



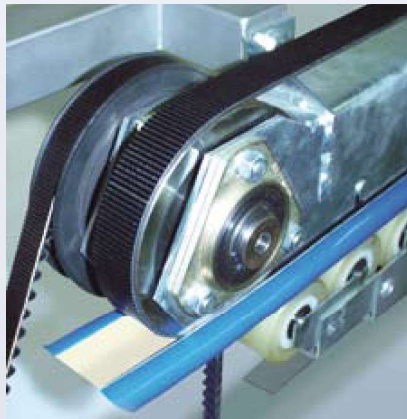
SYNCHRONOUS BELTS FOR EXTREMELY POWERFUL INDUSTRIAL DRIVES



## POLY CHAIN® GT2

*Polyurethane synchronous belt*

Poly Chain® GT2 has been designed for optimum performance also 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 (Poly Chain® GT), while maintaining the same long service life. Poly Chain® GT2 operates on Poly Chain® GT pulleys. Its 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 re-tensioning 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 tooth pitch, pitch length and belt width in millimeters.

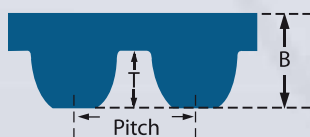
### Construction

- 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 re-tensioning needed.
- Savings in space, weight and money.

### Sections and nominal dimensions



	Pitch mm	T mm	B mm
<b>8MGT</b>	8.0	3.4	5.9
<b>14MGT</b>	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		
Description	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		
Description	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:

<b>8MGT</b>	- Pitch 8 mm
<b>640</b>	- Pitch length (mm)
<b>12</b>	- Belt width (mm)

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

All dimensions are available from stock.