®**

Pitch (mm)	Width (mm)	Max. Cont. Length (ft)	
		Fiberglass	Steel
3	6	300	
3	9	300	
3	15	185	
5	9	300	
5	15	185	
5	25	100	
8	20	300	
8	30	300	
8	50	300	
8	85	300	
14	40	392	392
14	55	392	392
14	85	392	392





## Long-Length Belting

- ▶ Long-Length Belting can be manufactured in different constructions for your Special Application needs.

**Note:** Special Constructions for Long-Length Belting not available in 14mm PowerGrip® GT®2 or 14mm PowerGrip® HTD®.

- ▶ **Gray Non-Marking Duro 57**

For non-marking applications that require a low durometer backing. Used in belt drive systems such as paper transport, letter sorting, surface or color sensitive products or conveyors.

- ▶ **Red Ozex Duro 63**

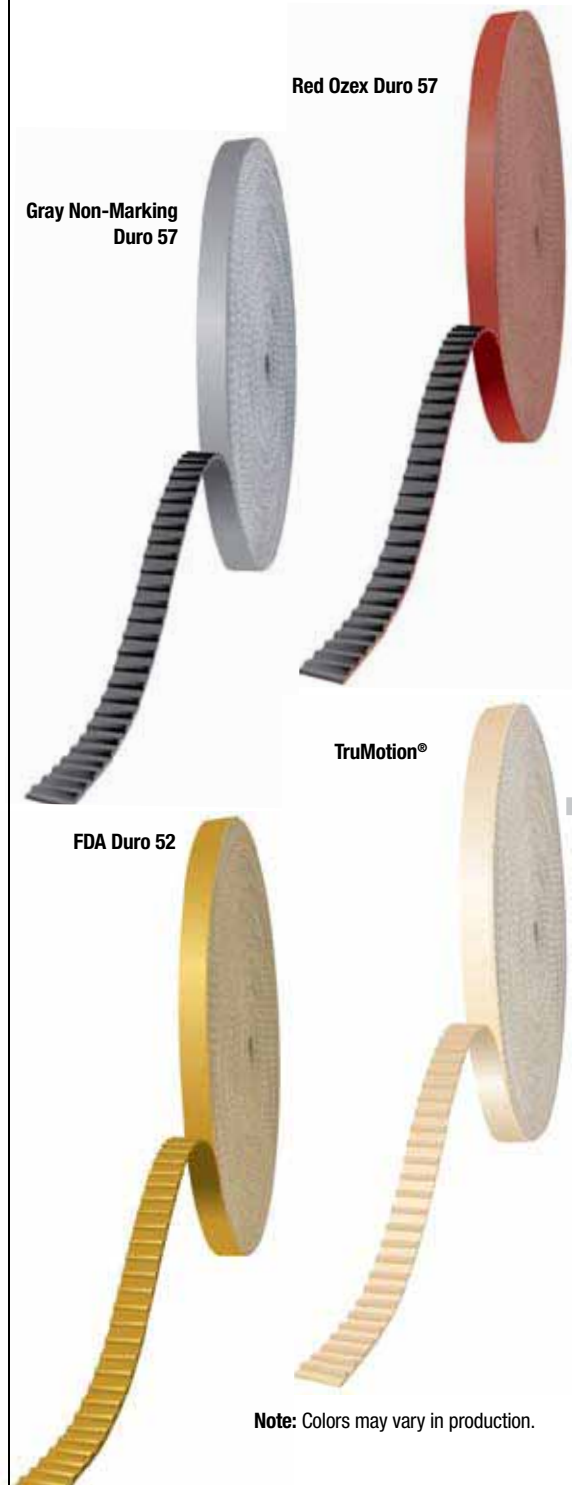
For applications that require increased wear resistance compared to standard rubber belts, such as wood, glass, and aluminum conveyance.

- ▶ **FDA Duro 52**

For use in applications where a food grade belt construction is required such as food conveying, wash down applications and anti-bacterial conveyors.

- ▶ **TruMotion®**

The TruMotion belt construction utilizes a clean white polymer and a polymer free nylon tooth surface, resulting in minimal dusting. This makes it ideal for many applications including data storage equipment, printers, plotters, medical equipment, food processors, money handling, copiers and other office equipment.



**Note:** Colors may vary in production.

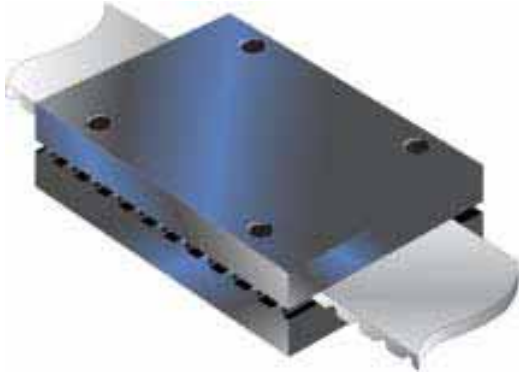
LL Special Constructions





## Long-Length Belting

### ▶ Clamping Plates



### Clamping Plate Kits

- ▶ To secure Long-Length Belting, Gates offers Clamping Plate Kits that include tooth plate, flat plate and hardware. All provide maximum clamping strength.

#### Poly Chain® GT® Carbon™

8MGT - Clamping Plates	
Product Description	Belt Width (mm)
CP-12-8MGT	12
CP-21-8MGT	21
CP-36-8MGT	36

14MGT - Clamping Plates	
Product Description	Belt Width (mm)
CP-20-14MGT	20
CP-37-14MGT	37

#### PowerGrip® GT®2

2MR - Clamping Plates	
Product Description	Belt Width (mm)
CP-04-2MR	4
CP-06-2MR	6
CP-09-2MR	9

3MR - Clamping Plates	
Product Description	Belt Width (mm)
CP-06-MR	6
CP-09-3MR	9
CP-15-3MR	15

5MR - Clamping Plates	
Product Description	Belt Width (mm)
CP-09-5MR	9
CP-15-5MR	15
CP-25-5MR	25

8MR - Clamping Plates	
Product Description	Belt Width (mm)
CP-20-8MR	20
CP-30-8MR	30
CP-50-8MR	50

**PowerGrip® HTD®**

5HTD - Clamping Plates	
Product Description	Belt Width (mm)
CP-05-5HTD	5
CP-10-5HTD	10
CP-15-5HTD	15
CP-25-5HTD	25
CP-50-5HTD	50

8HTD - Clamping Plates	
Product Description	Belt Width (mm)
CP-10-8HTD	10
CP-15-8HTD	15
CP-15-8HTD	20
CP-15-8HTD	25
CP-15-8HTD	30
CP-15-8HTD	50
CP-15-8HTD	85
CP-15-8HTD	100

14HTD - Clamping Plates	
Product Description	Belt Width (mm)
CP-25-14HTD	25
CP-40-14HTD	40
CP-55-14HTD	55
CP-85-14HTD	85
CP-100-14HTD	100
CP-115-14HTD	115
CP-170-14HTD	170

**PowerGrip® Timing**

XL - Clamping Plates	
Product Description	Belt Width (mm)
CP-025-XL	0.250
CP-031-XL	0.313
CP-037-XL	0.375
CP-050-XL	0.500
CP-075-XL	0.750
CP-100-XL	1.000
CP-150-XL	1.500
CP-200-XL	2.000

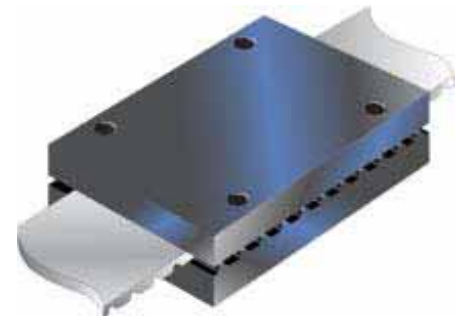
L - Clamping Plates	
Product Description	Belt Width (mm)
CP-037-L	0.375
CP-050-L	0.500
CP-075-L	0.750
CP-100-L	1.000
CP-150-L	1.500
CP-200-L	2.000
CP-300-L	3.000
CP-400-L	4.000

H - Clamping Plates	
Product Description	Belt Width (mm)
CP-037-H	0.375
CP-050-H	0.500
CP-075-H	0.750
CP-100-H	1.000
CP-150-H	1.500
CP-200-H	2.000
CP-300-H	3.000
CP-400-H	4.000
CP-600-H	6.000

**Bolt Kits**

Pitch	Product Description	Lock Washer	Hex Nut
8MGT	8MGT Bolt Kit	M8	M8
14MGT	14MGT Bolt Kit	M10	M10
2MR	2MR Bolt Kit	M2	M2
3MR	3MR Bolt Kit	M3	M3
5MR	5MR Bolt Kit	M5	M5
8MR	8MR Bolt Kit	M8	M8
XL	.200-XL Bolt Kit	#10	#10
L	.375-L Bolt Kit	5/16	5/16
H	.50-H Bolt Kit	3/8	3/8
5HTD	5HTD Bolt Kit	M5	M5
8HTD	8HTD Bolt Kit	M8	M8
14HTD	14HTD Bolt Kit	M10	M10

Extra Bolt Kits are also available separately.

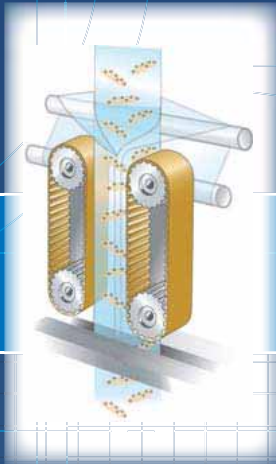




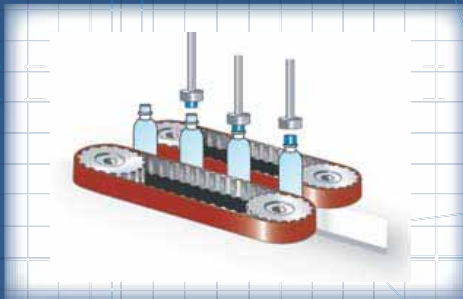
A Tomkins Company



Side Labeling Belt



Form/Fill/Seal Pull Belt



Capper Belt