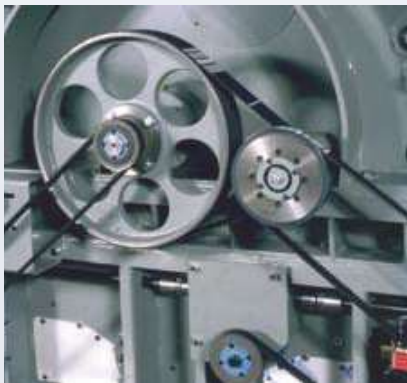
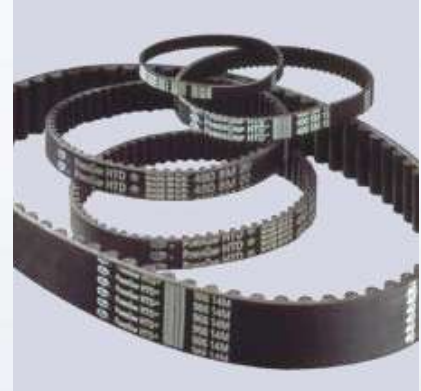


SYNCHRONOUS BELTS FOR HIGH TORQUE DRIVES

POWERGRIP® HTD® 8M, 14M & 20M

Rubber synchronous belt with HTD® 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 pitch length, tooth pitch and belt width in millimeters.

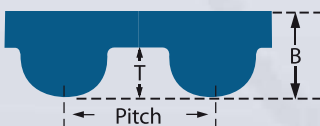
Construction

- 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 1,000 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 build-up 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.
- PowerGrip® HTD® 14M: **static conductive (ISO 9563)** and can as such be used in the conditions described in the Directive 94/9/EC - ATEX.

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

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

14M		
Pitch: 14 mm		
Description	Pitch length mm	Number of teeth
784-14M	784	56
826-14M	826	59
924-14M	924	66
966-14M	966	69
1092-14M	1092	78
1190-14M	1190	85
1400-14M	1400	100
1610-14M	1610	115
1778-14M	1778	127
1890-14M	1890	135
2100-14M	2100	150
2310-14M	2310	165
2450-14M	2450	175
2590-14M	2590	185
2800-14M	2800	200
3150-14M	3150	225
3500-14M	3500	250
3850-14M	3850	275
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		
Description	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.