



DRIVE DESIGN  
AND TECHNICAL MANUAL

EXTRUDED TIMING BELT  
OPEN ENDED LINEAR ROLL  
IMPERIAL TOOTH

**DRIVE BELT  
TECHNOLOGY .**

## SECTION 2.2.4 | TIMING BELTS | POLYURETHANE BELTS

DIN / ISO 5296 PART 1 / IP24 RMA-MPTA

### EXTRUDED TIMING BELT OPEN ENDED LINEAR ROLL IMPERIAL TOOTH MXL, XL, L, H AND XH

#### FEATURES

Manufactured in thermoplastic polyurethane with or without special polyamide green fabric ensures low friction and resistance to abrasion. High resistance S and Z parallel steel tension members deliver high traction and breaking load, extremely low elongation and great flexibility.

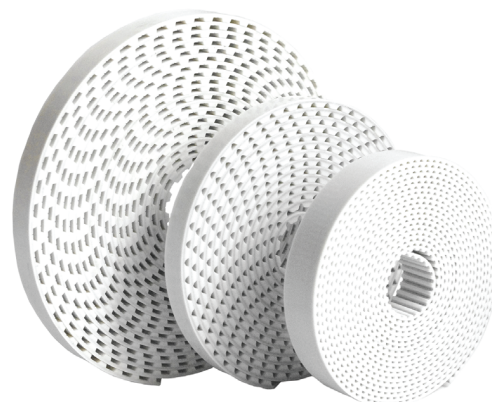
Oil and grease resistance with moderate resistance to some acids and alkali

Linear speed up to 70 m.s-1, high abrasion resistance

Standard roll length of 50m or 100m at +/- 1%

Meets RoHS and REACH requirements

This belt is best suited for linear motion and synchronous conveying systems.



#### STRUCTURE DETAILS

##### Polyurethane Body

Extruded with high quality 92 shore A thermoplastic polyurethane (TPU), it enables those belts to reach high strength, great flexibility, wear resistance on shock while offering requested teeth rigidity and dimensionnal stability.

##### Tensile cord

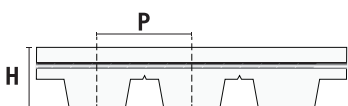
High resistance S and Z parallel steel tension members to deliver high traction and breaking load, extremely low elongation and great

flexibility. Belts can also be produce with aramid cords according to applications requirements for is non magnetic drives.

##### Cover Fabric

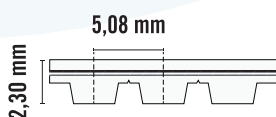
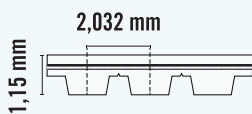
Special polyamid green fabric to ensure low friction, resistance to abrasion, protect the teeth in their perfecting matching with pulleys, low noise. This polyamid coating is available either on teeth only or back only and also on both teeth and back.

##### Dimensions



ISO 5296	OE-MXL	OE-XL	OE-L	OE-H	OE-XH
Pitch (inches)	2/25	1/5	3/8	1/2	7/8
Pitch (mm)	2.032	5.080	9.525	12.700	22.225
Height (mm)	0.51	1.27	1.91	2.29	6.35
Angle (°) +/- 1	40	50		40	
Width (mm)	1.14	2.57	4.65	6.12	12.57
Foot radius (mm)	0.13	0.38	0.51	1.02	1.57
Head radius (mm)	0.13	0.38	0.51	1.02	1.57
Belt thickness (mm)	1.15 +/- 0.15	2.3 +/- 0.3	3.6 +/- 0.3	4.3 +/- 0.3	11.2 +/- 0.5
Min. Number teeth on pulley without back bending	12	10	15	14	18
Min. Diameter of idler (mm)	20	30	60	60	150
Min. Number teeth on pulley with back bending	15	15	20	20	20
Min. Diameter of back idler (mm)	25	30	60	80	180

1: Maximum traction load is half of open ended belt, to be used only with conveying applications



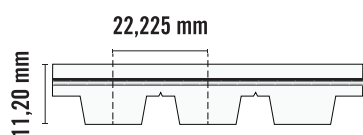
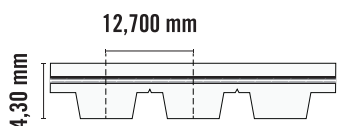
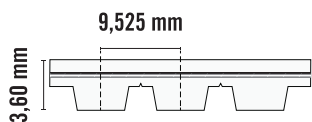
##### OE-MXL

	025	050	100	200	400
Belt Width (inchX10)	025	050	100	200	400
Belt Width (mm)	6.35	12.7	25.4	50.8	101.6
Max Traction Load (N)	215	445	885	1765	3525
Breaking Strengh (N)	870	1700	3500	7000	14000
Belt Weight (g/m)	15	25	50	100	200

##### OE-XL

	025	031	037	050	075	100	150	200	400
Belt Width (inchX10)	025	031	037	050	075	100	150	200	400
Belt Width (mm)	6.35	7.94	9.53	12.7	19.1	25.4	38.1	50.8	101.6
Max Traction Load (N)	180	210	280	410	650	880	1400	1870	3830
Breaking Strengh (N)	750	875	1100	1600	2610	3450	5400	7300	14800
Belt Weight (g/m)	15	20	25	30	45	60	90	120	245

2.2.4 EXTRUDED TIMING BELT OPEN ENDED LINEAR ROLL IMPERIAL TOOTH



OE-L

Belt Width (inchX10)	050	075	100	150	200	300	400
Belt Width (mm)	12,7	19,1	25,4	38,1	50,8	76,2	101,6
Max Traction Load (N)	1200	1900	2700	4220	5600	8500	11300
Breaking Strentgh (N)	4600	7200	10000	15550	20620	31100	41610
Belt Weight (g/m)	50	75	100	150	200	300	400

OE-H

Belt Width (inchX10)	050	075	100	150	200	300	400	600
Belt Width (mm)	12,7	19,1	25,4	38,1	50,8	76,2	101,6	152,4
Max Traction Load (N)	1200	1900	2700	4200	5600	8500	11300	17200
Breaking Strentgh (N)	4600	7100	10000	15500	20600	31000	41000	63000
Belt Weight (g/m)	50	80	100	160	220	320	440	660

OE-XH

Belt Width (inchX10)	100	200	300	400	600
Belt Width (mm)	25,4	50,8	76,2	101,6	152,4
Max Traction Load (N)	4000	8400	12800	17200	26000
Breaking Strentgh (N)	15000	32500	49600	66000	101000
Belt Weight (g/m)	370	660	1000	1320	2000

Applications



Open door -  
Linear Guiding



Packaging



Wood

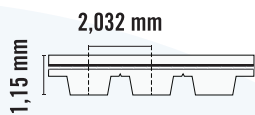
Marking

<b>CMW</b>	<b>100-OE-L-0100-PU-S</b>	batch code/worker code
<b>CMW</b>	<b>100-OE-H-0400-PU-K-PAZ</b>	batch code/worker code
<b>CMW</b>	<b>10998-OJ-H-0200-PU-S-PAR</b>	batch code/worker code

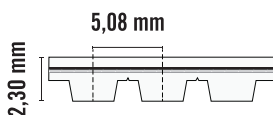
Product Codification

100-OE-L-0100-PU-S means	<b>100</b> Length / 100 meters	<b>OE</b> Open Ended Roll	<b>L</b> Section L Pitch 3/8 inches / 9,525 mm	<b>0100</b> Width 100 inches / 10 Width 25,4mm	<b>PU</b> PU White	<b>S</b> Steel cord	
100-OE-H-0400-PU-K-PAZ means	<b>100</b> Length / 100 meters	<b>OE</b> Open Ended Roll	<b>H</b> Section H Pitch 1/2 inche / 12,700 mm	<b>0400</b> Width 400 inches / 10 Width 101,6mm	<b>PU</b> PU White	<b>K</b> Kevlar cord	<b>PAZ</b> Green nylon on back
10998-OJ-H-0200-PU-S-PAR means	<b>10998</b> Length / 10998,20 mm	<b>OJ</b> Open Joined	<b>H</b> Section H Pitch 1/2 inche / 12,700 mm	<b>0200</b> Width 200 inches / 10 Width 50,8mm	<b>PU</b> PU White	<b>S</b> Steel cord	<b>PAR</b> Green nylon on teeth

2.2.4 EXTRUDED TIMING BELT OPEN ENDED LINEAR ROLL IMPERIAL TOOTH



OE-MXL



OE-XL

Standard Belt Range

CMW Product code	GTIN (EAN) code
100-OE-MXL-0012-PU-S	3666445015343
100-OE-MXL-0012-PU-S-PAZ	3666445015336
100-OE-MXL-0012-PU-S-PAR	3666445015329
100-OE-MXL-0012-PU-S-PAZ-PAR	3666445015312
100-OE-MXL-0019-PU-S	3666445015305
100-OE-MXL-0019-PU-S-PAZ	3666445015299
100-OE-MXL-0019-PU-S-PAR	3666445015282
100-OE-MXL-0019-PU-S-PAZ-PAR	3666445015275
100-OE-MXL-0025-PU-S	3666445015268
100-OE-MXL-0025-PU-S-PAZ	3666445015251
100-OE-MXL-0025-PU-S-PAR	3666445015244
100-OE-MXL-0025-PU-S-PAZ-PAR	3666445015237
100-OE-MXL-0031-PU-S	3666445015220
100-OE-MXL-0031-PU-S-PAZ	3666445015213
100-OE-MXL-0031-PU-S-PAR	3666445015206
100-OE-MXL-0031-PU-S-PAZ-PAR	3666445015190
100-OE-MXL-0050-PU-S	3666445015183
100-OE-MXL-0050-PU-S-PAZ	3666445015176
100-OE-MXL-0050-PU-S-PAR	3666445015169
100-OE-MXL-0050-PU-S-PAZ-PAR	3666445015152
100-OE-MXL-0100-PU-S	3666445015145
100-OE-MXL-0100-PU-S-PAZ	3666445015138
100-OE-MXL-0100-PU-S-PAR	3666445015121
100-OE-MXL-0100-PU-S-PAZ-PAR	3666445015114
100-OE-MXL-0200-PU-S	3666445015107
100-OE-MXL-0200-PU-S-PAZ	3666445015091
100-OE-MXL-0200-PU-S-PAR	3666445015084
100-OE-MXL-0200-PU-S-PAZ-PAR	3666445015077
100-OE-MXL-0400-PU-S	3666445015060
100-OE-MXL-0400-PU-S-PAZ	3666445015053
100-OE-MXL-0400-PU-S-PAR	3666445015046
100-OE-MXL-0400-PU-S-PAZ-PAR	3666445015039
100-OE-MXL-0012-PU-K	3666445015022
100-OE-MXL-0012-PU-K-PAZ	3666445015015
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100-OE-MXL-0012-PU-K-PAZ-PAR	3666445014995
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100-OE-MXL-0019-PU-K-PAZ	3666445014971
100-OE-MXL-0019-PU-K-PAR	3666445014964
100-OE-MXL-0019-PU-K-PAZ-PAR	3666445014957
100-OE-MXL-0025-PU-K	3666445014940
100-OE-MXL-0025-PU-K-PAZ	3666445014933
100-OE-MXL-0025-PU-K-PAR	3666445014926
100-OE-MXL-0025-PU-K-PAZ-PAR	3666445014919
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100-OE-MXL-0400-PU-K-PAZ	3666445014735
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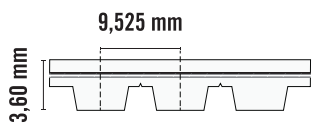
Standard Belt Range

CMW Product code	GTIN (EAN) code
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100-OE-XL-0025-PU-S-PAZ-PAR	3666445014674
100-OE-XL-0031-PU-S	3666445014667
100-OE-XL-0031-PU-S-PAZ	3666445014650
100-OE-XL-0031-PU-S-PAR	3666445014643
100-OE-XL-0031-PU-S-PAZ-PAR	3666445014636
100-OE-XL-0037-PU-S	3666445014629
100-OE-XL-0037-PU-S-PAZ	3666445014612
100-OE-XL-0037-PU-S-PAR	3666445014605
100-OE-XL-0037-PU-S-PAZ-PAR	3666445014599
100-OE-XL-0050-PU-S	3666445014582
100-OE-XL-0050-PU-S-PAZ	3666445014575
100-OE-XL-0050-PU-S-PAR	3666445014568
100-OE-XL-0050-PU-S-PAZ-PAR	3666445014551
100-OE-XL-0075-PU-S	3666445014544
100-OE-XL-0075-PU-S-PAZ	3666445014537
100-OE-XL-0075-PU-S-PAR	3666445014520
100-OE-XL-0075-PU-S-PAZ-PAR	3666445014513
100-OE-XL-0100-PU-S	3666445014506
100-OE-XL-0100-PU-S-PAZ	3666445014490
100-OE-XL-0100-PU-S-PAR	3666445014483
100-OE-XL-0100-PU-S-PAZ-PAR	3666445014476
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100-OE-XL-0150-PU-S-PAZ-PAR	3666445014438
100-OE-XL-0200-PU-S	3666445014421
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100-OE-XL-0150-PU-K-PAZ	3666445014094
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100-OE-XL-0150-PU-K-PAZ-PAR	3666445014070

Standard Belt Range

CMW Product code	GTIN (EAN) code
100-OE-XL-0200-PU-K	3666445014063
100-OE-XL-0200-PU-K-PAZ	3666445014056
100-OE-XL-0200-PU-K-PAR	3666445014049
100-OE-XL-0200-PU-K-PAZ-PAR	3666445014032
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100-OE-XL-0400-PU-K-PAZ	3666445014018
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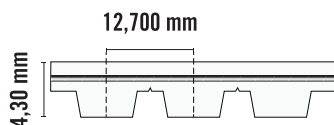
2.2.4 EXTRUDED TIMING BELT OPEN ENDED LINEAR ROLL IMPERIAL TOOTH



OE-L

Standard Belt Range

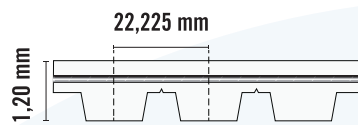
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100-OE-L-0050-PU-S	3666445013943
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100-OE-L-0050-PU-S-PAR	3666445013929
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100-OE-L-0075-PU-S-PAR	3666445013882
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100-OE-L-0050-PU-K-PAZ	3666445013653
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100-OE-L-0050-PU-K-PAZ-PAR	3666445013639
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100-OE-L-0075-PU-K-PAZ	3666445013615
100-OE-L-0075-PU-K-PAR	3666445013608
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100-OE-L-0100-PU-K	3666445013585
100-OE-L-0100-PU-K-PAZ	3666445013578
100-OE-L-0100-PU-K-PAR	3666445013561
100-OE-L-0100-PU-K-PAZ-PAR	3666445013554
100-OE-L-0150-PU-K	3666445013547
100-OE-L-0150-PU-K-PAZ	3666445013530
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100-OE-L-0200-PU-K-PAR	3666445013486
100-OE-L-0200-PU-K-PAZ-PAR	3666445013479
100-OE-L-0400-PU-K	3666445013462
100-OE-L-0400-PU-K-PAZ	3666445013455
100-OE-L-0400-PU-K-PAR	3666445013448
100-OE-L-0400-PU-K-PAZ-PAR	3666445013431



OE-H

Standard Belt Range

CMW Product code	GTIN (EAN) code
100-OE-H-0050-PU-S	3666445013424
100-OE-H-0050-PU-S-PAZ	3666445013417
100-OE-H-0050-PU-S-PAR	3666445013400
100-OE-H-0050-PU-S-PAZ-PAR	3666445013394
100-OE-H-0075-PU-S	3666445013387
100-OE-H-0075-PU-S-PAZ	3666445013370
100-OE-H-0075-PU-S-PAR	3666445013363
100-OE-H-0075-PU-S-PAZ-PAR	3666445013356
100-OE-H-0100-PU-S	3666445013349
100-OE-H-0100-PU-S-PAZ	3666445013332
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100-OE-H-0100-PU-S-PAZ-PAR	3666445013318
100-OE-H-0150-PU-S	3666445013301
100-OE-H-0150-PU-S-PAZ	3666445013295
100-OE-H-0150-PU-S-PAR	3666445013288
100-OE-H-0150-PU-S-PAZ-PAR	3666445013271
100-OE-H-0200-PU-S	3666445013264
100-OE-H-0200-PU-S-PAZ	3666445013257
100-OE-H-0200-PU-S-PAR	3666445013240
100-OE-H-0200-PU-S-PAZ-PAR	3666445013233
100-OE-H-0300-PU-S	3666445013226
100-OE-H-0300-PU-S-PAZ	3666445013219
100-OE-H-0300-PU-S-PAR	3666445013202
100-OE-H-0300-PU-S-PAZ-PAR	3666445013196
100-OE-H-0400-PU-S	3666445013189
100-OE-H-0400-PU-S-PAZ	3666445013172
100-OE-H-0400-PU-S-PAR	3666445013165
100-OE-H-0400-PU-S-PAZ-PAR	3666445013158
100-OE-H-0600-PU-S	3666445013141
100-OE-H-0600-PU-S-PAZ	3666445013134
100-OE-H-0600-PU-S-PAR	3666445013127
100-OE-H-0600-PU-S-PAZ-PAR	3666445013110
100-OE-H-0050-PU-K	3666445013103
100-OE-H-0050-PU-K-PAZ	3666445013097
100-OE-H-0050-PU-K-PAR	3666445013080
100-OE-H-0050-PU-K-PAZ-PAR	3666445013073
100-OE-H-0075-PU-K	3666445013066
100-OE-H-0075-PU-K-PAZ	3666445013059
100-OE-H-0075-PU-K-PAR	3666445013042
100-OE-H-0075-PU-K-PAZ-PAR	3666445013035
100-OE-H-0100-PU-K	3666445013028
100-OE-H-0100-PU-K-PAZ	3666445013011
100-OE-H-0100-PU-K-PAR	3666445013004
100-OE-H-0100-PU-K-PAZ-PAR	3666445012991
100-OE-H-0150-PU-K	3666445012984
100-OE-H-0150-PU-K-PAZ	3666445012977
100-OE-H-0150-PU-K-PAR	3666445012960
100-OE-H-0150-PU-K-PAZ-PAR	3666445012953
100-OE-H-0200-PU-K	3666445012946
100-OE-H-0200-PU-K-PAZ	3666445012939
100-OE-H-0200-PU-K-PAR	3666445012922
100-OE-H-0200-PU-K-PAZ-PAR	3666445012915
100-OE-H-0300-PU-K	3666445012908
100-OE-H-0300-PU-K-PAZ	3666445012892
100-OE-H-0300-PU-K-PAR	3666445012885
100-OE-H-0300-PU-K-PAZ-PAR	3666445012878
100-OE-H-0400-PU-K	3666445012861
100-OE-H-0400-PU-K-PAZ	3666445012854
100-OE-H-0400-PU-K-PAR	3666445012847
100-OE-H-0400-PU-K-PAZ-PAR	3666445012830
100-OE-H-0600-PU-K	3666445012823
100-OE-H-0600-PU-K-PAZ	3666445012816
100-OE-H-0600-PU-K-PAR	3666445012809
100-OE-H-0600-PU-K-PAZ-PAR	3666445012793



OE-XH

Standard Belt Range

CMW Product code	GTIN (EAN) code
100-OE-XH-0100-PU-S	3666445012786
100-OE-XH-0100-PU-S-PAZ	3666445012779
100-OE-XH-0100-PU-S-PAR	3666445012762
100-OE-XH-0100-PU-S-PAZ-PAR	3666445012755
100-OE-XH-0150-PU-S	3666445012748
100-OE-XH-0150-PU-S-PAZ	3666445012731
100-OE-XH-0150-PU-S-PAR	3666445012724
100-OE-XH-0150-PU-S-PAZ-PAR	3666445012717
100-OE-XH-0200-PU-S	3666445012700
100-OE-XH-0200-PU-S-PAZ	3666445012694
100-OE-XH-0200-PU-S-PAR	3666445012687
100-OE-XH-0200-PU-S-PAZ-PAR	3666445012670
100-OE-XH-0300-PU-S	3666445012663
100-OE-XH-0300-PU-S-PAZ	3666445012656
100-OE-XH-0300-PU-S-PAR	3666445012649
100-OE-XH-0300-PU-S-PAZ-PAR	3666445012632
100-OE-XH-0400-PU-S	3666445012625
100-OE-XH-0400-PU-S-PAZ	3666445012618
100-OE-XH-0400-PU-S-PAR	3666445012601
100-OE-XH-0400-PU-S-PAZ-PAR	3666445012595
100-OE-XH-0600-PU-S	3666445012588
100-OE-XH-0600-PU-S-PAZ	3666445012571
100-OE-XH-0600-PU-S-PAR	3666445012564
100-OE-XH-0600-PU-S-PAZ-PAR	3666445012557
100-OE-XH-0100-PU-K	3666445012540
100-OE-XH-0100-PU-K-PAZ	3666445012533
100-OE-XH-0100-PU-K-PAR	3666445012526
100-OE-XH-0100-PU-K-PAZ-PAR	3666445012519
100-OE-XH-0150-PU-K	3666445012502
100-OE-XH-0150-PU-K-PAZ	3666445012496
100-OE-XH-0150-PU-K-PAR	3666445012489
100-OE-XH-0150-PU-K-PAZ-PAR	3666445012472
100-OE-XH-0200-PU-K	3666445012465
100-OE-XH-0200-PU-K-PAZ	3666445012458
100-OE-XH-0200-PU-K-PAR	3666445012441
100-OE-XH-0200-PU-K-PAZ-PAR	3666445012434
100-OE-XH-0300-PU-K	3666445012427
100-OE-XH-0300-PU-K-PAZ	3666445012410
100-OE-XH-0300-PU-K-PAR	3666445012403
100-OE-XH-0300-PU-K-PAZ-PAR	3666445012397
100-OE-XH-0400-PU-K	3666445012380
100-OE-XH-0400-PU-K-PAZ	3666445012373
100-OE-XH-0400-PU-K-PAR	3666445012366
100-OE-XH-0400-PU-K-PAZ-PAR	3666445012359
100-OE-XH-0600-PU-K	3666445012342
100-OE-XH-0600-PU-K-PAZ	3666445012335
100-OE-XH-0600-PU-K-PAR	3666445012328
100-OE-XH-0600-PU-K-PAZ-PAR	3666445012311

## POWER RATING

## 2.2.4 EXTRUDED TIMING BELT OPEN ENDED LINEAR ROLL IMPERIAL TOOTH

## Section MXL

Traction Resistance				
Belt width	Max Traction Load Open Ended	Max Traction Load Joined	Breaking Strength	Weight
inch x 100 / mm	(N)	(N)	(N)	(kg/m)
025 / 6,35	218	109	866	0,01
050 / 12,7	446	223	1733	0,02
0100 / 25,4	891	446	3465	0,05
0200 / 50,8	1772	886	6930	0,09
0400 / 101,6	3544	1772	13860	0,19

Tooth Resistance							
Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)	Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)	Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)	Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)
0	7,50	800	4,94	1900	4,17	4500	3,38
20	7,24	900	4,83	2000	4,12	5000	3,28
40	7,02	1000	4,74	2200	4,03	5500	3,19
60	6,85	1100	4,65	2400	3,95	6000	3,11
80	6,71	1200	4,57	2600	3,88	6500	3,03
100	6,60	1300	4,50	2800	3,81	7000	2,96
200	6,09	1400	4,44	3000	3,74	7500	2,90
300	5,77	1440	4,42	3200	3,68	8000	2,83
400	5,53	1500	4,38	3400	3,63	8500	2,78
500	5,35	1600	4,32	3600	3,57	9000	2,72
600	5,19	1700	4,27	3800	3,52	9500	2,67
700	5,06	1800	4,21	4000	3,48	10000	2,62

## Section XL

Traction Resistance				
Belt width	Max Traction Load Open Ended	Max Traction Load Joined	Breaking Strength	Weight
inch x 100 / mm	(N)	(N)	(N)	(kg/m)
025 / 6,35	188	94	743	0,01
031 / 7,94	218	109	866	0,02
037 / 9,53	287	144	1114	0,02
050 / 12,7	416	208	1609	0,03
075 / 19,1	663	332	2599	0,05
0100 / 25,4	891	446	3465	0,06
0150 / 38,1	1396	698	5445	0,09
0200 / 50,8	1871	936	7301	0,12
0400 / 101,6	3802	1901	14850	0,24

Tooth Resistance							
Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)	Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)	Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)	Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)
0	24,85	800	17,15	1900	14,32	4500	11,34
20	24,22	900	16,77	2000	14,14	5000	10,97
40	23,66	1000	16,43	2200	13,82	5500	10,63
60	23,19	1100	16,13	2400	13,52	6000	10,33
80	22,77	1200	15,85	2600	13,25	6500	10,04
100	22,40	1300	15,58	2800	12,99	7000	9,79
200	21,03	1400	15,34	3000	12,75	7500	9,53
300	20,02	1440	15,25	3200	12,52	8000	9,30
400	19,23	1500	15,11	3400	12,32	8500	9,08
500	18,58	1600	14,89	3600	12,12	9000	8,88
600	18,04	1700	14,69	3800	11,93	9500	8,68
700	17,56	1800	14,49	4000	11,75	10000	8,50

## POWER RATING

### 2.2.4 EXTRUDED TIMING BELT OPEN ENDED LINEAR ROLL IMPERIAL TOOTH

#### Section L

Traction Resistance				
Belt width	Max Traction Load Open Ended	Max Traction Load Joined	Breaking Strength	Weight
inch x 100 / mm	(N)	(N)	(N)	(kg/m)
050 / 12,7	1257	629	4574	0,05
075 / 19,1	1940	970	7069	0,07
0100 / 25,4	2732	1366	9979	0,10
0150 / 38,1	4217	2109	15385	0,14
0200 / 50,8	5584	2792	20374	0,19
0300 / 76,2	8425	4212	30769	0,29
0400 / 101,6	11276	5638	41164	0,39

Tooth Resistance							
Shaft speed r/min	Maximum load per tooth per 1 cm width	Shaft speed r/min	Maximum load per tooth per 1 cm width	Shaft speed r/min	Maximum load per tooth per 1 cm width	Shaft speed r/min	Maximum load per tooth per 1 cm width
	(N/cm)		(N/cm)		(N/cm)		(N/cm)
0	38,21	800	24,45	1900	19,46	4500	14,22
20	37,05	900	23,80	2000	19,16	5000	13,56
40	36,04	1000	23,21	2200	18,58	5500	12,97
60	35,15	1100	22,66	2400	18,06	6000	12,42
80	34,39	1200	22,16	2600	17,58	6500	11,93
100	33,73	1300	21,69	2800	17,13	7000	11,46
200	31,27	1400	21,27	3000	16,71	7500	11,03
300	29,49	1440	21,10	3200	16,32	8000	10,62
400	28,11	1500	20,86	3400	15,94	8500	10,25
500	26,98	1600	20,48	3600	15,59	9000	9,88
600	26,02	1700	20,13	3800	15,26	9500	9,54
700	25,19	1800	19,78	4000	14,94	10000	9,22

#### Section H

Traction Resistance				
Belt width	Max Traction Load Open Ended	Max Traction Load Joined	Breaking Strength	Weight
inch x 100 / mm	(N)	(N)	(N)	(kg/m)
050 / 12,7	1257	629	4574	0,05
075 / 19,1	1940	970	7069	0,08
0100 / 25,4	2732	1366	9979	0,11
0150 / 38,1	4217	2109	15385	0,16
0200 / 50,8	5584	2792	20374	0,22
0300 / 76,2	84160	4212	30769	0,32
0400 / 101,6	11276	5638	41164	0,43
0600 / 152,4	17078	8539	62370	0,55
0800 / 203,2	11276	5638	41164	0,64

Tooth Resistance							
Shaft speed r/min	Maximum load per tooth per 1 cm width	Shaft speed r/min	Maximum load per tooth per 1 cm width	Shaft speed r/min	Maximum load per tooth per 1 cm width	Shaft speed r/min	Maximum load per tooth per 1 cm width
	(N/cm)		(N/cm)		(N/cm)		(N/cm)
0	44,85	800	28,75	1900	22,88	4500	16,71
20	43,51	900	27,98	2000	22,51	5000	15,95
40	42,35	1000	27,27	2200	21,85	5500	15,26
60	41,35	1100	26,63	2400	21,23	6000	14,61
80	40,47	1200	26,05	2600	20,66	6500	14,03
100	39,71	1300	25,50	2800	20,14	7000	13,48
200	36,85	1400	25,00	3000	19,64	7500	12,98
300	34,72	1440	24,80	3200	19,18	8000	12,50
400	33,08	1500	24,52	3400	18,74	8500	12,06
500	31,73	1600	24,08	3600	18,32	9000	11,63
600	30,59	1700	23,65	3800	17,94	9500	11,24
700	29,61	1800	23,26	4000	17,57	10000	10,85

## POWER RATING

### 2.2.4 EXTRUDED TIMING BELT OPEN ENDED LINEAR ROLL IMPERIAL TOOTH

#### Section XH

Traction Resistance				
Belt width	Max Traction Load Open Ended	Max Traction Load Joined	Breaking Strength	Weight
inch x 100 / mm	(N)	(N)	(N)	(kg/m)
0100 / 25,4	3881	1940	15048	0,37
0200 / 50,8	8247	4123	31977	0,65
0300 / 76,2	12613	6306	48906	0,98
0400 / 101,6	16979	8489	65835	1,32
0600 / 152,4	25710	12855	99693	1,97

Tooth Resistance							
Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)	Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)	Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)	Shaft speed r/min	Maximum load per tooth per 1 cm width (N/cm)
0	95,04	800	55,43	1900	43,42	4000	32,98
20	92,05	900	53,81	2000	42,71		
40	89,37	1000	52,35	2200	41,37		
60	86,97	1100	51,03	2400	40,15		
80	84,82	1200	49,83	2600	39,04		
100	82,89	1300	48,71	2800	37,99		
200	74,05	1400	47,68	2880	37,60		
300	68,73	1440	47,29	3000	37,03		
400	64,87	1500	46,72	3200	36,12		
500	61,86	1600	45,83	3400	35,26		
600	59,37	1700	44,98	3600	34,46		
700	57,26	1800	44,17	3800	33,70		





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