Synchro-Power®



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.