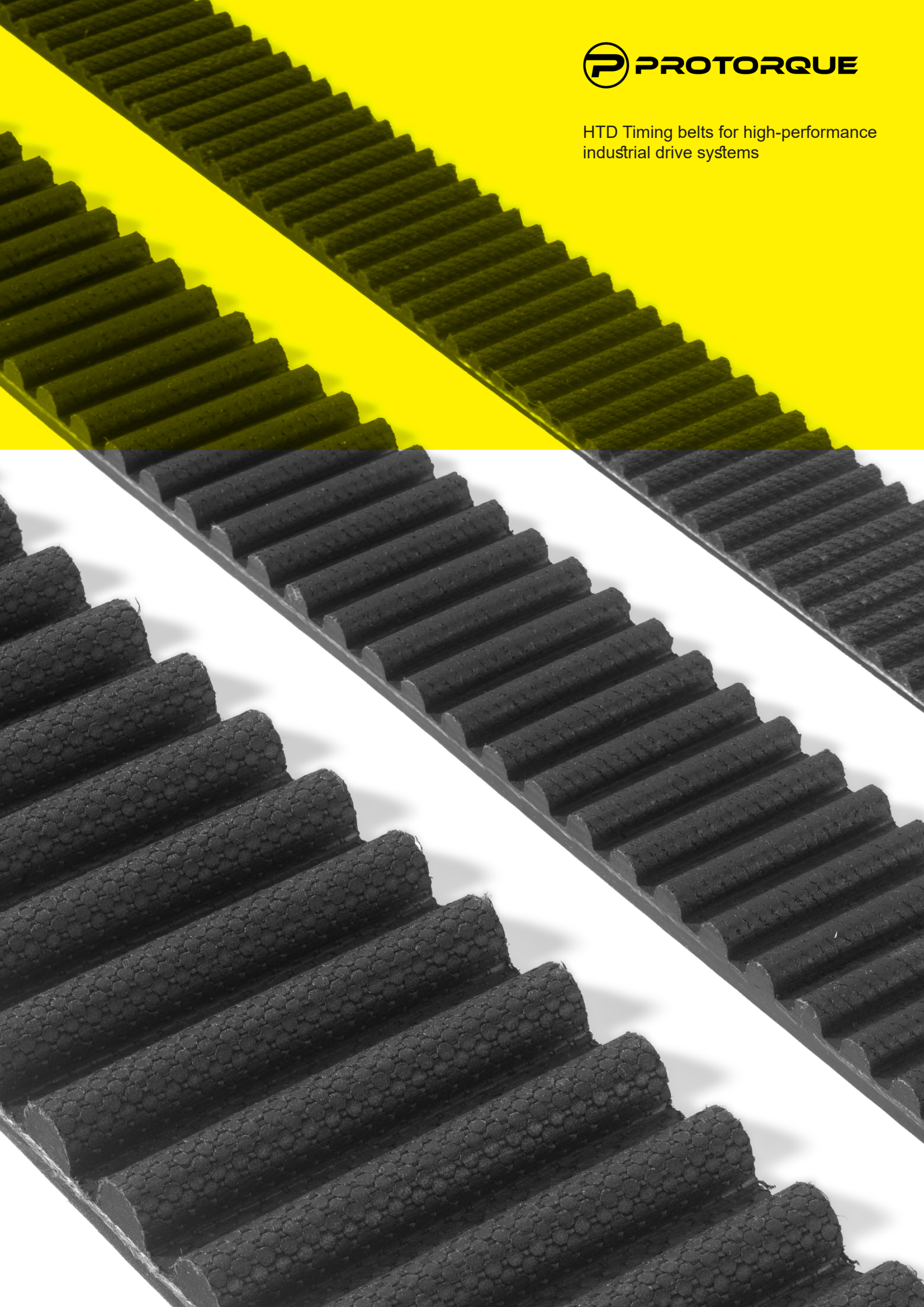




HTD Timing belts for high-performance industrial drive systems



STANDARDS

ISO: 13050
DIN 7721
IP27 RMA-MPTA



Protorque HTD Timing Belts are designed for use in a wide range of drive systems and their unique tooth geometry helps to guarantee higher power transmission in challenging low speed, high torque applications.



The curvilinear HTD tooth profile eliminates the high load stresses at tooth roots which are an inherent weakness with traditional trapezoidal profile belts.

This results in a smoother and more precise transmission of power at higher load capacities and with extended belt life.

HTD belts provide a high performance drive system for many industries where durability and low maintenance are required such as gardening equipment, machine tools, textile equipment, packaging, vending machines and conveyor systems.

HTD RUBBER TIMING BELTS

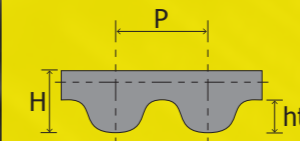
Efficiently and reliably deliver high and consistent torque over a longer life in a smooth compact design with quieter operation.

Curvilinear tooth profile improves load distribution and shear resistance, resulting in higher torque and power transmission capabilities.

Wide speed range and increased load carrying capacity helps to provide constant driven speeds delivered by a smooth, compact drive design.

High operating efficiency in comparison to other drive systems, with no need for lubrication, reduced belt tensioning and maintenance of constant lengths.

Superior abrasion resistance and positive non-slip pulley engagement ensures an extended and trouble-free service life coupled with significant energy savings and up to 99% efficiency.



Metric dimensions (mm)			
ISO Ref	Pitch (P)	Tooth height (ht)	Belt height (H)
5M	5.0	2.06	3.8
8M	8.0	3.38	6.0
14M	14.0	6.02	10.0

HTD RUBBER TIMING BELTS

Length	Widths (mm)			Teeth
	9	15	25	
5M PITCH				
225	225-5M-09	225-5M-15	225-5M-25	45
245	245-5M-09	245-5M-15	245-5M-25	49
265	265-5M-09	265-5M-15	265-5M-25	53
285	285-5M-09	285-5M-15	285-5M-25	57
295	295-5M-09	295-5M-15	295-5M-25	59
300	300-5M-09	300-5M-15	300-5M-25	60
305	305-5M-09	305-5M-15	305-5M-25	61
325	325-5M-09	325-5M-15	325-5M-25	65
330	330-5M-09	330-5M-15	330-5M-25	66
350	350-5M-09	350-5M-15	350-5M-25	70
375	375-5M-09	375-5M-15	375-5M-25	75
385	385-5M-09	385-5M-15	385-5M-25	77
400	400-5M-09	400-5M-15	400-5M-25	80
420	420-5M-09	420-5M-15	420-5M-25	84
425	425-5M-09	425-5M-15	425-5M-25	85
450	450-5M-09	450-5M-15	450-5M-25	90
460	460-5M-09	460-5M-15	460-5M-25	92
475	475-5M-09	475-5M-15	475-5M-25	95
500	500-5M-09	500-5M-15	500-5M-25	100
525	525-5M-09	525-5M-15	525-5M-25	105
535	535-5M-09	535-5M-15	535-5M-25	107
540	540-5M-09	540-5M-15	540-5M-25	108
550	550-5M-09	550-5M-15	550-5M-25	110
565	565-5M-09	565-5M-15	565-5M-25	113
575	575-5M-09	575-5M-15	575-5M-25	115
600	600-5M-09	600-5M-15	600-5M-25	120
615	615-5M-09	615-5M-15	615-5M-25	123
635	635-5M-09	635-5M-15	635-5M-25	127
640	640-5M-09	640-5M-15	640-5M-25	128
670	670-5M-09	670-5M-15	670-5M-25	134
700	700-5M-09	700-5M-15	700-5M-25	140
710	710-5M-09	710-5M-15	710-5M-25	142
740	740-5M-09	740-5M-15	740-5M-25	148
750	750-5M-09	750-5M-15	750-5M-25	150
755	755-5M-09	755-5M-15	755-5M-25	151
800	800-5M-09	800-5M-15	800-5M-25	160
850	850-5M-09	850-5M-15	850-5M-25	170
890	890-5M-09	890-5M-15	890-5M-25	178
900	900-5M-09	900-5M-15	900-5M-25	180
950	950-5M-09	950-5M-15	950-5M-25	190
1000	1000-5M-09	1000-5M-15	1000-5M-25	200
1050	1050-5M-09	1050-5M-15	1050-5M-25	210
1100	1100-5M-09	1100-5M-15	1100-5M-25	220
1125	1125-5M-09	1125-5M-15	1125-5M-25	225
1200	1200-5M-09	1200-5M-15	1200-5M-25	240
1240	1240-5M-09	1240-5M-15	1240-5M-25	248
1270	1270-5M-09	1270-5M-15	1270-5M-25	254
1420	1420-5M-09	1420-5M-15	1420-5M-25	284
1595	1595-5M-09	1595-5M-15	1595-5M-25	319
1690	1690-5M-09	1690-5M-15	1690-5M-25	338
1790	1790-5M-09	1790-5M-15	1790-5M-25	358
1800	1800-5M-09	1800-5M-15	1800-5M-25	360
1895	1895-5M-09	1895-5M-15	1895-5M-25	379
2000	2000-5M-09	2000-5M-15	2000-5M-25	400

Length	Widths (mm)				Teeth
	20	30	50	85	
8M PITCH					
384	384-8M-20	384-8M-30	384-8M-50	384-8M-85	48
480	480-8M-20	480-8M-30	480-8M-50	480-8M-85	60
544	544-8M-20	544-8M-30	544-8M-50	544-8M-85	68
560	560-8M-20	560-8M-30	560-8M-50	560-8M-85	70
600	600-8M-20	600-8M-30	600-8M-50	600-8M-85	75
632	632-8M-20	632-8M-30	632-8M-50	632-8M-85	79
640	640-8M-20	640-8M-30	640-8M-50	640-8M-85	80
656	656-8M-20	656-8M-30	656-8M-50	656-8M-85	82
680	680-8M-20	680-8M-30	680-8M-50	680-8M-85	85
720	720-8M-20	720-8M-30	720-8M-50	720-8M-85	90
760	760-8M-20	760-8M-30	760-8M-50	760-8M-85	95
800	800-8M-20	800-8M-30	800-8M-50	800-8M-85	100
840	840-8M-20	840-8M-30	840-8M-50	840-8M-85	105
880	880-8M-20	880-8M-30	880-8M-50	880-8M-85	110
896	896-8M-20	896-8M-30	896-8M-50	896-8M-85	112
920	920-8M-20	920-8M-30	920-8M-50	920-8M-85	115
960	960-8M-20	960-8M-30	960-8M-50	960-8M-85	120
1000	1000-8M-20	1000-8M-30	1000-8M-50	1000-8M-85	125
1040	1040-8M-20	1040-8M-30	1040-8M-50	1040-8M-85	130
1080	1080-8M-20	1080-8M-30	1080-8M-50	1080-8M-85	135
1120	1120-8M-20	1120-8M-30	1120-8M-50	1120-8M-85	140
1160	1160-8M-20	1160-8M-30	1160-8M-50	1160-8M-85	145
1200	1200-8M-20	1200-8M-30	1200-8M-50	1200-8M-85	150
1280	1280-8M-20	1280-8M-30	1280-8M-50	1280-8M-85	160
1328	1328-8M-20	1328-8M-30	1328-8M-50	1328-8M-85	166
1400	1400-8M-20	1400-8M-30	1400-8M-50	1400-8M-85	175
1440	1440-8M-20	1440-8M-30	1440-8M-50	1440-8M-85	180
1552	1552-8M-20	1552-8M-30	1552-8M-50	1552-8M-85	194
1600	1600-8M-20	1600-8M-30	1600-8M-50	1600-8M-85	200
1760	1760-8M-20	1760-8M-30	1760-8M-50	1760-8M-85	220
1800	1800-8M-20	1800-8M-30	1800-8M-50	1800-8M-85	225
2000	2000-8M-20	2000-8M-30	2000-8M-50	2000-8M-85	250
2400	2400-8M-20	2400-8M-30	2400-8M-50	2400-8M-85	300
2600	2600-8M-20	2600-8M-30	2600-8M-50	2600-8M-85	325
2800	2800-8M-20	2800-8M-30	2800-8M-50	2800-8M-85	350
3280	3280-8M-20	3280-8M-30	3280-8M-50	3280-8M-85	410
3600	3600-8M-20	3600-8M-30	3600-8M-50	3600-8M-85	450

Length	Widths (mm)					Teeth
	40	55	85	115	170	
14M PITCH						
966	966-14M-40	966-14M-55	966-14M-85	966-14M-115	966-14M-170	69
1190	1190-14M-40	1190-14M-55	1190-14M-85	1190-14M-115	1190-14M-170	85
1260	1260-14M-40	1260-14M-55	1260-14M-85	1260-14M-115	1260-14M-170	90
1344	1344-14M-40	1344-14M-55	1344-14M-85	1344-14M-115	1344-14M-170	96
1400	1400-14M-40	1400-14M-55	1400-14M-85	1400-14M-115	1400-14M-170	100
1610	1610-14M-40	1610-14M-55	1610-14M-85	1610-14M-115	1610-14M-170	115
1778	1778-14M-40	1778-14M-55	1778-14M-85	1778-14M-115	1778-14M-170	127
1890	1890-14M-40	1890-14M-55	1890-14M-85	1890-14M-115	1890-14M-170	135
1904	1904-14M-40	1904-14M-55	1904-14M-85	1904-14M-115	1904-14M-170	136
2100	2100-14M-40	2100-14M-55	2100-14M-85	2100-14M-115	2100-14M-170	150
2310	2310-14M-40	2310-14M-55	2310-14M-85	2310-14M-115	2310-14M-170	165
2450	2450-14M-40	2450-14M-55	2450-14M-85	2450-14M-115	2450-14M-170	175
2590	2590-14M-40	2590-14M-55	2590-14M-85	2590-14M-115	2590-14M-170	185
2800	2800-14M-40	2800-14M-55	2800-14M-85	2800-14M-115	2800-14M-170	200
3150	3150-14M-40	3150-14M-55	3150-14M-85	3150-14M-115	3150-14M-170	225
3360	3360-14M-40	3360-14M-55	3360-14M-85	3360-14M-115	3360-14M-170	240
3500	3500-14M-40	3500-14M-55	3500-14M-85	3500-14M-115	3500-14M-170	250
3850	3850-14M-40	3850-14M-55	3850-14M-85	3850-14M-115	3850-14M-170	275
4326	4326-14M-40	4326-14M-55	4326-14M-85	4326-14M-115	4326-14M-170	309
4578	4578-14M-40	4578-14M-55	4578-14M-85	4578-14M-115	4578-14M-170	327



A COMPREHENSIVE RANGE OF LENGTHS IN 5M, 8M AND 14M PITCH ARE DIRECTLY AVAILABLE FROM UK STOCK

PROTORQUE'S CURVILINEAR TOOTH GEOMETRY HAS BEEN DESIGNATED TO MATCH THE HIGHEST EUROPEAN DESIGN REQUIREMENTS.

ISO 13050	5M	8M	14M
PROPERTIES			
Tensile strength (N/mm)	160	300	400
Load (N)	130	240	320
Elongation (%)	4.0		
Hardness (Shore A +/- 4°)	82.0		
Adhesion of cloth (N/mm)	6.0	10.0	12.0
Adhesion of cord (N)	400	700	1200
Tooth shear strength (N/mm)	50	60	80
SECTION DIMENSIONS			
Pitch (mm)	5.0	8.0	14.0
Height (mm)	2.06	3.38	6.02
Angle (°)	14		
Width (mm)	3.05	5.15	9.40
Foot radius (mm)	0.42	0.70	1.25
Head radius (mm)	1.49	2.46	4.50
Belt Thickness (mm)	3.80	6.00	10.00
Belt Weight per meter per 10mm width (Kg/m)	0.041	0.063	0.108
Min. crimp (mm)	25	40	70
Teeth range (min-max)	45 - 400	48 - 450	69 - 327
Pitch length	225 - 2000	984 - 3600	966 - 4578

PROPERTIES

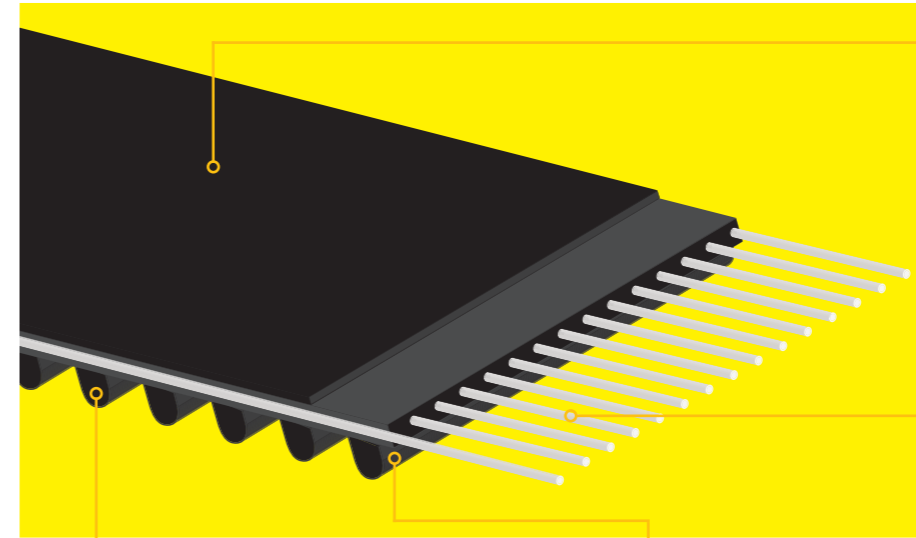
- Temperature range from -30°C up to +80°C
- Moderate resistance to common oils
- Good resistance to heat and cold environments
- Low noise, high speed ratio, high belt speed

BACKING FABRIC

Protective and hard wearing elastomeric rubber backing allows consistent adhesion and minimal frictional wear, permitting reverse idler power transmission.

TENSION CORDS

Strong 'S and Z' wound low stretch fibreglass tensile members ensure perfect belt tracking and dimensional stability, as well as excellent flex life and high resistance to elongation.



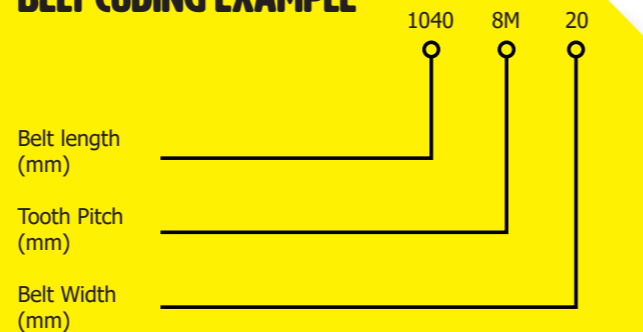
TOOTH PROFILE

Precisely formed HTD tooth profile provides optimal pitching in pulley grooves for extremely accurate operation.

FACING FABRIC

Tough, low friction nylon facing provides excellent tooth protection and abrasion resistance.

BELT CODING EXAMPLE



Your Authorised Distributor is:

