



# 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.

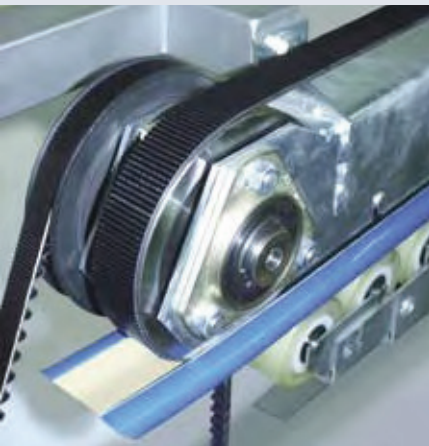
The Poly Chain® GT2 belt construction is based on innovative state-of-the-art design. The body and teeth of the belt are made of a unique polyurethane compound, making the belt tough and virtually immune to abrasion and chemical attack.

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		14M	
Pulley designation	Outside diameter mm	Pulley designation	Outside diameter mm
<b>12 mm width</b>		<b>20 mm width</b>	
8M - 22S-12	54.42	14M - 28S-20	121.98
8M - 25S-12	62.06	14M - 30S-20	130.89
8M - 28S-12	69.70	14M - 32S-20	139.80
8M - 30S-12	74.79	14M - 34S-20	148.72
8M - 32S-12	79.89	14M - 36S-20	157.63
8M - 34S-12	84.98	14M - 38S-20	166.54
8M - 36S-12	90.07	14M - 40S-20	175.45
8M - 38S-12	95.17	14M - 44S-20	193.28
8M - 40S-12	100.26	14M - 48S-20	211.11
8M - 45S-12	112.99	14M - 50S-20	220.02
8M - 48S-12	120.63	14M - 56S-20	246.76
8M - 50S-12	125.72	14M - 60S-20	264.58
8M - 56S-12	141.00	14M - 64S-20	282.41
8M - 60S-12	151.19	14M - 72S-20	318.06
8M - 64S-12	161.37	14M - 80S-20	353.71
8M - 75S-12	189.39	14M - 90S-20	398.27
8M - 80S-12	202.12	14M - 112S-20	496.31
8M - 90S-12	227.58	14M - 140S-20	621.09
<b>21 mm width</b>		<b>37 mm width</b>	
8M - 22S-21	54.42	14M - 28S-37	121.98
8M - 25S-21	62.06	14M - 30S-37	130.89
8M - 28S-21	69.70	14M - 32S-37	139.80
8M - 30S-21	74.79	14M - 34S-37	148.72
8M - 32S-21	79.89	14M - 36S-37	157.63
8M - 34S-21	84.98	14M - 38S-37	166.54
8M - 36S-21	90.07	14M - 40S-37	175.45
8M - 38S-21	95.17	14M - 44S-37	193.28
8M - 40S-21	100.26	14M - 48S-37	211.11
8M - 45S-21	112.99	14M - 50S-37	220.02
8M - 48S-21	120.63	14M - 56S-37	246.76
8M - 50S-21	125.72	14M - 60S-37	264.58
8M - 56S-21	141.00	14M - 64S-37	282.41
8M - 60S-21	151.19	14M - 72S-37	318.06
8M - 64S-21	161.37	14M - 80S-37	353.71
8M - 75S-21	189.39	14M - 90S-37	398.27
8M - 80S-21	202.12	14M - 112S-37	496.31
8M - 90S-21	227.58	14M - 140S-37	621.09
8M - 112S-21	283.61	14M - 168S-37	745.87
8M - 140S-21	354.91	14M - 192S-37	852.82
<b>36 mm width</b>		<b>62 mm width</b>	
8M - 25S-36	62.06	8M - 30S-62	74.79
8M - 28S-36	69.70	8M - 32S-62	79.89
8M - 30S-36	74.79	8M - 34S-62	84.98
8M - 32S-36	79.89	8M - 36S-62	90.07
8M - 34S-36	84.98	8M - 38S-62	95.17
8M - 36S-36	90.07	8M - 40S-62	100.26
8M - 38S-36	95.17	8M - 45S-62	112.99
8M - 40S-36	100.26	8M - 48S-62	120.63
8M - 45S-36	112.99	8M - 50S-62	125.72
8M - 48S-36	120.63	8M - 56S-62	141.00
8M - 50S-36	125.72	8M - 60S-62	151.19
8M - 56S-36	141.00	8M - 64S-62	161.37
8M - 60S-36	151.19	8M - 75S-62	189.39
8M - 64S-36	161.37	8M - 80S-62	202.12
8M - 75S-36	189.39	8M - 90S-62	227.58
8M - 80S-36	202.12	8M - 112S-62	283.61
8M - 90S-36	227.58	8M - 140S-62	354.91
8M - 112S-36	283.61	8M - 168S-62	426.21
8M - 140S-36	354.91	8M - 192S-62	487.32
8M - 168S-36	426.21		
8M - 192S-36	487.32		
<b>68 mm width</b>		<b>90 mm width</b>	
14M - 34S-68	148.72	14M - 36S-90	157.63
14M - 36S-68	157.63	14M - 38S-90	166.50
14M - 38S-68	166.54	14M - 40S-90	175.45
14M - 40S-68	175.45	14M - 44S-90	193.28
14M - 44S-68	193.28	14M - 48S-90	211.11
14M - 48S-68	211.11	14M - 50S-90	220.02
14M - 50S-68	220.02	14M - 56S-90	246.76
14M - 56S-68	246.76	14M - 60S-90	264.58
14M - 60S-68	264.58	14M - 64S-90	282.41
14M - 64S-68	282.41	14M - 72S-90	318.06
14M - 72S-68	318.06	14M - 80S-90	353.71
14M - 80S-68	353.71	14M - 90S-90	398.27
14M - 90S-68	398.27	14M - 112S-90	496.31
14M - 112S-68	496.31	14M - 140S-90	621.09
14M - 140S-68	621.09	14M - 168S-90	745.87
14M - 168S-68	745.87	14M - 192S-90	852.82
14M - 192S-68	852.82		
<b>80 mm width</b>		<b>125 mm width</b>	
14M - 38S-80	166.54	14M - 38S-125	166.54
14M - 40S-80	175.45	14M - 40S-125	175.45
14M - 44S-80	193.28	14M - 44S-125	193.28
14M - 48S-80	211.11	14M - 48S-125	211.11
14M - 50S-80	220.02	14M - 50S-125	220.02
14M - 56S-80	246.76	14M - 56S-125	246.76
14M - 60S-80	264.58	14M - 60S-125	264.58
14M - 64S-80	282.41	14M - 64S-125	282.41
14M - 72S-80	318.06	14M - 72S-125	318.06
14M - 80S-80	353.71	14M - 80S-125	353.71
14M - 90S-80	398.27	14M - 90S-125	398.27
14M - 112S-80	496.31	14M - 112S-125	496.31
14M - 140S-80	621.09	14M - 140S-125	621.09
14M - 168S-80	745.87	14M - 168S-125	745.87
14M - 192S-80	852.82	14M - 192S-125	852.82

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

#### 14M-28S-20

- 14M** - Pitch 14 mm
- 28S** - Number of teeth
- 20** - Belt width (mm)

Dimensions in bold are available from stock.