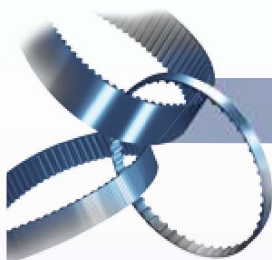




SYNCHRONOUS BELTS FOR HIGH TORQUE DRIVES



POWERGRIP® HTD® 3M & 5M *Rubber synchronous belt with HTD® tooth profile*

Because of an optimised load distribution, the HTD® curvilinear tooth form guarantees high power transmission in low speed and high torque applications. PowerGrip® HTD® 3M and 5M belts are suitable for domestic appliances, office machines, electric hand tools and for applications in the processing and chemical industry.



Identification

Three part number on the back of the belt indicating pitch length, tooth pitch and belt width in millimeters.

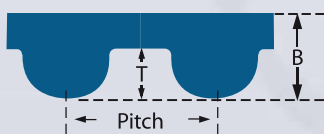
Construction

- Special curvilinear tooth design improves stress distribution and allows higher overall loading.
- Precisely formed and accurately spaced elastomeric teeth ensure smooth engagement with the pulley grooves.
- Durable elastomeric backing protects the belt against environmental pollution as well as frictional wear if power is transmitted from the back of the belt.
- Tough nylon facing protects the tooth surface.
- Fibreglass tensile cords.

Advantages

- 3M and 5M PowerGrip® HTD® are designed for speeds up to 20,000 rpm and capacities up to 10 kW.
- The optimised tooth form permits high loads to be transmitted, even in small pitches.
- Peripheral speed up to 80 m/s.
- Efficiencies up to 99%.
- Compact design.
- 25% improved tooth jump resistance vs. CTB.
- Long service life and maintenance-free.

Sections and nominal dimensions



	Pitch mm	T mm	B mm
3M	3.0	1.2	2.4
5M	5.0	2.1	3.8

NOTE

For correct usage of the belt please request Gates' Synchronous Belt Drive Design Manual (E2/20099).



3M						5M					
Pitch: 3 mm						Pitch: 5 mm					
Description	Pitch length mm	Number of teeth	Description	Pitch length mm	Number of teeth	Description	Pitch length mm	Number of teeth	Description	Pitch length mm	Number of teeth
105-3M	105	35	486-3M	486	162	120-5M	120	24	980-5M	980	196
111-3M	111	37	489-3M	489	163	180-5M	180	36	1000-5M	1000	200
120-3M	120	40	501-3M	501	167	225-5M	225	45	1025-5M	1025	205
123-3M	123	41	513-3M	513	171	255-5M	255	51	1035-5M	1035	207
126-3M	126	42	522-3M	522	174	265-5M	265	53	1050-5M	1050	210
129-3M	129	43	525-3M	525	175	270-5M	270	54	1100-5M	1100	220
141-3M	141	47	531-3M	531	177	275-5M	275	55	1125-5M	1125	225
144-3M	144	48	537-3M	537	179	280-5M	280	56	1135-5M	1135	227
150-3M	150	50	552-3M	552	184	295-5M	295	59	1175-5M	1175	235
156-3M	156	52	558-3M	558	186	300-5M	300	60	1200-5M	1200	240
159-3M	159	53	564-3M	564	188	305-5M	305	61	1225-5M	1225	245
165-3M	165	55	570-3M	570	190	325-5M	325	65	1270-5M	1270	254
168-3M	168	56	573-3M	573	191	330-5M	330	66	1350-5M	1350	270
171-3M	171	57	582-3M	582	194	335-5M	335	67	1380-5M	1380	276
174-3M	174	58	591-3M	591	197	340-5M	340	68	1420-5M	1420	284
177-3M	177	59	594-3M	594	198	345-5M	345	69	1595-5M	1595	319
180-3M	180	60	600-3M	600	200	350-5M	350	70	1690-5M	1690	338
183-3M	183	61	612-3M	612	204	360-5M	360	72	1790-5M	1790	358
186-3M	186	62	627-3M	627	209	365-5M	365	73	1870-5M	1870	374
189-3M	189	63	633-3M	633	211	370-5M	370	74	2100-5M	2100	420
192-3M	192	64	645-3M	645	215	375-5M	375	75	2350-5M	2350	470
195-3M	195	65	648-3M	648	216	385-5M	385	77	Available in widths of 9 mm, 15 mm and 25 mm.		
201-3M	201	67	669-3M	669	223	400-5M	400	80			
204-3M	204	68	672-3M	672	224	405-5M	405	81			
210-3M	210	70	681-3M	681	227	420-5M	420	84	PowerGrip® HTD® ordering code is composed as follows:		
213-3M	213	71	711-3M	711	237	425-5M	425	85			
216-3M	216	72	720-3M	720	240	450-5M	450	90			
219-3M	219	73	735-3M	735	245	460-5M	460	92	280-5M-15 280 - Pitch length (mm) 5M - Pitch 5 mm 15 - Belt width (mm)		
222-3M	222	74	738-3M	738	246	475-5M	475	95			
225-3M	225	75	753-3M	753	251	500-5M	500	100			
234-3M	234	78	804-3M	804	268	510-5M	510	102	Dimensions in bold are available from stock.		
237-3M	237	79	822-3M	822	274	520-5M	520	104			
243-3M	243	81	882-3M	882	294	525-5M	525	105			
246-3M	246	82	945-3M	945	315	535-5M	535	107			
249-3M	249	83	981-3M	981	327	550-5M	550	110			
252-3M	252	84	1002-3M	1002	334	560-5M	560	112			
255-3M	255	85	1071-3M	1071	357	565-5M	565	113			
267-3M	267	89	1080-3M	1080	360	575-5M	575	115			
276-3M	276	92	1176-3M	1176	392	580-5M	580	116			
282-3M	282	94	1245-3M	1245	415	600-5M	600	120			
285-3M	285	95	1263-3M	1263	421	610-5M	610	122			
288-3M	288	96	1500-3M	1500	500	615-5M	615	123			
291-3M	291	97	1530-3M	1530	510	635-5M	635	127			
294-3M	294	98	1863-3M	1863	621	640-5M	640	128			
297-3M	297	99	1926-3M	1926	642	645-5M	645	129			
300-3M	300	100	Available in widths of 6 mm, 9 mm and 15 mm.			665-5M	665	133			
306-3M	306	102				670-5M	670	134			
312-3M	312	104				695-5M	695	139			
315-3M	315	105				700-5M	700	140			
318-3M	318	106				710-5M	710	142			
330-3M	330	110				720-5M	720	144			
333-3M	333	111				740-5M	740	148			
336-3M	336	112				750-5M	750	150			
339-3M	339	113				755-5M	755	151			
342-3M	342	114				770-5M	770	154			
345-3M	345	115				775-5M	775	155			
357-3M	357	119				800-5M	800	160			
363-3M	363	121				825-5M	825	165			
372-3M	372	124				835-5M	835	167			
381-3M	381	127				860-5M	860	172			
384-3M	384	128				870-5M	870	174			
420-3M	420	140				890-5M	890	178			
435-3M	435	145				900-5M	900	180			
447-3M	447	149				925-5M	925	185			
462-3M	462	154				935-5M	935	187			
474-3M	474	158				940-5M	940	188			
477-3M	477	159				950-5M	950	190			
480-3M	480	160				965-5M	965	193			