

# GATES INDUSTRIAL POWER TRANSMISSION

*A comprehensive product range*



# Gates Industrial Power Transmission Products

## *High performance and comprehensive product range*

The industrial application range of Gates' power transmission products extends from minimum drives on computer printers or other high-precision tools to industrial compressors and agricultural harvesters.

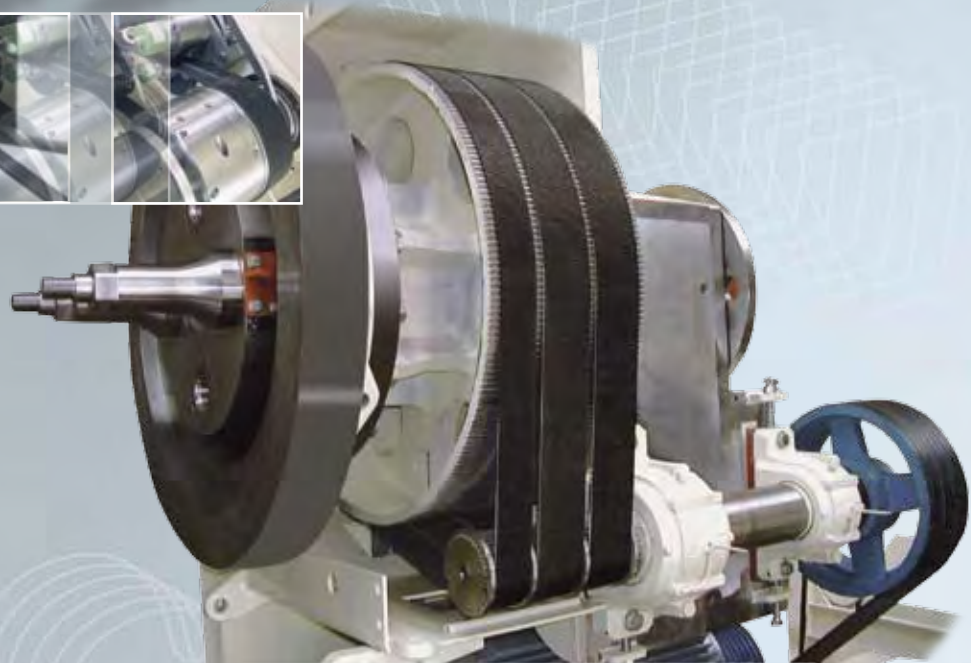
Gates offers a comprehensive programme of V-belts, synchronous belts, tensioners, pulleys, flexible couplings and complete drive systems covering a multitude of applications.



## **V-belts**

All Gates' industrial V-belts feature high modulus polyester cords that give extremely low elongation. A leading-edge technology delivering the advantages every end-user is looking for: less maintenance and greater cost savings. Premium belts such as the raw edge, narrow section Quad-Power® II, now with increased power ratings and Super HC® MN V-belts ensure excellent performance on the heaviest industrial drives.

Gates' Polyflex® JB™ belt range has been extended to include the 3M section.

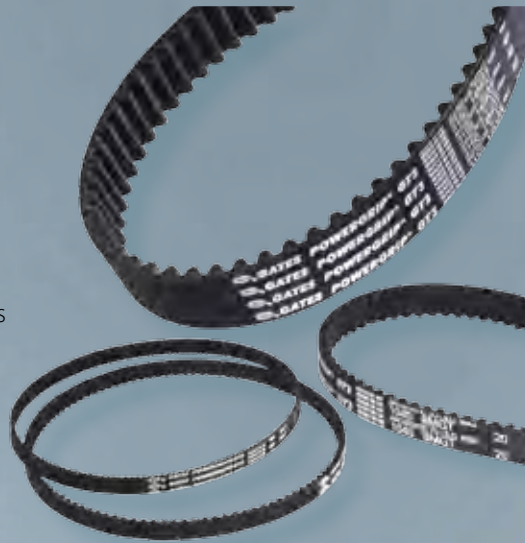


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## **Synchronous belts**

The latest innovation in Gates' synchronous belt drive systems is PowerGrip® GT3. This belt is available in small as well as large pitches and covers the widest range of industrial applications. The PowerGrip® GT3 synchronous belt transmits up to 30% more power than previous generation belts.

The powerful Poly Chain® GT2 polyurethane belt for high torque drives has been upgraded and has up to 40% higher power ratings than previously. Poly Chain® GT2 outperforms roller chain and requires no lubrication or retensioning.



## **Flexible couplings**

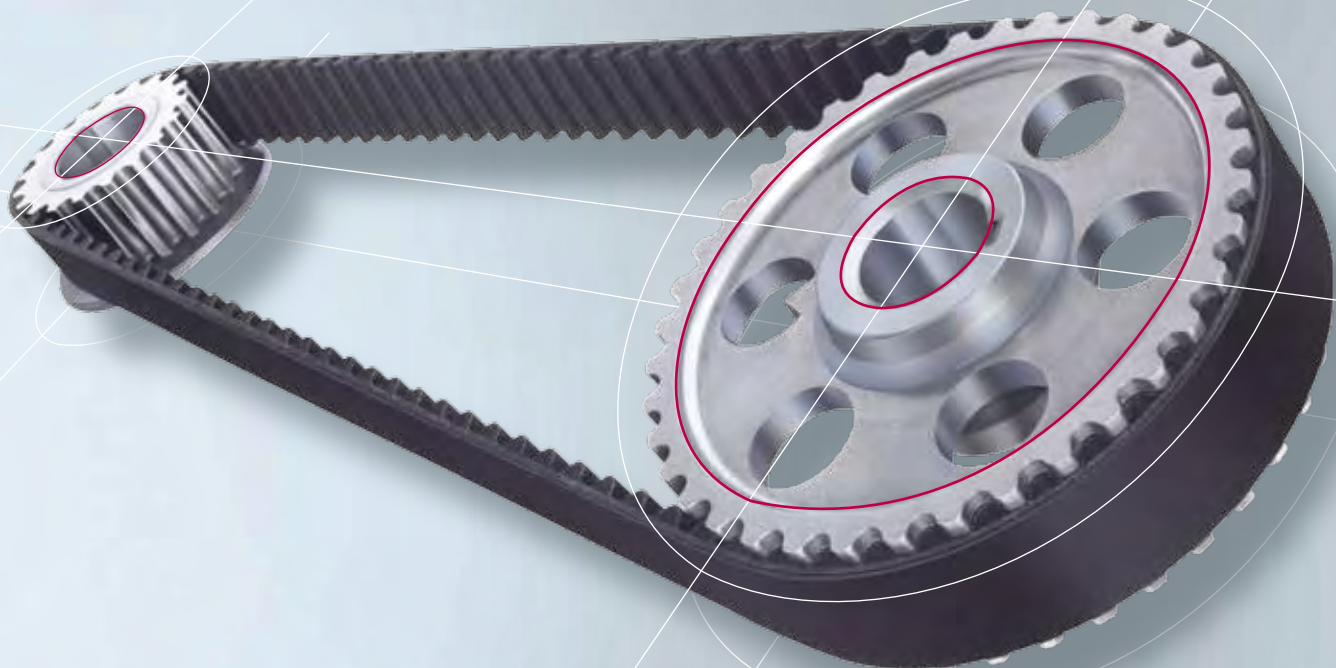
Gates has developed its EuroGrip® flexible couplings to connect two shafts subject to misalignment and axial movement. The EuroGrip® range covers all European standard motor systems.

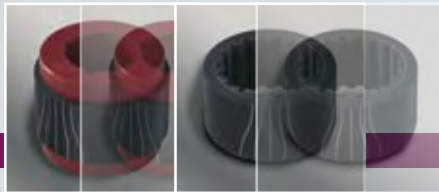
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## **Manufacturing and distribution**

Gates PT Industrial has product dedicated production sites in France, Germany, Poland and Scotland. Distribution is handled from two warehouses: Nevers (France) and Langenfeld (Germany).

All Gates European Power Transmission operations are ISO 9001 and ISO 14001 accredited.





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## Polyurethane belt products

For polyurethane belt products, please contact Gates Mectrol at [www.mectrol.com](http://www.mectrol.com).

All Gates V-belts and PowerGrip® GT3 8MGT & 14MGT belts are static conductive and can as such be used in the conditions described in the Directive 94/9/EC - ATEX.

®: A registered trademark of The Gates Corporation.



## HEAVY-DUTY V-BELTS

# QUAD-POWER® II

*Raw edge, moulded notch, narrow section V-belt*

Quad-Power® II is Gates' top of-the-range narrow section V-belt for heavy-duty industrial drives. It has been developed to replace traditional V-belts on applications where space and weight savings are critical: Quad-Power® II is the V-belt with the highest power capacity and can be used on small pulley diameters. Extensive testing has shown that Gates Quad-Power® II V-belt offers up to 15% higher power rating values than previous generations, ensuring the same service life. Improved resistance to outside bends allows the use of back idlers. The unique notch profile makes the belts run smoothly in the pulley grooves.



### Identification

Durable blue marking indicating type and dimensions.

### Construction

- Raw edge construction.
- Narrow cross-section.
- Optimised notch profile reduces and evenly distributes thermal and bending stresses. Notch depth is in proportion to the cross-section to ensure perfect stability.
- Precision-ground sidewalls give a uniform wedging action.
- Fibre-loaded elastomeric compound withstands heat, ozone and sunlight and provides better cord support.
- Flex-bonded polyester tensile cords are vulcanised as one solid unit, increasing the belt's resistance to tensile and flexing forces.
- Double Flex-Weave® textile backing protects the belt against wear - especially when back idlers are used.
- Cross-cords improve belt stability.
- Even with severe slippage, the belt will not catch fire from heat buildup.
- Static conductive (ISO 1813).

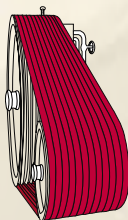
### Advantages

- The most powerful belt in Gates' industrial V-belt range.
- Excellent performance/cost ratio.
- Increased transmission efficiency as compared to other V-belt types.
- Cost and space savings.
- Savings on pulley cost.
- Maximum belt life reducing maintenance time.
- Match system: all sizes meet Gates UNISSET tolerances, they can be installed without matching.

### Sections and nominal dimensions



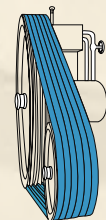
	Width mm	Height mm
XPZ	10	8
XPA	13	10
XPB	16	13
XPC	22	18



**Hi-Power®**  
12 x B 46  
pulley width: 234 mm  
25000 hr belt life



**Super HC®**  
8 x SPB 1250  
pulley width: 158 mm  
25000 hr belt life



**Quad-Power® II**  
6 x XPB 1250  
pulley width: 120 mm  
25000 hr belt life



XPZ			
Belt reference	Datum length	Belt reference	Datum length
ISO	mm ISO	ISO	mm ISO
XPZ 630	630	XPZ 1512	1512
XPZ 637	637	XPZ 1520	1520
XPZ 662	662	XPZ 1537	1537
XPZ 670	670	XPZ 1550	1550
XPZ 687	687	XPZ 1587	1587
XPZ 710	710	XPZ 1600	1600
XPZ 722	722	XPZ 1650	1650
XPZ 730	730	XPZ 1687	1687
XPZ 737	737	XPZ 1700	1700
XPZ 750	750	XPZ 1750	1750
XPZ 760	760	XPZ 1800	1800
XPZ 762	762	XPZ 1850	1850
XPZ 772	772	XPZ 1900	1900
XPZ 787	787	XPZ 1950	1950
XPZ 800	800	XPZ 2000	2000
XPZ 812	812	XPZ 2030	2030
XPZ 837	837	XPZ 2120	2120
XPZ 850	850	XPZ 2160	2160
XPZ 862	862	XPZ 2240	2240
XPZ 875	875	XPZ 2280	2280
XPZ 887	887	XPZ 2360	2360
XPZ 900	900	XPZ 2410	2410
XPZ 912	912	XPZ 2500	2500
XPZ 925	925	XPZ 2540	2540
XPZ 937	937	XPZ 2650	2650
XPZ 950	950	XPZ 2690	2690
XPZ 962	962	XPZ 2800	2800
XPZ 975	975	XPZ 2840	2840
XPZ 980	980	XPZ 3000	3000
XPZ 987	987	XPZ 3150	3150
XPZ 1000	1000	XPZ 3350	3350
XPZ 1010	1010	XPZ 3550	3550
XPZ 1012	1012		
XPZ 1030	1030		
XPZ 1037	1037		
XPZ 1060	1060		
XPZ 1062	1062		
XPZ 1077	1077		
XPZ 1080	1080		
XPZ 1087	1087		
XPZ 1090	1090		
XPZ 1112	1112		
XPZ 1120	1120		
XPZ 1137	1137		
XPZ 1140	1140		
XPZ 1150	1150		
XPZ 1162	1162		
XPZ 1180	1180		
XPZ 1187	1187		
XPZ 1200	1200		
XPZ 1202	1202		
XPZ 1212	1212		
XPZ 1237	1237		
XPZ 1250	1250		
XPZ 1262	1262		
XPZ 1270	1270		
XPZ 1280	1280		
XPZ 1285	1285		
XPZ 1287	1287		
XPZ 1312	1312		
XPZ 1320	1320		
XPZ 1337	1337		
XPZ 1340	1340		
XPZ 1362	1362		
XPZ 1400	1400		
XPZ 1412	1412		
XPZ 1420	1420		
XPZ 1450	1450		
XPZ 1487	1487		
XPZ 1500	1500		

XPA			
Belt reference	Datum length	Belt reference	Datum length
ISO	mm ISO	ISO	mm ISO
XPA 747	747	XPA 2360	2360
XPA 757	757	XPA 2430	2430
XPA 782	782	XPA 2500	2500
XPA 800	800	XPA 2650	2650
XPA 832	832	XPA 2800	2800
XPA 850	850	XPA 3000	3000
XPA 857	857	XPA 3150	3150
XPA 882	882	XPA 3350	3350
XPA 900	900	XPA 3550	3550
XPA 907	907	XPA 3750	3750
XPA 925	925	XPA 4000	4000
XPA 932	932		
XPA 950	950		
XPA 957	957		
XPA 975	975		
XPA 982	982		
XPA 1000	1000		
XPA 1007	1007		
XPA 1030	1030		
XPA 1060	1060		
XPA 1082	1082		
XPA 1090	1090		
XPA 1107	1107		
XPA 1120	1120		
XPA 1140	1140		
XPA 1150	1150		
XPA 1157	1157		
XPA 1180	1180		
XPA 1207	1207		
XPA 1215	1215		
XPA 1232	1232		
XPA 1250	1250		
XPA 1257	1257		
XPA 1282	1282		
XPA 1285	1285		
XPA 1307	1307		
XPA 1320	1320		
XPA 1332	1332		
XPA 1357	1357		
XPA 1360	1360		
XPA 1400	1400		
XPA 1450	1450		
XPA 1482	1482		
XPA 1500	1500		
XPA 1507	1507		
XPA 1532	1532		
XPA 1550	1550		
XPA 1582	1582		
XPA 1600	1600		
XPA 1650	1650		
XPA 1700	1700		
XPA 1750	1750		
XPA 1800	1800		
XPA 1850	1850		
XPA 1900	1900		
XPA 1950	1950		
XPA 2000	2000		
XPA 2060	2060		
XPA 2120	2120		
XPA 2240	2240		

XPB	
Belt reference	Datum length
ISO	mm ISO
XPB 1250	1250
XPB 1260	1260
XPB 1320	1320
XPB 1340	1340
XPB 1400	1400
XPB 1410	1410
XPB 1450	1450
XPB 1500	1500
XPB 1510	1510
XPB 1550	1550
XPB 1590	1590
XPB 1600	1600
XPB 1650	1650
XPB 1690	1690
XPB 1700	1700
XPB 1750	1750
XPB 1800	1800
XPB 1850	1850
XPB 1900	1900
XPB 1950	1950
XPB 2000	2000
XPB 2020	2020
XPB 2120	2120
XPB 2150	2150
XPB 2240	2240
XPB 2280	2280
XPB 2360	2360
XPB 2410	2410
XPB 2500	2500
XPB 2530	2530
XPB 2650	2650
XPB 2680	2680
XPB 2800	2800
XPB 2840	2840
XPB 2990	2990
XPB 3000	3000
XPB 3150	3150
XPB 3350	3350
XPB 3550	3550
XPB 3750	3750
XPB 4000	4000
XPB 4250	4250
XPB 4500	4500
XPB 4750	4750

XPC	
Belt reference	Datum length
ISO	mm ISO
XPC 2000	2000
XPC 2120	2120
XPC 2240	2240
XPC 2360	2360
XPC 2500	2500
XPC 2650	2650
XPC 2800	2800
XPC 3000	3000
XPC 3150	3150
XPC 3350	3350
XPC 3550	3550
XPC 3750	3750
XPC 4000	4000
XPC 4250	4250
XPC 4500	4500
XPC 4750	4750

Quad-Power® II ordering code is composed as follows:

**XPZ630**

**XPZ** - Section  
**630** - Datum length (mm)

Dimensions in bold are available from stock.



## HEAVY-DUTY V-BELTS

# SUPER HC<sup>®</sup> MN

*Raw edge, moulded notch, narrow section V-belt*

In addition to the Super HC<sup>®</sup> wrapped, narrow section V-belt, Gates markets the Super HC<sup>®</sup> Moulded Notch V-belt construction. Super HC<sup>®</sup> MN V-belts put more power where high speeds, high speed ratios or small pulley diameters are required, thus offering significant advantages over classical section V-belts. Developed through specialised research, Super HC<sup>®</sup> MN is highly recommended for use on all industrial heavy-duty, narrow section V-belt drives. The Super HC<sup>®</sup> MN increased transmission efficiency allows more compact and highly economical drive design. Super HC<sup>®</sup> MN belts are available up to 4750 mm ISO datum lengths.



### Identification

Durable yellow marking indicating type and dimensions.

### Construction

- Raw edge construction.
- Narrow cross-section.
- Moulded notches reduce and evenly distribute thermal and bending stresses. The moulded notch pattern also reduces noise.
- Precision-ground straight sidewalls give a uniform wedging action and ensure the belt fits correctly in the pulley grooves.
- Back idlers can be used.
- "Flex-bonded" tensile cords are vulcanised as one solid unit making the belt highly resistant to tensile and flexing forces, fatigue and shock loads.
- Elastomeric compound protects the belt against heat, ozone and sunlight.
- Even with severe slippage, the belt will not catch fire from heat buildup.
- Static conductive (ISO 1813).

### Advantages

- Excellent performance/cost ratio.
- More power in the same space or same power in 1/3 to 1/2 less space as compared to classical section V-belts.
- Cost and space savings by reducing size of pulleys, bearings, guards and mounts.
- Improved belt life reducing expensive maintenance time.
- Match system: all sizes meet Gates UNISSET tolerances, they can be installed without matching.

### Sections and nominal dimensions



	Width mm	Height mm
SPZ	10	8
SPA	13	10
SPB	16	13
SPC	22	18

#### NOTE

Gates Super HC<sup>®</sup> wrapped, narrow section V-belt is still available. Also see size listings on following pages.





SPZ			SPZ		
ISO Belt ref.		Datum length	ISO Belt ref.		Datum length
MN	Wrapped Super HC®	mm ISO	MN	Wrapped Super HC®	mm ISO
SPZ 560	SPZ 560	560	SPZ 1337	SPZ 1337	1337
SPZ 562	SPZ 562	562	SPZ 1340		1340
SPZ 612	SPZ 612	612	SPZ 1347		1347
	SPZ 615	615		SPZ 1360	1360
SPZ 630	SPZ 630	630	SPZ 1362	SPZ 1362	1362
SPZ 637	SPZ 637	637	SPZ 1387	SPZ 1387	1387
SPZ 662	SPZ 662	662	SPZ 1400	SPZ 1400	1400
SPZ 670	SPZ 670	670	SPZ 1412		1412
SPZ 687	SPZ 687	687	SPZ 1420		1420
SPZ 710	SPZ 710	710	SPZ 1437	SPZ 1437	1437
SPZ 722		722	SPZ 1450	SPZ 1450	1450
SPZ 730	SPZ 730	730	SPZ 1462	SPZ 1462	1462
SPZ 737	SPZ 737	737	SPZ 1487	SPZ 1487	1487
SPZ 750	SPZ 750	750	SPZ 1500	SPZ 1500	1500
SPZ 760		760	SPZ 1512		1512
SPZ 762	SPZ 762	762	SPZ 1520		1520
SPZ 772		772	SPZ 1537		1537
SPZ 775	SPZ 775	775	SPZ 1550	SPZ 1550	1550
SPZ 787	SPZ 787	787	SPZ 1562		1562
SPZ 800	SPZ 800	800	SPZ 1587	SPZ 1587	1587
SPZ 812	SPZ 812	812	SPZ 1600	SPZ 1600	1600
SPZ 825	SPZ 825	825	SPZ 1612	SPZ 1612	1612
SPZ 837	SPZ 837	837	SPZ 1637	SPZ 1637	1637
SPZ 850	SPZ 850	850	SPZ 1650	SPZ 1650	1650
SPZ 862	SPZ 862	862	SPZ 1662		1662
SPZ 875	SPZ 875	875	SPZ 1687		1687
SPZ 887	SPZ 887	887	SPZ 1700	SPZ 1700	1700
SPZ 900	SPZ 900	900	SPZ 1737		1737
SPZ 912	SPZ 912	912	SPZ 1750	SPZ 1750	1750
SPZ 925	SPZ 925	925	SPZ 1762		1762
SPZ 937	SPZ 937	937	SPZ 1782		1782
SPZ 950	SPZ 950	950	SPZ 1787	SPZ 1787	1787
SPZ 962	SPZ 962	962	SPZ 1800	SPZ 1800	1800
SPZ 975	SPZ 975	975	SPZ 1812		1812
SPZ 987	SPZ 987	987	SPZ 1837	SPZ 1837	1837
SPZ 1000	SPZ 1000	1000	SPZ 1850	SPZ 1850	1850
SPZ 1010		1010	SPZ 1862		1862
SPZ 1012	SPZ 1012	1012	SPZ 1887		1887
SPZ 1025		1025	SPZ 1900	SPZ 1900	1900
SPZ 1030	SPZ 1030	1030	SPZ 1937		1937
SPZ 1037	SPZ 1037	1037	SPZ 1950	SPZ 1950	1950
SPZ 1047		1047	SPZ 1987		1987
SPZ 1060	SPZ 1060	1060	SPZ 2000	SPZ 2000	2000
SPZ 1062	SPZ 1062	1062	SPZ 2037		2037
SPZ 1077		1077	SPZ 2060	SPZ 2060	2060
SPZ 1080		1080	SPZ 2120	SPZ 2120	2120
SPZ 1087	SPZ 1087	1087	SPZ 2137		2137
SPZ 1090	SPZ 1090	1090	SPZ 2160		2160
SPZ 1112	SPZ 1112	1112	SPZ 2180	SPZ 2180	2180
SPZ 1120	SPZ 1120	1120	SPZ 2187		2187
SPZ 1137	SPZ 1137	1137	SPZ 2240	SPZ 2240	2240
SPZ 1140		1140	SPZ 2262		2262
SPZ 1150	SPZ 1150	1150	SPZ 2280		2280
SPZ 1162	SPZ 1162	1162	SPZ 2287		2287
SPZ 1180	SPZ 1180	1180	SPZ 2360	SPZ 2360	2360
SPZ 1187	SPZ 1187	1187	SPZ 2410		2410
SPZ 1200		1200	SPZ 2430	SPZ 2430	2430
SPZ 1202		1202	SPZ 2500	SPZ 2500	2500
SPZ 1212	SPZ 1212	1212	SPZ 2540		2540
	SPZ 1215	1215	SPZ 2650	SPZ 2650	2650
SPZ 1237	SPZ 1237	1237	SPZ 2690		2690
SPZ 1250	SPZ 1250	1250	SPZ 2800	SPZ 2800	2800
SPZ 1262	SPZ 1262	1262	SPZ 2840		2840
SPZ 1270		1270	SPZ 3000	SPZ 3000	3000
	SPZ 1285	1285	SPZ 3150	SPZ 3150	3150
SPZ 1287	SPZ 1287	1287	SPZ 3350	SPZ 3350	3350
SPZ 1312	SPZ 1312	1312	SPZ 3550	SPZ 3550	3550
SPZ 1320	SPZ 1320	1320			

SPA			SPA		
ISO Belt ref.		Datum length	ISO Belt ref.		Datum length
MN	Wrapped Super HC®	mm ISO	MN	Wrapped Super HC®	mm ISO
SPA 732	SPA 732	732	SPA 1782	SPA 1782	1782
SPA 757		757	SPA 1800	SPA 1800	1800
SPA 782		782	SPA 1807		1807
SPA 800	SPA 800	800	SPA 1832	SPA 1832	1832
SPA 807		807	SPA 1857	SPA 1857	1857
SPA 832	SPA 832	832	SPA 1882		1882
SPA 850	SPA 850	850	SPA 1900	SPA 1900	1900
SPA 857	SPA 857	857	SPA 1907		1907
SPA 882	SPA 882	882	SPA 1932	SPA 1932	1932
SPA 900	SPA 900	900	SPA 1950	SPA 1950	1950
SPA 907	SPA 907	907	SPA 1957		1957
SPA 925	SPA 925	925	SPA 1982		1982
SPA 932	SPA 932	932	SPA 2000	SPA 2000	2000
SPA 950	SPA 950	950	SPA 2032	SPA 2032	2032
SPA 957	SPA 957	957	SPA 2057		2057
SPA 975	SPA 975	975	SPA 2060	SPA 2060	2060
SPA 982	SPA 982	982	SPA 2082	SPA 2082	2082
SPA 1000	SPA 1000	1000	SPA 2120	SPA 2120	2120
SPA 1007	SPA 1007	1007	SPA 2132	SPA 2132	2132
SPA 1030	SPA 1030	1030	SPA 2182		2182
SPA 1032	SPA 1032	1032	SPA 2207	SPA 2207	2207
	SPA 1057	1057	SPA 2232		2232
SPA 1060	SPA 1060	1060	SPA 2240	SPA 2240	2240
SPA 1082	SPA 1082	1082	SPA 2282		2282
SPA 1090	SPA 1090	1090	SPA 2300	SPA 2300	2300
SPA 1107	SPA 1107	1107	SPA 2307		2307
SPA 1120	SPA 1120	1120	SPA 2332		2332
SPA 1132	SPA 1132	1132	SPA 2360	SPA 2360	2360
SPA 1140		1140	SPA 2382		2382
SPA 1150	SPA 1150	1150	SPA 2430	SPA 2430	2430
SPA 1157	SPA 1157	1157	SPA 2482		2482
SPA 1180	SPA 1180	1180	SPA 2500	SPA 2500	2500
SPA 1207	SPA 1207	1207	SPA 2532		2532
SPA 1215	SPA 1215	1215	SPA 2582		2582
SPA 1232	SPA 1232	1232	SPA 2607		2607
SPA 1250	SPA 1250	1250	SPA 2632		2632
SPA 1257	SPA 1257	1257	SPA 2650	SPA 2650	2650
SPA 1272		1272	SPA 2682		2682
SPA 1282	SPA 1282	1282	SPA 2732		2732
SPA 1285	SPA 1285	1285	SPA 2782		2782
SPA 1307	SPA 1307	1307	SPA 2800	SPA 2800	2800
SPA 1320	SPA 1320	1320	SPA 2832		2832
SPA 1332	SPA 1332	1332	SPA 2847		2847
SPA 1357	SPA 1357	1357	SPA 2882		2882
SPA 1360	SPA 1360	1360	SPA 2900	SPA 2900	2900
SPA 1382	SPA 1382	1382	SPA 2932		2932
SPA 1400	SPA 1400	1400	SPA 2982		2982
SPA 1407	SPA 1407	1407	SPA 3000	SPA 3000	3000
SPA 1432	SPA 1432	1432	SPA 3150	SPA 3150	3150
SPA 1450	SPA 1450	1450	SPA 3350	SPA 3350	3350
SPA 1457	SPA 1457	1457	SPA 3550	SPA 3550	3550
SPA 1482	SPA 1482	1482	SPA 3750	SPA 3750	3750
SPA 1500	SPA 1500	1500	SPA 4000	SPA 4000	4000
SPA 1507	SPA 1507	1507		SPA 4250	4250
SPA 1532	SPA 1532	1532		SPA 4500	4500
SPA 1550	SPA 1550	1550			
SPA 1557	SPA 1557	1557			
SPA 1582		1582			
SPA 1600	SPA 1600	1600			
SPA 1607		1607			
SPA 1632		1632			
SPA 1650	SPA 1650	1650			
SPA 1657		1657			
SPA 1682		1682			
SPA 1700	SPA 1700	1700			
SPA 1707		1707			
SPA 1732	SPA 1732	1732			
SPA 1750	SPA 1750	1750			
SPA 1757		1757			

Dimensions in bold are available from stock.



SPB			SPC		
ISO Belt ref.		Datum length	ISO Belt ref.		Datum length
MN	Wrapped Super HC®	mm ISO	MN	Wrapped Super HC®	mm ISO
SPB 1250	SPB 1250	1250	SPC 2000	SPC 2000	2000
SPB 1260		1260	SPC 2120	SPC 2120	2120
SPB 1320		1320	SPC 2240	SPC 2240	2240
SPB 1340		1340	SPC 2360	SPC 2360	2360
SPB 1400		1400	SPC 2500	SPC 2500	2500
SPB 1410		1410	SPC 2650	SPC 2650	2650
SPB 1500	SPB 1500	1500	SPC 2800	SPC 2800	2800
SPB 1510		1510	SPC 3000	SPC 3000	3000
SPB 1590		1590	SPC 3150	SPC 3150	3150
SPB 1600	SPB 1600	1600	SPC 3350	SPC 3350	3350
SPB 1690		1690	SPC 3550	SPC 3550	3550
SPB 1700	SPB 1700	1700	SPC 3750	SPC 3750	3750
SPB 1800	SPB 1800	1800	SPC 4000	SPC 4000	4000
SPB 1900	SPB 1900	1900	SPC 4250	SPC 4250	4250
SPB 2000	SPB 2000	2000	SPC 4500	SPC 4500	4500
SPB 2020		2020	SPC 4750	SPC 4750	4750
SPB 2120	SPB 2120	2120		SPC 5000	5000
SPB 2150		2150		SPC 5300	5300
SPB 2240	SPB 2240	2240		SPC 5600	5600
SPB 2280		2280		SPC 6000	6000
SPB 2360	SPB 2360	2360		SPC 6300	6300
SPB 2410		2410		SPC 6700	6700
SPB 2500	SPB 2500	2500		SPC 7100	7100
SPB 2530		2530		SPC 7500	7500
SPB 2650	SPB 2650	2650		SPC 8000	8000
SPB 2680		2680		SPC 8500	8500
SPB 2800	SPB 2800	2800		SPC 9000	9000
SPB 2840		2840		SPC 9500	9500
SPB 2990		2990		SPC 10000	10000
SPB 3000	SPB 3000	3000		SPC 10600	10600
SPB 3150	SPB 3150	3150			
SPB 3350	SPB 3350	3350			
SPB 3550	SPB 3550	3550			
SPB 3750	SPB 3750	3750			
SPB 4000	SPB 4000	4000			
SPB 4250	SPB 4250	4250			
SPB 4500	SPB 4500	4500			
SPB 4750	SPB 4750	4750			
	SPB 5000	5000			
	SPB 5300	5300			
	SPB 5600	5600			
	SPB 6000	6000			
	SPB 6300	6300			
	SPB 6700	6700			
	SPB 7100	7100			
	SPB 7500	7500			
	SPB 8000	8000			

Super HC® MN ordering code is composed as follows:

**SPZ560MN**

- SPZ** - Section
- 560** - Datum length (mm)
- MN** - Moulded notch

Dimensions in bold are available from stock.



## HEAVY-DUTY V-BELTS

# HI-POWER®

*Wrapped V-belt of classical cross-section*

The wrapped classical section Hi-Power® V-belt has a long reputation for reliability on agricultural and industrial applications. The arched top of the Hi-Power® belt provides superior strength to prevent “dishing” and distortion of the tensile section. The cords are properly aligned, each of them carrying its full share of the load.

The Flex Weave® oil and heat resistant cover increases the angle facing the direction of pull. As a result, the Flex Weave® fabric develops even less stress for a given amount of bending.



### Identification

Durable red marking indicating type and dimensions.

### Construction

- Classical cross-section.
- Arched top, concave sidewalls and rounded corners provide uniform tensile loading and uniform pulley sidewall contact for excellent belt service life and reduced pulley wear.
- The Flex Weave® oil and heat resistant cover protects the belt core from the toughest environments.
- The vulcanised “Flex-bonded” tensile cords provide superior resistance to tensile and flexing forces, fatigue and shock loads.
- High-quality rubber compound protects the belt against heat, ozone and sunlight.
- The belt will not catch fire from heat build-up, even with severe slippage.
- Static conductive (ISO 1813).

### Advantages

- Excellent performance/cost ratio.
- Reliability and efficiency.
- Long belt life reducing replacement and maintenance costs.
- Match system: all sizes meet Gates UNISET tolerances, they can be installed without matching.

### Sections and nominal dimensions



	Width mm	Height mm
Z	10	6
A	13	8
B	17	11
C	22	14
D	32	19



Z - 10 mm		
ISO Belt ref.	Inside length	Datum length
	mm	mm ISO
Z17 <sup>1/2</sup>	450	470
Z18 <sup>1/2</sup>	475	495
Z19	485	505
Z19 <sup>1/2</sup>	500	520
Z20 <sup>1/2</sup>	530	550
Z22	560	580
Z22 <sup>1/2</sup>	575	595
Z23 <sup>1/2</sup>	600	620
Z24	610	630
Z25	630	655
Z26 <sup>1/2</sup>	670	695
Z28	710	730
Z29	730	755
Z29 <sup>1/2</sup>	750	770
Z30 <sup>1/2</sup>	775	795
Z31	785	805
Z31 <sup>1/2</sup>	800	820
Z32 <sup>1/2</sup>	825	845
Z33 <sup>1/2</sup>	850	870
Z34 <sup>1/2</sup>	875	895
Z35 <sup>1/2</sup>	900	920
Z36	910	930
Z37	935	955
Z37 <sup>1/2</sup>	950	970
Z38 <sup>1/2</sup>	975	995
Z39	980	1005
Z39 <sup>1/2</sup>	1000	1020
Z41 <sup>1/2</sup>	1050	1070
Z42	1060	1080
Z44	1120	1140
Z45	1150	1170
Z45 <sup>1/2</sup>	1160	1180
Z46	1180	1200
Z47	1200	1220
Z48	1225	1245
Z48 <sup>1/2</sup>	1230	1255
Z49	1250	1270
Z50	1275	1295
Z51	1300	1320
Z52	1320	1340
Z55	1400	1420
Z57	1450	1470
Z59	1500	1520
Z63 <sup>1/2</sup>	1600	1630
Z67	1700	1720
Z71	1800	1820
Z75	1900	1920

A - 13 mm					
ISO Belt ref.	Inside length	Datum length	ISO Belt ref.	Inside length	Datum length
	mm	mm ISO		mm	mm ISO
A21	535	570			
A22	560	595			
A23	590	620			
A23 <sup>1/2</sup>	600	630			
A24	615	645			
A24 <sup>1/2</sup>	630	655			
A25	650	680			
A26	670	705			
A27	690	720			
A27 <sup>1/2</sup>	700	730			
A28	710	745			
A28 <sup>1/2</sup>	725	755			
A29 <sup>1/2</sup>	750	780			
A30	775	795			
A31	800	825			
A32	825	850			
A33	850	875			
A34	875	900			
A35	900	925			
A36	925	950			
A37	950	975			
A38	975	1000			
A39	1000	1025			
A40	1030	1055			
A41	1050	1080			
A41 <sup>1/2</sup>	1060	1090			
A42	1075	1105			
A43	1100	1130			
A44	1125	1155			
A45	1150	1180			
A46	1180	1205			
A47	1200	1230			
A48	1225	1255			
A49	1250	1280			
A50	1275	1310			
A51	1300	1330			
A52	1320	1355			
A53	1350	1385			
A54	1375	1410			
A55	1400	1435			
A56	1430	1460			
A57	1450	1485			
A58	1475	1510			
A59	1500	1535			
A60	1525	1560			
A61	1550	1585			
A62	1575	1610			
A63	1600	1635			
A64	1625	1660			
A65	1655	1690			
A66	1680	1715			
A67	1700	1735			
A68	1730	1765			
A69	1760	1790			
A70	1780	1815			
A71	1800	1840			
A72	1830	1865			
A73	1860	1890			
A74	1880	1915			
A75	1900	1940			
A76	1930	1965			
A77	1960	1990			
A78	1980	2020			
A79	2000	2040			
A80	2040	2070			
A81	2060	2095			
A82	2090	2120			
A83	2120	2145			
A84	2140	2170			
A85	2160	2195			

B - 17 mm		
ISO Belt ref.	Inside length	Datum length
	mm	mm ISO
B25	650	695
B26	670	710
B27	695	735
B27 <sup>1/2</sup>	710	745
B28	725	770
B29	750	795
B30	775	815
B31	800	845
B32	825	870
B33	850	895
B34	875	920
B35	900	940
B36	925	965
B37	950	990
B38	975	1015
B39	1000	1040
B40	1030	1065
B41	1060	1095
B42	1075	1120
B43	1100	1145
B44	1120	1170
B45	1150	1195
B46	1180	1220
B47	1200	1245
B48	1225	1270
B49	1250	1295
B50	1275	1320
B51	1300	1345
B52	1335	1370
B53	1360	1395
B54	1385	1425
B55	1400	1450
B56	1435	1475
B57	1460	1500
B58	1485	1525
B59	1500	1550
B60	1535	1575
B61	1560	1600
B62	1585	1625
B63	1600	1650
B64	1625	1675
B65	1650	1700
B66	1700	1730
B67	1725	1755
B68	1750	1780
B69	1765	1805
B70	1800	1830
B71	1815	1855
B72	1850	1880
B73	1865	1905
B74	1900	1930
B75	1915	1955
B76	1950	1980
B77	1970	2005
B78	2000	2030
B79	2020	2060
B80	2040	2085
B81	2060	2110
B82	2100	2135
B83	2120	2160
B84	2145	2185
B85	2160	2210
B86	2200	2235
B87	2220	2260
B88	2240	2285
B89	2270	2310
B90	2300	2335
B91	2325	2365
B92	2360	2390
B93	2375	2415



B - 17 mm			C - 22 mm						D - 32 mm		
ISO Belt ref.	Inside length	Datum length	ISO Belt ref.	Inside length	Datum length	ISO Belt ref.	Inside length	Datum length	ISO Belt ref.	Inside length	Datum length
	mm	mm ISO		mm	mm ISO		mm	mm ISO		mm	mm ISO
B94	2400	2440	C42	1080	1145	C265	6700	6755	D98	2500	2570
B95	2425	2465	C43	1100	1165	C270	6820	6880	D104	2650	2720
B96	2450	2490	C46	1180	1245	C280	7100	7135	D110	2800	2975
B97	2475	2515	C48	1230	1290	C285	7200	7260	D120	3050	3130
B98	2500	2540	C49	1250	1320	C300	7580	7640	D124	3150	3230
B99	2525	2565	C51	1320	1370	C330	8340	8405	D128	3250	3330
B100	2540	2590	C53	1350	1420				D137	3480	3560
B102	2600	2640	C54	1375	1445				D140	3550	3635
B103	2625	2665	C55	1400	1470				D144	3660	3740
B104	2650	2695	C59	1500	1570				D158	4000	4095
B105	2680	2720	C60	1525	1595				D162	4115	4195
B106	2700	2745	C62	1600	1650				D170	4320	4400
B108	2755	2795	C65	1665	1725				D173	4400	4475
B110	2800	2845	C66	1700	1750				D177	4500	4575
B112	2850	2895	C68	1750	1800				D180	4570	4650
B114	2900	2945	C70	1800	1850				D187	4750	4830
B116	2950	3000	C71	1830	1875				D195	4955	5035
B118	3000	3050	C72	1840	1900				D197	5000	5085
B120	3060	3100	C74	1900	1950				D204	5180	5260
B122	3100	3150	C75	1920	1980				D210	5335	5415
B124	3150	3200	C78	2000	2055				D223	5600	5680
B128	3250	3300	C81	2070	2130				D240	6030	6115
B130	3310	3350	C82	2100	2155				D250	6300	6365
B131	3350	3380	C83	2120	2180				D270	6800	6875
B133	3390	3430	C85	2170	2230				D282	7100	7180
B134	3415	3455	C88	2240	2310				D298	7500	7585
B136	3460	3505	C90	2300	2360				D300	7555	7635
B140	3550	3610	C92	2360	2410				D330	8320	8400
B144	3670	3710	C93	2375	2435				D360	9080	9160
B147	3750	3785	C95	2425	2485				D390	9910	9982
B148	3770	3810	C96	2460	2510				D420	10672	10747
B152	3870	3910	C97	2475	2535				D450	11435	11510
B157	4000	4040	C98	2500	2560				D480	12197	12272
B158	4025	4065	C99	2525	2590				D540	13721	13796
B162	4125	4165	C100	2560	2615				D600	15246	15321
B165	4200	4240	C102	2600	2665				D660	16771	16846
B167	4250	4295	C104	2650	2715						
B173	4400	4445	C105	2675	2740						
B175	4450	4495	C108	2750	2815						
B177	4500	4545	C110	2800	2865						
B180	4580	4625	C112	2860	2920						
B186	4750	4775	C115	2935	2995						
B195	4960	5005	C116	2965	3020						
B196	5000	5030	C118	3000	3070						
B204	5200	5235	C120	3050	3120						
B208	5300	5335	C124	3150	3225						
B210	5345	5385	C128	3250	3325						
B221	5600	5625	C130	3300	3375						
B225	5690	5730	C132	3350	3425						
B240	6070	6110	C134	3415	3475						
B249	6300	6340	C136	3450	3525						
B270	6830	6870	C140	3550	3630						
B300	7620	7635	C144	3670	3730						
			C147	3750	3805						
			C153	3900	3960						
			C158	4000	4085						
			C162	4130	4190						
			C165	4200	4265						
			C173	4400	4465						
			C177	4500	4570						
			C180	4575	4645						
			C195	4980	5025						
			C208	5300	5355						
			C210	5340	5405						
			C222	5600	5660						
			C225	5675	5735						
			C238	6000	6065						
			C240	6050	6120						
			C250	6300	6370						
			C255	6440	6500						

**Hi-Power® ordering code is composed as follows:**

**Z19**

**Z** - Section  
**19** - Length in inch

Dimensions in bold are available from stock.



# Hi-Power® Dubl-V

**Wrapped, classical  
section, double  
V-belt**

Gates' Hi-Power® Dubl-V belt is characterised by a double-V profile. It uses flex-bonded tensile cords, which are highly resistant to flexing forces, and a protective Flex-Weave® cover.

It is the ideal solution for "serpentine" drives (drives with counterrotating shafts) where power is transmitted from both the top and the bottom of the belts.

AA		
Belt ref.	Effective length	Datum length
	mm RMA	mm ISO
AA51	1350	1330
AA55	1450	1435
AA60	1575	1560
AA68	1780	1765
AA75	1960	1940
AA80	2085	2070
AA85	2210	2195
AA90	2340	2325
AA92	2390	2375
AA96	2490	2475
AA105	2720	2705
AA112	2900	2880
AA120	3100	3085
AA128	3305	3290

BB		
Belt ref.	Effective length	Datum length
	mm RMA	mm ISO
BB35	965	940
BB38	1040	1015
BB42	1140	1120
BB43	1165	1145
BB45	1215	1195
BB46	1240	1220
BB51	1370	1345
BB53	1420	1395
BB55	1470	1450
BB60	1600	1575
BB68	1800	1780
BB71	1880	1855
BB73	1925	1905
BB74	1955	1930
BB75	1980	1955
BB81	2130	2110
BB85	2235	2210
BB90	2360	2335
BB92	2410	2390
BB93	2435	2415
BB94	2460	2440
BB97	2535	2515
BB105	2740	2720
BB107	2790	2770
BB108	2815	2795
BB111	2895	2870
BB112	2920	2895
BB116	3020	3000
BB118	3070	3050
BB120	3120	3100
BB122	3170	3150
BB123	3195	3175
BB124	3220	3200
BB127	3300	3275
BB128	3325	3300
BB129	3350	3325
BB130	3375	3350
BB136	3528	3505
BB144	3730	3710
BB155	4010	3990
BB158	4085	4065
BB168	4340	4320
BB169	4365	4345
BB173	4470	4445
BB180	4645	4625
BB195	5025	5005
BB210	5410	5385
BB226	5814	5755
BB228	5864	5805
BB230	5915	5855
BB240	6130	6110
BB270	6895	6870
BB277	7070	7050
BB300	7655	7635

CC		
Belt ref.	Effective length	Datum length
	mm RMA	mm ISO
CC75	2010	1980
CC81	2165	2130
CC85	2265	2230
CC90	2395	2360
CC96	2545	2510
CC105	2775	2740
CC112	2950	2920
CC120	3155	3120
CC128	3360	3325
CC136	3560	3525
CC144	3765	3730
CC158	4120	4085
CC162	4220	4190
CC173	4500	4465
CC180	4680	4645
CC195	5060	5025
CC210	5440	5405
CC240	6150	6120
CC250	6382	6350
CC270	6915	6880
CC300	7675	7640
CC330	8440	8405
CC360	9200	9165
CC390	9960	9930
CC420	10725	10690

DD		
Belt ref.	Effective length	Datum length
	mm RMA	mm ISO
DD210	5465	5415
DD270	6925	6875
DD300	7690	7635
DD360	9215	9160

**Hi-Power® Dubl-V ordering code  
is composed as follows:**

**AA51**

**AA** - Section (double)

**51** - Length in inch (RMA)

**Dimensions in bold are available from stock.**



## HEAVY-DUTY V-BELTS

# VULCOPOWER™

*Classical section wrapped V-belt*

Gates VulcoPower™ V-belts are built for a reliable and durable performance on heavy-duty industrial drives. They offer a combination of advantages only available in Gates quality belts – all at an attractive price.



### Identification

Durable white marking indicating type and dimensions.

### Construction

- Belt compound converts forces on the sidewalls into longitudinal forces in the tensile member.
- Textile cover provides grip and protects against abrasion.
- Polyester tensile member withstands occasional or recurrent shockloads.
- Excellent resistance to oil, heat, ozone, sunlight, weather and ageing.
- Static conductive (ISO 1813).

### Advantages

- Excellent performance/cost ratio.
- Manufactured according to Gates high quality standards.
- Suited for a wide range of light- to medium-duty power transmission applications and motion transfer.
- Available in all popular lengths and sections
- Match system: all sizes meet Gates UNISSET tolerances, they can be installed without matching.

### Sections and nominal dimensions



	Width mm	Height mm
Z	10	6
A	13	8
B	17	10
C	22	12



Z			A					
ISO Code	Inside length	Datum length	ISO Code	Inside length	Datum length	ISO Code	Inside length	Datum length
	mm	mm		mm	mm		mm	mm
Z16	413	435	A18	460	490	A86	2190	2220
Z17 <sup>1/2</sup>	438	460	A19	475	505	A87	2215	2245
Z18 <sup>1/2</sup>	478	500	A20	525	555	A88	2240	2270
Z19 <sup>1/2</sup>	493	515	A21	540	570	A89	2265	2295
Z20 <sup>1/2</sup>	518	540	A22	565	595	A90	2290	2320
Z22 <sup>1/2</sup>	568	590	A23	590	620	A91	2315	2345
Z24	613	635	A24	610	640	A92	2340	2370
Z25	628	650	A25	633	663	A93	2365	2395
Z25 <sup>1/2</sup>	653	675	A26	670	700	A94	2390	2420
Z26 <sup>1/2</sup>	668	690	A27 <sup>1/2</sup>	700	730	A95	2415	2445
Z28	703	725	A28 <sup>1/2</sup>	715	745	A96	2445	2475
Z29	733	755	A29 <sup>1/2</sup>	750	780	A97	2465	2495
Z30	768	790	A30	770	800	A98	2500	2530
Z31	788	810	A31	795	825	A100	2540	2570
Z32 <sup>1/2</sup>	828	850	A32	805	835	A102	2590	2620
Z33 <sup>1/2</sup>	853	875	A32 <sup>1/2</sup>	825	855	A104	2650	2680
Z34 <sup>1/2</sup>	878	900	A33	845	875	A105	2680	2710
Z36	913	935	A34	870	900	A107	2720	2750
Z37 <sup>1/2</sup>	948	970	A35	890	920	A108	2745	2775
Z38 <sup>1/2</sup>	978	1000	A36	915	945	A110	2800	2830
Z39 <sup>1/2</sup>	998	1020	A37	945	975	A112	2855	2885
Z41 <sup>1/2</sup>	1048	1070	A38	962	992	A115	2920	2950
Z44	1130	1152	A39	980	1010	A116	2950	2980
Z45	1143	1165	A40	1015	1045	A118	3000	3030
Z46	1178	1200	A41	1040	1070	A120	3055	3085
Z47	1198	1220	A42	1065	1095	A124	3150	3180
Z48	1223	1245	A43	1090	1120	A128	3255	3285
Z49	1243	1265	A44	1115	1145	A130	3305	3335
Z50	1273	1295	A45	1145	1175	A132	3350	3380
Z51	1305	1327	A46	1175	1205	A136	3455	3485
Z52	1323	1345	A47	1190	1220	A140	3555	3585
Z53	1340	1362	A48	1225	1255	A144	3660	3690
Z54	1373	1395	A49	1248	1278	A148	3750	3780
Z55	1398	1420	A50	1265	1295	A158	4015	4045
Z57	1448	1470	A51	1300	1330	A167	4245	4275
Z59	1498	1520	A52	1325	1355	A187	4750	4780
Z60	1523	1545	A53	1355	1385	A197	5000	5030
Z61	1553	1575	A54	1370	1400			
Z63	1603	1625	A55	1410	1440			
Z65	1653	1675	A56	1425	1455			
Z66	1678	1700	A57	1455	1485			
Z67	1703	1725	A58	1475	1505			
Z69	1753	1775	A59	1495	1525			
Z71	1803	1825	A60	1530	1560			
			A61	1550	1580			
			A62	1580	1610			
			A63	1615	1645			
			A64	1625	1655			
			A65	1660	1690			
			A66	1676	1706			
			A67	1700	1730			
			A68	1725	1755			
			A69	1750	1780			
			A70	1780	1810			
			A71	1805	1835			
			A72	1830	1860			
			A73	1855	1885			
			A74	1885	1915			
			A75	1910	1940			
			A76	1930	1960			
			A77	1960	1990			
			A78	1980	2010			
			A79	2010	2040			
			A80	2035	2065			
			A81	2060	2090			
			A82	2085	2115			
			A83	2110	2140			
			A84	2135	2165			
			A85	2170	2200			





B						C					
ISO Code	Inside length	Datum length	ISO Code	Inside length	Datum length	ISO Code	Inside length	Datum length	ISO Code	Inside length	Datum length
	mm	mm		mm	mm		mm	mm		mm	mm
B26	650	690	B96	2445	2485	C43	1092	1150	C120	3062	3120
B27	690	730	B97	2470	2510	C46	1192	1250	C122	3127	3185
B28	710	750	B98	2495	2535	C48	1227	1285	C124	3157	3215
B29	730	770	B99	2520	2560	C49	1252	1310	C128	3262	3320
B30	750	790	B100	2545	2585	C51	1292	1350	C130	3312	3370
B31	795	835	B101	2570	2610	C52	1337	1395	C132	3367	3425
B32	820	860	B102	2595	2635	C53	1352	1410	C134	3402	3460
B33	860	900	B103	2615	2655	C55	1402	1460	C136	3477	3535
B35	890	930	B104	2645	2685	C56	1427	1485	C140	3557	3615
B36	930	970	B105	2675	2715	C57	1452	1510	C144	3672	3730
B37	950	990	B106	2700	2740	C58	1492	1550	C148	3772	3830
B38	970	1010	B108	2750	2790	C59	1512	1570	C153	3902	3960
B39	1000	1040	B110	2800	2840	C60	1527	1585	C158	4007	4065
B40	1025	1065	B112	2850	2890	C61	1567	1625	C162	4122	4180
B41	1045	1085	B114	2900	2940	C62	1592	1650	C165	4212	4270
B42	1070	1110	B115	2925	2965	C63	1617	1675	C167	4262	4320
B43	1105	1145	B116	2950	2990	C65	1667	1725	C170	4342	4400
B44	1110	1150	B118	3000	3040	C66	1692	1750	C173	4407	4465
B45	1145	1185	B120	3055	3095	C67	1717	1775	C177	4507	4565
B46	1170	1210	B124	3150	3190	C68	1742	1800	C180	4587	4645
B47	1195	1235	B126	3210	3250	C69	1767	1825	C187	4752	4810
B48	1225	1265	B128	3260	3300	C70	1792	1850	C190	4822	4880
B49	1250	1290	B130	3310	3350	C71	1817	1875	C195	4967	5025
B50	1278	1318	B132	3355	3395	C72	1842	1900	C197	5022	5080
B51	1300	1340	B134	3410	3450	C75	1912	1970	C204	5192	5250
B52	1325	1365	B136	3460	3500	C76	1942	2000	C208	5302	5360
B53	1350	1390	B140	3560	3600	C77	1972	2030	C210	5342	5400
B54	1380	1420	B144	3665	3705	C78	1992	2050	C222	5607	5665
B55	1410	1450	B147	3740	3780	C80	2042	2100	C225	5672	5730
B56	1440	1480	B148	3760	3800	C81	2067	2125	C238	6002	6060
B57	1460	1500	B152	3865	3905	C82	2092	2150	C240	6062	6120
B58	1480	1520	B154	3915	3955	C83	2122	2180	C250	6307	6365
B59	1510	1550	B158	4020	4060	C84	2142	2200	C265	6702	6760
B60	1525	1565	B162	4120	4160	C85	2172	2230	C270	6822	6880
B61	1555	1595	B167	4255	4295	C86	2197	2255	C280	7107	7165
B62	1575	1615	B173	4400	4440	C88	2242	2300			
B63	1595	1635	B175	4450	4490	C89	2272	2330			
B64	1630	1670	B180	4580	4620	C90	2297	2355			
B65	1650	1690	B187	4755	4795	C93	2367	2425			
B66	1695	1735	B192	4880	4920	C94	2387	2445			
B67	1715	1755	B195	4960	5000	C95	2412	2470			
B68	1730	1770	B210	5340	5380	C96	2432	2490			
B69	1755	1795	B240	6090	6130	C97	2467	2525			
B70	1780	1820	B248	6300	6340	C98	2502	2560			
B71	1810	1850	B270	6825	6865	C99	2537	2595			
B72	1835	1875	B280	7100	7140	C100	2557	2615			
B73	1855	1895				C101	2582	2640			
B74	1885	1925				C102	2602	2660			
B75	1905	1945				C104	2657	2715			
B76	1935	1975				C105	2682	2740			
B77	1960	2000				C106	2707	2765			
B78	2000	2040				C108	2762	2820			
B80	2030	2070				C110	2802	2860			
B81	2060	2100				C112	2857	2915			
B82	2090	2130				C114	2917	2975			
B83	2115	2155				C115	2932	2990			
B84	2140	2180				C116	2962	3020			
B85	2165	2205				C118	2997	3055			
B86	2185	2225									
B87	2215	2255									
B88	2240	2280									
B89	2255	2295									
B90	2290	2330									
B91	2310	2350									
B92	2340	2380									
B93	2365	2405									
B94	2395	2435									
B95	2420	2460									

**VulcoPower™ ordering code is composed as follows:**

<b>C43VULCO</b>	
<b>C</b>	- Section
<b>43</b>	- Inside length in inch
<b>VULCO</b>	- Product short name

Dimensions in bold are available from stock.



## HEAVY-DUTY V-BELTS

# VULCOPLUS™

### *Narrow section wrapped V-belt*

If your application requires high speeds, high speed ratios or small pulley diameters, Gates VulcoPlus™ is the ideal solution. This replacement belt is recommended for use on all industrial heavy-duty, narrow section V-belt drives.



#### Identification

Durable green marking indicating type and dimensions.

#### Construction

- Belt compound converts tensile forces on the sidewalls into longitudinal forces in the tensile member.
- Textile cover provides grip and protects against abrasion.
- Polyester tensile member withstands occasional or recurrent shockloads.
- Excellent resistance to oil, heat, ozone, sunlight, weather and ageing.
- Static conductive (ISO 1813).

#### Advantages

- Excellent performance/cost ratio.
- Manufactured according to Gates high quality standards.
- Suited for a wide range of light- to medium-duty power transmission applications and motion transfer.
- Available in all popular lengths and sections
- Match system: all sizes meet Gates UNISET tolerances, they can be installed without matching.

#### Sections and nominal dimensions



	Width mm	Height mm
SPZ	10	8
SPA	13	10
SPB	16	13
SPC	22	18



SPZ				SPA			
Belt reference	Datum length	Belt reference	Datum length	Belt reference	Datum length	Belt reference	Datum length
	mm ISO		mm ISO		mm ISO		mm ISO
SPZ 562	562	SPZ 1562	1562	SPA 732	732	SPA 1957	1957
SPZ 587	587	SPZ 1587	1587	SPA 757	757	SPA 1982	1982
SPZ 612	612	SPZ 1600	1600	SPA 782	782	SPA 2000	2000
SPZ 630	630	SPZ 1612	1612	SPA 800	800	SPA 2032	2032
SPZ 637	637	SPZ 1637	1637	SPA 825	825	SPA 2057	2057
SPZ 662	662	SPZ 1650	1650	SPA 832	832	SPA 2060	2060
SPZ 670	670	SPZ 1662	1662	SPA 850	850	SPA 2082	2082
SPZ 687	687	SPZ 1687	1687	SPA 857	857	SPA 2120	2120
SPZ 710	710	SPZ 1700	1700	SPA 875	875	SPA 2132	2132
SPZ 722	722	SPZ 1737	1737	SPA 900	900	SPA 2182	2182
SPZ 737	737	SPZ 1750	1750	SPA 932	932	SPA 2207	2207
SPZ 750	750	SPZ 1762	1762	SPA 950	950	SPA 2232	2232
SPZ 762	762	SPZ 1787	1787	SPA 975	975	SPA 2240	2240
SPZ 772	772	SPZ 1800	1800	SPA 1000	1000	SPA 2282	2282
SPZ 787	787	SPZ 1812	1812	SPA 1030	1030	SPA 2300	2300
SPZ 800	800	SPZ 1837	1837	SPA 1032	1032	SPA 2307	2307
SPZ 812	812	SPZ 1850	1850	SPA 1057	1057	SPA 2332	2332
SPZ 825	825	SPZ 1862	1862	SPA 1082	1082	SPA 2360	2360
SPZ 837	837	SPZ 1887	1887	SPA 1107	1107	SPA 2382	2382
SPZ 850	850	SPZ 1900	1900	SPA 1120	1120	SPA 2430	2430
SPZ 862	862	SPZ 1937	1937	SPA 1132	1132	SPA 2432	2432
SPZ 875	875	SPZ 1987	1987	SPA 1150	1150	SPA 2482	2482
SPZ 887	887	SPZ 2000	2000	SPA 1180	1180	SPA 2500	2500
SPZ 900	900	SPZ 2037	2037	SPA 1207	1207	SPA 2532	2532
SPZ 912	912	SPZ 2060	2060	SPA 1232	1232	SPA 2580	2580
SPZ 925	925	SPZ 2120	2120	SPA 1250	1250	SPA 2582	2582
SPZ 937	937	SPZ 2137	2137	SPA 1272	1272	SPA 2607	2607
SPZ 950	950	SPZ 2180	2180	SPA 1285	1285	SPA 2632	2632
SPZ 962	962	SPZ 2187	2187	SPA 1307	1307	SPA 2650	2650
SPZ 975	975	SPZ 2240	2240	SPA 1320	1320	SPA 2682	2682
SPZ 987	987	SPZ 2287	2287	SPA 1332	1332	SPA 2720	2720
SPZ 1000	1000	SPZ 2360	2360	SPA 1360	1360	SPA 2732	2732
SPZ 1012	1012	SPZ 2500	2500	SPA 1382	1382	SPA 2782	2782
SPZ 1024	1024	SPZ 2650	2650	SPA 1400	1400	SPA 2800	2800
SPZ 1030	1030	SPZ 2800	2800	SPA 1407	1407	SPA 2832	2832
SPZ 1037	1037	SPZ 3000	3000	SPA 1425	1425	SPA 2847	2847
SPZ 1047	1047	SPZ 3150	3150	SPA 1432	1432	SPA 2882	2882
SPZ 1060	1060	SPZ 3350	3350	SPA 1450	1450	SPA 2900	2900
SPZ 1077	1077	SPZ 3550	3550	SPA 1482	1482	SPA 2932	2932
SPZ 1087	1087			SPA 1500	1500	SPA 2982	2982
SPZ 1112	1112			SPA 1532	1532	SPA 3000	3000
SPZ 1120	1120			SPA 1550	1550	SPA 3032	3032
SPZ 1137	1137			SPA 1582	1582	SPA 3082	3082
SPZ 1162	1162			SPA 1600	1600	SPA 3150	3150
SPZ 1180	1180			SPA 1632	1632	SPA 3182	3182
SPZ 1187	1187			SPA 1650	1650	SPA 3282	3282
SPZ 1202	1202			SPA 1682	1682	SPA 3350	3350
SPZ 1212	1212			SPA 1700	1700	SPA 3550	3550
SPZ 1237	1237			SPA 1707	1707	SPA 3750	3750
SPZ 1250	1250			SPA 1732	1732	SPA 4000	4000
SPZ 1262	1262			SPA 1757	1757	SPA 4250	4250
SPZ 1285	1285			SPA 1782	1782	SPA 4500	4500
SPZ 1312	1312			SPA 1800	1800		
SPZ 1320	1320			SPA 1832	1832		
SPZ 1337	1337			SPA 1857	1857		
SPZ 1347	1347			SPA 1882	1882		
SPZ 1360	1360			SPA 1900	1900		
SPZ 1387	1387			SPA 1932	1932		
SPZ 1400	1400						
SPZ 1412	1412						
SPZ 1437	1437						
SPZ 1450	1450						
SPZ 1462	1462						
SPZ 1487	1487						
SPZ 1500	1500						
SPZ 1512	1512						
SPZ 1537	1537						
SPZ 1550	1550						



SPB		SPC	
Belt reference	Datum length mm ISO	Belt reference	Datum length mm ISO
SPB 1250	1250	SPC 2000	2000
SPB 1280	1280	SPC 2120	2120
SPB 1320	1320	SPC 2240	2240
SPB 1360	1360	SPC 2360	2360
SPB 1400	1400	SPC 2500	2500
SPB 1450	1450	SPC 2650	2650
SPB 1500	1500	SPC 2800	2800
SPB 1550	1550	SPC 3000	3000
SPB 1600	1600	SPC 3150	3150
SPB 1650	1650	SPC 3350	3350
SPB 1700	1700	SPC 3550	3550
SPB 1750	1750	SPC 3750	3750
SPB 1800	1800	SPC 4000	4000
SPB 1850	1850	SPC 4250	4250
SPB 1900	1900	SPC 4500	4500
SPB 1950	1950	SPC 4750	4750
SPB 2000	2000	SPC 5000	5000
SPB 2060	2060	SPC 5300	5300
SPB 2120	2120	SPC 5600	5600
SPB 2180	2180	SPC 6000	6000
SPB 2240	2240	SPC 6300	6300
SPB 2300	2300	SPC 6700	6700
SPB 2360	2360	SPC 7100	7100
SPB 2430	2430	SPC 7500	7500
SPB 2500	2500	SPC 8000	8000
SPB 2580	2580	SPC 8500	8500
SPB 2650	2650	SPC 9000	9000
SPB 2720	2720	SPC 9500	9500
SPB 2800	2800	SPC 10000	10000
SPB 2900	2900	SPC 10600	10600
SPB 3000	3000	SPC 11200	11200
SPB 3150	3150		
SPB 3250	3250		
SPB 3350	3350		
SPB 3450	3450		
SPB 3550	3550		
SPB 3650	3650		
SPB 3750	3750		
SPB 3870	3870		
SPB 4000	4000		
SPB 4120	4120		
SPB 4250	4250		
SPB 4370	4370		
SPB 4500	4500		
SPB 4620	4620		
SPB 4750	4750		
SPB 4870	4870		
SPB 5000	5000		
SPB 5300	5300		
SPB 5600	5600		
SPB 6000	6000		
SPB 6300	6300		
SPB 6700	6700		
SPB 7100	7100		
SPB 7500	7500		
SPB 8000	8000		

VulcoPlus™ ordering code is composed as follows:

**SPA732VULCO**

**SPA** - Section  
**732** - Datum length (mm)  
**VULCO** - Product short name

Dimensions in bold are available from stock.



## HEAVY-DUTY V-BELTS

# QUAD-POWER® II POWERBAND®

*Raw edge, narrow section V-belt*

Gates Quad-Power® II PowerBand® offers a smooth running solution for drives where single belts vibrate and a stable position in the pulleys. It consists of several V-belts joined together by a permanent, high strength tie band, thus being tougher than all the belts taken separately. Quad-Power® II PowerBand® is easy to install and offers a high resistance to vibrations.



### Identification

Durable marking indicating type and dimensions.

### Construction

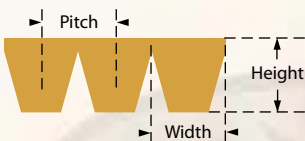
- Narrow cross-section.
- Moulded notch, raw edge construction.
- Strong band controls belt-to-belt distance and prevents sideways bending.
- Flex-bonded tensile cords are vulcanised as one solid unit making the belt highly resistant to tensile and flexing forces, fatigue and shock loads.
- Flat back construction reduces noise when used with a back side idler or tensioner.
- Elastomeric compound protects the belt against heat, ozone and sunlight.
- Static conductive (ISO 1813).



### Advantages

- High stability and smooth running on the toughest drives.
- Better resistance to vibrations.
- Temperature ranges from -30°C to +60°C (higher temperatures for shorter periods).
- Important design economies possible.
- Savings in drive space and weight thanks to high transmission efficiency.

### Sections and nominal dimensions



	Pitch mm	Width mm	Height mm
3VX	10.3	10	8
5VX	17.5	16	13
XPZ	12.0	10	8
XPA	15.0	13	10
XPB	19.0	16	13

	Number of strands			
	2	3	4	5
3VX	x	x	x	x
5VX	x	x	x	x
XPZ		x	x	
XPA	x	x		
XPB	x	x		



3VX		XPZ		XPA		XPB	
Belt reference RMA	Effective length RMA mm	Belt reference ISO	Datum length ISO mm	Belt reference ISO	Datum length ISO mm	Belt reference ISO	Datum length ISO mm
3VX-250	635	XPZ800	800	XPA800	800	XPB1250	1250
3VX-265	675	XPZ850	850	XPA850	850	XPB1320	1320
3VX-280	710	XPZ900	900	XPA900	900	XPB1400	1400
3VX-300	760	XPZ950	950	XPA950	950	XPB1450	1450
3VX-315	800	XPZ1000	1000	XPA1000	1000	XPB1500	1500
3VX-335	850	XPZ1030	1030	XPA1030	1030	XPB1550	1550
3VX-355	900	XPZ1060	1060	XPA1060	1060	XPB1600	1600
3VX-375	950	XPZ1090	1090	XPA1090	1090	XPB1650	1650
3VX-400	1015	XPZ1120	1120	XPA1120	1120	XPB1700	1700
3VX-425	1080	XPZ1150	1150	XPA1150	1150	XPB1750	1750
3VX-450	1145	XPZ1180	1180	XPA1180	1180	XPB1800	1800
3VX-475	1205	XPZ1212	1212	XPA1250	1250	XPB1850	1850
3VX-500	1270	XPZ1250	1250	XPA1320	1320	XPB1900	1900
3VX-530	1345	XPZ1270	1270	XPA1360	1360	XPB1950	1950
3VX-560	1420	XPZ1320	1320	XPA1400	1400	XPB2000	2000
3VX-600	1525	XPZ1340	1340	XPA1450	1450	XPB2120	2120
3VX-630	1600	XPZ1362	1362	XPA1500	1500	XPB2150	2150
3VX-670	1700	XPZ1400	1400	XPA1550	1550	XPB2240	2240
3VX-710	1805	XPZ1420	1420	XPA1600	1600	XPB2280	2280
3VX-750	1905	XPZ1450	1450	XPA1650	1650	XPB2360	2360
3VX-800	2030	XPZ1500	1500	XPA1700	1700	XPB2410	2410
3VX-850	2160	XPZ1550	1550	XPA1750	1750	XPB2500	2500
3VX-900	2285	XPZ1600	1600	XPA1800	1800	XPB2530	2530
3VX-950	2415	XPZ1650	1650	XPA1850	1850	XPB2650	2650
3VX-1000	2540	XPZ1700	1700	XPA1900	1900	XPB2680	2680
3VX-1060	2690	XPZ1750	1750	XPA1950	1950	XPB2800	2800
3VX-1120	2845	XPZ1800	1800	XPA2000	2000	XPB2840	2840
3VX-1180	2995	XPZ1850	1850	XPA2060	2060	XPB3000	3000
3VX-1250	3175	XPZ1900	1900	XPA2120	2120	XPB3150	3150
3VX-1320	3355	XPZ1950	1950	XPA2240	2240	XPB3350	3350
3VX-1400	3555	XPZ2000	2000	XPA2360	2360	XPB3550	3550
		XPZ2030	2030	XPA2430	2430	XPB3750	3750
		XPZ2120	2120	XPA2500	2500	XPB4000	4000
		XPZ2160	2160	XPA2650	2650	XPB4250	4250
		XPZ2240	2240	XPA2800	2800	XPB4500	4500
		XPZ2360	2360	XPA3000	3000	XPB4750	4750
		XPZ2500	2500	XPA3150	3150		
		XPZ2650	2650	XPA3350	3350		
		XPZ2800	2800	XPA3550	3550		
		XPZ3000	3000	XPA3750	3750		
		XPZ3150	3150	XPA4000	4000		
		XPZ3350	3350				
		XPZ3550	3550				

5VX	
Belt reference RMA	Effective length RMA mm
5VX-500	1270
5VX-530	1345
5VX-560	1420
5VX-600	1525
5VX-630	1600
5VX-670	1700
5VX-710	1805
5VX-750	1905
5VX-800	2030
5VX-850	2160
5VX-900	2285
5VX-950	2415
5VX-1000	2540
5VX-1060	2690
5VX-1120	2845
5VX-1180	2995
5VX-1250	3175
5VX-1320	3355
5VX-1400	3555
5VX-1500	3810
5VX-1600	4065
5VX-1700	4320
5VX-1800	4570
5VX-1900	4825
5VX-2000	5080

**Quad-Power® II Powerband® ordering code is composed as follows:**

**XPA1030/2**

- XPA** - Section
- 1030** - Datum length (mm)
- 2** - Number of ribs

**Dimensions in bold are available from stock.**



## HEAVY-DUTY V-BELTS

# SUPER HC® & HI-POWER® POWERBAND®

*Wrapped, narrow section V-belt*

Gates Super HC® PowerBand® offers a solution for drives where single belts vibrate, turn over or jump off the pulleys.

Super HC® PowerBand® is especially developed for drives subjected to pulsating loads. It consists of several V-belts joined together by a permanent, high strength tie band, thus being tougher than all the belts taken separately.

Super HC® PowerBand® is available in SPB, SPC, 8V/25J, 9J and 15J sections. Hi-Power® B, C and D sections are available on request.



### Identification

Durable marking indicating type and dimensions.

### Construction

- Narrow cross-section for Super HC® PowerBand®.
- Wrapped construction.
- Strong band controls belt-to-belt distance and prevents sideways bending.
- Flex-bonded tensile cords are vulcanised as one solid unit making the belt highly resistant to tensile and flexing forces, fatigue and shock loads.
- Concave sides and arched top.
- Flex-Weave® cover protects the belt core from the toughest environments.
- Elastomeric compound protects the belt against heat, ozone and sunlight.
- Static conductive (ISO 1813).



### Advantages

- Better resistance to vibrations.
- High stability and smooth running on the toughest drives.
- Temperature ranges from -30°C to +60°C.
- Important design economies possible.
- Savings in drive space and weight thanks to high transmission efficiency.

### Sections and nominal dimensions



	Pitch mm	Width mm	Height mm
B	19.05	17	10
C	25.40	22	12
D	36.50	32	19
SPB	19.00	16	13
SPC	25.50	22	18

	Pitch mm	Width mm	Height mm
9J	10.30	10	8
15J	17.50	16	13
8V/25J	28.60	26	23

	Number of strands			
	2	3	4	5
8V		x	x	x
9J/15J	x	x	x	x
SPB	x	x	x	x
SPC	x	x	x	x



SPB		9J		15J		8V/25J	
Belt reference	Datum length mm ISO*	Belt reference	Effective length mm ISO	Belt reference	Effective length mm ISO	Belt reference	Effective length mm ISO
SPB 2120	2120	9J 1250	1250	15J 1250	1250	8V 1000	2540
SPB 2240	2240	9J 1320	1320	15J 1320	1320	8V 1060	2690
SPB 2360	2360	9J 1400	1400	15J 1400	1400	8V 1120	2845
SPB 2500	2500	9J 1500	1500	15J 1500	1500	8V 1180	2995
SPB 2650	2650	9J 1600	1600	15J 1600	1600	8V 1250	3175
SPB 2800	2800	9J 1700	1700	15J 1700	1700	8V 1320	3355
SPB 3000	3000	9J 1800	1800	15J 1800	1800	8V 1400	3555
SPB 3150	3150	9J 1900	1900	15J 1900	1900	8V 1500	3810
SPB 3350	3350	9J 2000	2000	15J 2000	2000	8V 1600	4065
SPB 3550	3550	9J 2120	2120	15J 2120	2120	8V 1700	4320
SPB 3750	3750	9J 2240	2240	15J 2240	2240	8V 1800	4570
SPB 4000	4000	9J 2360	2360	15J 2360	2360	8V 1900	4825
SPB 4250	4250	9J 2500	2500	15J 2500	2500	8V 2000	5080
SPB 4500	4500	9J 2650	2650	15J 2650	2650	8V 2120	5385
SPB 4750	4750	9J 2800	2800	15J 2800	2800	8V 2240	5690
SPB 5000	5000	9J 3000	3000	15J 3000	3000	8V 2360	5995
SPB 5300	5300	9J 3150	3150	15J 3150	3150	8V 2500	6350
SPB 5600	5600	9J 3350	3350	15J 3350	3350	8V 2650	6730
SPB 6000	6000	9J 3550	3550	15J 3550	3550	8V 2800	7110
SPB 6300	6300			15J 3750	3750	8V 3000	7620
SPB 6700	6700			15J 4000	4000	8V 3150	8000
SPB 7100	7100			15J 4250	4250	8V 3350	8510
SPB 7500	7500			15J 4500	4500	8V 3550	9015
SPB 8000	8000			15J 4750	4750	8V 3750	9525
				15J 5000	5000	8V 4000	10160
				15J 5300	5300	8V 4250	10795
				15J 5600	5600	8V 4500	11430
				15J 6000	6000	8V 4750	12065
				15J 6300	6300	8V 5000	12700
				15J 6700	6700	8V 5600	14225
				15J 7100	7100	8V 6000	15240
				15J 7500	7500		
				15J 8000	8000		
				15J 9000	9000		

SPC	
Belt reference	Datum length mm ISO*
SPC 3000	3000
SPC 3150	3150
SPC 3350	3350
SPC 3550	3550
SPC 3750	3750
SPC 4000	4000
SPC 4250	4250
SPC 4500	4500
SPC 4750	4750
SPC 5000	5000

\* Dimensions according to ISO 4184.

Hi-Power® PowerBand® B, C and D sections are available on request.

9J / 15J / 25J are ISO standards for RMA 3V-PB / 5V-PB / 8V-PB.

8VK sizes with aramid cord are available on special request.

8V PowerBand® belts are designed for use both in 8V and 25J pulleys.

**Super HC® Powerband® ordering code is composed as follows:**

**9J1250/2**

- 9J** - Section
- 1250** - Effective length (mm)
- 2** - Number of ribs

**Dimensions in bold are available from stock.**





## V-BELTS FOR BACK IDLER AND CLUTCHING APPLICATIONS

# POWERATED®

## Green textile wrapped V-belt

Powerated® V-belt is recommended for heavy-duty drives and clutching applications.

The Powerated® V-belt meets the requirements of high power, clutching, heavy shock loaded and back idler driven lawn and garden equipment.



### Identification

Durable moulded marking plus green cover designating Powerated® as a special capacity belt.

### Construction

- Aramid tensile cords.
- Low cord positioning in thin profile gives extreme flexibility.
- Special heavy-duty cord reinforcement and low friction wrapping provide smooth clutching operation.
- Fabric reinforcement on the bottom ensures high crack resistance if back idler is used.

### Advantages

- Smooth clutching and disengaging.
- Length stability.
- Special shock resistance.
- Special bending and crack resistance.

### Sections and nominal dimensions



	Width inch	Height inch
3L	3/8	7/32
4L	1/2	5/16
5L	21/32	3/8



3L			4L						5L					
3/8" nominal top width			1/2" nominal top width						21/32" nominal top width					
Outside length		Belt ref.	Outside length		Belt ref.	Outside length		Belt ref.	Outside length		Belt ref.	Outside length		Belt ref.
inch	mm		inch	mm		inch	mm		inch	mm		inch	mm	
16	406	6716	17	432	6817	86	2184	6886	25	635	6925	81	2057	6981
17	432	6717	18	457	6818	87	2210	6887	26	660	6926	82	2083	6982
18	457	6718	19	483	6819	88	2235	6888	27	686	6927	83	2108	6983
19	483	6719	20	508	6820	89	2261	6889	28	711	6928	84	2134	6984
20	508	6720	21	533	6821	90	2286	6890	29	737	6929	85	2159	6985
21	533	6721	22	559	6822	91	2311	6891	30	762	6930	86	2184	6986
22	559	6722	23	584	6823	92	2337	6892	31	787	6931	87	2210	6987
23	584	6723	24	610	6824	93	2362	6893	32	813	6932	88	2235	6988
24	610	6724	25	635	6825	94	2388	6894	33	838	6933	89	2261	6989
25	635	6725	26	660	6826	95	2413	6895	34	864	6934	90	2286	6990
26	660	6726	27	686	6827	96	2438	6896	35	889	6935	91	2311	6991
27	686	6727	28	711	6828	97	2464	6897	36	914	6936	92	2337	6992
28	711	6728	29	737	6829	98	2489	6898	37	940	6937	93	2362	6993
29	737	6729	30	762	6830	99	2515	6899	38	969	6938	94	2388	6994
30	762	6730	31	787	6831				39	991	6939	95	2413	6995
31	787	6731	32	813	6832				40	1016	6940	96	2438	6996
32	813	6732	33	838	6833				41	1041	6941	97	2464	6997
33	838	6733	34	864	6834				42	1067	6942	98	2489	6998
34	864	6734	35	889	6835				43	1092	6943	99	2515	6999
35	889	6735	36	914	6836				44	1118	6944			
36	914	6736	37	940	6837				45	1143	6945			
37	940	6737	38	969	6838				46	1168	6946			
38	965	6738	39	991	6839				47	1194	6947			
39	991	6739	40	1016	6840				48	1219	6948			
40	1016	6740	41	1041	6841				49	1245	6949			
41	1041	6741	42	1067	6842				50	1270	6950			
42	1067	6742	43	1092	6843				51	1295	6951			
43	1092	6743	44	1118	6844				52	1321	6952			
44	1118	6744	45	1143	6845				53	1346	6953			
45	1143	6745	46	1168	6846				54	1372	6954			
46	1168	6746	47	1194	6847				55	1397	6955			
47	1194	6747	48	1219	6848				56	1422	6956			
48	1219	6748	49	1245	6849				57	1448	6957			
49	1245	6749	50	1270	6850				58	1473	6958			
50	1270	6750	51	1295	6851				59	1499	6959			
61	1549	6761	52	1321	6852				60	1524	6960			
			53	1346	6853				61	1549	6961			
			54	1372	6854				62	1575	6962			
			55	1397	6855				63	1600	6963			
			56	1422	6856				64	1626	6964			
			57	1448	6857				65	1651	6965			
			58	1473	6858				66	1676	6966			
			59	1499	6859				67	1702	6967			
			60	1524	6860				68	1727	6968			
			61	1549	6861				69	1753	6969			
			62	1575	6862				70	1778	6970			
			63	1600	6863				71	1803	6971			
			64	1626	6864				72	1829	6972			
			65	1651	6865				73	1854	6973			
			66	1676	6866				74	1880	6974			
			67	1702	6867				75	1905	6975			
			69	1753	6869				76	1930	6976			
			70	1778	6870				77	1956	6977			
			71	1803	6871				78	1981	6978			
			72	1829	6872				79	2007	6979			
			73	1854	6873				80	2032	6980			
			74	1880	6874									
			75	1905	6875									
			76	1930	6876									
			77	1956	6877									
			78	1981	6878									
			79	2007	6879									
			80	2032	6880									
			81	2057	6881									
			82	2083	6882									
			83	2108	6883									
			84	2134	6884									
			85	2159	6885									

NOTE  
The circumference is determined by placing a steel tape around the outside of the belt.

**PowerRated® ordering code is composed as follows:**

**3L16**

**3L** - Section  
**16** - Outside length (inch)

Dimensions in bold are available from stock.



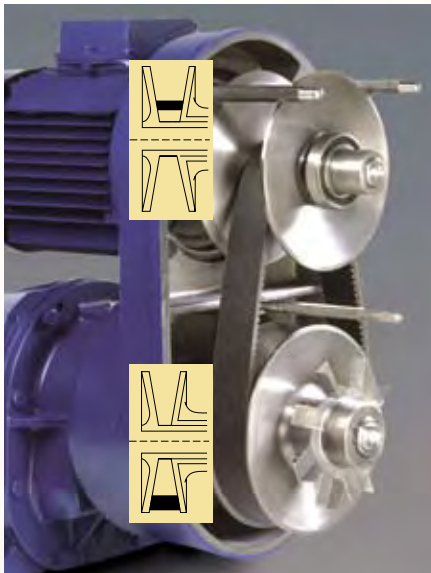
## V-BELTS FOR VARIABLE SPEED DRIVES

# MULTI-SPEED

Raw edge, wide V-belt

Gates Multi-Speed belt provides top performance on variable speed drives. It adjusts itself to the pulley groove without difficulty, providing a wide range of speeds and speed ratios.

In addition to the standard Multi-Speed belt line, special sizes (top width, thickness and angle) are available on request.



### Identification

Durable marking plus printed size.

### Construction

- Engineered notch contour increases flexibility. The notches ensure maximum heat dispersion, considerably decreasing running temperatures.
- Strong transverse rigidity offers high resistance to distortion of the belt in the pulley. This results in even load distribution and wear reduction.
- Uniform composition and thickness of the undercord ensure smooth and silent running.
- Combination of these construction features gives maximum speed adjustment.

### Advantages

- Maximum range of speed changes.
- High load-carrying capacity.
- Smooth machine operation.
- Exceptionally long belt life.

Reference	Special Gates sizes Inside length: mm					Sizes ISO R 1604 Pitch length: mm						
	13	23	28	37	47	W16	W20	W25	W31.5	W40	W50	W63
Top width (mm)	13	23	28	37	47	17	21	26	33	42	52	65
Thickness (mm)	6	8	9	10	13	6	7	8	10	13	16	20
Angle	26°	26°	26°	28°	28°	24°	26°	26°	26°	28°	28°	30°
	600	525	<b>650</b>	<b>800</b>	1000	<b>630</b>	<b>630</b>	<b>710</b>	<b>900</b>	<b>1120</b>	1400	1800
	<b>700</b>	<b>600</b>	<b>700</b>	<b>850</b>	1060	710	<b>710</b>	<b>800</b>	<b>1000</b>	<b>1250</b>	1600	2000
	800	<b>650</b>	<b>750</b>	<b>900</b>	<b>1120</b>	800	800	<b>900</b>	<b>1120</b>	1400	1800	2240
	900	<b>700</b>	<b>800</b>	<b>950</b>	<b>1180</b>	900	<b>900</b>	<b>1000</b>	<b>1250</b>	1600	2000	2500
		<b>750</b>	<b>850</b>	<b>1000</b>	<b>1250</b>	1000	1000	1120	1400	1700	2240	2800
		<b>800</b>	<b>900</b>	<b>1060</b>	1320		1120	<b>1250</b>	1600	1800	2500	3150
		<b>850</b>	<b>950</b>	<b>1120</b>	<b>1400</b>		1250	1400	1800	2000	2800	
		900	<b>1000</b>	<b>1180</b>	1500			1600	2000	2240	3150	
		950	<b>1060</b>	<b>1250</b>	1600					2500		
		1000	<b>1120</b>	<b>1320</b>	<b>1700</b>							
		1060	<b>1180</b>	<b>1400</b>	<b>1800</b>							
		1120	<b>1250</b>	<b>1500</b>	<b>2000</b>							
		1180	<b>1320</b>	1600	<b>2240</b>							
		1250	<b>1400</b>	1700								
		1320	<b>1500</b>	1800								
		1400	1600	2000								
		1500		2240								

Multi-Speed ordering code is composed as follows:

**W16-630**

**W16** - Standardised cross-section  
**630** - Pitch length (mm)

**23X8-600**

**23** - Standardised cross-section  
**X8** - Thickness (mm)  
**600** - Inside length (mm)

Dimensions in bold are available from stock.



## V-BELTS FOR COMPACT DRIVES

# POLYFLEX® JB™

## Polyurethane multiple V-belt

Polyflex® JB™ is synonymous with high power density in small spaces. Developed by Gates and produced to patented manufacturing processes, Polyflex® JB™ belts provide more load-carrying capacity at higher speeds to small precision multiple V-belt drives. This results in significant cost savings and improved design freedom.

Recommended for use on bench type milling machines, lathe drives, woodworking and metalworking machine spindle drives, computer peripheral equipment, small blowers, etc.

Recently, Gates' Polyflex® JB™ belt range has been extended to include the 3M section.



### Identification

Durable marking indicating type and dimension.

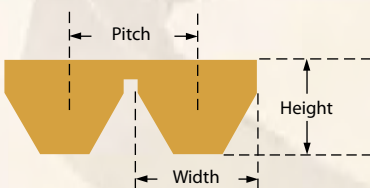
### Construction

- Joined belt construction improves stability.
- Ribs relieve bending stress on small pulleys and provide lateral rigidity.
- 60° angle provides more undercord support to the tensile section and distributes the load more evenly.
- Small cross-section meets special application needs such as high shaft speeds, small drive package size and smooth running requirements.
- High modulus polyurethane compound with a high friction coefficient.
- The precise casting method eliminates overlaps and layers.
- Excellent adhesion of tensile cords and polyurethane compound leads to high fatigue resistance and long belt life.
- Extra toughness. The polyurethane compound resists fatigue, wear and ozone.

### Advantages

- Long belt life on small pulleys and compact drives.
- Greater shaft speeds, up to 30000 rpm.
- High performance and smooth running for precision applications.
- Cost savings and design freedom.
- Avoids vibrations when subjected to shock loads.
- Temperature ranges from -54°C up to +85°C.

### Sections and nominal dimensions



	Pitch mm	Width mm	Height mm
3M-JB	3.35	3	2.28
5M-JB	5.30	5	3.30
7M-JB	8.50	7	5.33
11M-JB	13.20	11	7.06

	Number of strands			
	2	3	4	5
3M-JB	x	x		
5M-JB	x	x	x	x
7M-JB	x	x	x	x
11M-JB	x	x		



3M-JB		5M-JB		7M-JB		11M-JB	
Belt reference	Effective length mm	Belt reference	Effective length mm	Belt reference	Effective length mm	Belt reference	Effective length mm
3M-JB 175	175	5M-JB 280	280	7M-JB 500	490	11M-JB 710	692
3M-JB 180	180	5M-JB 290	290	7M-JB 515	505	11M-JB 730	712
3M-JB 185	185	5M-JB 300	300	7M-JB 530	520	11M-JB 750	732
3M-JB 190	190	5M-JB 307	307	7M-JB 545	535	11M-JB 775	757
3M-JB 195	195	5M-JB 315	315	7M-JB 560	550	11M-JB 800	782
3M-JB 200	200	5M-JB 325	325	7M-JB 580	570	11M-JB 825	807
3M-JB 206	206	5M-JB 335	335	7M-JB 600	590	11M-JB 850	832
3M-JB 212	212	5M-JB 345	345	7M-JB 615	605	11M-JB 875	857
3M-JB 218	218	5M-JB 355	355	7M-JB 630	620	11M-JB 900	882
3M-JB 224	224	5M-JB 365	365	7M-JB 650	640	11M-JB 925	907
3M-JB 230	230	5M-JB 375	375	7M-JB 670	660	11M-JB 950	932
3M-JB 236	236	5M-JB 387	387	7M-JB 690	680	11M-JB 975	957
3M-JB 243	243	5M-JB 400	400	7M-JB 710	703	11M-JB 1000	982
3M-JB 250	250	5M-JB 412	412	7M-JB 730	723	11M-JB 1030	1012
3M-JB 258	258	5M-JB 425	425	7M-JB 750	743	11M-JB 1060	1042
3M-JB 265	265	5M-JB 437	437	7M-JB 775	768	11M-JB 1090	1072
3M-JB 272	272	5M-JB 450	450	7M-JB 800	793	11M-JB 1120	1102
3M-JB 280	280	5M-JB 462	462	7M-JB 825	818	11M-JB 1150	1132
3M-JB 290	290	5M-JB 475	475	7M-JB 850	843	11M-JB 1180	1162
3M-JB 300	300	5M-JB 487	487	7M-JB 875	868	11M-JB 1220	1202
3M-JB 307	307	5M-JB 500	500	7M-JB 900	893	11M-JB 1250	1232
3M-JB 315	315	5M-JB 515	515	7M-JB 925	918	11M-JB 1280	1262
3M-JB 319	319	5M-JB 530	530	7M-JB 950	943	11M-JB 1320	1302
3M-JB 325	325	5M-JB 545	545	7M-JB 975	968	11M-JB 1360	1342
3M-JB 335	335	5M-JB 560	560	7M-JB 1000	993	11M-JB 1400	1382
3M-JB 345	345	5M-JB 580	580	7M-JB 1030	1023	11M-JB 1450	1432
3M-JB 350	350	5M-JB 600	600	7M-JB 1060	1053	11M-JB 1500	1482
3M-JB 355	355	5M-JB 615	615	7M-JB 1090	1083	11M-JB 1550	1532
3M-JB 365	365	5M-JB 630	630	7M-JB 1120	1113	11M-JB 1600	1582
3M-JB 375	375	5M-JB 650	650	7M-JB 1150	1143	11M-JB 1650	1632
3M-JB 387	387	5M-JB 670	670	7M-JB 1180	1173	11M-JB 1700	1682
3M-JB 400	400	5M-JB 690	690	7M-JB 1220	1213	11M-JB 1750	1732
3M-JB 406	406	5M-JB 710	710	7M-JB 1250	1243	11M-JB 1800	1782
3M-JB 412	412	5M-JB 730	730	7M-JB 1280	1273	11M-JB 1850	1832
3M-JB 425	425	5M-JB 750	750	7M-JB 1320	1313	11M-JB 1900	1882
3M-JB 437	437	5M-JB 775	775	7M-JB 1360	1353	11M-JB 1950	1932
3M-JB 450	450	5M-JB 800	800	7M-JB 1400	1393	11M-JB 2000	1982
3M-JB 462	462	5M-JB 825	825	7M-JB 1450	1443	11M-JB 2060	2042
3M-JB 475	475	5M-JB 850	850	7M-JB 1500	1493	11M-JB 2120	2102
3M-JB 487	487	5M-JB 875	875	7M-JB 1550	1543	11M-JB 2180	2162
3M-JB 500	500	5M-JB 900	900	7M-JB 1600	1593	11M-JB 2240	2222
3M-JB 515	515	5M-JB 925	925	7M-JB 1650	1643	11M-JB 2300	2282
3M-JB 530	530	5M-JB 950	950	7M-JB 1700	1693		
3M-JB 545	545	5M-JB 975	975	7M-JB 1750	1743		
3M-JB 553	553	5M-JB 1000	1000	7M-JB 1800	1793		
3M-JB 560	560	5M-JB 1030	1030	7M-JB 1850	1843		
3M-JB 580	580	5M-JB 1060	1060	7M-JB 1900	1893		
3M-JB 600	600	5M-JB 1090	1090	7M-JB 1950	1943		
3M-JB 615	615	5M-JB 1120	1120	7M-JB 2000	1993		
3M-JB 630	630	5M-JB 1150	1150	7M-JB 2060	2053		
3M-JB 650	650	5M-JB 1180	1180	7M-JB 2120	2113		
3M-JB 670	670	5M-JB 1220	1220	7M-JB 2180	2173		
3M-JB 690	690	5M-JB 1250	1250	7M-JB 2240	2233		
3M-JB 710	710	5M-JB 1280	1280	7M-JB 2300	2293		
3M-JB 730	730	5M-JB 1320	1320				
3M-JB 750	750	5M-JB 1360	1360				
		5M-JB 1400	1400				
		5M-JB 1450	1450				
		5M-JB 1500	1500				

**Polyflex® JB™ ordering code is composed as follows:**

**5M1000/3**

- 5M** - Rib width 5 mm
- 1000** - Effective length (mm)
- 3** - Number of ribs

**Dimensions in bold are available from stock.**



## V-BELTS FOR COMPACT DRIVES

# POLYFLEX®

### Polyurethane V-belt

This compact and strong belt with nominal top width from 3 mm to 11 mm transmits more power and allows high speed ratios. Polyflex® is suited for extremely small diameter pulleys and very compact drives with high rotational speeds.

Ideal for use on machines and machine tools requiring high performance and smooth operation in limited space such as bench type milling machines, lathe drives, woodworking and metalworking machine spindle drives, computer peripheral equipment, small blowers, etc.



#### Identification

Durable marking indicating type and dimension.

#### Construction

- Polyurethane compound, superior to conventional belt materials, offers high fatigue and wear resistance and a high friction coefficient. It also improves adhesion to the tensile cords.
- Polyurethane is extremely resistant to heat, chemicals and oil.
- Uniformity throughout Polyflex® is ensured because the polyurethane compound is not layered but cast as a single unit after the positioning of the tensile cords in the mould.
- Ribbed top provides lateral rigidity without increasing bending stresses. The ribs also help to keep Polyflex® belts running cool.
- 60° angle results in better support of the tensile section, and provides a more even load distribution.

#### Advantages

- Design freedom and space savings which are not possible with conventional rubber construction belts.
- Low maintenance cost as belt needs less retensioning.
- Long belt life on compact drives.
- Temperature ranges from -54°C up to +85°C.

#### Sections and nominal dimensions



	Width mm	Height mm
3M	3	2.28
5M	5	3.30
7M	7	5.33
11M	11	6.85



3M	5M	7M	11M
Belt reference	Belt reference	Belt reference	Belt reference
3M 180	5M 280	7M 500	11M 710
3M 185	5M 290	7M 515	11M 730
3M 190	5M 300	7M 530	11M 750
3M 195	5M 307	7M 545	11M 775
3M 200	5M 315	7M 560	11M 800
3M 206	5M 325	7M 580	11M 825
3M 212	5M 335	7M 600	11M 850
3M 218	5M 345	7M 615	11M 875
3M 224	5M 355	7M 630	11M 900
3M 230	5M 365	7M 650	11M 925
3M 236	5M 375	7M 670	11M 950
3M 243	5M 387	7M 690	11M 975
3M 250	5M 400	7M 710	11M 1000
3M 258	5M 412	7M 730	11M 1030
3M 265	5M 425	7M 750	11M 1060
3M 272	5M 437	7M 775	11M 1090
3M 280	5M 450	7M 800	11M 1120
3M 290	5M 462	7M 825	11M 1150
3M 300	5M 475	7M 850	11M 1180
3M 307	5M 487	7M 875	11M 1220
3M 315	5M 500	7M 900	11M 1250
3M 325	5M 515	7M 925	11M 1280
3M 335	5M 530	7M 950	11M 1320
3M 345	5M 545	7M 975	11M 1360
3M 355	5M 560	7M 1000	11M 1400
3M 365	5M 580	7M 1030	11M 1450
3M 375	5M 600	7M 1060	11M 1500
3M 387	5M 615	7M 1090	11M 1550
3M 400	5M 630	7M 1120	11M 1600
3M 412	5M 650	7M 1150	11M 1650
3M 425	5M 670	7M 1180	11M 1700
3M 437	5M 690	7M 1220	11M 1750
3M 450	5M 710	7M 1250	11M 1800
3M 462	5M 730	7M 1280	11M 1850
3M 475	5M 750	7M 1320	11M 1900
3M 487	5M 775	7M 1360	11M 1950
3M 500	5M 800	7M 1400	11M 2000
3M 515	5M 825	7M 1450	11M 2060
3M 530	5M 850	7M 1500	11M 2120
3M 545	5M 875	7M 1550	11M 2180
3M 560	5M 900	7M 1600	11M 2240
3M 580	5M 925	7M 1650	11M 2300
3M 600	5M 950	7M 1700	
3M 615	5M 975	7M 1750	
3M 630	5M 1000	7M 1800	
3M 650	5M 1030	7M 1850	
3M 670	5M 1060	7M 1900	
3M 690	5M 1090	7M 1950	
3M 710	5M 1120	7M 2000	
3M 730	5M 1150	7M 2060	
3M 750	5M 1180	7M 2120	
	5M 1220	7M 2180	
	5M 1250	7M 2240	
	5M 1280	7M 2300	
	5M 1320		
	5M 1360		
	5M 1400		
	5M 1450		
	5M 1500		
	5M 1600		
	5M 1650		
	5M 1850		

Polyflex® ordering code is composed as follows:

**3M600**

**3M** - Rib width 3 mm

**600** - Effective length (mm)

Dimensions in bold are available from stock.



## HEAVY-DUTY V-BELTS

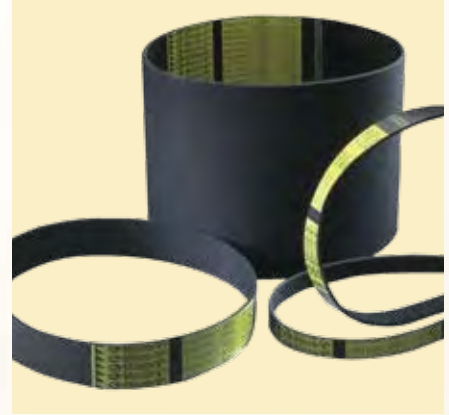
# MICRO-V®

Multi-ribbed belt

Through its truncated rib design, Gates Micro-V® multi-ribbed belt ensures an outstanding performance at higher speeds on smaller diameter pulleys.

This smooth-running belt provides a power capacity increase up to 80% higher than RMA standards.

The Micro-V® size range comprises more than 125 standard effective lengths covering a multitude of applications.



### Identification

Durable yellow marking indicating type and dimension.

### Construction

- Truncated ribs ensure flexibility, reduce heat buildup and improve rib crack resistance.
- High modulus, low stretch polyester tensile member provides superior resistance to fatigue and shock loads.
- All elastomeric rubber compound provides oil and heat resistance.
- Specially formulated fibre reinforced undercord stock improves belt stability.

### Advantages

- Extremely smooth and cool running.
- Very high power capacity per rib.
- Long life due to extra load-carrying capacity.
- Improved performance on back idlers.
- Smaller drive package.
- Tolerant of pulley groove debris.

### Sections and nominal dimensions



	Pitch $S_g$ mm	Height $h_b$ mm
PJ	2.34	3.6
PL	4.70	6.4
PM	9.40	12.5

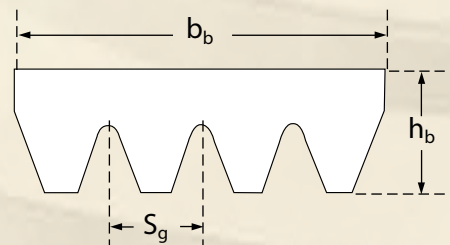
Micro-V® belts are available in PJ, PL and PM cross-sections. The figure below shows a cross-sectional view illustrating the nominal belt dimensions — rib width and belt height. All these belts will operate in standard pulleys provided the pulleys are manufactured to the DIN 7867 or ISO 9982 standard for the specific cross-section.

#### Nominal top width:

$$b_b = N_r \times S_g$$

Where:  $N_r$  = number of ribs

$S_g$  = pulley groove spacing







PJ		
Belt reference		Effective length
DIN7876	RMA	mm DIN/ISO
PJ 406	160 J	406
PJ 432	170 J	432
PJ 457	180 J	457
PJ 483	190 J	483
PJ 508	200 J	508
PJ 559	220 J	559
PJ 584	230 J	584
PJ 610	240 J	610
PJ 660	260 J	660
PJ 711	280 J	711
PJ 723	285 J	723
PJ 737	290 J	737
PJ 762	300 J	762
PJ 813	320 J	813
PJ 838	330 J	838
PJ 864	340 J	864
PJ 914	360 J	914
PJ 955	376 J	955
PJ 965	380 J	965
PJ 1016	400 J	1016
PJ 1041	410 J	1041
PJ 1067	420 J	1067
PJ 1092	430 J	1092
PJ 1105	435 J	1105
PJ 1110	437 J	1110
PJ 1118	440 J	1118
PJ 1123	442 J	1123
PJ 1130	445 J	1130
PJ 1136	447 J	1136
PJ 1150	453 J	1150
PJ 1168	460 J	1168
PJ 1194	470 J	1194
PJ 1200	473 J	1200
PJ 1222	480 J	1222
PJ 1233	485 J	1233
PJ 1244	490 J	1244
PJ 1262	497 J	1262
PJ 1270	500 J	1270
PJ 1280	504 J	1280
PJ 1300	512 J	1300
PJ 1309	515 J	1309
PJ 1321	520 J	1321
PJ 1333	525 J	1333
PJ 1355	534 J	1355
PJ 1371	540 J	1371
PJ 1397	550 J	1397
PJ 1428	562 J	1428
PJ 1439	567 J	1439
PJ 1473	580 J	1473
PJ 1549	610 J	1549
PJ 1600	630 J	1600
PJ 1651	650 J	1651
PJ 1663	655 J	1663
PJ 1752	690 J	1752
PJ 1854	730 J	1854
PJ 1895	746 J	1895
PJ 1910	752 J	1910
PJ 1930	760 J	1930
PJ 1956	770 J	1956
PJ 1981	780 J	1981
PJ 1992	784 J	1992
PJ 2083	820 J	2083
PJ 2210	870 J	2210
PJ 2337	920 J	2337
PJ 2489	980 J	2489

PL		
Belt reference		Effective length
DIN7876	RMA	mm DIN/ISO
PL 954	375 L	954
PL 991	390 L	991
PL 1075	423 L	1075
PL 1270	500 L	1270
PL 1333	525 L	1333
PL 1371	540 L	1371
PL 1397	550 L	1397
PL 1422	560 L	1422
PL 1562	615 L	1562
PL 1613	635 L	1613
PL 1664	655 L	1664
PL 1715	675 L	1715
PL 1765	695 L	1765
PL 1803	710 L	1803
PL 1842	725 L	1842
PL 1943	765 L	1943
PL 1981	780 L	1981
PL 2019	795 L	2019
PL 2070	815 L	2070
PL 2096	825 L	2096
PL 2134	840 L	2134
PL 2197	865 L	2197
PL 2235	880 L	2235
PL 2324	915 L	2324
PL 2362	930 L	2362
PL 2476	975 L	2476
PL 2515	990 L	2515
PL 2705	1065 L	2705
PL 2743	1080 L	2743
PL 2845	1120 L	2845
PL 2896	1140 L	2896
PL 2921	1150 L	2921
PL 2997	1180 L	2997
PL 3086	1215 L	3086
PL 3124	1230 L	3124
PL 3289	1295 L	3289
PL 3327	1310 L	3327
PL 3493	1375 L	3493
PL 3696	1455 L	3696

PM		
Belt reference		Effective length
DIN7876	RMA	mm DIN/ISO
PM 2286	900 M	2286
PM 2388	940 M	2388
PM 2515	990 M	2515
PM 2693	1060 M	2693
PM 2832	1115 M	2832
PM 2921	1150 M	2921
PM 3010	1185 M	3010
PM 3124	1230 M	3124
PM 3327	1310 M	3327
PM 3531	1390 M	3531
PM 3734	1470 M	3734
PM 4089	1610 M	4089
PM 4191	1650 M	4191
PM 4470	1760 M	4470
PM 4648	1830 M	4648
PM 5029	1980 M	5029
PM 5410	2130 M	5410
PM 6121	2410 M	6121
PM 6502	2560 M	6502
PM 6883	2710 M	6883
PM 7646	3010 M	7646
PM 8408	3310 M	8408
PM 9169	3610 M	9169
PM 9931	3910 M	9931

Micro-V® ordering code is composed as follows:

**PL954/65**

- PL** - Section
- 954** - Effective length (mm)
- 65** - Number of ribs

Dimensions in bold are available from stock.



# POLY CHAIN® GT2

Synchronous belt in polyurethane

Poly Chain® GT2, Gates' most powerful synchronous belt, has been designed for optimum performance on high torque, low speed drives in any industrial application. This lightweight belt features increased power ratings of up to 40% higher than previous constructions, while maintaining the same long service life.

Poly Chain® GT2 belts operate on Poly Chain® GT pulleys and do not require any adaptation of the system.

The Poly Chain® GT2 belt construction is based on innovative state-of-the-art design. The body and teeth of the belt are made of a unique polyurethane compound, making the belt tough and virtually immune to abrasion and chemical attack.

Poly Chain® GT2 belts make an excellent alternative to roller chains, requiring neither retensioning nor lubrication. Space-saving, weight-saving and money-saving, Poly Chain® GT2 drives offer a long and reliable service life.

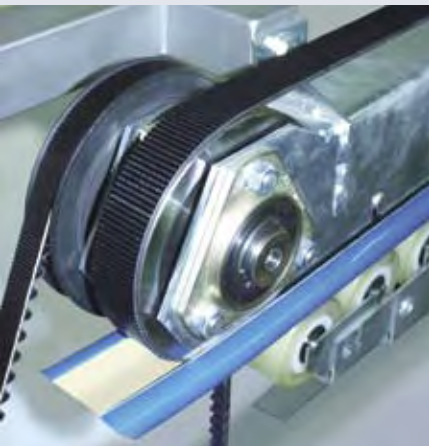


### Identification

Three part number on the back of the belt indicating pitch code, pitch length and width.

### Construction

- Teeth and body are made of a lightweight polyurethane compound, specially blended for adhesion to the cords and fabric. This uniquely formulated polyurethane makes the belt tough and virtually immune to abrasion and chemicals.
- The aramid tensile cords provide extraordinary power-carrying capacity.
- Flex fatigue life of aramid is exceptional, and its high impact strength withstands shocks and surge loading.
- The fabric covering the teeth is highly resistant to oil, chemicals, pollutants, corrosion and abrasion. It is exceptionally durable and remains fully operational under extreme temperatures from -54°C up to +85°C.
- The fabric facing reduces friction with the pulley, thereby minimising temperature build-up.



### Advantages

- Substantially increased power rating.
- High efficiency positive drive.
- Maintenance-free: no lubrication or retensioning needed.
- Savings in space, weight and money.

### Sections and nominal dimensions



	Pitch mm	T mm	B mm
8MGT	8.0	3.4	5.9
14MGT	14.0	6.0	10.2

NOTE

For correct usage of the belt, please request Gates' Poly Chain® GT2 Drive Design Manual (E2/20109).



8MGT		
Pitch: 8 mm		
Pitch and length designation	Pitch length mm	Number of teeth
8MGT 640	640	80
8MGT 720	720	90
8MGT 800	800	100
8MGT 896	896	112
8MGT 960	960	120
8MGT 1000	1000	125
8MGT 1040	1040	130
8MGT 1120	1120	140
8MGT 1200	1200	150
8MGT 1224	1224	153
8MGT 1280	1280	160
8MGT 1440	1440	180
8MGT 1600	1600	200
8MGT 1760	1760	220
8MGT 1792	1792	224
8MGT 2000	2000	250
8MGT 2200	2200	275
8MGT 2240	2240	280
8MGT 2400	2400	300
8MGT 2520	2520	315
8MGT 2600	2600	325
8MGT 2800	2800	350
8MGT 2840	2840	355
8MGT 3048	3048	381
8MGT 3200	3200	400
8MGT 3280	3280	410
8MGT 3600	3600	450
8MGT 4000	4000	500
8MGT 4400	4400	550
8MGT 4480	4480	560

Available in widths of 12 mm, 21 mm, 36 mm and 62 mm.

14MGT		
Pitch: 14 mm		
Pitch and length designation	Pitch length mm	Number of teeth
14MGT 994	994	71
14MGT 1120	1120	80
14MGT 1190	1190	85
14MGT 1260	1260	90
14MGT 1400	1400	100
14MGT 1568	1568	112
14MGT 1610	1610	115
14MGT 1750	1750	125
14MGT 1890	1890	135
14MGT 1960	1960	140
14MGT 2100	2100	150
14MGT 2240	2240	160
14MGT 2310	2310	165
14MGT 2380	2380	170
14MGT 2450	2450	175
14MGT 2520	2520	180
14MGT 2590	2590	185
14MGT 2660	2660	190
14MGT 2800	2800	200
14MGT 3136	3136	224
14MGT 3304	3304	236
14MGT 3360	3360	240
14MGT 3500	3500	250
14MGT 3850	3850	275
14MGT 3920	3920	280
14MGT 4326	4326	309
14MGT 4410	4410	315

Available in widths of 20 mm, 37 mm, 68 mm, 90 mm and 125 mm.

**Poly Chain® GT2 ordering code is composed as follows:**

**8MGT-640-12**

- 8MGT** - Pitch 8 mm
- 640** - Pitch length (mm)
- 12** - Belt width (mm)

## MINI POLY CHAIN®

### Synchronous belt with 8 mm, GT tooth profile



This compact polyurethane synchronous belt opens up new opportunities in the design of conveyor drives and is an alternative to roller chains.

Poly Chain® GT does not require lubrication or tensioning and is characterised by low noise levels even at high transport speeds. The special construction is highly resistant to aggressive influences such as dust, oil and chemicals.

8M		
Pitch: 8 mm		
Pitch and length designation	Pitch length mm	Number of teeth
8M-248	248	32
8M-288	288	36
8M-352	352	44
8M-416	416	52
8M-456	456	57
8M-480	480	60
8M-544	544	68
8M-608	608	76

Available in widths of 11.2 mm, 21 mm and 36 mm.

**Mini Poly Chain® GT ordering code is composed as follows:**

**8M-352-11.2**

- 8M** - Pitch 8 mm
- 352** - Pitch length (mm)
- 11.2** - Belt width (mm)

Dimensions in bold are available from stock.



## PULLEYS

# POLY CHAIN® GT

## Poly Chain® GT pulley specifications



### 8M

Pulley designation	Outside diameter mm	Pulley designation	Outside diameter mm
<b>12 mm width</b>		<b>36 mm width</b>	
8M - 22S-12	54.42	8M - 25S-36	62.06
8M - 25S-12	62.06	8M - 28S-36	69.70
8M - 28S-12	69.70	8M - 30S-36	74.79
8M - 30S-12	74.79	8M - 32S-36	79.89
8M - 32S-12	79.89	8M - 34S-36	84.98
8M - 34S-12	84.98	8M - 36S-36	90.07
8M - 36S-12	90.07	8M - 38S-36	95.17
8M - 38S-12	95.17	8M - 40S-36	100.26
8M - 40S-12	100.26	8M - 45S-36	112.99
8M - 45S-12	112.99	8M - 48S-36	120.63
8M - 48S-12	120.63	8M - 50S-36	125.72
8M - 50S-12	125.72	8M - 56S-36	141.00
8M - 56S-12	141.00	8M - 60S-36	151.19
8M - 60S-12	151.19	8M - 64S-36	161.37
8M - 64S-12	161.37	8M - 75S-36	189.39
8M - 75S-12	189.39	8M - 80S-36	202.12
8M - 80S-12	202.12	8M - 90S-36	227.58
8M - 90S-12	227.58	8M - 112S-36	283.61
		8M - 140S-36	354.91
		8M - 168S-36	426.21
		8M - 192S-36	487.32

Pulley designation	Outside diameter mm	Pulley designation	Outside diameter mm
<b>21 mm width</b>		<b>62 mm width</b>	
8M - 22S-21	54.42	8M - 30S-62	74.79
8M - 25S-21	62.06	8M - 32S-62	79.89
8M - 28S-21	69.70	8M - 34S-62	84.98
8M - 30S-21	74.79	8M - 36S-62	90.07
8M - 32S-21	79.89	8M - 38S-62	95.17
8M - 34S-21	84.98	8M - 40S-62	100.26
8M - 36S-21	90.07	8M - 45S-62	112.99
8M - 38S-21	95.17	8M - 48S-62	120.63
8M - 40S-21	100.26	8M - 50S-62	125.72
8M - 45S-21	112.99	8M - 56S-62	141.00
8M - 48S-21	120.63	8M - 60S-62	151.19
8M - 50S-21	125.72	8M - 64S-62	161.37
8M - 56S-21	141.00	8M - 75S-62	189.39
8M - 60S-21	151.19	8M - 80S-62	202.12
8M - 64S-21	161.37	8M - 90S-62	227.58
8M - 75S-21	189.39	8M - 112S-62	283.61
8M - 80S-21	202.12	8M - 140S-62	354.91
8M - 90S-21	227.58	8M - 168S-62	426.21
8M - 112S-21	283.61	8M - 192S-62	487.32
8M - 140S-21	354.91		

### 14M

Pulley designation	Outside diameter mm	Pulley designation	Outside diameter mm
<b>20 mm width</b>		<b>68 mm width</b>	
14M - 28S-20	121.98	14M - 34S-68	148.72
14M - 30S-20	130.89	14M - 36S-68	157.63
14M - 32S-20	139.80	14M - 38S-68	166.54
14M - 34S-20	148.72	14M - 40S-68	175.45
14M - 36S-20	157.63	14M - 44S-68	193.28
14M - 38S-20	166.54	14M - 48S-68	211.11
14M - 40S-20	175.45	14M - 50S-68	220.02
14M - 44S-20	193.28	14M - 56S-68	246.76
14M - 48S-20	211.11	14M - 60S-68	264.58
14M - 50S-20	220.02	14M - 64S-68	282.41
14M - 56S-20	246.76	14M - 72S-68	318.06
14M - 60S-20	264.58	14M - 80S-68	353.71
14M - 64S-20	282.41	14M - 90S-68	398.27
14M - 72S-20	318.06	14M - 112S-68	496.31
14M - 80S-20	353.71	14M - 140S-68	621.09
14M - 90S-20	398.27		
14M - 112S-20	496.31		
14M - 140S-20	621.09		

Pulley designation	Outside diameter mm	Pulley designation	Outside diameter mm
<b>37 mm width</b>		<b>90 mm width</b>	
14M - 28S-37	121.98	14M - 36S-90	157.63
14M - 30S-37	130.89	14M - 38S-90	166.50
14M - 32S-37	139.80	14M - 40S-90	175.45
14M - 34S-37	148.72	14M - 44S-90	193.28
14M - 36S-37	157.63	14M - 48S-90	211.11
14M - 38S-37	166.54	14M - 50S-90	220.02
14M - 40S-37	175.45	14M - 56S-90	246.76
14M - 44S-37	193.28	14M - 60S-90	264.58
14M - 48S-37	211.11	14M - 64S-90	282.41
14M - 50S-37	220.02	14M - 72S-90	318.06
14M - 56S-37	246.76	14M - 80S-90	353.71
14M - 60S-37	264.58	14M - 90S-90	398.27
14M - 64S-37	282.41	14M - 112S-90	496.31
14M - 72S-37	318.06	14M - 140S-90	621.09
14M - 80S-37	353.71	14M - 168S-90	745.87
14M - 90S-37	398.27	14M - 192S-90	852.82
14M - 112S-37	496.31		
14M - 140S-37	621.09		
14M - 168S-37	745.87		
14M - 192S-37	852.82		

Pulley designation	Outside diameter mm
<b>125 mm width</b>	
14M - 38S-125	166.54
14M - 40S-125	175.45
14M - 44S-125	193.28
14M - 48S-125	211.11
14M - 50S-125	220.02
14M - 56S-125	246.76
14M - 60S-125	264.58
14M - 64S-125	282.41
14M - 72S-125	318.06
14M - 80S-125	353.71
14M - 90S-125	398.27
14M - 112S-125	496.31
14M - 140S-125	621.09
14M - 168S-125	745.87
14M - 192S-125	852.82

Poly Chain® GT pulley ordering code is composed as follows:

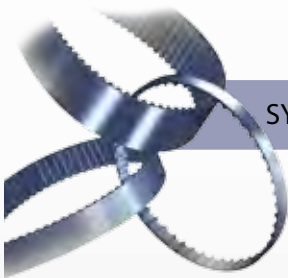
#### 14M-28S-20

<b>14M</b>	- Pitch 14 mm
<b>28S</b>	- Number of teeth
<b>20</b>	- Belt width (mm)

Dimensions in bold are available from stock.



SYNCHRONOUS BELTS FOR SUBSTANTIALLY INCREASED POWER RATING



## POWERGRIP® GT3 8MGT & 14MGT

*Synchronous belt with optimised GT tooth profile*

PowerGrip® GT3 is made of a highly advanced combination of materials. This new, technically advanced belt covers the widest range of industrial applications. The PowerGrip® GT3 synchronous belt transmits up to 30% more power than previous generation belts. This entire belt range is designed to run on existing drives and does not require any adaptation of the system.

The 8MGT and 14MGT pitches are the optimum choice for high performance drives in the machine tool, paper and textile industries where durability and low maintenance are required.



### Identification

Three part number on the back of the belt indicating pitch, belt length and width.

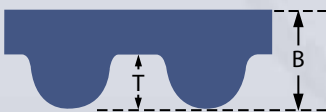
### Construction

- Technically advanced compound with fibreglass tensile cord, elastomeric teeth and backing and nylon facing.
- Elastomeric backing protects the cords from environmental pollution and frictional wear.
- Helically wound tensile member gives enormous strength, flex life and elongation resistance.
- Low friction nylon facing protects the tooth surface against wear.
- Precision-formed and accurately spaced elastomeric teeth.
- Silicone-free and therefore ideal for painting processes. As contamination risks are excluded, it is the ideal belt for painting installations in the automotive industry.

### Advantages

- Substantially increased power ratings: up to 30% more than previous constructions.
- Reduced maintenance costs thanks to longer service life.
- Compact, light-weight and cost-effective drives.
- High tooth jump resistance.
- No lubrication needed.
- Standard static conductive to ISO 9563 and can be used in hazardous explosive areas. Certificates delivered on request.
- Can be used on HTD® type pulleys.

### Sections and nominal dimensions



	Pitch mm	T mm	B mm
8MGT	8.00	3.40	5.60
14MGT	14.00	6.00	10.00

NOTE

For correct usage of the belt please request Gates' Synchronous Belt Drive Design Manual (E2/20099).



## 8MGT

Pitch: 8 mm

Length and pitch designation	Pitch length mm	Number of teeth
384 8MGT	384	48
480 8MGT	480	60
560 8MGT	560	70
600 8MGT	600	75
640 8MGT	640	80
720 8MGT	720	90
800 8MGT	800	100
840 8MGT	840	105
880 8MGT	880	110
920 8MGT	920	115
960 8MGT	960	120
1040 8MGT	1040	130
1064 8MGT	1064	133
1120 8MGT	1120	140
1160 8MGT	1160	145
1200 8MGT	1200	150
1280 8MGT	1280	160
1440 8MGT	1440	180
1512 8MGT	1512	189
1584 8MGT	1584	198
1600 8MGT	1600	200
1760 8MGT	1760	220
1800 8MGT	1800	225
2000 8MGT	2000	250
2400 8MGT	2400	300
2600 8MGT	2600	325
2800 8MGT	2800	350
3048 8MGT	3048	381
3280 8MGT	3280	410
3600 8MGT	3600	450
4400 8MGT	4400	550

Available in widths of 20 mm, 30 mm, 50 mm and 85 mm.

## 14MGT

Pitch: 14 mm

Length and pitch designation	Pitch length mm	Number of teeth
966 14MGT	966	69
1190 14MGT	1190	85
1400 14MGT	1400	100
1610 14MGT	1610	115
1750 14MGT	1750	125
1778 14MGT	1778	127
1890 14MGT	1890	135
2100 14MGT	2100	150
2310 14MGT	2310	165
2450 14MGT	2450	175
2590 14MGT	2590	185
2800 14MGT	2800	200
3150 14MGT	3150	225
3360 14MGT	3360	240
3500 14MGT	3500	250
3850 14MGT	3850	275
4326 14MGT	4326	309
4578 14MGT	4578	327
4956 14MGT	4956	354
5320 14MGT	5320	380
5740 14MGT	5740	410
6160 14MGT	6160	440
6860 14MGT	6860	490

Available in widths of 40 mm, 55 mm, 85 mm, 115 mm and 170 mm.

PowerGrip® GT3 ordering code is composed as follows:

**384-8MGT3-20**

**384** - Pitch length (mm)

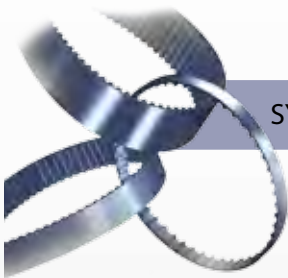
**8MGT3** - Pitch 8 mm

**20** - Belt width (mm)

Dimensions in bold are available from stock.



SYNCHRONOUS BELTS FOR SUBSTANTIALLY INCREASED POWER RATING



# POWERGRIP® GT3 2MGT, 3MGT & 5MGT

Synchronous belt with optimised GT tooth profile

PowerGrip® GT3 is Gates' latest development in synchronous rubber belts. This new, technically advanced belt covers the widest range of industrial applications. The PowerGrip® GT3 synchronous belt transmits up to 30% more power than previous generation belts. This entire belt range is designed to run on existing drives and does not require any adaptation of the system.

The 2MGT, 3MGT and 5MGT pitches are ideal for compact drives on hand tools, business machines, domestic appliances, high precision servomotor drives and multiaxis applications.



### Identification

Three part number on the back of the belt indicating pitch, belt length and width.

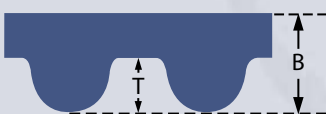
### Construction

- Technically advanced compound with fibreglass tensile cord, elastomeric teeth and backing and nylon facing.
- Elastomeric backing protects the cords from environmental pollution and frictional wear.
- Helically wound tensile member gives enormous strength, flex life and elongation resistance.
- Low friction nylon facing protects the tooth surface against wear.
- Precision-formed and accurately spaced elastomeric teeth.
- 5MGT is silicone-free and therefore ideal for painting processes. As contamination risks are excluded, it is the ideal belt for painting installations in the automotive industry.
- Can be used on GT type pulleys.

### Advantages

- Substantially increased power ratings: up to 30% more than previous constructions.
- Compact drives and less weight.
- Positioning accuracy.
- Improved tooth jump resistance.
- Reduced noise levels.
- Cost-effective, long-lasting and virtually maintenance-free.

### Sections and nominal dimensions



	Pitch mm	T mm	B mm
2MGT	2.00	0.71	1.52
3MGT	3.00	1.12	2.41
5MGT	5.00	1.92	3.81

**NOTE**

For correct usage of the belt please request Gates' Synchronous Belt Drive Design Manual (E2/20099).



## 2MGT

Pitch: 2 mm

Length and pitch designation	Pitch length mm	Number of teeth
74 2MGT	74	37
76 2MGT	76	38
80 2MGT	80	40
90 2MGT	90	45
100 2MGT	100	50
112 2MGT	112	56
124 2MGT	124	62
130 2MGT	130	65
132 2MGT	132	66
134 2MGT	134	67
140 2MGT	140	70
142 2MGT	142	71
152 2MGT	152	76
158 2MGT	158	79
164 2MGT	164	82
168 2MGT	168	84
172 2MGT	172	86
178 2MGT	178	89
180 2MGT	180	90
184 2MGT	184	92
186 2MGT	186	93
192 2MGT	192	96
194 2MGT	194	98
202 2MGT	202	101
208 2MGT	208	104
210 2MGT	210	105
212 2MGT	212	106
216 2MGT	216	108
220 2MGT	220	110
224 2MGT	224	112
232 2MGT	232	116
240 2MGT	240	120
242 2MGT	242	121
250 2MGT	250	125
252 2MGT	252	126
264 2MGT	264	132
274 2MGT	274	137
280 2MGT	280	140
284 2MGT	284	142
286 2MGT	286	143
288 2MGT	288	144
304 2MGT	304	152
310 2MGT	310	155

Length and pitch designation	Pitch length mm	Number of teeth
318 2MGT	318	159
320 2MGT	320	160
322 2MGT	322	161
330 2MGT	330	165
332 2MGT	332	166
336 2MGT	336	168
342 2MGT	342	171
356 2MGT	356	178
364 2MGT	364	182
370 2MGT	370	185
380 2MGT	380	190
386 2MGT	386	193
392 2MGT	392	196
400 2MGT	400	200
406 2MGT	406	203
412 2MGT	412	206
420 2MGT	420	210
428 2MGT	428	214
430 2MGT	430	215
436 2MGT	436	218
466 2MGT	466	233
474 2MGT	474	237
480 2MGT	480	240
488 2MGT	488	244
502 2MGT	502	251
516 2MGT	516	258
534 2MGT	534	267
544 2MGT	544	272
576 2MGT	576	288
580 2MGT	580	290
600 2MGT	600	300
660 2MGT	660	330
690 2MGT	690	345
816 2MGT	816	408
930 2MGT	930	465
1032 2MGT	1032	516
1164 2MGT	1164	582
1386 2MGT	1386	693
1700 2MGT	1700	850
1830 2MGT	1830	915

Available in widths of 3 mm, 6 mm and 9 mm.

## 3MGT

Pitch: 3 mm

Length and pitch designation	Pitch length mm	Number of teeth
105 3MGT	105	35
120 3MGT	120	40
135 3MGT	135	45
144 3MGT	144	48
150 3MGT	150	50
165 3MGT	165	55
174 3MGT	174	58
180 3MGT	180	60
186 3MGT	186	62
192 3MGT	192	64
195 3MGT	195	65
204 3MGT	204	68
210 3MGT	210	70
216 3MGT	216	72
225 3MGT	225	75
231 3MGT	231	77
234 3MGT	234	78
240 3MGT	240	80
243 3MGT	243	81
246 3MGT	246	82
252 3MGT	252	84
255 3MGT	255	85
267 3MGT	267	89
270 3MGT	270	90
276 3MGT	276	92
282 3MGT	282	94
285 3MGT	285	95
288 3MGT	288	96
294 3MGT	294	98
300 3MGT	300	100
303 3MGT	303	101
309 3MGT	309	103
312 3MGT	312	104
324 3MGT	324	108
330 3MGT	330	110
339 3MGT	339	113
354 3MGT	354	118
357 3MGT	357	119
360 3MGT	360	120
363 3MGT	363	121
375 3MGT	375	125

Length and pitch designation	Pitch length mm	Number of teeth
384 3MGT	384	128
387 3MGT	387	129
390 3MGT	390	130
393 3MGT	393	131
399 3MGT	399	133
408 3MGT	408	136
420 3MGT	420	140
426 3MGT	426	142
450 3MGT	450	150
456 3MGT	456	152
480 3MGT	480	160
483 3MGT	483	161
489 3MGT	489	163
495 3MGT	495	165
501 3MGT	501	167
510 3MGT	510	170
513 3MGT	513	171
522 3MGT	522	174
537 3MGT	537	179
540 3MGT	540	180
552 3MGT	552	184
561 3MGT	561	187
564 3MGT	564	188
570 3MGT	570	190
582 3MGT	582	194
588 3MGT	588	196
600 3MGT	600	200
621 3MGT	621	207
630 3MGT	630	210
657 3MGT	657	219
750 3MGT	750	250
840 3MGT	840	280
849 3MGT	849	283
897 3MGT	897	299
1587 3MGT	1587	529
1692 3MGT	1692	564

Available in widths of 6 mm, 9 mm and 15 mm.

## 5MGT

Pitch: 5 mm

Length and pitch designation	Pitch length mm	Number of teeth
200 5MGT	200	40
225 5MGT	225	45
250 5MGT	250	50
265 5MGT	265	53
275 5MGT	275	55
280 5MGT	280	56
285 5MGT	285	57
300 5MGT	300	60
325 5MGT	325	65
330 5MGT	330	66
340 5MGT	340	68
350 5MGT	350	70
360 5MGT	360	72
375 5MGT	375	75
400 5MGT	400	80
410 5MGT	410	82
415 5MGT	415	83
425 5MGT	425	85
450 5MGT	450	90

Length and pitch designation	Pitch length mm	Number of teeth
460 5MGT	460	92
475 5MGT	475	95
490 5MGT	490	98
500 5MGT	500	100
510 5MGT	510	102
525 5MGT	525	105
530 5MGT	530	106
540 5MGT	540	108
550 5MGT	550	110
600 5MGT	600	120
625 5MGT	625	125
650 5MGT	650	130
665 5MGT	665	133
700 5MGT	700	140
750 5MGT	750	150
775 5MGT	775	155
800 5MGT	800	160
850 5MGT	850	170

Length and pitch designation	Pitch length mm	Number of teeth
860 5MGT	860	172
900 5MGT	900	180
950 5MGT	950	190
980 5MGT	980	196
1000 5MGT	1000	200
1050 5MGT	1050	210
1150 5MGT	1150	230
1270 5MGT	1270	254
1500 5MGT	1500	300
2100 5MGT	2100	420
2440 5MGT	2440	488

Available in widths of 9 mm, 15 mm and 25 mm.

PowerGrip® GT3 ordering code is composed as follows:

### 285-5MGT3-9

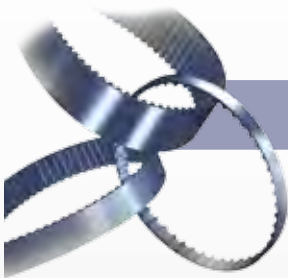
**285** - Pitch length (mm)  
**5MGT3** - Pitch 5 mm  
**9** - Belt width (mm)

Dimensions in bold are available from stock.





## SYNCHRONOUS BELTS FOR HIGH TORQUE DRIVES

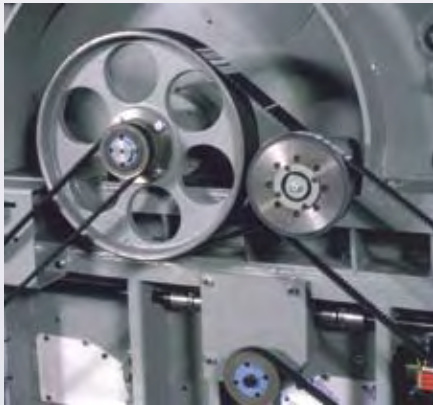
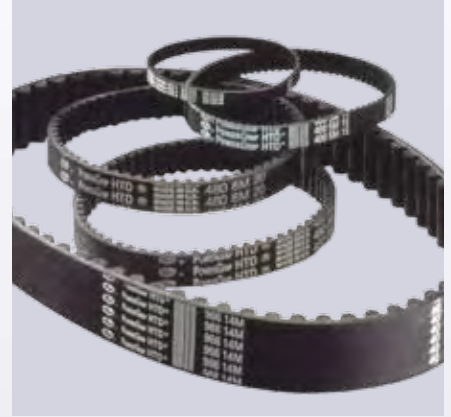


# POWERGRIP® HTD® 8M, 14M & 20M

Synchronous belt with curvilinear tooth profile

The curvilinear PowerGrip® HTD® tooth geometry eliminates stress concentration at tooth roots and allows higher power capacity and longer life.

PowerGrip® HTD® 8M, 14M and 20M belts are used in high performance drives in the machine tool, paper and textile industries where durability and low maintenance are required.



### Identification

Three part number on the back of the belt indicating belt length, pitch and belt width.

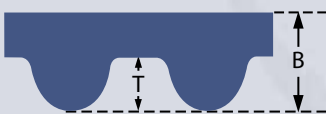
### Construction

- Special curvilinear tooth form improves stress distribution and allows higher overall loading.
- Precisely formed and accurately spaced elastomeric teeth ensure correct positioning in the pulley grooves.
- Tough nylon facing protects the tooth surfaces.
- Tensile member provides the required strength combined with excellent flex life and high resistance to elongation.
- Durable elastomeric backing protects against environmental pollution as well as frictional wear if power is transmitted from the back of the belt.
- 8M and 14M pitch belts conform to ISO 13050.

### Advantages

- Load capacities up to 1000 kW.
- No slippage. PowerGrip® HTD® belt teeth mesh smoothly with pulley grooves, reducing speed variations.
- Wide speed range.
- Economical operation. No lubrication needed, no need for adjustment due to stretch and wear.
- High mechanical efficiency. The belt construction minimises heat buildup and, since friction is not required to transmit the load, belt tensions are reduced.
- Constant driven speeds.
- Long trouble-free service life (because of excellent abrasion resistance) in many applications where metal components like chains and gears wear out in a matter of months.

### Sections and nominal dimensions



	Pitch mm	T mm	B mm
8M	8.0	3.4	6.0
14M	14.0	6.1	10.0
20M	20.0	8.4	13.2

#### NOTE

For correct usage of the belt please request Gates' Synchronous Belt Drive Design Manual (E2/20099).



8M		
Pitch: 8 mm		
Length and pitch designation	Pitch length mm	Number of teeth
264 8M	264	33
320 8M	320	40
376 8M	376	47
384 8M	384	48
<b>424 8M</b>	<b>424</b>	<b>53</b>
<b>480 8M</b>	<b>480</b>	<b>60</b>
512 8M	512	64
520 8M	520	65
<b>560 8M</b>	<b>560</b>	<b>70</b>
576 8M	576	72
<b>600 8M</b>	<b>600</b>	<b>75</b>
608 8M	608	76
624 8M	624	78
<b>640 8M</b>	<b>640</b>	<b>80</b>
656 8M	656	82
<b>720 8M</b>	<b>720</b>	<b>90</b>
<b>760 8M</b>	<b>760</b>	<b>95</b>
776 8M	776	97
<b>800 8M</b>	<b>800</b>	<b>100</b>
856 8M	856	107
<b>880 8M</b>	<b>880</b>	<b>110</b>
912 8M	912	114
<b>920 8M</b>	<b>920</b>	<b>115</b>
<b>960 8M</b>	<b>960</b>	<b>120</b>
968 8M	968	121
<b>976 8M</b>	<b>976</b>	<b>122</b>
<b>1000 8M</b>	<b>1000</b>	<b>125</b>
<b>1040 8M</b>	<b>1040</b>	<b>130</b>
<b>1064 8M</b>	<b>1064</b>	<b>133</b>
<b>1080 8M</b>	<b>1080</b>	<b>135</b>
<b>1120 8M</b>	<b>1120</b>	<b>140</b>
1128 8M	1128	141
<b>1160 8M</b>	<b>1160</b>	<b>145</b>
1176 8M	1176	147
<b>1200 8M</b>	<b>1200</b>	<b>150</b>
1216 8M	1216	152
<b>1224 8M</b>	<b>1224</b>	<b>153</b>
<b>1256 8M</b>	<b>1256</b>	<b>157</b>
<b>1264 8M</b>	<b>1264</b>	<b>158</b>
<b>1280 8M</b>	<b>1280</b>	<b>160</b>
1304 8M	1304	163
<b>1360 8M</b>	<b>1360</b>	<b>170</b>
1424 8M	1424	178
1432 8M	1432	179
<b>1440 8M</b>	<b>1440</b>	<b>180</b>
1512 8M	1512	189
<b>1520 8M</b>	<b>1520</b>	<b>190</b>
<b>1552 8M</b>	<b>1552</b>	<b>194</b>
1584 8M	1584	198
<b>1600 8M</b>	<b>1600</b>	<b>200</b>
1696 8M	1696	212
1728 8M	1728	216
<b>1760 8M</b>	<b>1760</b>	<b>220</b>
<b>1800 8M</b>	<b>1800</b>	<b>225</b>
1896 8M	1896	237
1904 8M	1904	238
<b>2000 8M</b>	<b>2000</b>	<b>250</b>
<b>2080 8M</b>	<b>2080</b>	<b>260</b>
2200 8M	2200	275
<b>2240 8M</b>	<b>2240</b>	<b>280</b>
<b>2272 8M</b>	<b>2272</b>	<b>284</b>
2400 8M	2400	300
2504 8M	2504	313
<b>2600 8M</b>	<b>2600</b>	<b>325</b>
<b>2800 8M</b>	<b>2800</b>	<b>350</b>

Available in widths of 20 mm, 30 mm, 50 mm and 85 mm.

14M		
Pitch: 14 mm		
Length and pitch designation	Pitch length mm	Number of teeth
784 14M	784	56
826 14M	826	59
924 14M	924	66
<b>966 14M</b>	<b>966</b>	<b>69</b>
1092 14M	1092	78
<b>1190 14M</b>	<b>1190</b>	<b>85</b>
<b>1400 14M</b>	<b>1400</b>	<b>100</b>
<b>1610 14M</b>	<b>1610</b>	<b>115</b>
<b>1778 14M</b>	<b>1778</b>	<b>127</b>
<b>1890 14M</b>	<b>1890</b>	<b>135</b>
<b>2100 14M</b>	<b>2100</b>	<b>150</b>
<b>2310 14M</b>	<b>2310</b>	<b>165</b>
<b>2450 14M</b>	<b>2450</b>	<b>175</b>
<b>2590 14M</b>	<b>2590</b>	<b>185</b>
<b>2800 14M</b>	<b>2800</b>	<b>200</b>
<b>3150 14M</b>	<b>3150</b>	<b>225</b>
<b>3500 14M</b>	<b>3500</b>	<b>250</b>
<b>3850 14M</b>	<b>3850</b>	<b>275</b>
4004 14M	4004	286
4326 14M	4326	309
4578 14M	4578	327

Available in widths of 40 mm, 55 mm, 85 mm, 115 mm and 170 mm.

20M		
Pitch: 20 mm		
Length and pitch designation	Pitch length mm	Number of teeth
2000 20M	2000	100
2500 20M	2500	125
3400 20M	3400	170
3800 20M	3800	190
4200 20M	4200	210
4600 20M	4600	230
5000 20M	5000	250
5200 20M	5200	260
5400 20M	5400	270
5600 20M	5600	280
5800 20M	5800	290
6000 20M	6000	300
6200 20M	6200	310
6400 20M	6400	320
6600 20M	6600	330

Available in widths of 115 mm, 170 mm, 230 mm, 290 mm and 340 mm.

**PowerGrip® HTD® ordering code is composed as follows:**

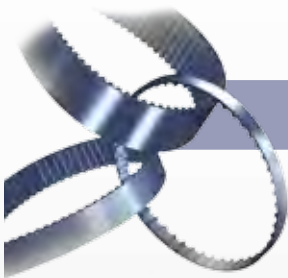
**480-8M-20**

**480** - Pitch length (mm)  
**8M** - Pitch 8 mm  
**20** - Belt width (mm)

**Dimensions in bold are available from stock.**



## SYNCHRONOUS BELTS FOR HIGH TORQUE DRIVES



# POWERGRIP® HTD® 3M & 5M

Synchronous belt with curvilinear tooth profile

Because of an optimised load distribution, the HTD® curvilinear tooth form guarantees high power transmission in low speed and high torque applications.

PowerGrip® HTD® 3M and 5M belts are suitable for domestic appliances, office machines, electric hand tools and for applications in the processing and chemical industry.



### Identification

Three part number on the back of the belt indicating belt length, pitch and width.

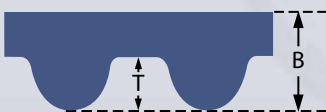
### Construction

- Special curvilinear tooth design improves stress distribution and allows higher overall loading.
- Precisely formed and accurately spaced elastomeric teeth ensure smooth engagement with the pulley grooves.
- Durable elastomeric backing protects the belt against environmental pollution as well as frictional wear if power is transmitted from the back of the belt.
- Tough nylon facing protects the tooth surface.
- Fibreglass tensile cords.
- Compact design.

### Advantages

- 3M and 5M PowerGrip® HTD® are designed for speeds up to 20000 rpm and capacities up to 10 kW.
- The optimised tooth form permits high loads to be transmitted, even in small pitches.
- Peripheral speed up to 80 m/s.
- Efficiencies up to 99%.
- Compact design.
- 25% improved tooth jump resistance.
- Long service life and maintenance-free.

### Sections and nominal dimensions



	Pitch mm	T mm	B mm
3M	3.0	1.2	2.4
5M	5.0	2.1	3.8

#### NOTE

For correct usage of the belt please request Gates' Synchronous Belt Drive Design Manual (E2/20099).



### 3M

Pitch: 3 mm

Length and pitch designation	Pitch length mm	Number of teeth	Length and pitch designation	Pitch length mm	Number of teeth
105 3M	105	35	480 3M	480	160
111 3M	111	37	486 3M	486	162
120 3M	120	40	489 3M	489	163
123 3M	123	41	501 3M	501	167
126 3M	126	42	<b>513 3M</b>	<b>513</b>	<b>171</b>
129 3M	129	43	522 3M	522	174
141 3M	141	47	525 3M	525	175
144 3M	144	48	<b>531 3M</b>	<b>531</b>	<b>177</b>
<b>150 3M</b>	<b>150</b>	<b>50</b>	537 3M	537	179
<b>156 3M</b>	<b>156</b>	<b>52</b>	552 3M	552	184
<b>159 3M</b>	<b>159</b>	<b>53</b>	558 3M	558	186
165 3M	165	55	<b>564 3M</b>	<b>564</b>	<b>188</b>
168 3M	168	56	570 3M	570	190
171 3M	171	57	573 3M	573	191
174 3M	174	58	582 3M	582	194
177 3M	177	59	591 3M	591	197
180 3M	180	60	594 3M	594	198
183 3M	183	61	<b>600 3M</b>	<b>600</b>	<b>200</b>
186 3M	186	62	612 3M	612	204
189 3M	189	63	627 3M	627	209
192 3M	192	64	<b>633 3M</b>	<b>633</b>	<b>211</b>
195 3M	195	65	645 3M	645	215
<b>201 3M</b>	<b>201</b>	<b>67</b>	648 3M	648	216
204 3M	204	68	<b>669 3M</b>	<b>669</b>	<b>223</b>
<b>210 3M</b>	<b>210</b>	<b>70</b>	672 3M	672	224
213 3M	213	71	681 3M	681	227
216 3M	216	72	<b>711 3M</b>	<b>711</b>	<b>237</b>
219 3M	219	73	720 3M	720	240
222 3M	222	74	735 3M	735	245
<b>225 3M</b>	<b>225</b>	<b>75</b>	738 3M	738	246
234 3M	234	78	753 3M	753	251
237 3M	237	79	<b>804 3M</b>	<b>804</b>	<b>268</b>
243 3M	243	81	822 3M	822	274
246 3M	246	82	882 3M	882	294
249 3M	249	83	945 3M	945	315
252 3M	252	84	981 3M	981	327
<b>255 3M</b>	<b>255</b>	<b>85</b>	1002 3M	1002	334
<b>267 3M</b>	<b>267</b>	<b>89</b>	1071 3M	1071	357
276 3M	276	92	1080 3M	1080	360
282 3M	282	94	1176 3M	1176	392
<b>285 3M</b>	<b>285</b>	<b>95</b>	1245 3M	1245	415
<b>288 3M</b>	<b>288</b>	<b>96</b>	1263 3M	1263	421
<b>291 3M</b>	<b>291</b>	<b>97</b>	<b>1500 3M</b>	<b>1500</b>	<b>500</b>
294 3M	294	98	1530 3M	1530	510
297 3M	297	99	1863 3M	1863	621
<b>300 3M</b>	<b>300</b>	<b>100</b>	1926 3M	1926	642
<b>306 3M</b>	<b>306</b>	<b>102</b>			
<b>312 3M</b>	<b>312</b>	<b>104</b>			
315 3M	315	105			
<b>318 3M</b>	<b>318</b>	<b>106</b>			
<b>330 3M</b>	<b>330</b>	<b>110</b>			
333 3M	333	111			
336 3M	336	112			
339 3M	339	113			
342 3M	342	114			
<b>345 3M</b>	<b>345</b>	<b>115</b>			
<b>357 3M</b>	<b>357</b>	<b>119</b>			
363 3M	363	121			
372 3M	372	124			
381 3M	381	127			
<b>384 3M</b>	<b>384</b>	<b>128</b>			
393 3M	393	131			
<b>420 3M</b>	<b>420</b>	<b>140</b>			
435 3M	435	145			
<b>447 3M</b>	<b>447</b>	<b>149</b>			
462 3M	462	154			
474 3M	474	158			
477 3M	477	159			

Available in widths of 6 mm, 9 mm and 15 mm.

### 5M

Pitch: 5 mm

Length and pitch designation	Pitch length mm	Number of teeth	Length and pitch designation	Pitch length mm	Number of teeth
120 5M	120	24	<b>980 5M</b>	<b>980</b>	<b>196</b>
<b>180 5M</b>	<b>180</b>	<b>36</b>	1000 5M	1000	200
<b>225 5M</b>	<b>225</b>	<b>45</b>	1025 5M	1025	205
<b>255 5M</b>	<b>255</b>	<b>51</b>	1035 5M	1035	207
265 5M	265	53	<b>1050 5M</b>	<b>1050</b>	<b>210</b>
<b>270 5M</b>	<b>270</b>	<b>54</b>	<b>1100 5M</b>	<b>1100</b>	<b>220</b>
275 5M	275	55	<b>1125 5M</b>	<b>1125</b>	<b>225</b>
<b>280 5M</b>	<b>280</b>	<b>56</b>	1135 5M	1135	227
295 5M	295	59	1175 5M	1175	235
300 5M	300	60	<b>1200 5M</b>	<b>1200</b>	<b>240</b>
<b>305 5M</b>	<b>305</b>	<b>61</b>	1225 5M	1225	245
<b>325 5M</b>	<b>325</b>	<b>65</b>	1270 5M	1270	254
330 5M	330	66	<b>1350 5M</b>	<b>1350</b>	<b>270</b>
335 5M	335	67	1380 5M	1380	276
<b>340 5M</b>	<b>340</b>	<b>68</b>	1420 5M	1420	284
345 5M	345	69	1595 5M	1595	319
<b>350 5M</b>	<b>350</b>	<b>70</b>	<b>1690 5M</b>	<b>1690</b>	<b>338</b>
360 5M	360	72	1790 5M	1790	358
<b>365 5M</b>	<b>365</b>	<b>73</b>	1870 5M	1870	374
370 5M	370	74	<b>2100 5M</b>	<b>2100</b>	<b>420</b>
<b>375 5M</b>	<b>375</b>	<b>75</b>	<b>2350 5M</b>	<b>2350</b>	<b>470</b>
385 5M	385	77			
<b>400 5M</b>	<b>400</b>	<b>80</b>			
405 5M	405	81			
420 5M	420	84			
<b>425 5M</b>	<b>425</b>	<b>85</b>			
<b>450 5M</b>	<b>450</b>	<b>90</b>			
460 5M	460	92			
<b>475 5M</b>	<b>475</b>	<b>95</b>			
<b>500 5M</b>	<b>500</b>	<b>100</b>			
510 5M	510	102			
<b>520 5M</b>	<b>520</b>	<b>104</b>			
<b>525 5M</b>	<b>525</b>	<b>105</b>			
<b>535 5M</b>	<b>535</b>	<b>107</b>			
<b>550 5M</b>	<b>550</b>	<b>110</b>			
<b>560 5M</b>	<b>560</b>	<b>112</b>			
565 5M	565	113			
<b>575 5M</b>	<b>575</b>	<b>115</b>			
<b>580 5M</b>	<b>580</b>	<b>116</b>			
<b>600 5M</b>	<b>600</b>	<b>120</b>			
<b>610 5M</b>	<b>610</b>	<b>122</b>			
<b>615 5M</b>	<b>615</b>	<b>123</b>			
<b>635 5M</b>	<b>635</b>	<b>127</b>			
<b>640 5M</b>	<b>640</b>	<b>128</b>			
<b>645 5M</b>	<b>645</b>	<b>129</b>			
<b>665 5M</b>	<b>665</b>	<b>133</b>			
<b>670 5M</b>	<b>670</b>	<b>134</b>			
695 5M	695	139			
<b>700 5M</b>	<b>700</b>	<b>140</b>			
710 5M	710	142			
720 5M	720	144			
<b>740 5M</b>	<b>740</b>	<b>148</b>			
<b>750 5M</b>	<b>750</b>	<b>150</b>			
755 5M	755	151			
770 5M	770	154			
775 5M	775	155			
<b>800 5M</b>	<b>800</b>	<b>160</b>			
825 5M	825	165			
<b>835 5M</b>	<b>835</b>	<b>167</b>			
<b>860 5M</b>	<b>860</b>	<b>172</b>			
870 5M	870	174			
890 5M	890	178			
<b>900 5M</b>	<b>900</b>	<b>180</b>			
925 5M	925	185			
935 5M	935	187			
940 5M	940	188			
<b>950 5M</b>	<b>950</b>	<b>190</b>			
965 5M	965	193			

Available in widths of 9 mm, 15 mm and 25 mm.

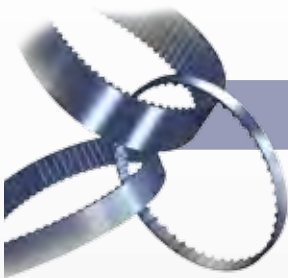
PowerGrip® HTD® ordering code is composed as follows:

<b>280-5M-15</b>	
<b>280</b>	- Pitch length (mm)
<b>5M</b>	- Pitch 5 mm
<b>15</b>	- Belt width (mm)

Dimensions in bold are available from stock.



SYNCHRONOUS BELTS FOR A WIDE VARIETY OF APPLICATIONS



# POWERGRIP® XL, L, H, XH & XXH

Classical synchronous belt

Gates classical synchronous PowerGrip® belt offers a maintenance-free and economical alternative to conventional drives like chains and gears. Its application range extends from minimum drives (computer printers) to heavy-duty machinery (oil pumps, etc).



### Identification

Three part number on the back of the belt indicating belt length, pitch and width.

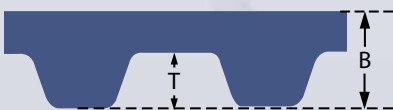
### Construction

- Trapezoidal tooth form.
- Precisely formed and accurately spaced elastomeric teeth ensure correct engagement with the pulley grooves.
- Fibreglass tensile cords.
- Nylon fabric cover protects the tooth surfaces.
- Available in standard pitches according to ISO 5296: MXL, XL, L, H, XH, XXH. For MXL sizes and description, see chapter on PowerGrip® MXL on pages 47-48.

### Advantages

- Power transmission of up to 150 kW and speeds of up to 10000 rpm.
- Peripheral speed up to 80 m/s.
- Positive slip-proof engagement.
- Constant angular velocity.
- Efficiencies up to 99%.
- Low bearing load because of freedom of high tension.
- Maintenance-free continuity of operation.
- Wide range of load capacities and speed ratios.
- Compact design.
- Economical operation.

### Sections and nominal dimensions



	Pitch inch	T mm	B mm
XL	1/5	1.27	2.3
L	3/8	1.91	3.5
H	1/2	2.29	4.0
XH	7/8	6.35	11.4
XXH	1.1/4	9.53	15.2

NOTE

For correct usage of the belt please request Gates' Synchronous Belt Drive Design Manual (E2/20099).



## XL

Pitch: 1/5" (5.080 mm)

Length and pitch designation	Pitch length mm	Number of teeth
46 XL	116.84	23
<b>50 XL</b>	<b>127.00</b>	<b>25</b>
58 XL	147.32	29
60 XL	152.40	30
66 XL	167.64	33
<b>70 XL</b>	<b>177.80</b>	<b>35</b>
76 XL	193.04	38
78 XL	198.12	39
<b>80 XL</b>	<b>203.20</b>	<b>40</b>
84 XL	213.36	42
86 XL	218.44	43
88 XL	223.52	44
<b>90 XL</b>	<b>228.60</b>	<b>45</b>
92 XL	233.68	46
94 XL	238.76	47
96 XL	243.84	48
98 XL	248.92	49
<b>100 XL</b>	<b>254.00</b>	<b>50</b>
102 XL	259.08	51
106 XL	269.24	53
108 XL	274.32	54
<b>110 XL</b>	<b>279.40</b>	<b>55</b>
112 XL	284.48	56
114 XL	289.56	57
116 XL	294.64	58
118 XL	299.72	59
<b>120 XL</b>	<b>304.80</b>	<b>60</b>
122 XL	309.88	61
124 XL	314.96	62
126 XL	320.04	63
128 XL	325.12	64
<b>130 XL</b>	<b>330.20</b>	<b>65</b>
132 XL	335.28	66
134 XL	340.36	67
136 XL	345.44	68
138 XL	350.52	69
<b>140 XL</b>	<b>355.60</b>	<b>70</b>
142 XL	360.68	71
144 XL	365.76	72
146 XL	370.84	73
148 XL	375.92	74
<b>150 XL</b>	<b>381.00</b>	<b>75</b>
154 XL	391.16	77
156 XL	396.24	78
158 XL	401.32	79
<b>160 XL</b>	<b>406.40</b>	<b>80</b>
164 XL	416.56	82
166 XL	421.64	83
<b>170 XL</b>	<b>431.80</b>	<b>85</b>
174 XL	441.96	87
176 XL	447.04	88
178 XL	452.12	89
<b>180 XL</b>	<b>457.20</b>	<b>90</b>
182 XL	462.28	91
184 XL	467.36	92
188 XL	477.52	94
190 XL	482.60	95
192 XL	487.68	96
194 XL	492.76	97
196 XL	497.84	98
198 XL	502.92	99
<b>200 XL</b>	<b>508.00</b>	<b>100</b>
202 XL	513.08	101
204 XL	518.16	102
208 XL	528.32	104
<b>210 XL</b>	<b>533.40</b>	<b>105</b>
212 XL	538.48	106
214 XL	543.56	107

Length and pitch designation	Pitch length mm	Number of teeth
<b>220 XL</b>	<b>558.80</b>	<b>110</b>
228 XL	579.12	114
<b>230 XL</b>	<b>584.20</b>	<b>115</b>
232 XL	589.28	116
234 XL	594.36	117
<b>240 XL</b>	<b>609.60</b>	<b>120</b>
<b>250 XL</b>	<b>635.00</b>	<b>125</b>
<b>260 XL</b>	<b>660.40</b>	<b>130</b>
264 XL	670.56	132
270 XL	685.80	135
274 XL	695.96	137
<b>280 XL</b>	<b>711.20</b>	<b>140</b>
284 XL	721.36	142
286 XL	726.44	143
<b>290 XL</b>	<b>736.60</b>	<b>145</b>
296 XL	751.84	148
<b>300 XL</b>	<b>762.00</b>	<b>150</b>
306 XL	777.24	153
<b>310 XL</b>	<b>787.40</b>	<b>155</b>
316 XL	802.64	158
322 XL	817.88	161
<b>330 XL</b>	<b>838.20</b>	<b>165</b>
340 XL	863.60	170
344 XL	873.76	172
348 XL	883.92	174
350 XL	889.00	175
352 XL	894.08	176
362 XL	919.48	181
372 XL	944.88	186
380 XL	965.20	190
382 XL	970.28	191
384 XL	975.36	192
390 XL	990.60	195
392 XL	995.68	196
404 XL	1026.16	202
412 XL	1046.48	206
424 XL	1076.96	212
432 XL	1097.28	216
434 XL	1102.36	217
438 XL	1112.52	219
450 XL	1143.00	225
460 XL	1168.40	230
490 XL	1244.60	245
506 XL	1285.24	253
540 XL	1371.60	270
554 XL	1407.16	277
564 XL	1432.56	282
580 XL	1473.20	290
592 XL	1503.68	296
672 XL	1706.88	336
736 XL	1869.44	368
770 XL	1955.80	385

Available in widths of 6.4 mm (code 025), 7.9 mm (code 031) and 9.5 mm (code 037).

## L

Pitch: 3/8" (9.525 mm)

Length and pitch designation	Pitch length mm	Number of teeth
<b>124 L</b>	<b>314.33</b>	<b>33</b>
135 L	342.90	36
<b>150 L</b>	<b>381.00</b>	<b>40</b>
165 L	419.10	44
<b>169 L</b>	<b>428.63</b>	<b>45</b>
172 L	438.15	46
187 L	476.25	50
<b>202 L</b>	<b>514.35</b>	<b>54</b>
<b>210 L</b>	<b>533.40</b>	<b>56</b>
<b>225 L</b>	<b>571.50</b>	<b>60</b>
236 L	600.08	63
<b>240 L</b>	<b>609.60</b>	<b>64</b>
244 L	619.13	65
251 L	638.18	67
<b>255 L</b>	<b>647.70</b>	<b>68</b>
<b>270 L</b>	<b>685.80</b>	<b>72</b>
<b>285 L</b>	<b>723.90</b>	<b>76</b>
<b>300 L</b>	<b>762.00</b>	<b>80</b>
<b>322 L</b>	<b>819.15</b>	<b>86</b>
<b>345 L</b>	<b>876.30</b>	<b>92</b>
<b>367 L</b>	<b>933.45</b>	<b>98</b>
<b>390 L</b>	<b>990.60</b>	<b>104</b>
<b>405 L</b>	<b>1028.70</b>	<b>108</b>
<b>420 L</b>	<b>1066.80</b>	<b>112</b>
<b>450 L</b>	<b>1143.00</b>	<b>120</b>
461 L	1171.58	123
<b>480 L</b>	<b>1219.20</b>	<b>128</b>
<b>510 L</b>	<b>1295.40</b>	<b>136</b>
<b>540 L</b>	<b>1371.60</b>	<b>144</b>
<b>600 L</b>	<b>1524.00</b>	<b>160</b>
630 L	1600.20	168
<b>660 L</b>	<b>1676.40</b>	<b>176</b>

Available in widths of 12.7 mm (code 050), 19.1 mm (code 075) and 25.4 mm (code 100).

Dimensions in bold are available from stock.



<b>H</b>		
Pitch: 1/2" (12.7 mm)		
Length and pitch designation	Pitch length mm	Number of teeth
<b>240 H</b>	<b>609.60</b>	<b>48</b>
255 H	647.70	51
<b>270 H</b>	<b>685.80</b>	<b>54</b>
<b>300 H</b>	<b>762.00</b>	<b>60</b>
310 H	787.40	62
<b>330 H</b>	<b>838.20</b>	<b>66</b>
<b>360 H</b>	<b>914.40</b>	<b>72</b>
370 H	939.80	74
375 H	952.50	75
<b>390 H</b>	<b>990.60</b>	<b>78</b>
<b>420 H</b>	<b>1066.80</b>	<b>84</b>
440 H	1117.60	88
<b>450 H</b>	<b>1143.00</b>	<b>90</b>
<b>480 H</b>	<b>1219.20</b>	<b>96</b>
485 H	1231.90	97
<b>510 H</b>	<b>1295.40</b>	<b>102</b>
520 H	1320.80	104
<b>540 H</b>	<b>1371.60</b>	<b>108</b>
<b>570 H</b>	<b>1447.80</b>	<b>114</b>
<b>600 H</b>	<b>1524.00</b>	<b>120</b>
615 H	1562.10	123
<b>630 H</b>	<b>1600.20</b>	<b>126</b>
<b>660 H</b>	<b>1676.40</b>	<b>132</b>
<b>700 H</b>	<b>1778.00</b>	<b>140</b>
<b>750 H</b>	<b>1905.00</b>	<b>150</b>
<b>800 H</b>	<b>2032.00</b>	<b>160</b>
<b>850 H</b>	<b>2159.00</b>	<b>170</b>
885 H	2247.90	177
<b>900 H</b>	<b>2286.00</b>	<b>180</b>
905 H	2298.70	181
<b>1000 H</b>	<b>2540.00</b>	<b>200</b>
<b>1100 H</b>	<b>2794.00</b>	<b>220</b>
1130 H	2870.20	226
<b>1250 H</b>	<b>3175.00</b>	<b>250</b>
1325 H	3365.50	265
<b>1400 H</b>	<b>3556.00</b>	<b>280</b>
1460 H	3708.40	292
<b>1700 H</b>	<b>4318.00</b>	<b>340</b>

Available in widths of 19.1 mm (code 075), 25.4 mm (code 100), 38.1 mm (code 150), 50.8 mm (code 200) and 76.2 mm (code 300).

<b>XH</b>		
Pitch: 7/8" (22.225 mm)		
Length and pitch designation	Pitch length mm	Number of teeth
<b>507 XH</b>	<b>1289.05</b>	<b>58</b>
<b>560 XH</b>	<b>1422.40</b>	<b>64</b>
<b>630 XH</b>	<b>1600.20</b>	<b>72</b>
<b>700 XH</b>	<b>1778.00</b>	<b>80</b>
<b>770 XH</b>	<b>1955.80</b>	<b>88</b>
787 XH	2000.25	90
831 XH	2111.38	95
<b>840 XH</b>	<b>2133.60</b>	<b>96</b>
<b>980 XH</b>	<b>2489.20</b>	<b>112</b>
<b>1120 XH</b>	<b>2844.80</b>	<b>128</b>
<b>1260 XH</b>	<b>3200.40</b>	<b>144</b>
<b>1400 XH</b>	<b>3556.00</b>	<b>160</b>
<b>1540 XH</b>	<b>3911.60</b>	<b>176</b>
<b>1680 XH</b>	<b>4267.20</b>	<b>192</b>
<b>1750 XH</b>	<b>4445.00</b>	<b>200</b>

Available in widths of 50.8 mm (code 200), 76.2 mm (code 300), 101.6 mm (code 400) and 127 mm (code 500).

<b>XXH</b>		
Pitch: 1.1/4" (31.75 mm)		
Length and pitch designation	Pitch length mm	Number of teeth
700 XXH	1778.00	56
800 XXH	2032.00	64
900 XXH	2286.00	72
1000 XXH	2540.00	80
1200 XXH	3048.00	96
1400 XXH	3556.00	112
1600 XXH	4064.00	128
1800 XXH	4572.00	144

Available in widths of 50.8 mm (code 200), 76.2 mm (code 300), 101.6 mm (code 400) and 127 mm (code 500).

**PowerGrip® ordering code is composed as follows:**

**507-XH-200**

- 507** - Pitch length in 1/10 inch
- XH** - Pitch 7/8" (22.225 mm)
- 200** - Belt width 2.0" (50.8 mm)

Dimensions in bold are available from stock.



## HIGH PRECISION SYNCHRONOUS BELTS



# POWERGRIP® MXL

*Classical synchronous belt*

The PowerGrip® MXL belt is a classical synchronous belt with a pitch of 0.08" (2.032 mm). It is recommended for applications where maximum synchronisation, small package and high speed are required. Space-saving and highly stable, this belt is the ideal solution to precision drives such as office machines and computers.



### Identification

Three part number on the back of the belt indicating belt length, pitch and width.

### Construction

- Trapezoidal tooth form.
- Elastomeric backing and teeth combine durability and light weight.
- Nylon facing protects and reinforces the tooth surfaces.
- Fibreglass cords provide length stability and flexibility.

### Advantages

- Power transmission of up to 0.8 kW and speeds of up to 20000 rpm.
- MXL belts allow small pulley diameters (from 6 mm diameter) with a maximum number of teeth in mesh.
- Highly suitable for stepper motors.
- Accurate positioning.
- Very stable.

### Sections and nominal dimensions



	Pitch inch	T mm	B mm
MXL	0.08	0.51	1.14

NOTE

For correct usage of the belt please request Gates' Synchronous Belt Drive Design Manual (E2/20099).





## MXL

Pitch: 0.08" (2.032 mm)

Length and pitch designation	Pitch length mm	Number of teeth	Length and pitch designation	Pitch length mm	Number of teeth
288 MXL	73,15	36	1264 MXL	321,06	158
296 MXL	75,18	37	<b>1280 MXL</b>	<b>325,12</b>	<b>160</b>
320 MXL	81,28	40	1320 MXL	335,28	165
360 MXL	91,44	45	<b>1400 MXL</b>	<b>355,60</b>	<b>175</b>
400 MXL	101,60	50	1472 MXL	373,89	184
424 MXL	107,70	53	1520 MXL	386,08	190
432 MXL	109,73	54	1560 MXL	396,24	195
440 MXL	111,76	55	1600 MXL	406,40	200
448 MXL	113,79	56	1680 MXL	426,72	210
456 MXL	115,82	57	1768 MXL	449,07	221
464 MXL	117,86	58	1800 MXL	457,20	225
472 MXL	119,89	59	1832 MXL	465,33	229
<b>480 MXL</b>	<b>121,92</b>	<b>60</b>	1856 MXL	471,42	232
488 MXL	123,95	61	<b>1880 MXL</b>	<b>477,52</b>	<b>235</b>
504 MXL	128,02	63	1960 MXL	497,84	245
520 MXL	132,08	65	1984 MXL	503,94	248
<b>536 MXL</b>	<b>136,14</b>	<b>67</b>	1992 MXL	505,97	249
544 MXL	138,18	68	2048 MXL	520,19	256
552 MXL	140,21	69	2136 MXL	542,54	267
560 MXL	142,24	70	2240 MXL	568,96	280
568 MXL	144,27	71	2360 MXL	599,44	295
<b>576 MXL</b>	<b>146,30</b>	<b>72</b>	2384 MXL	605,54	298
584 MXL	148,34	73	2400 MXL	609,60	300
592 MXL	150,37	74	<b>2520 MXL</b>	<b>640,08</b>	<b>315</b>
600 MXL	152,40	75	2544 MXL	646,18	318
<b>608 MXL</b>	<b>154,43</b>	<b>76</b>	2608 MXL	662,43	326
616 MXL	156,46	77	2776 MXL	705,10	347
632 MXL	160,53	79	2864 MXL	727,46	358
640 MXL	162,56	80	2880 MXL	731,52	360
648 MXL	164,59	81	2968 MXL	753,87	371
<b>656 MXL</b>	<b>166,62</b>	<b>82</b>	2976 MXL	755,90	372
664 MXL	168,66	83	3120 MXL	792,48	390
672 MXL	170,69	84	3200 MXL	812,80	400
680 MXL	172,72	85	3264 MXL	829,06	408
696 MXL	176,78	87	<b>3296 MXL</b>	<b>837,18</b>	<b>412</b>
704 MXL	178,82	88	3360 MXL	853,44	420
720 MXL	182,88	90	3392 MXL	861,57	424
736 MXL	186,94	92	3448 MXL	875,79	431
752 MXL	191,01	94	3472 MXL	881,89	434
760 MXL	193,04	95	3704 MXL	940,82	463
776 MXL	197,10	97	3800 MXL	965,20	475
800 MXL	203,20	100	3904 MXL	991,62	488
808 MXL	205,23	101	3984 MXL	1011,94	498
824 MXL	209,30	103	4000 MXL	1016,00	500
840 MXL	213,36	105	4040 MXL	1026,16	505
848 MXL	215,39	106	4368 MXL	1109,47	546
856 MXL	217,42	107	4736 MXL	1202,94	592
864 MXL	219,46	108	4896 MXL	1243,58	612
872 MXL	221,49	109	5448 MXL	1383,79	681
880 MXL	223,52	110			
912 MXL	231,65	114			
944 MXL	239,78	118			
960 MXL	243,84	120			
976 MXL	247,90	122			
984 MXL	249,94	123			
1000 MXL	254,00	125			
1008 MXL	256,03	126			
1016 MXL	258,06	127			
1032 MXL	262,13	129			
<b>1040 MXL</b>	<b>264,16</b>	<b>130</b>			
1056 MXL	268,22	132			
1072 MXL	272,29	134			
1112 MXL	282,45	139			
<b>1120 MXL</b>	<b>284,48</b>	<b>140</b>			
1144 MXL	290,58	143			
1160 MXL	294,64	145			
1200 MXL	304,80	150			
1240 MXL	314,96	155			

Available in widths of 3.2 mm (code 012), 4.8 mm (code 019) and 6.4 mm (code 025).

PowerGrip® MXL ordering code is composed as follows:

**288-MXL-019**

- 288** - Pitch length in 1/100 inch
- MXL** - Pitch 0.08" (2.032 mm)
- 019** - Belt width 0.19" (4.8 mm)

Dimensions in bold are available from stock.



## DOUBLE-SIDED SYNCHRONOUS BELTS FOR CONTRA-ROTATING DRIVES



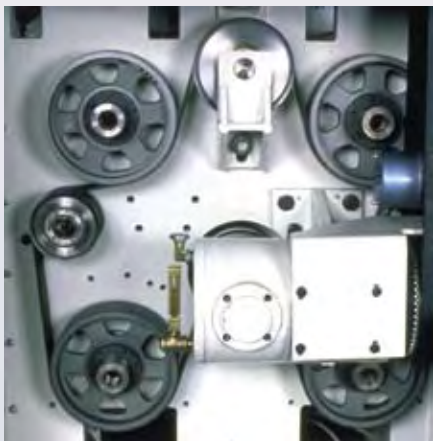
# TWIN POWER®

*Double-sided synchronous belt*

Due to its double and directly opposite teeth, Twin Power® synchronous belts ensure high loading capacity on contra-rotating drives and ensure smooth running and high flexibility.

Twin Power® synchronous belts are available with the classical trapezoidal but also with the unique GT tooth profile.

The Twin Power® GT2 belt has twice the power rating of Twin Power® HTD® belts. It is characterised by extraordinary load-carrying power and high tooth jump resistance, thus ensuring a positive non-slip drive. In addition, it runs at very low noise. Twin Power® is available in PowerGrip® GT2 8MGT and 14MGT, HTD® 5M and PowerGrip® XL, L and H pitches.



### Identification

Three part number on one side of the belt indicating pitch, belt length and width.

### Construction

- Similar in construction to PowerGrip® classical synchronous and PowerGrip® GT2 belts: strong tensile member, precision-formed elastomeric teeth and body.
- Wear resistant nylon fabric on both tooth sides.

### Advantages

- High loading capacity.
- Twin Power® can transmit up to 100% of its maximum rated load from either side of the belt; alternatively, it can transmit a load on both sides - provided the sum of the loads does not exceed the maximum capacity.
- Non-slip positive drive.
- Running at low noise.
- Free of lubrication and maintenance.

### Sections and nominal dimensions



	Pitch mm	W mm	T mm
8MGT	8.0	2.00	3.40
14MGT	14.0	3.70	5.82



	Pitch mm	W mm	T mm
5M	5.0	1.5	2.1



	Pitch inch	W mm	T mm
XL	1/5	0.508	1.27
L	3/8	0.762	1.91
H	1/2	1.372	2.29



## TP GT2 8MGT

Pitch: 8 mm

Length and pitch designation	Pitch length mm	Number of teeth
TP GT2 480 8MGT <sup>1</sup>	480	60
TP GT2 560 8MGT <sup>1</sup>	560	70
TP GT2 600 8MGT <sup>1</sup>	600	75
TP GT2 640 8MGT <sup>1</sup>	640	80
TP GT2 720 8MGT <sup>1</sup>	720	90
TP GT2 800 8MGT <sup>1</sup>	800	100
TP GT2 880 8MGT <sup>1</sup>	880	110
TP GT2 960 8MGT <sup>1</sup>	960	120
TP GT2 1040 8MGT <sup>1</sup>	1040	130
TP GT2 1120 8MGT <sup>2</sup>	1120	140
TP GT2 1200 8MGT <sup>2</sup>	1200	150
TP GT2 1280 8MGT <sup>2</sup>	1280	160
TP GT2 1440 8MGT <sup>2</sup>	1440	180
TP GT2 1600 8MGT <sup>2</sup>	1600	200
TP GT2 1760 8MGT <sup>2</sup>	1760	220
TP GT2 1800 8MGT <sup>2</sup>	1800	225
TP GT2 2000 8MGT <sup>2</sup>	2000	250
TP GT2 2400 8MGT <sup>2</sup>	2400	300
TP GT2 2600 8MGT <sup>2</sup>	2600	325
TP GT2 2800 8MGT <sup>2</sup>	2800	350
TP GT2 3048 8MGT <sup>2</sup>	3048	381
TP GT2 3280 8MGT <sup>2</sup>	3280	410
TP GT2 3600 8MGT <sup>2</sup>	3600	450
TP GT2 4400 8MGT <sup>2</sup>	4400	550
TP GT2 4960 8MGT <sup>3</sup>	4960	620

Available in widths of 20 mm, 30 mm, 50 mm and 85 mm.

## TP GT2 14MGT

Pitch: 14 mm

Length and pitch designation	Pitch length mm	Number of teeth
TP GT2 1610 14MGT	1610	115
TP GT2 1778 14MGT	1778	127
TP GT2 1890 14MGT	1890	135
TP GT2 2100 14MGT	2100	150
TP GT2 2310 14MGT	2310	165
TP GT2 2450 14MGT	2450	175
TP GT2 2590 14MGT	2590	185
TP GT2 2800 14MGT	2800	200
TP GT2 3150 14MGT	3150	225
TP GT2 3360 14MGT	3360	240
TP GT2 3500 14MGT	3500	250
TP GT2 3850 14MGT	3850	275
TP GT2 4326 14MGT	4326	309
TP GT2 4578 14MGT	4578	327
TP GT2 4956 14MGT	4956	354
TP GT2 5320 14MGT	5320	380
TP GT2 5740 14MGT	5740	410
TP GT2 6160 14MGT	6160	440
TP GT2 6860 14MGT	6860	490

Available in widths of 40 mm, 55 mm, 85 mm, 115 mm and 170 mm.

## TP HTD 5M

Pitch: 5 mm

Length and pitch designation	Pitch length mm	Number of teeth
TP 425 5M <sup>3</sup>	425	85
TP 475 5M <sup>3</sup>	475	95
TP 500 5M <sup>1</sup>	500	100
TP 600 5M <sup>1</sup>	600	120
TP 615 5M <sup>1</sup>	615	123
TP 640 5M <sup>1</sup>	640	128
TP 670 5M <sup>1</sup>	670	134
TP 700 5M <sup>1</sup>	700	140
TP 755 5M <sup>1</sup>	755	151
TP 800 5M <sup>1</sup>	800	160
TP 835 5M <sup>1</sup>	835	167
TP 890 5M <sup>1</sup>	890	178
TP 935 5M <sup>4</sup>	935	187
TP 1100 5M <sup>4</sup>	1100	220
TP 1200 5M <sup>4</sup>	1200	240
TP 1270 5M <sup>3</sup>	1270	254
TP 1420 5M <sup>3</sup>	1420	284
TP 1595 5M <sup>4</sup>	1595	319
TP 1690 5M <sup>3</sup>	1690	338
TP 1870 5M <sup>4</sup>	1870	374
TP 1945 5M <sup>3</sup>	1945	389
TP 2000 5M <sup>3</sup>	2000	400
TP 2100 5M <sup>4</sup>	2100	420
TP 2250 5M <sup>3</sup>	2250	450
TP 2350 5M <sup>4</sup>	2350	470
TP 2525 5M <sup>3</sup>	2525	505

Available in widths of 9 mm, 15 mm and 25 mm.

## TP L

Pitch: 3/8" (9.525 mm)

Length and pitch designation	Pitch length mm ISO	Number of teeth
TP 202 L <sup>1</sup>	514.4	54
TP 210 L <sup>1</sup>	533.4	56
TP 225 L <sup>1</sup>	571.5	60
TP 240 L <sup>1</sup>	609.6	64
TP 255 L <sup>1</sup>	647.7	68
TP 270 L <sup>1</sup>	685.8	72
TP 285 L <sup>1</sup>	723.9	76
TP 300 L <sup>1</sup>	762.0	80
TP 322 L <sup>1</sup>	819.2	86
TP 345 L <sup>1</sup>	876.3	92
TP 367 L <sup>1</sup>	933.5	98
TP 390 L <sup>4</sup>	990.6	104
TP 420 L <sup>4</sup>	1066.8	112
TP 450 L <sup>4</sup>	1143.0	120
TP 480 L <sup>4</sup>	1219.2	128
TP 510 L <sup>4</sup>	1295.4	136
TP 540 L <sup>4</sup>	1371.6	144
TP 600 L <sup>4</sup>	1524.0	160
TP 630 L <sup>4</sup>	1600.2	168
TP 660 L <sup>4</sup>	1676.4	176

Available in widths of 12.7 mm (code 050), 19.1 mm (code 075) and 25.4 mm (code 100).

## TP XL

Pitch: 1/5" (5.080 mm)

Length and pitch designation	Pitch length mm ISO	Number of teeth
TP 150 XL <sup>4</sup>	381.0	75
TP 160 XL <sup>4</sup>	406.4	80
TP 170 XL <sup>4</sup>	431.8	85
TP 180 XL <sup>4</sup>	457.2	90
TP 190 XL <sup>1</sup>	482.6	95
TP 200 XL <sup>1</sup>	508.0	100
TP 210 XL <sup>1</sup>	533.4	105
TP 220 XL <sup>1</sup>	558.8	110
TP 230 XL <sup>1</sup>	584.2	115
TP 240 XL <sup>1</sup>	609.6	120
TP 250 XL <sup>1</sup>	635.0	125
TP 260 XL <sup>1</sup>	660.4	130
TP 280 XL <sup>1</sup>	711.2	140
TP 290 XL <sup>1</sup>	736.6	145
TP 300 XL <sup>1</sup>	762.0	150
TP 310 XL <sup>1</sup>	787.4	155
TP 348 XL <sup>1</sup>	883.9	174
TP 352 XL <sup>1</sup>	894.1	176

Available in widths of 6.4 mm (code 025), 7.9 mm (code 031) and 9.5 mm (code 037).

## TP H

Pitch: 1/2" (12.700 mm)

Length and pitch designation	Pitch length mm ISO	Number of teeth
TP 240 H <sup>1</sup>	609.6	48
TP 270 H <sup>1</sup>	685.8	54
TP 300 H <sup>1</sup>	762.0	60
TP 330 H <sup>1</sup>	838.2	66
TP 360 H <sup>1</sup>	914.4	72
TP 390 H <sup>2</sup>	990.6	78
TP 420 H <sup>2</sup>	1066.8	84
TP 450 H <sup>2</sup>	1143.0	90
TP 480 H <sup>2</sup>	1219.2	96
TP 510 H <sup>2</sup>	1295.4	102
TP 540 H <sup>2</sup>	1371.6	108
TP 570 H <sup>2</sup>	1447.8	114
TP 600 H <sup>2</sup>	1524.0	120
TP 630 H <sup>2</sup>	1600.2	126
TP 660 H <sup>2</sup>	1676.4	132
TP 700 H <sup>2</sup>	1778.0	140
TP 750 H <sup>2</sup>	1905.0	150
TP 800 H <sup>2</sup>	2032.0	160
TP 850 H <sup>2</sup>	2159.0	170
TP 900 H <sup>2</sup>	2286.0	180
TP 1000 H <sup>2</sup>	2540.0	200
TP 1100 H <sup>2</sup>	2794.0	220
TP 1250 H <sup>2</sup>	3175.0	250
TP 1400 H <sup>2</sup>	3556.0	280
TP 1700 H <sup>2</sup>	4318.0	340

Available in widths of 19.1 mm (code 075), 25.4 mm (code 100), 38.1 mm (code 150), 50.8 mm (code 200) and 76.2 mm (code 300).

**Twin Power® ordering code is composed as follows:**

**TP-1120-8MGT-20**

<b>TP</b>	- Twin Power
<b>1120</b>	- Pitch length (mm)
<b>8MGT</b>	- Pitch 8 mm
<b>20</b>	- Belt width (mm)

Available in slabs of:  
1 = 100 mm / 2 = 330 mm / 3 = 150 mm / 4 = 130 mm

**Dimensions in bold are available from stock.**



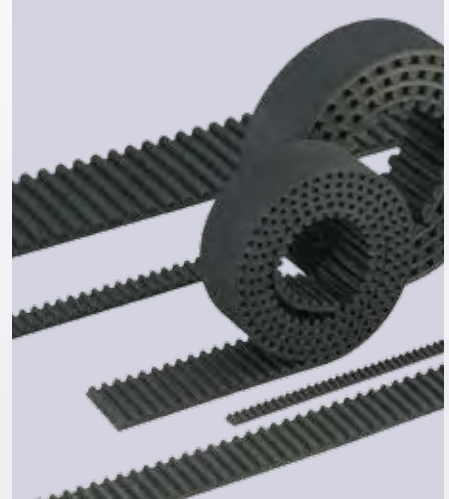
## LONG LENGTH

*Open-end synchronous belt*

Long Length belting is a special alternative to the timing chain for reversing positioning drives.

Open-end synchronous belting is suitable for linear movements (automated doors, automated warehouse conveyors and elevators), accurate positioning (machine tools, x-y coordinate machines) and reversal drives (computers, printers and office equipment).

Gates Long Length belting is available in various sizes, constructions and tooth designs to cover a wide range of loads, speeds and applications.



### Identification

Three part number on the back of the belt indicating product designation, pitch code and belt width.

### Construction

PowerGrip® GT 3MR, 5MR and 8MR pitches

PowerGrip® HTD® 3M, 5M, 8M and 14M pitches

PowerGrip® XL, L and H pitches

- Fibreglass or steel tensile cords.
- Rubber teeth and backing.
- Nylon facing.

Poly Chain® 8MGT and 14MGT pitches

- Aramid tensile cord.
- Polyurethane teeth and backing.
- Fabric reinforced teeth.

### Advantages

- High positioning accuracy, making the belt ideally suited for applications with repetitive movements.
- High power transmission due to the use of sophisticated materials and tooth profiles.
- Positive power transmission with low axial load.
- Length stability due to the use of high modulus tensile members.
- Easy to attach with clamping fixtures.
- Low maintenance.
- No environmental pollution due to lubricants.

**POLY CHAIN® GT2**



	Pitch mm	T mm	B mm	Length on roll (m)	Width - mm Aramid
8MGT	8.00	3.40	5.90	30	<b>12, 21, 36</b>
14MGT	14.00	6.00	10.20	30	<b>20, 37</b>

**POWERGRIP® GT**



	Pitch mm	T mm	B mm	Length on roll (m)	Width - mm Fibreglass	Steel
3MR	3.00	1.12	2.41	30	6, 9, 15	
5MR	5.00	1.92	3.81	30	6, 10, 15, 25	<b>6, 10, 15, 25</b>
8MR	8.00	3.34	5.60	30	10, 15, 20, 30, 50	10, <b>15, 20, 30, 50</b>

**POWERGRIP® HTD®**



	Pitch mm	T mm	B mm	Length on roll (m)	Width - mm Fibreglass	Steel
3M	3.00	1.10	2.40	30	6, <b>9</b> , 15	
5M	5.00	2.10	3.80	30	<b>6, 10, 15, 25</b>	6, 10, 15, 25
8M	8.00	3.40	6.00	30	<b>10, 15, 20, 30, 50</b> , 85	10, 15, 20, 30, 50, 85
14M	14.00	6.00	10.00	30	25, <b>40, 55, 85</b> , 115	25, <b>40, 55, 85</b> , 115

**POWERGRIP®**



	Pitch inch	mm	T mm	B mm	Length on roll (m)	Width - code Fibreglass	Steel
XL	1/5	5.080	1.27	2.30	30	<b>025, 031, 037, 050</b>	
L	3/8	9.525	1.91	3.60	30	037, <b>050, 075</b> , 100	
H	1/2	12.700	2.29	4.30	30	050, <b>075, 100</b> , 150, 200, 300	050, <b>075, 100</b> , 150, 200, 300

**Long Length ordering code is composed as follows:**

**5M-6-30m-ST**

- 5M** - Pitch 5 mm
- 6** - Belt width (mm)
- 30m** - Length on roll (m)
- ST** - Steel (material of tensile cords)

Dimensions in bold are available from stock.



## BELTS FOR CONVEYOR LINES



# TRANSMOTION™

Rubber synchronous belt with conveyor cord

Gates' TransMotion™ is the most powerful rubber belt in the market for conveyor applications. TransMotion™ guarantees a 100% reliability when it is used for assembly lines in the most diverse industries. It outlasts and outperforms roller chain and other high-performance rubber synchronous products.



### Identification

Three part number in white on the back of the belt indicating belt length, pitch and width.

### Construction

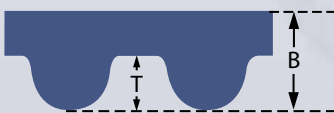
- Technically advanced compound with elastomeric teeth and backing and nylon facing.
- Conveyor cord provides superior tooth jump resistance and shock load

- resistance. Allows use in wash down applications.
- Supplied in an antistatic version for applications in the electronic industry where electronic discharge needs to be avoided.
- Elastomeric backing protects the cords from environmental pollution and frictional wear.
- Helically wound tensile member gives enormous strength, flex life and elongation resistance.
- Low friction nylon facing protects the tooth surface against wear.
- Precision-formed and accurately spaced elastomeric teeth.

### Advantages

- Compact drives and less weight.
- Positioning accuracy.
- Improved tooth jump resistance.
- Reduced noise levels.
- Cost-effective, long-lasting and virtually maintenance-free.
- Can be used on HTD® and RPP pulleys.

### Sections and nominal dimensions



	Pitch mm	T mm	B mm
8MGT	8.00	3.40	5.60

### 8MGT

Pitch: 8 mm

Length and pitch designation	Pitch length mm	Number of teeth
384 8MGT	384	48
480 8MGT	480	60
560 8MGT	560	70
600 8MGT	600	75
640 8MGT	640	80
720 8MGT	720	90
800 8MGT	800	100
840 8MGT	840	105
880 8MGT	880	110
920 8MGT	920	115
960 8MGT	960	120
1040 8MGT	1040	130
1064 8MGT	1064	133
1120 8MGT	1120	140
1160 8MGT	1160	145
1200 8MGT	1200	150
1280 8MGT	1280	160
1440 8MGT	1440	180
1512 8MGT	1512	189
1584 8MGT	1584	198
1600 8MGT	1600	200
1760 8MGT	1760	220
1800 8MGT	1800	225
2000 8MGT	2000	250
2400 8MGT	2400	300
2600 8MGT	2600	325
2800 8MGT	2800	350
3048 8MGT	3048	381
3280 8MGT	3280	410
3600 8MGT	3600	450
4400 8MGT	4400	550

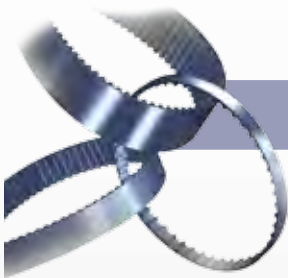
Available in widths of 20 mm, 30 mm, 50 mm and 85 mm.

TransMotion™ is only available on request. Please contact your Gates distributor or Gates representative.

**TransMotion™ ordering code is composed as follows:**

#### 384-8MGTM

**384** - Pitch length (mm)  
**8MGTM** - Pitch 8 mm



# POWERPAIN™

Paint and varnish compatible synchronous belt

Gates' PowerPain™ synchronous belt is specifically developed for use in painting areas, as found in the automotive and white goods industries where contamination of the painted product, from whatever source, is unacceptable. PowerPain™ ensures excellent performance on skid and roller conveyor systems where there may be a serious risk of product contamination.

Gates PowerPain™ passes the most stringent tests established by the automotive industry, which requires all components specified for use in a paint and varnish environment to be free of any source of contamination.

Gates' PowerPain™ belt ensures freedom of lubrication and maintenance, and paint and varnish compatibility. Contamination risks are excluded.



### Identification

Three part number on the back of the belt indicating pitch length, pitch code and width.

### Construction

- Precision-formed elastomeric teeth with curvilinear profile improve stress distribution and provide high power capacity.
- Accurately spaced teeth provide high positioning accuracy and optimum efficiency.
- Tough tensile cords ensure excellent flex life and high resistance to elongation.
- Available in:
  - Poly Chain® GT2 8MGT and 14MGT pitches
  - PowerGrip® GT3 5MGT, 8MGT and 14MGT pitches
  - PowerGrip® HTD® 3M, 5M, 8M and 14M pitches
  - TransMotion™ 8MGT pitch
  - Long Length PowerGrip® GT 3MR, 5MR and 8MR pitches
  - PowerGrip® HTD® 3M, 5M, 8M and 14M pitches
  - PowerGrip® XL, L and H pitches
  - Poly Chain® 8MGT and 14MGT pitches

### Advantages

- Runs well on fixed centre distance drives without elongation and offers long service life.
- No paint contamination risk.

PowerPain™ ordering code is composed as follows:

**PPT-800-8MGT3**

- PPT** - PowerPain™
- 800** - Pitch length (mm)
- 8MGT3** - Pitch 8 mm (PowerGrip® GT3)

PowerPain™ is only available on request. Please contact your Gates distributor or Gates representative.



## FLEXIBLE COUPLINGS FOR HIGH VIBRATION DAMPING

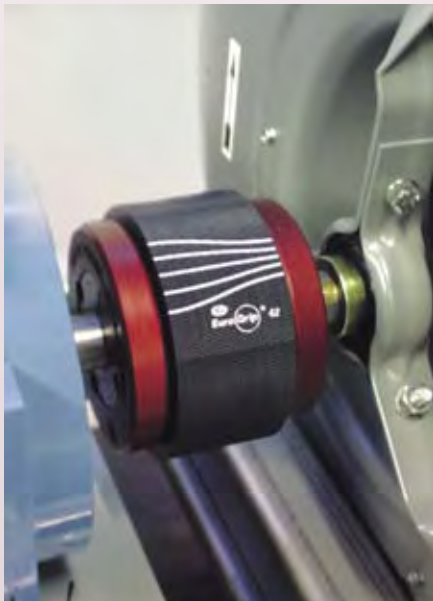


# **EUROGRIP®**

**Flexible couplings**

EuroGrip® flexible couplings are designed to connect two shafts subject to misalignment and axial movement and relieve the stress that would result from a rigid coupling. Gates EuroGrip® flexible couplings consist of a rubber sleeve and two metal end pieces. The design of Gates EuroGrip® flexible couplings is unique, with its OGEE lines allowing the coupling to act as a torque/life indicator for the drive.

Gates EuroGrip® flexible couplings are available in sizes 19, 28, 42, 48 and 60 and are bored to suit a taper bush or a plain bore and keyway. Gates EuroGrip® flexible couplings have high vibration damping capacity, which makes them especially suitable for direct drive applications in pumps and compressors. Their high compliance is especially appreciated by designers of speed control systems, where resonance can be a problem. The zero backlash characteristics result in high positioning accuracy and repeatability, allowing a wide range of applications in the linear actuator market.



### **Construction**

- Unique OGEE lines on the sleeve are an indicator of torque and product life.
- Sleeves are made of a high-performance elastomeric compound. The sleeve design allows the coupling to act as a predictable fuse in the system.
- End pieces are made of a high-grade aluminium to reduce weight and inertia. The aluminium end pieces are anodised to increase wear resistance and strength. Available either with finished bore and keyway or to suit a taper bush.
- Temperature ranges from -25°C to +100°C.

### **Advantages**

- High vibration damping. Damping increases with load, which will prevent resonance.
- Quiet in operation.
- Zero backlash and, consequently, high positioning accuracy.
- Easy to install and to replace. Can be inspected without stopping the drive.
- Built-in safety measure: the driven machine will stop when the coupling fails.
- High tolerance of combinations of radial and angular misalignment.
- Durable.
- Low inertia.
- Compact design.
- Light weight.

#### **NOTE**

For correct usage of the EuroGrip® flexible couplings, please request Gates' EuroGrip® manual (E2/20103).

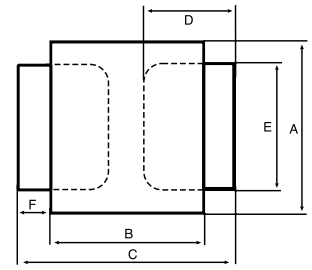




## Sleeve dimensions

The principal dimensions of a EuroGrip® sleeve are the outside diameter, the sleeve length and the total coupling length. Gates EuroGrip® couplings are made in sizes 19, 28, 42, 48 and 60.

Coupling size code	Nominal shaft mm	Sleeve OD mm (A)	Sleeve length mm (B)	Sleeve weight g	Coupling total length mm (C)
19	19	46	28	35	48
28	28	77	38	125	60
42	42	102	48	250	80
48	48	126	58	450	94
60	60	150	65	750	105



## End piece dimensions

The principal dimensions of a EuroGrip® end piece are the taper bush size, the bore, the end piece length and the shoulder diameter.

Coupling size code	Back fixed taper bush	Front fixed taper bush	Standard bore mm	End piece length mm (D)	Shoulder diameter mm (E)	Shoulder thickness mm (F)	Over tooth diameter mm	Inertia J kgm <sup>2</sup>	Weight with MPB <sup>(2)</sup> g
19 <sup>(1)</sup>	MPB <sup>(2)</sup>	MPB <sup>(2)</sup>	14 / 19	22	42	9	36	0.000009	50
28	1108	1008	24 / 28	28	72	11	62	0.000105	200
42	1615	1215	38 / 42	38	96	16	84	0.000469	550
48	2017	1615	48	45	118	18	104	0.001330	1000
60	2517	2017	55 / 60	50	136	20	120	0.002572	1350

(1) Size 19 available with bore and key only. All other EuroGrip® couplings (sizes 28, 42, 48 and 60) available with bore and key or to suit taper bush. Size 28 with 1108 taper bush requires a shallow key.

(2) MPB = Minimum Plain Bore.

### NOTE

End pieces are keyed according to ISO. Bore is to tolerance H7 fit (ISO). End pieces are also available with unfinished bore.

## Part numbers

Coupling	Part	Part number	Part	Part number
19	Sleeve	9901-51901	14 mm bore end piece	01914
			19 mm bore end piece	01919
			MPB end piece	01900
28	Sleeve	9901-52801	24 mm bore end piece	02824
			End piece for taper bush - back fixed (1108)	9902-02801
			End piece for taper bush - front fixed (1008)	9902-02802
42	Sleeve	9901-54201	38 mm bore end piece	04238
			End piece for taper bush - back fixed (1615)	9902-04201
			End piece for taper bush - front fixed (1215)	9902-04202
48	Sleeve	9901-54801	48 mm bore end piece	04848
			End piece for taper bush - back fixed (2017)	9902-04801
			End piece for taper bush - front fixed (1615)	9902-04802
60	Sleeve	9901-56001	55 mm bore end piece	06055
			End piece for taper bush - back fixed (2517)	9902-06001
			End piece for taper bush - front fixed (2017)	9902-06002



## 507C

### Sonic tension meter

Correct belt installation tension is essential for optimum performance and reliability of multi-ribbed, V-belt and synchronous belt drives. The 507C sonic tension meter ensures a simple and extremely accurate tension measurement by analysing sound waves (natural frequencies) from the belt through the sensor. It processes the input signals and gives an accurate digital display of tension.

Gates' tension tester is user-friendly: it is compact, computerised and stores data for repetitive use. Gates' sonic tension tester measures belt tension accurately every time.

It is supplied with a handy instruction manual.



#### Features

- Stores weight, width and span constants for up to twenty different drive systems.
- New auto gain adjustment function cancels out background noise automatically.
- Shuts off automatically after five minutes of inactivity, making it an energy-saving device.
- Measurement range: 10 Hz to 5000 Hz.
- Flexible sensor (cord and inductive sensor available on request).
- H 160 mm x D 26 mm x W 59 mm.
- Batteries: 2 x AAA.
- Suitable for V-belts, multi-ribbed belts and synchronous belts.
- CE approved.

#### Optional accessories

##### Cord sensor

The cord sensor is recommended for measuring tensions at a distance from the tension meter.

##### Inductive sensor

The inductive sensor is recommended for measurement particularly in noisy or windy environments. A steel clip to the back of the belt is required to measure the vibration frequency.

##### Sonic tension meter calibrator - model U-305-OS1

This special calibrator (oscillator) is available for the frequency test of the 507C sonic tension meter. This oscillator generates 5 types of oscillations (sine wave): 25, 90, 500, 2000 and 4000 Hz. It features a frequency accuracy of 0.1% or even lower.



CALIBRATOR MODEL U-305-OS1

#### NOTE

GATES SONIC TENSION METER SHOULD NOT BE USED IN EXPLOSIVE RISK AREAS.



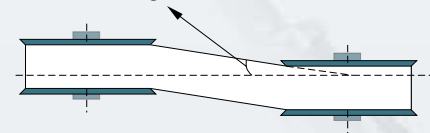
## LASER AT-1

### Laser alignment device

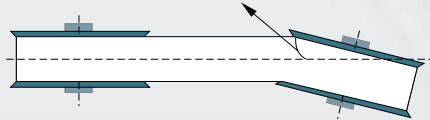
A fast and accurate method to measure misalignment is ensured by Gates' unique laser alignment device, LASER AT-1. Mounted in a few seconds, the laser line projected onto the targets allows you to quickly ascertain and correct misalignment. The LASER AT-1 identifies parallel as well as angular misalignment between the pulleys and is suitable for pulley diameters of 60 mm and larger. It is so light it can be mounted on non-magnetic pulleys with the double sided adhesive tape and used on both horizontal and vertical shaft installations.



Parallel misalignment



Angular misalignment



#### Advantages

- For both V-belts and synchronous belts.
- Shows parallel and angular misalignment between the pulleys.
- Much faster and more accurate than measuring with earlier, conventional methods.
- For both horizontally and vertically shaft machines.
- Alignment can be made by one operator.
- Also suitable for non-magnetic pulleys.

#### Technical characteristics

- Pulley diameters  $\geq 60$  mm
- Beam angle  $78^\circ$
- Measurement distance 10 m (33 ft)
- Battery 1 x R6 (AA) 1.5 V
- Battery operation 8 hours continuously
- Laser class 2
- Output power  $< 1$  mW
- Laser wave length 635 – 670 nm
- Temperature range  $-10^\circ\text{C}$  up to  $+50^\circ\text{C}$
- Housing ABS plastics
- Back plate Anodised aluminium
- Weight 0.25 kg
- Dimensions W 147 mm x H 87 mm x D 28 mm

**Calibration accuracy** Offset  $< 0.5$  mm  
Angle  $< 0.1^\circ$

**Targets** 2 pieces magnet targets with adjustable centre line

**Light weight** Because of its light weight it can be mounted on non-magnetic pulleys with double-sided adhesive tape.

#### NOTE

THE LASER AT-1 SHOULD NOT BE USED IN EXPLOSIVE RISK AREAS.



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### ***Technical know-how and application engineering***

At Gates you do not buy a mere product, you get complete, high performance and customised drive design solutions. When you choose Gates, you get more than the strongest, most advanced Power Transmission product line. Behind our leading industrial products is an entire company of professionals, armed with solutions. Gates offers the kind of support that leads to trust and value.

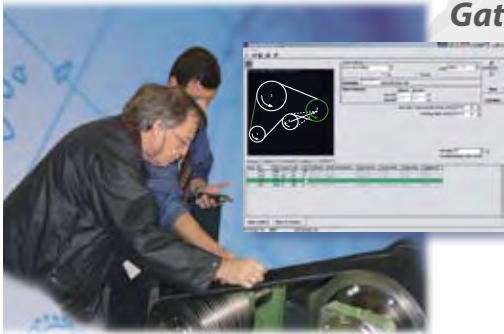
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### ***DesignFlex® calculation software***

You may calculate your own application by means of one of Gates' design manuals or by using DesignFlex®, a Windows-based multilingual software program. This software is available on CD-ROM (E/20098) but can also be downloaded from Gates' website at [www.gates.com](http://www.gates.com). DesignFlex® runs under Windows 95, 98, 2000, NT, Millennium, requires a Pentium 133 processor or higher and an 800 x 600 screen resolution or higher. A minimum of 32 MB RAM is recommended for satisfactory calculation speed.

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### ***Gates' application engineers at your service***

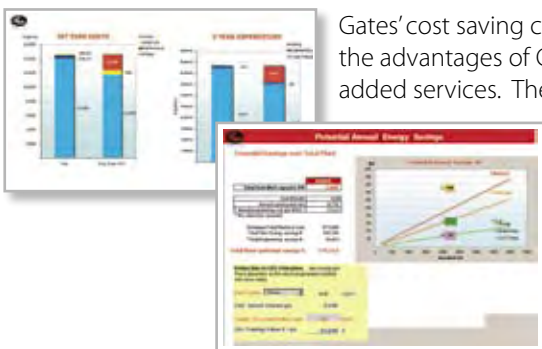


If your application cannot be designed with the aid of Gates' design manuals or the DesignFlex® software, you can always contact Gates' application engineers. They are at your service to solve even the most difficult drive design problem.

Gates' application engineers now use DESIGN IQ, a very powerful software program allowing them to calculate multiple pulley drives for the most diverse complex duty cycles

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### ***Gates cost saving calculator***



Gates' cost saving calculator contains all the tools and support you need to demonstrate the advantages of Gates' belt drive systems to your customers and reinforce your value added services. The energy saving calculations are based on the best information available and represent the typical saving that can be expected from correctly installed drive systems.

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### **Gates literature**

Please consult our web site at [www.gates.com](http://www.gates.com) for specific and updated information on other Gates industrial belt products and our list of available literature. Industrial Power Transmission brochures and leaflets can be downloaded from the site. Distributors may link up with the Gates European site thus supplying visitors with updated information on the European Gates organisation.



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