

GATES LATEST LEADING-EDGE BELTS

Quality, long-life products





100

1911 *Gates*® 2011

POWERING PROGRESS™

Powering Progress: 100 years of innovation and service

When Charles Gates Sr. bought The Colorado Tire and Leather Company in 1911, little did he know his small shop in Denver, Colorado, would evolve into one of the world's largest manufacturing enterprises. In 2011, Gates marks 100 years of innovation and service and celebrates its position as a world leader in engineering, manufacturing, marketing and distribution of industrial and automotive belt and hose products, systems, components and services.

From our modest beginning, Gates Corporation, formerly known as The Gates Rubber Company, has charted a global course that has seen the company expand into 29 countries around the world. Our success is attributed to the commitment and passion of many including our employees, our customers, our suppliers, and the communities in which we operate.

Gates today continues to power progress by delivering innovative solutions, continuously investing in engineering and research and development in order to meet its customers' current and future demands. This brochure contains an overview of Gates' latest state-of-the-art belts for a broad range of industrial applications, all built to meet or exceed international specifications.





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Quad-Power® III



Gates new generation raw edge V-belts

Because of today's increasing maintenance and energy costs, industry is becoming more aware of ways to improve efficiency and reduce operating expenses. Eliminating losses in power transmission systems can translate into large savings. Gates leads the way in the development of cost and energy-efficient belt drive systems and now brings you its new generation of Quad-Power® III notched raw edge narrow section V-belts. Gates Quad-Power® III belts deliver higher power ratings, increased trouble-free service life and reduced energy consumption. They are ideal for fans, compressors and pumps.

Advantages

- Extended temperature range: from -40°C up to +110°C.
- Extraordinary power capacity: at least 15% higher power ratings than Gates Quad-Power® II belts.
- Substantially reduced noise level.
- Space savings and design freedom.
- Minimal belt tension loss.
- Long and trouble-free service life reducing replacement and maintenance costs.
- Environment-friendly: halogen-free.

Sections and nominal dimensions



	Width mm	Height mm
XPZ/3VX	10	8
XPA	13	10
XPB/5VX	16	13
XPC	22	18

XPZ/3VX	
Description ISO / Datum length mm	Description RMA
XPZ600	3VX238
XPZ630	3VX250
XPZ637	3VX252
XPZ662	3VX262
XPZ670	3VX265
XPZ687	3VX272
XPZ710	3VX280
XPZ722	3VX286
XPZ730	3VX289
XPZ737	3VX292
XPZ750	3VX297
XPZ762	3VX300
XPZ772	3VX305
XPZ787	3VX311
XPZ800	3VX315
XPZ812	3VX321
XPZ837	3VX331
XPZ850	3VX335
XPZ862	3VX341
XPZ875	3VX346
XPZ887	3VX350
XPZ900	3VX355
XPZ912	3VX360
XPZ925	3VX366
XPZ937	3VX370
XPZ950	3VX375
XPZ962	3VX380
XPZ975	3VX385
XPZ980	3VX387
XPZ987	3VX390
XPZ1000	3VX395
XPZ1012	3VX400
XPZ1030	3VX407
XPZ1037	3VX410
XPZ1060	3VX419
XPZ1080	3VX425
XPZ1087	3VX429
XPZ1112	3VX439
XPZ1120	3VX442
XPZ1140	3VX450
XPZ1150	3VX454
XPZ1162	3VX459
XPZ1180	3VX464
XPZ1187	3VX469
XPZ1202	3VX475
XPZ1212	3VX479
XPZ1237	3VX487
XPZ1250	3VX494
XPZ1262	3VX498
XPZ1270	3VX500
XPZ1280	3VX505
XPZ1287	3VX508
XPZ1312	3VX518
XPZ1320	3VX520
XPZ1337	3VX530
XPZ1362	3VX538
XPZ1400	3VX553
XPZ1412	3VX557
XPZ1420	3VX560
XPZ1437	3VX567
XPZ1450	3VX572
XPZ1487	3VX587
XPZ1500	3VX592
XPZ1512	3VX597
XPZ1520	3VX600
XPZ1537	3VX607
XPZ1550	3VX612
XPZ1587	3VX626
XPZ1600	3VX630
XPZ1650	3VX650
XPZ1687	3VX666
XPZ1700	3VX670
XPZ1750	3VX690
XPZ1800	3VX710
XPZ1850	3VX730

XPZ/3VX	
Description ISO / Datum length mm	Description RMA
XPZ1900	3VX750
XPZ1950	3VX771
XPZ2000	3VX790
XPZ2030	3VX800
XPZ2120	3VX836
XPZ2160	3VX850
XPZ2240	3VX883
XPZ2280	3VX900
XPZ2360	3VX931
XPZ2410	3VX950
XPZ2500	3VX986
XPZ2540	3VX1000
XPZ2650	3VX1045
XPZ2690	3VX1060
XPZ2800	3VX1104
XPZ2840	3VX1120
XPZ3000	3VX1180
XPZ3150	3VX1242
XPZ3350	3VX1320
XPZ3550	3VX1400

XPA	
Description ISO / Datum length mm	
XPA690	
XPA732	
XPA747	
XPA757	
XPA782	
XPA800	
XPA832	
XPA850	
XPA857	
XPA882	
XPA900	
XPA907	
XPA925	
XPA932	
XPA950	
XPA957	
XPA975	
XPA982	
XPA1000	
XPA1007	
XPA1030	
XPA1060	
XPA1069	
XPA1082	
XPA1090	
XPA1107	
XPA1120	
XPA1140	
XPA1150	
XPA1157	
XPA1180	
XPA1207	
XPA1215	
XPA1232	
XPA1250	
XPA1257	
XPA1282	
XPA1285	
XPA1307	
XPA1320	
XPA1332	
XPA1357	
XPA1360	
XPA1367	

XPA	
Description ISO / Datum length mm	
XPA1382	
XPA1400	
XPA1450	
XPA1457	
XPA1482	
XPA1500	
XPA1507	
XPA1532	
XPA1550	
XPA1582	
XPA1600	
XPA1632	
XPA1650	
XPA1657	
XPA1680	
XPA1700	
XPA1732	
XPA1750	
XPA1782	
XPA1800	
XPA1850	
XPA1900	
XPA1950	
XPA2000	
XPA2060	
XPA2120	
XPA2132	
XPA2180	
XPA2240	
XPA2360	
XPA2430	
XPA2500	
XPA2580	
XPA2650	
XPA2800	
XPA3000	
XPA3150	
XPA3350	
XPA3550	
XPA3750	
XPA4000	

XPB/5VX	
Description ISO / Datum length mm	Description RMA
XPB1000	5VX398
XPB1060	5VX422
XPB1080	5VX430
XPB1120	5VX445
XPB1180	5VX470
XPB1250	5VX497
XPB1260	5VX500
XPB1313	5VX521
XPB1320	5VX524
XPB1340	5VX530
XPB1400	5VX556
XPB1410	5VX560
XPB1446	5VX574
XPB1450	5VX575
XPB1500	5VX595
XPB1510	5VX600
XPB1550	5VX615
XPB1590	5VX630
XPB1600	5VX634
XPB1650	5VX654
XPB1690	5VX670
XPB1700	5VX674
XPB1750	5VX693

XPB/5VX	
Description ISO / Datum length mm	Description RMA
XPB1800	5VX713
XPB1850	5VX733
XPB1900	5VX753
XPB1950	5VX772
XPB2000	5VX790
XPB2020	5VX800
XPB2120	5VX840
XPB2150	5VX850
XPB2186	5VX860
XPB2240	5VX886
XPB2280	5VX900
XPB2300	5VX910
XPB2360	5VX934
XPB2410	5VX953
XPB2433	5VX960
XPB2500	5VX990
XPB2530	5VX1000
XPB2650	5VX1050
XPB2680	5VX1060
XPB2800	5VX1108
XPB2840	5VX1123
XPB2900	5VX1146
XPB2990	5VX1180
XPB3000	5VX1186
XPB3150	5VX1245
XPB3160	5VX1250
XPB3320	5VX1312
XPB3350	5VX1323
XPB3440	5VX1359
XPB3550	5VX1400
XPB3705	5VX1463
XPB3750	5VX1481
XPB3800	5VX1500
XPB3870	5VX1528
XPB4000	5VX1579
XPB4053	5VX1600
XPB4250	5VX1678
XPB4307	5VX1700
XPB4500	5VX1776
XPB4560	5VX1800
XPB4750	5VX1875
XPB4815	5VX1900
XPB5000	5VX1973
XPB5070	5VX2000

XPC	
Description ISO / Datum length mm	
XPC1900	
XPC2000	
XPC2120	
XPC2240	
XPC2360	
XPC2500	
XPC2650	
XPC2800	
XPC3000	
XPC3150	
XPC3350	
XPC3550	
XPC3730	
XPC3750	
XPC4000	
XPC4250	
XPC4500	
XPC4750	
XPC5000	

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

XPZ600

XPZ - Section

600 - Datum length (mm)

Dimensions in bold are available from stock.



The highest rated and most robust V-belt ever designed

Gates Predator® V-belts are unique in their extreme robustness and high load carrying capability. They are excellent problem solvers that perform well in harsh environments and in extremely demanding applications where standard V-belts have performance issues. The Predator® belt difference is in the construction: they have the highest power capacity of any V-belt and virtually zero stretch because of the use of high strength, high modulus aramid tensile cords. They are available as PowerBand® belts in SPBP, SPCP, 9JP, 15JP and 8VP sections and as single belts in AP, BP, CP, SPBP, SPCP and 8VP sections. Predator® is especially suited for agriculture, forestry, mining, construction, manufacturing and aggregate industry (e.g. quarrying, crushing...).

Advantages

- At least 40% higher power ratings than standard construction V-belts.
- Aramid tensile cords provide extraordinary strength, durability and virtually zero stretch.
- Specially treated extra tough cover withstands slip and shear forces at peak loads without generating excessive heat and resists penetration by foreign materials.
- Non-rubber surfaced cover allows momentary slippage due to excessive overloads without damaging the belt.
- No need for constant belt re-tensioning.
- Less maintenance, less downtime.
- Excellent problem solver.

SPBP	
Description	Datum length mm
SPBP2120	2120
SPBP2240	2240
SPBP2360	2360
SPBP2500	2500
SPBP2650	2650
SPBP2800	2800
SPBP3000	3000
SPBP3150	3150
SPBP3350	3350
SPBP3550	3550
SPBP3750	3750
SPBP4000	4000
SPBP4250	4250
SPBP4500	4500
SPBP4750	4750
SPBP5000	5000
SPBP5300	5300
SPBP5600	5600
SPBP6000	6000
SPBP6300	6300
SPBP6700	6700
SPBP7100	7100
SPBP7500	7500
SPBP8000	8000

SPCP	
Description	Datum length mm
SPCP3000	3000
SPCP3150	3150
SPCP3350	3350
SPCP3550	3550
SPCP3750	3750
SPCP4000	4000
SPCP4250	4250
SPCP4500	4500
SPCP4750	4750
SPCP5000	5000
SPCP5300	5300
SPCP5600	5600
SPCP6000	6000
SPCP6300	6300
SPCP6700	6700
SPCP7100	7100
SPCP7500	7500
SPCP8000	8000
SPCP8500	8500
SPCP9000	9000
SPCP10000	10000
SPCP10600	10600
SPCP11200	11200

9JP	
Description	Effective length mm
9JP1400	1400
9JP1500	1500
9JP1600	1600
9JP1700	1700
9JP1800	1800
9JP1900	1900
9JP2000	2000
9JP2120	2120
9JP2240	2240
9JP2360	2360
9JP2500	2500
9JP2650	2650
9JP2800	2800
9JP3000	3000
9JP3150	3150
9JP3350	3350
9JP3550	3550

15JP	
Description	Effective length mm
15JP1400	1400
15JP1500	1500
15JP1600	1600
15JP1700	1700
15JP1800	1800
15JP1900	1900
15JP2000	2000
15JP2120	2120
15JP2240	2240
15JP2360	2360
15JP2500	2500
15JP2650	2650
15JP2800	2800
15JP3000	3000
15JP3150	3150
15JP3350	3350
15JP3550	3550
15JP3750	3750
15JP4000	4000
15JP4250	4250
15JP4500	4500
15JP4750	4750
15JP5000	5000
15JP5300	5300
15JP5600	5600
15JP6000	6000
15JP6300	6300
15JP6700	6700
15JP7100	7100
15JP7500	7500
15JP8000	8000
15JP8500	8500
15JP9000	9000

8VP	
Description	Effective length mm
8VP1000	2540
8VP1060	2690
8VP1120	2845
8VP1180	2995
8VP1250	3175
8VP1320	3355
8VP1400	3555
8VP1500	3810
8VP1600	4065
8VP1700	4320
8VP1800	4570
8VP1900	4825
8VP2000	5080
8VP2120	5385
8VP2240	5690
8VP2360	5995
8VP2500	6350
8VP2650	6730
8VP2800	7110
8VP3000	7620
8VP3150	8000
8VP3350	8510
8VP3550	9015
8VP3750	9525
8VP4000	10160
8VP4250	10795
8VP4500	11430
8VP4750	12065
8VP5000	12700
8VP5600	14225
8VP6000	15240

Sections and nominal dimensions



	Pitch mm	Width mm	Height mm
SPBP	19.0	16	13
SPCP	25.5	22	18
9JP	10.3	10	8
15JP	17.5	16	13
8VP	28.6	26	23

Available number of ribs

SPBP	2 → 16
SPCP	2 → 12
9JP	2 → 30
15JP	2 → 16
8VP	3 → 5

Predator® ordering code is composed as follows:

SPBP3350/3

SPBP - Section

3350 - Datum length (mm)

3 - Number of ribs

Dimensions in bold are available from stock.



Polyurethane synchronous belt with patented carbon tensile cords

Through providing you with precise drive solutions of unsurpassed quality and leading edge technology Gates brings you the ultimate in synchronous drive systems. Poly Chain® GT Carbon™ is Gates' newest polyurethane synchronous belt with patented carbon tensile cord design also suited for high torque, low speed drives. The materials development engineers from Gates are the first to have incorporated a high fatigue-resisting carbon fibre tensile cord into the belt which is made of a new polyurethane compound. Consequently, Poly Chain® GT Carbon™ is the most powerful synchronous belt in the market providing a maintenance-free, energy-saving and environmentally friendly operation offering an excellent alternative to roller chain and gear drives. The belt can be used for a wide range of applications: industrial equipment (mining, construction, food and beverage, wood, paper, pulp, textile), conveying equipment, lifting and handling equipment, agricultural and forestry equipment, machine tools, motorcycle rear wheel drives, bicycle drives, and many more.

Advantages

- Extraordinary power capacity.
- The basic belt consists of a newly developed tough, lightweight polyurethane compound which is chemically resistant and ensures optimum adhesion with the carbon tensile cords.
- The carbon fibre reinforcement provides high strength and length stability with improved shock load and fatigue resistance, while reducing stretch and increasing flexibility.
- The facing is a nylon fabric that acts as a wear resistant surface, protecting the teeth. It also helps to keep frictional losses to a minimum.
- Clean, quiet, compact, durable, maintenance-free, energy-saving and environmentally friendly operation.
- Ability to use back idlers.
- Suitable for temperatures from -54°C to +85°C. Special versions can be used up to 140°C.

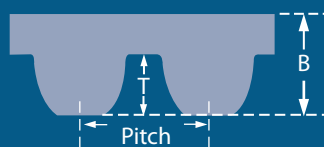
8MGT		
Pitch: 8 mm		
Description	Pitch length mm	Number of teeth
8MGTC-640	640	80
8MGTC-720	720	90
8MGTC-800	800	100
8MGTC-896	896	112
8MGTC-960	960	120
8MGTC-1000	1000	125
8MGTC-1040	1040	130
8MGTC-1120	1120	140
8MGTC-1200	1200	150
8MGTC-1224	1224	153
8MGTC-1280	1280	160
8MGTC-1440	1440	180
8MGTC-1600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

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

14MGT		
Pitch: 14 mm		
Description	Pitch length mm	Number of teeth
14MGTC-994	994	71
14MGTC-1120	1120	80
14MGTC-1190	1190	85
14MGTC-1260	1260	90
14MGTC-1400	1400	100
14MGTC-1568	1568	112
14MGTC-1610	1610	115
14MGTC-1750	1750	125
14MGTC-1890	1890	135
14MGTC-1960	1960	140
14MGTC-2100	2100	150
14MGTC-2240	2240	160
14MGTC-2310	2310	165
14MGTC-2380	2380	170
14MGTC-2450	2450	175
14MGTC-2520	2520	180
14MGTC-2590	2590	185
14MGTC-2660	2660	190
14MGTC-2800	2800	200
14MGTC-3136	3136	224
14MGTC-3304	3304	236
14MGTC-3360	3360	240
14MGTC-3500	3500	250
14MGTC-3850	3850	275
14MGTC-3920	3920	280
14MGTC-4326	4326	309
14MGTC-4410	4410	315
*14MGTC-4578	4578	327
*14MGTC-4956	4956	354
*14MGTC-5320	5320	380
*14MGTC-5740	5740	410
*14MGTC-6160	6160	440
*14MGTC-6860	6860	490

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

Sections and nominal dimensions



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

Poly Chain® GT Carbon™ ordering code is composed as follows:

14MGTC-3360-37

14MGTC - Pitch 14 mm

3360 - Pitch length (mm)

37 - Belt width (mm)

All dimensions are available from stock.

NOTES

Poly Chain® GT Carbon™ is also available in three special belt types: Poly Chain® GT Carbon™ High Temperature, Poly Chain® GT Carbon™ Hot Oil and Poly Chain® GT Carbon™ Extended Length. Poly Chain® GT Carbon™ High Temperature and Poly Chain® GT Carbon™ Hot Oil are available in standard lengths up to 2000 mm. The belts are only available on request. For more detailed information, please contact your Gates representative.

Poly Chain® GT Carbon™ Extended Length range

Thanks to a new production process which enables belt manufacture per tooth increment, Gates is able to manufacture longer Poly Chain® GT Carbon™ endless belts and wider Long Length Poly Chain® GT Carbon™ open-end belts. Non-standard lengths from 4410 mm to virtually any length can be produced in both 8MGT and 14MGT pitches on a made-to-order basis. This special construction makes it possible to equip long centre-distance applications with Gates Poly Chain® GT Carbon™.

* **NEW!** Poly Chain® GT Carbon™ Extended Length. Only available in standard widths of 37 mm, 68 mm and 90 mm.



Expands the limits of your power transmission solutions

PowerGrip® GTE is the latest addition to the synchronous belt range. This technically advanced belt is made out of environmentally-friendly EPDM and covers the widest range of industrial applications. Through the use of EPDM the PowerGrip® GTE belt has an increased resistance to extreme high and low temperatures. Available in 8MGT and 14MGT pitches, these belts are the optimum choice for high performance drives in the machine tool, paper and textile industries where durability and low maintenance are required. The entire belt range is suited both for new drive designs as for replacements on existing drives without any adaptation of the system.

Advantages

- Extended high performance temperature range from -40°C up to 120°C (140°C).
- 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.
- Reduced maintenance costs thanks to longer service life.
- Static conductive (ISO 9563) and can as such be used in the conditions described in the Directive 94/9/EC - ATEX.
- RoHS and REACH compliant.
- Environment-friendly: halogen-free.
- No lubrication needed.
- Used on HTD® type pulleys. (8MGT and 14MGT pitch).

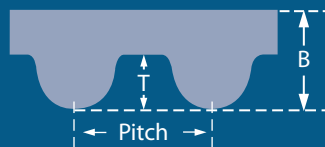
8MGT		
Pitch: 8 mm		
Description	Pitch length mm	Number of teeth
384-8MGTE	384	48
480-8MGTE	480	60
560-8MGTE	560	70
600-8MGTE	600	75
640-8MGTE	640	80
720-8MGTE	720	90
800-8MGTE	800	100
840-8MGTE	840	105
880-8MGTE	880	110
920-8MGTE	920	115
960-8MGTE	960	120
1040-8MGTE	1040	130
1064-8MGTE	1064	133
1120-8MGTE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

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

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

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

Sections and nominal dimensions



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

PowerGrip® GTE ordering code is composed as follows:

384-8MGTE-20

384 - Pitch length (mm)

8MGTE - Pitch 8 mm

20 - Belt width (mm)

All dimensions are available from stock.



First class performance on power transmission and linear applications

Gates Synchro-Power® polyurethane belts are designed for long lasting and energy-efficient performance on both power transmission and linear applications. These belts feature highly flexible, wear and fatigue resistant polyurethane to suit a wide range of loads, speeds and applications. They are manufactured as endless and open-end belts in various sizes, constructions and tooth designs. Our product quality is visible through numerous details: tight and accurate tolerances guarantee perfect tooth meshing. Gates Synchro-Power® blue sleeves are the most recent addition to the polyurethane belt product range and can be easily recognised by their blue color. They are cast on fixed moulds with thermoset polyurethane in combination with helically wound steel and aramid cords available in widths up to 380 mm. They are commonly used for automatic assembly operations, horizontal and vertical doors, printing applications, conveying equipment, textile industry, packaging machinery, and many more.

Advantages

- Synchro-Power® truly endless (cast) belts:
 - Standard lengths up to 2250 mm.
- Synchro-Power® Long Length belts:
 - Manufactured as open-end, extruded belts which can be easily cut to length.
 - Roll lengths up to 100 m available.
 - Special lengths are available upon request.
- Wide range of standard tooth profiles to meet all application requirements.
- Clean, quiet and smooth-running operation with low maintenance features.
- Standard product suited for -5°C up to +70°C.

For applications outside this range, please consult your Gates representative.

Sections and nominal dimensions

T series



	Pitch mm	T mm	B mm
T2.5	2.5	0.7	1.3
T5	5.0	1.2	2.2
T10	10.0	2.5	4.5
T20	20.0	5.0	8.0

AT series



	Pitch mm	T mm	B mm
AT5	5.0	1.2	2.7
AT10	10.0	2.5	4.5*
AT20	20.0	5.0	8.0

* For endless AT10 Synchro-Power® belts and sleeves, B = 5.0 mm.

ATL series



	Pitch mm	T mm	B mm
ATL5	5.0	1.2	2.7
ATL10	10.0	2.5	4.8
ATL20	20.0	5.0	8.0

DL series



	Pitch mm	T mm	B mm
DL-T5	5.0	1.2	3.4
DL-T10	10.0	2.5	7.0

HTD® series



	Pitch mm	T mm	B mm
HTD5M	5.0	2.1	3.6
HTD8M	8.0	3.4	5.6
HTD14M	14.0	6.0	10.0

HTDL® series



	Pitch mm	T mm	B mm
HTDL14M	14.0	6.0	10.0

HPL® series



	Pitch mm	T mm	B mm
HPL14M	14.0	6.0	10.0

STD series



	Pitch mm	T mm	B mm
STD5M	5.0	1.9	3.3
STD8M	8.0	3.0	5.1

Trapezoidal series



	Pitch mm	T mm	B mm
XL	5.08	1.27	2.29
L	9.525	1.91	3.56
H	12.70	2.29	4.06
XH	22.225	6.35	11.18

Flat series



	B mm
F8	2.0
F12	3.2

Wide belts** (widths up to 450 mm)



	Pitch mm	T mm	B mm
WH	12.70	2.29	4.06
WT10	10.0	2.5	4.5
GMT3™	3.0	1.2	2.8

Self-tracking belts** (Linear belts)



	Integral V-guide	Pitch mm	T mm	B mm
T5V	K6	5.0	1.2	5.0
AT5V	K6	5.0	1.2	5.5
ATL5V	K6	5.0	1.2	5.5
T10VS	K6	10.0	2.5	6.0
T10V	K13	10.0	2.5	8.5
AT10V	K13	10.0	2.5	8.5
HV	A-Section	12.70	2.29	8.3

** For more detailed information, please contact Gates Mectrol GmbH customer service or refer to the product-specific catalogue (ref. E2/20166 ED2011).

Endless belts

T2.5		
Pitch: 2.5 mm		
Description	Pitch length mm	Number of teeth
PU-T2.5	120	48
PU-T2.5	145	58
PU-T2.5	160	64
PU-T2.5	177.5	71
PU-T2.5	180	72
PU-T2.5	200	80
PU-T2.5	210	84
PU-T2.5	230	92
PU-T2.5	245	98
PU-T2.5	265	106
PU-T2.5	277.5	111
PU-T2.5	285	114
PU-T2.5	290	116
PU-T2.5	305	122
PU-T2.5	317.5	127
PU-T2.5	330	132
PU-T2.5	342.5	137
PU-T2.5	380	152
PU-T2.5	420	168
PU-T2.5	480	192
PU-T2.5	500	200
PU-T2.5	540	216
PU-T2.5	600	240
PU-T2.5	620	248
PU-T2.5	650	260
PU-T2.5	780	312
PU-T2.5	915	366
PU-T2.5	950	380

Available in widths of 4 mm, 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 25 mm, 32 mm and 50 mm.

T5		
Pitch: 5 mm		
Description	Pitch length mm	Number of teeth
PU-T5	165	33
PU-T5	185	37
PU-T5	200	40
PU-T5	215	43
PU-T5	220	44
PU-T5	225	45
PU-T5	245	49
PU-T5	250	50
PU-T5	255	51
PU-T5	260	52
PU-T5	270	54
PU-T5	275	55
PU-T5	280	56
PU-T5	295	59
PU-T5	300	60
PU-T5	305	61
PU-T5	320	64
PU-T5	325	65
PU-T5	330	66
PU-T5	340	68
PU-T5	350	70
PU-T5	355	71
PU-T5	365	73
PU-T5	375	75
PU-T5	390	78
PU-T5	400	80
PU-T5	410	82
PU-T5	420	84
PU-T5	425	85
PU-T5	430	86
PU-T5	440	88
PU-T5	445	89

T5		
Pitch: 5 mm		
Description	Pitch length mm	Number of teeth
PU-T5	450	90
PU-T5	455	91
PU-T5	460	92
PU-T5	475	95
PU-T5	480	96
PU-T5	500	100
PU-T5	510	102
PU-T5	525	105
PU-T5	545	109
PU-T5	550	110
PU-T5	560	112
PU-T5	575	115
PU-T5	590	118
PU-T5	600	120
PU-T5	610	122
PU-T5	620	124
PU-T5	625	125
PU-T5	630	126
PU-T5	640	128
PU-T5	650	130
PU-T5	660	132
PU-T5	690	138
PU-T5	700	140
PU-T5	720	144
PU-T5	725	145
PU-T5	750	150
PU-T5	780	156
PU-T5	800	160
PU-T5	815	163
PU-T5	840	168
PU-T5	850	170
PU-T5	900	180
PU-T5	940	188
PU-T5	990	198
PU-T5	1000	200
PU-T5	1075	215
PU-T5	1100	220
PU-T5	1215	243
PU-T5	1315	263
PU-T5	1350	270
PU-T5	1380	276
PU-T5	1440	288

Available in widths of 4 mm, 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 25 mm, 32 mm, 50 mm and 75 mm.

T10		
Pitch: 10 mm		
Description	Pitch length mm	Number of teeth
PU-T10	260	26
PU-T10	320	32
PU-T10	370	37
PU-T10	400	40
PU-T10	410	41
PU-T10	440	44
PU-T10	450	45
PU-T10	500	50
PU-T10	530	53
PU-T10	550	55
PU-T10	560	56
PU-T10	600	60
PU-T10	610	61
PU-T10	630	63
PU-T10	650	65
PU-T10	660	66
PU-T10	690	69
PU-T10	700	70
PU-T10	720	72
PU-T10	750	75
PU-T10	780	78
PU-T10	800	80

T10		
Pitch: 10 mm		
Description	Pitch length mm	Number of teeth
PU-T10	810	81
PU-T10	840	84
PU-T10	850	85
PU-T10	880	88
PU-T10	890	89
PU-T10	900	90
PU-T10	910	91
PU-T10	920	92
PU-T10	950	95
PU-T10	960	96
PU-T10	970	97
PU-T10	980	98
PU-T10	1000	100
PU-T10	1010	101
PU-T10	1050	105
PU-T10	1080	108
PU-T10	1100	110
PU-T10	1110	111
PU-T10	1140	114
PU-T10	1150	115
PU-T10	1200	120
PU-T10	1210	121
PU-T10	1240	124
PU-T10	1250	125
PU-T10	1300	130
PU-T10	1320	132
PU-T10	1350	135
PU-T10	1390	139
PU-T10	1400	140
PU-T10	1420	142
PU-T10	1440	144
PU-T10	1450	145
PU-T10	1460	146
PU-T10	1500	150
PU-T10	1560	156
PU-T10	1600	160
PU-T10	1610	161
PU-T10	1700	170
PU-T10	1750	175
PU-T10	1780	178
PU-T10	1800	180
PU-T10	1880	188
PU-T10	1960	196
PU-T10	2250	225

Available in widths of 10 mm, 12 mm, 16 mm, 20 mm, 25 mm, 32 mm, 50 mm and 75 mm.

AT5		
Pitch: 5 mm		
Description	Pitch length mm	Number of teeth
PU-AT5	225	45
PU-AT5	280	56
PU-AT5	300	60
PU-AT5	340	68
PU-AT5	375	75
PU-AT5	390	78
PU-AT5	420	84
PU-AT5	450	90
PU-AT5	455	91
PU-AT5	500	100
PU-AT5	545	109
PU-AT5	600	120
PU-AT5	610	122
PU-AT5	660	132
PU-AT5	710	142
PU-AT5	720	144
PU-AT5	750	150
PU-AT5	780	156
PU-AT5	825	165
PU-AT5	860	172
PU-AT5	975	195
PU-AT5	1050	210
PU-AT5	1500	300

Available in widths of 4 mm, 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 25 mm, 32 mm, 50 mm and 75 mm.

AT10		
Pitch: 10 mm		
Description	Pitch length mm	Number of teeth
PU-AT10	500	50
PU-AT10	560	56
PU-AT10	610	61
PU-AT10	660	66
PU-AT10	700	70
PU-AT10	730	73
PU-AT10	780	78
PU-AT10	800	80
PU-AT10	840	84
PU-AT10	890	89
PU-AT10	920	92
PU-AT10	960	96
PU-AT10	980	98
PU-AT10	1010	101
PU-AT10	1050	105
PU-AT10	1080	108
PU-AT10	1100	110
PU-AT10	1150	115
PU-AT10	1200	120
PU-AT10	1210	121
PU-AT10	1250	125
PU-AT10	1280	128
PU-AT10	1320	132
PU-AT10	1350	135
PU-AT10	1360	136
PU-AT10	1400	140
PU-AT10	1420	142
PU-AT10	1480	148
PU-AT10	1500	150
PU-AT10	1600	160
PU-AT10	1700	170
PU-AT10	1800	180
PU-AT10	1860	186
PU-AT10	1940	194

Available in widths of 10 mm, 12 mm, 16 mm, 20 mm, 25 mm, 32 mm, 50 mm and 75 mm.

DL-T5		
Pitch: 5 mm		
Description	Pitch length mm	Number of teeth
DL-PU-T5	300	60
DL-PU-T5	400	80
DL-PU-T5	410	82
DL-PU-T5	450	90
DL-PU-T5	460	92
DL-PU-T5	480	96
DL-PU-T5	500	100
DL-PU-T5	515	103
DL-PU-T5	550	110
DL-PU-T5	590	118
DL-PU-T5	600	120
DL-PU-T5	620	124
DL-PU-T5	650	130
DL-PU-T5	700	140
DL-PU-T5	750	150
DL-PU-T5	815	163
DL-PU-T5	900	180
DL-PU-T5	940	188
DL-PU-T5	1100	220

Available in widths of 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 25 mm, 32 mm, 50 mm and 75 mm.

DL-T10		
Pitch: 10 mm		
Description	Pitch length mm	Number of teeth
DL-PU-T10	600	60
DL-PU-T10	630	63
DL-PU-T10	660	66
DL-PU-T10	700	70
DL-PU-T10	750	75
DL-PU-T10	800	80
DL-PU-T10	840	84
DL-PU-T10	900	90
DL-PU-T10	980	98
DL-PU-T10	1000	100
DL-PU-T10	1100	110
DL-PU-T10	1200	120
DL-PU-T10	1210	121
DL-PU-T10	1300	130
DL-PU-T10	1320	132
DL-PU-T10	1420	142
DL-PU-T10	1600	160
DL-PU-T10	1610	161
DL-PU-T10	1700	170
DL-PU-T10	1880	188

Available in widths of 10 mm, 12 mm, 16 mm, 20 mm, 25 mm, 32 mm and 50 mm.

Open-end belts

Pitch	Widths	Roll length m	Steel cords				Aramid cords				Stainless steel cords
			STAND.	NT	NB	NTB	STAND.	NT	NB	NTB	NIRO
AT5	6,10,16,20,25,32,50,75,100	100	*	*	*	*	*	*			
AT10	16,25,32,50,75,100,150	100	*	*	*	*	*	*	*	*	*
AT10HB	16,25,32,50,75,100,150	100	*	*	*	*					
AT20	25,32,50,75,100,150	50	*	*	*	*					
ATL5	6,10,16,20,25,32,50	100	*	*	*	*					
ATL10	16,25,32,50,75,100,150	100	*	*	*	*					
ATL10HF	16,25,32,50,75,100,150	100	*	*	*	*					
ATL20	32,50,75,100,150	50	*	*	*	*					
T5	10,16,25,32,50,75,100	100	*	*	*	*	*	*	*	*	
T10	12,16,25,32,40, 50,75,100,150	100	*	*	*	*	*	*	*	*	
T10HB	12,16,25,32,40,50,75,100,150	100	*	*			*	*			
T10HF	12,16,25,32,50,75,100,150	100	*	*	*	*					
T20	25,32,50,75,100,150	50	*	*	*	*	*				
HTD5M	5,10,15,25,50,85,100,150	100	*	*	*	*					
HTD8M	10,15,20,25,30,50,85,100,150	100	*	*	*	*					*
HTD14M	25,40,55,85,100,115,170	50	*	*	*	*					
HTDL14M	25,40,55,85,100,115,170	50	*	*	*	*					
HPL14M	55,85,115,170	50	*	*							
STD5M	5,10,15,25,50	100	*	*	*	*					
STD8M	10,15,20,25,30,50,85,100	100	*	*	*	*					
XL	025,031,037, 050,075,100,200	100	*	*	*	*	*	*	*	*	
L	037,050,075,100,150,200,400	100	*	*	*	*	*	*	*	*	
H	050,075,100,150,200,300,400,600	100	*	*	*	*	*	*	*	*	
XH	100,150,200,300,400,600	30	*	*	*	*					
F8	100,200,300,400	61	*	*		*					
F12	100,200,300,400	61	*	*		*					

STAND. = Standard

NT = Nylon teeth

NB = Nylon back

NTB = Nylon teeth and back

HB = Heavy backing PU

HF = High flexible steel cords

ATL = AT profile with reinforced steel cords

NIRO = Stainless steel

Endless Synchro-Power® ordering code is composed as follows:

T10-440-50

T10 - Pitch T10 10 mm

440 - Pitch length (mm)

50 - Belt width (mm)

All dimensions are available from stock.

Open-end Synchro-Power® ordering code is composed as follows:

PU-T10-50-100M-AR-NB

PU - Polyurethane

T10 - Pitch T10 10 mm

50 - Belt width (mm)

100M - Roll length (m)

AR - Aramid tensile cords

NB - Nylon Back

Please refer to the Gates Price List for specifics on stock availability.

Customized polyurethane belt products*



Gates' standard Synchro-Power® product range covers a multitude of applications. If your process requires a belt design that meets very specific application needs, Gates also offers a variety of customized polyurethane belt products. These tailor-made polyurethane belts fulfill the most challenging requirements making them the perfect supplement to the Gates standard Synchro-Power® product offering.

Linear belts (Long Length)

Linear belts provide the greatest degree of flexibility for synchronous conveying and linear positioning applications. The vast variety of cord types, PU resins and coatings ensure a wide range of possible configurations for your application. Linear belts are manufactured as endless welded and open-end rolls in various sizes, constructions and tooth designs.

Endless welded belts of virtually any length can be produced utilizing a thermal welding process. Self-tracking belts have all the capabilities of regular polyurethane belts, but utilise V-guides to eliminate any lateral movement. Our authorized fabricators throughout Europe have been appointed to stock and weld Gates customized polyurethane belts to deliver endless welded belts at short-term.

Flat belts

The extruded, high strength polyurethane belts are commonly used in lifting and conveying applications. They are typically sold as open-end belts in combination with clamp plates often used in motion control applications in which one belt end is anchored.

Wide belts

These belts are specifically designed for synchronous conveying applications in widths up to 450 mm. Wide belts are primarily used as process conveyor belts for industries such as food, hygienic products and confectionary.

Flex belts

These high quality, thermoplastic Flex belts are manufactured as truly endless, extruded timing belts with standard custom lengths ranging from 1500 to 24000 mm. Helically wound steel cords ensure high strength and truly endless power transmission capabilities.

Fabrication capabilities

Additionally, Gates offers a wide range of belt modifications and a full range of secondary fabrication possibilities: all linear, wide and flex belts can come with special backings, profiles and customized fabrications on request. Equipment designers and system integrators rely on Gates' ability to solve the most challenging design issues.

Backings

Most belt types can be modified by adding a backing to achieve a desired coefficient of friction, abrasion resistance or cushion. Over 20 different backings are available to solve your toughest application requirements, from polyurethane over rubber to foam, PVC and 'specialty' backings.

Profiles

Linear, wide and flex belts can be customized with welded-on profiles to meet your application's specific holding, pushing, lifting, or actuating requirements. These profiles are made of polyurethane to become an integral part of the belt through thermal bonding. They can be molded into almost any shape making profiled belts ideal for your assembly, packaging, inserting and other automation equipment requirements. Over 2000 profile designs are available from Gates' extensive mould inventory.

Customized fabrications

Gates offers you the combination of primary tooling and secondary machining to achieve any design potential. Whether grinding edges and surfaces to tight tolerances, punching and machining holes and slots or CNC machining of three dimensional contours, Gates can provide complete and precise solutions.

* For more detailed information, please contact Gates Mectrol GmbH customer service or refer to the product-specific catalogue (ref. E2/20166 ED2011).



Correct belt installation tension is essential for optimum performance and reliability of multi-ribbed, V-belt and synchronous belt drives. The STM 308C ensures simple and extremely accurate tension measurement by analysing sound waves from the belt through the sensor. It processes the input signals and displays the accurate tension measurement digitally. Gates' tension meter is user-friendly: it has only one button, is compact and computerised. Gates' sonic tension meter measures belt tension accurately every time. It is supplied with a handy instruction manual.

Technical characteristics

- H 135 mm x D 30 mm x W 50 mm.
- Weight: 150 gram.
- Battery: 6LR61.
- Autonomy: 50 hours.
- LCD screen.
- Only HZ display.
- Measurement range: 10 Hz - 350 Hz.
- Measured accuracy: ± 1 Hz from 0 to 100 Hz, 1% > 100 Hz.
- Cord sensor.
- Double microphone automatically eliminates background noise.
- To save energy, the device shuts off automatically after two minutes of inactivity.
- Suitable for multi-ribbed belts, V-belts and synchronous belts.
- CE approved.
- REACH compliant and RoHS compatible: the device complies with the European Directive (2002/95/EC) on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

NOTE

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

Gates, more than mere products

At Gates you do not buy just a product, you get complete, high performance and customized 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.

High-quality innovative products

- A broad, international coverage.
- Measurable improvements in performance and reliability.
- Easy product search and ordering on **www.gates-online.com**.
- Efficient logistics: fast dispatch from stock.

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- A team of devoted sales coordinators to fully support distribution.
- First class technical and engineering support.
- Training sessions for distributors or distributors' customers.
- Joint visits at end users.
- Special tools.
- Calculation and drive design software, free of charge.
- Marketing and marketing communications support.

Gates green vision

As a worldwide belt supplier, Gates recognises its responsibilities towards the local and global environment in which it carries out its business. It is Gates' aim to comply with relevant local, national and international legislation and codes of practice and to avoid any adverse impacts of its product and services on the environment. Regarding environmental protection, governed by the Kyoto protocol, all our industrial sites have been awarded ISO 9001, ISO 14001 and OHSAS 18001. We also expect our suppliers to meet these regulations. Our products comply with the REACH regulation and the European requirements on packaging and packaging waste 94/62/CE.

Towards a reduced ecological footprint

Being aware of its role in the battle against climate change, Gates has set many projects to minimise its ecological footprint. Gates supplies systems and components for alternative energy technologies such as wind mills and water energy. In cooperation with our packaging suppliers, our product engineers reduced the volume and weight of our packaging and overpacks to a minimum. The Gates system engineers continuously make efforts to improve product processes, lower energy consumption and reduce the amount of waste produced. The development groups are constantly looking to use more innovative materials from sustainable resources in our products. The Gates Excellence HSE programme awards those sites that achieved ambitious goals in terms of the reduction of waste products, CO₂ emissions and energy and water consumption. In addition, several of our factories are equipped with solar panels. Furthermore, all Gates belts provide a long service life and are highly energy-efficient, thus contributing to a cleaner environment.



BELGIUM

Gates Power Transmission Europe bvba
Dr. Carlierlaan 30
9320 Erembodegem
TL: (32) 53 76 28 41
FX: (32) 53 76 26 09

FRANCE

Gates France S.A.R.L.
B.P. 37
2, Rue de la Briqueterie
Zone Industrielle
95380 Louvres
TL: (33) 1 34 47 41 45
FX: (33) 1 34 72 20 54

ITALY

Gates S.R.L.
Via Senigallia 18
(Int. 2 - Blocco A - Edificio 1)
20161 Milano MI
TL: (39) 02 662 16 21
FX: (39) 02 662 21 851

RUSSIA

Gates CIS LLC
Kosmodamianskaja nab. 52, building 4
Business Centre Riverside Towers, 6th floor
115054 Moscow
TL: (7) 495 933 83 71
FX: (7) 495 933 83 78

GERMANY

Gates GmbH Aachen
Eisenbahnweg 50
52068 Aachen
TL: (49) 241 5108 226
FX: (49) 241 5108 297

Gates Mectrol GmbH
Werner von Siemens Straße 2
64319 Pfungstadt
TL: (49) 6 157 9727 0
FX: (49) 6 157 9727 272

www.gates.com/europe/pti
ptindustrial@gates.com

Your distributor:

