

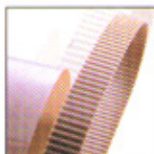


# **MEGADYNE**

## ***Products Guide***



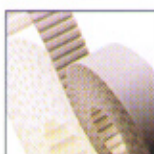




## **MEGAPOWER**

PU endless timing belts

9



## **MEGALINEAR**

PU open-end timing belts

13



## **MEGAFLEX**

PU endless timing belts - any special length on request

17



## **RPP**

Megapower, Megalinear and Megaflex PU belts

19



## **MEGARIB**

PU endless megarib belts

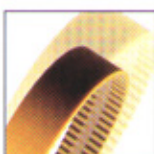
21



## **MEGAFLAT**

PU and rubber endless flat belts

23



## **SPECIAL**

Any special pitches, custom made coatings and profiles

25



## **RUBBER**

Classical and parabolic profiles

29



## **PULLEYS**

Custom made and standard pulleys available in any pitch and material

33





### **Distributors**

Argentina  
Australia  
Austria  
Belgium  
Canada  
Czech Rep.  
Chile  
Denmark  
Egypt  
Finland  
France  
Germany  
Greece  
Hong Kong  
India  
Indonesia  
Iran  
Ireland  
Israel  
Japan  
Malaysia  
Mexico  
Netherland  
New Zealand  
Norway  
Portugal  
Pakistan  
Syria  
Singapore  
Slovakia  
Slovenia  
South Africa  
South Korea  
Spain  
Sweden  
Switzerland  
Taiwan  
Thailand  
Turkey  
United Kingdom

### **Megadyne's Companies**

#### **BELORUSSIA**

Minsk

#### **BRAZIL**

San Paulo

#### **CHINA**

Foshan

#### **CZECH REPUBLIC**

Prague

#### **FRANCE**

St.Jean de Maurienne

St.Genevieve des Bois

#### **GERMANY**

Ulm

Vlotho

#### **ITALY**

Turin

Mathi

Milan

Bologna

Venice

#### **POLAND**

Bydgoszcz

#### **SLOVAKIA**

Bratislava

#### **SPAIN**

Barcelona

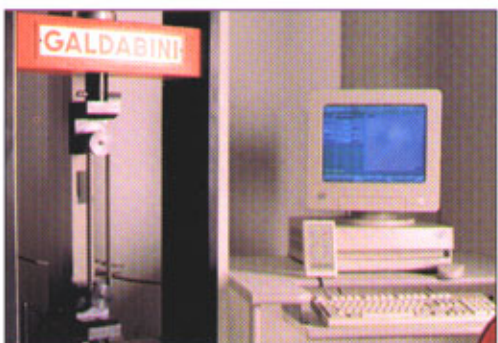
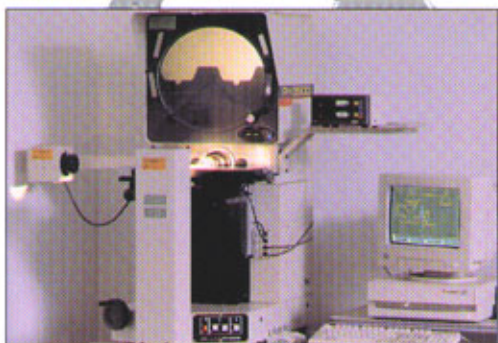
#### **UNITED KINGDOM**

Bradford

#### **USA**

Pineville-NC



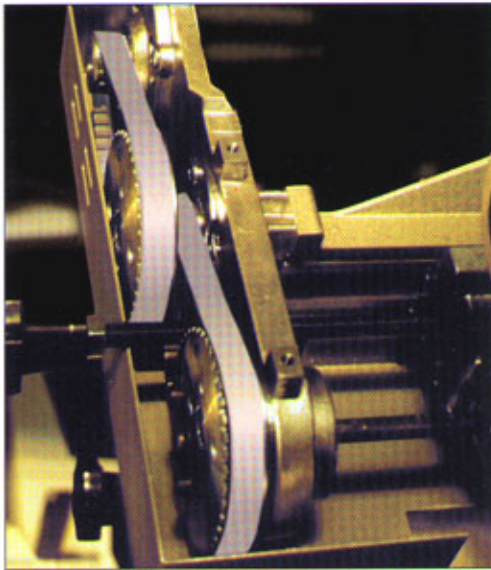
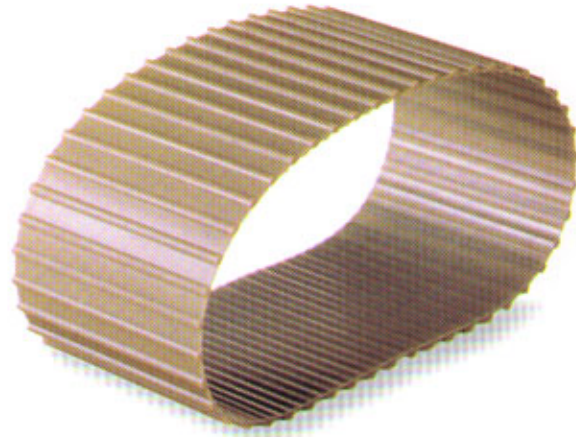
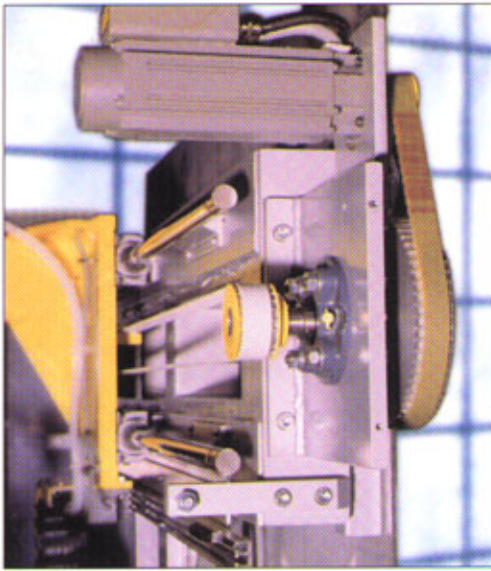


**Megadyne** started manufacturing transmission belts in 1957. Constant research and development in to new products, has created a wide high quality range, that places **Megadyne** as world leading producers of polyurethane and rubber transmission belts. A continually expanding global presence, offers a distribution network, that guarantees local service and engineering support. **Megadyne** products are used in all industrial drive applications, for power transmission, synchronisation, conveying and linear positioning. Manufacturing plants are located in Mathi (Italy) St.Jean de Maurienne (France), Ulm (Germany), Milan (Italy) and Pineville-NC (USA).

**Megadyne** offer, engineering support and advice to customers the world over. With our knowledge, resources and experience, we can accommodate new application requirements, that the ever constant demand of new technology brings.

The **Megadyne** mission is to constantly strive, and achieve the best possible product for all industrial applications.



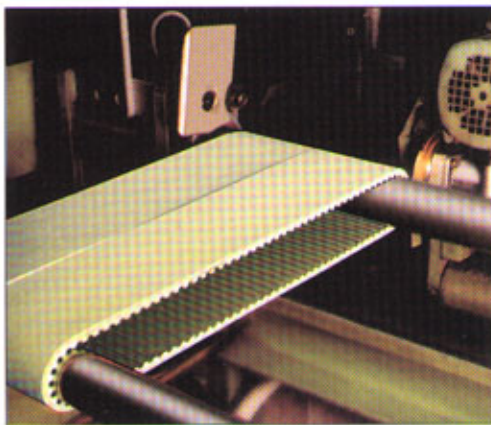


**MEGAPOWER** timing belts are manufactured by a unique thermoset moulding process.

The high-grade polyurethane gives excellent abrasion and shear resistance, combined with a variety of graded steel cords, ensuring high strength and tractive resistance. The result is a timing belt with excellent dimensional stability. Megapower moulded timing belts are manufactured to a tight tolerance range, which assures consistent length and thickness.

The combination of these factors results in Megapower, performing to the highest physical and chemical levels.

**MEGAPOWER PU** belts are suitable for high power and precision motion control, even at high speeds.



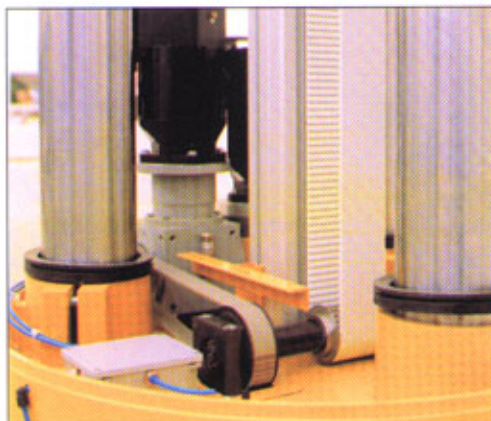
These belts have the following features:

**MECHANICAL features**

- Consistent dimensional stability
- Low pre-tension
- Low noise
- High abrasion resistance
- Low maintenance
- High flexibility
- Linear speeds up to 80 m/sec

**CHEMICAL features**

- Good resistance to
  - Ageing,
  - Hydrolysis,
  - UVA rays,
  - Ozone
- Working temperature range -30°C to +80°C (upto +110 °C for short periods)
- High resistance to oils, fats and greases
- Good resistance to most acids and Alkalis.

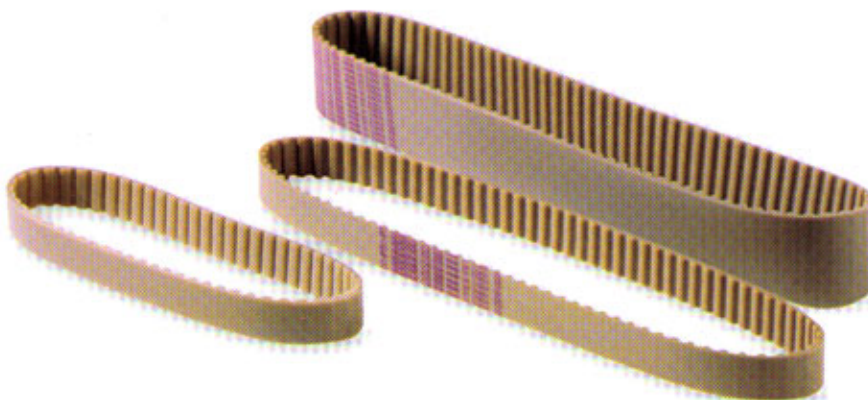
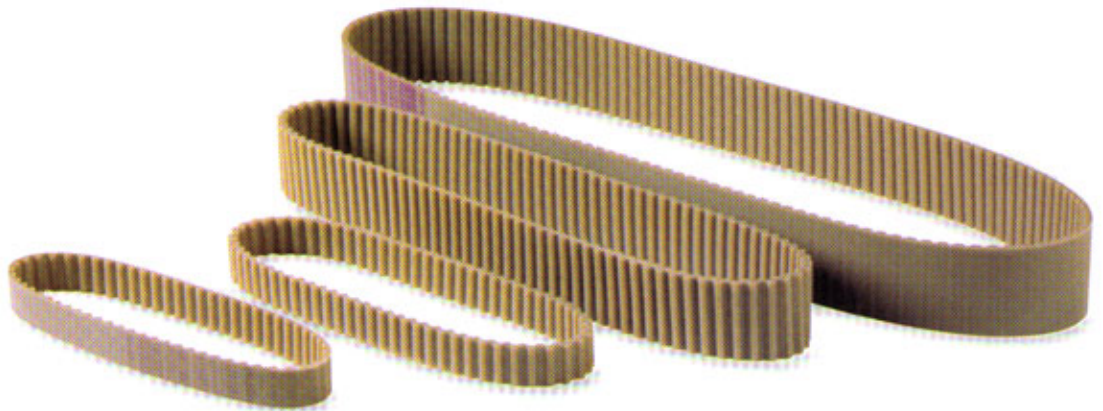
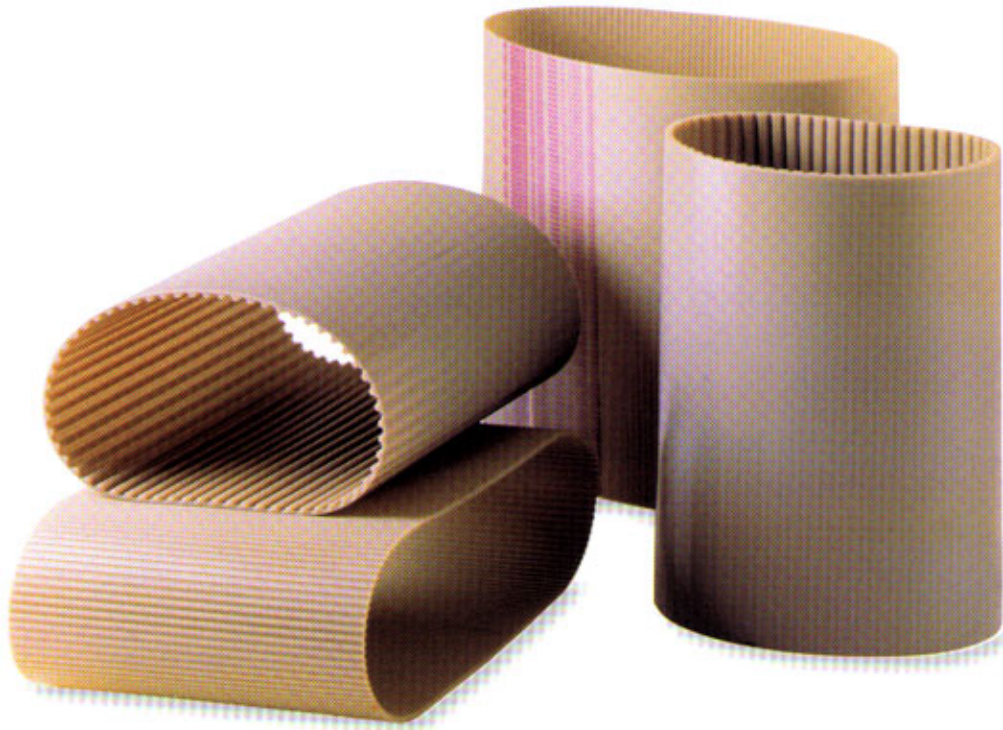


**MEGAPOWER PU** belts perform especially well on light synchronised and stepped drives, in office automation and domestic appliance applications.



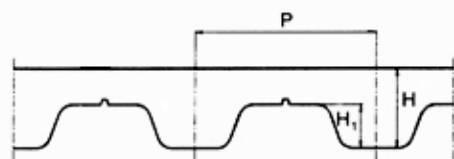
# MEGAPOWER

PU endless timing belts

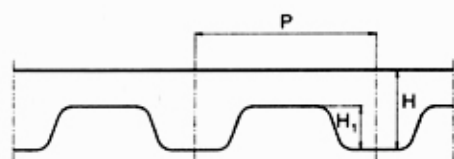




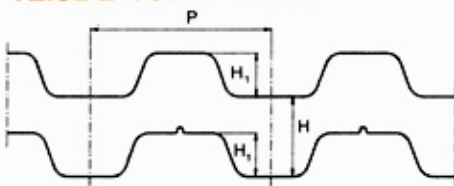
## T2-T2.5-T5-T10



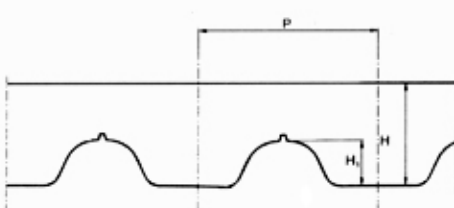
## T10\* available without nose



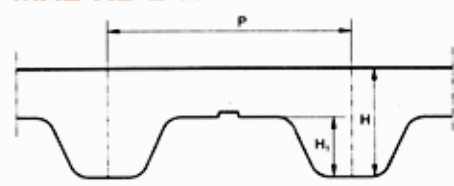
## T2.5DL-T5DL-T10DL



## AT5-AT10



## MXL-XL-L-H



### T 2.5

standard width (mm)

4/6/8/10/12

### T 2.5

code length (mm)

120	120
145	145
160	160
177,5	177,5
180	180
182,5	182,5
200	200
230	230
245	245
265	265
285	285
290	290
305	305
317,5	317,5
330	330
380	380
420	420
480	480
500	500
600	600
620	620
650	650
680	680
780	780
880	880
915	915
950	950
1185	1185

P 2,5

H 1,3

H1 0,7

### T 2

standard width (mm)

4/6/8/10/12

### T 2

code length (mm)

180	180
200	200
288	288

P 2

H 1,1

H1 0,5

### T 5

standard width (mm)

6/8/10/12/16/20/25

### T 5

code length (mm)

120	120
150	150
180	180
185	185
200	200
210	210
215	215
220	220
225	225
245	245
250	250
255	255
260	260
270	270
280	280
295	295
305	305
330	330
340	340
350	350
355	355
365	365
390	390
400	400
410	410
420	420
455	455
460	460
475	475
480	480
500	500
510	510
525	525
545	545
550	550
560	560
575	575
590	590
610	610
620	620
630	630
650	650
660	660
690	690
720	720
750	750
765	765
780	780
815	815
830	830
840	840
860	860
885	885
900	900
940	940
990	990
1075	1075
1100	1100
1160	1160
1200	1200
1215	1215
1275	1275
1280	1280
1315	1315
1355	1355
1380	1380
1580	1580
1955	1955

P 5,0

H 2,2

H1 1,2

### T 10

standard width (mm)

10/12/16/20/25/32/50/75

### T 10

code length (mm)

260	260
340	340
370	370
390	390
400	400
410	410
440	440
480	480
500	500
530	530
560	560
600	600
600*	600*
610	610
630	630
630*	630*
660	660
680	680
690	690
700	700
720	720
730	730
750	750
780	780
810	810
840	840
880	880
890	890
900	900
900*	900*
920	920
920*	920*
960	960
970	970
980	980
1010	1010
1080	1080
1110	1110
1140	1140
1150	1150
1210	1210
1240	1240
1250	1250
1300	1300
1320	1320
1350	1350
1390	1390
1400	1400
1420	1420
1460	1460
1500	1500
1560	1560
1610	1610
1750	1750
1780	1780
1880	1880
1960	1960
2250	2250

P 10,0

H 4,5

H1 2,5

### T 2.5 DL

standard width (mm)

4/6/8/10/12

### T 2.5 DL

code length (mm)

457,5 DL	457,5
----------	-------

P 2,5

H 1,3

H1 0,7

### T 5 DL

standard width (mm)

6/8/10/12/16/20/25

### T 5 DL

code length (mm)

410 DL	410
460 DL	460
590 DL	590
620 DL	620
750 DL	750
815 DL	815
860 DL	860
940 DL	940
1100 DL	1100

P 5,0

H 2,2

H1 1,2

### T 10DL

standard width (mm)

10/12/16/20/25/32/50/75

### T 10DL

code length (mm)

260 DL	260
530 DL	530
630 DL	630
660 DL	660
720 DL	720
840 DL	840
920 DL	920
980 DL	980
1210 DL	1210
1240 DL	1240
1250 DL	1250
1320 DL	1320
1350 DL	1350
1420 DL	1420
1610 DL	1610
1880 DL	1880

P 10,0

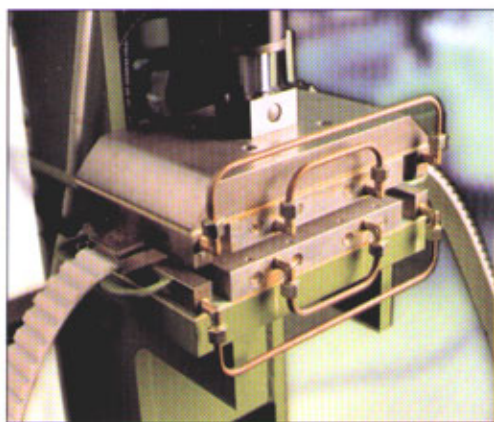
H 4,5

H1 2,5



11





**MEGALINEAR** open length timing belts are manufactured in thermoplastic polyurethane, that gives superior wear and abrasion resistance. Various grades of steel cords offer good running characteristics, even with high tractive loads. Manufactured to tight tolerances, Megalinear delivers reliability and excellent dimensional stability. The addition of a Nylon coating on the tooth and/or the back of the belt during production, enhances the running properties for specific applications. An extra thickness of polyurethane is also possible on the back of the belt, offering extra protection against aggressive or heavy products.

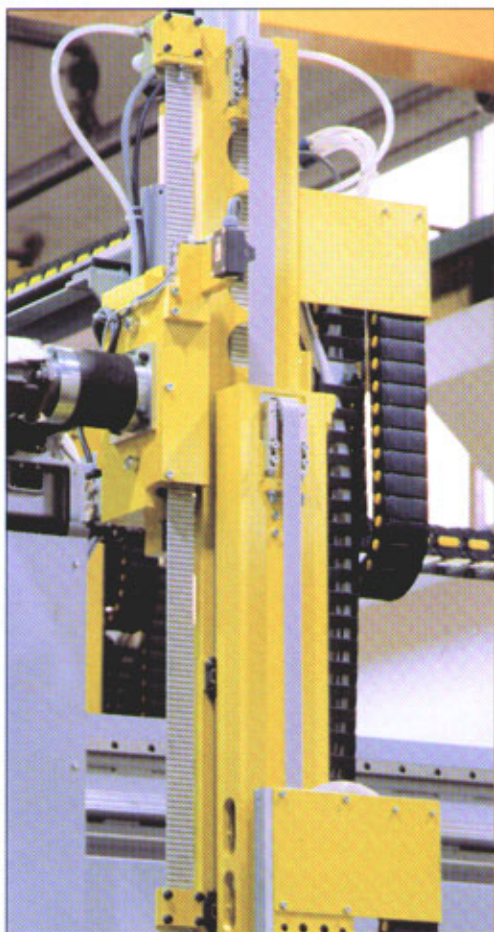
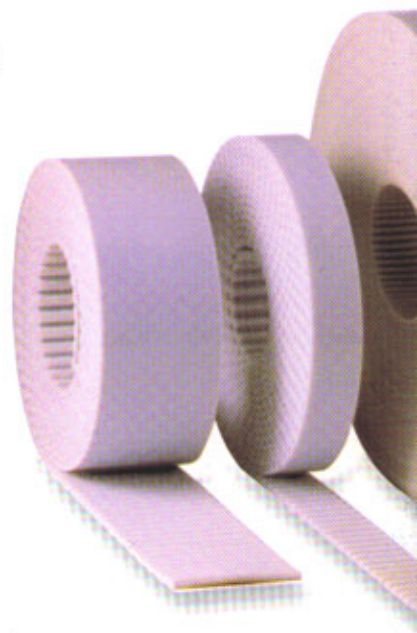
**MEGALINEAR** offers the following features:

#### **MECHANICAL features**

- Consistent dimensional stability
- Low pre-tension
- Low noise
- High abrasion resistance
- Low maintenance
- High flexibility
- Linear speeds up to 80m/sec
- High precision linear positioning

#### **CHEMICAL features**

- Good resistance to
  - Ageing,
  - Hydrolysis,
  - UVA rays,
  - Ozone
- Working temperature range -30°C to +80°C (upto +110°C for short periods)
- High resistance to oils, fats and greases
- Good resistance to most acids and alkalis
- Compatible for fabrication with other thermoplastic materials



**MEGALINEAR** can be supplied as open length rolls, or as endless jointed belts.

#### **OPEN LENGTH belts**

These are manufactured as continuous lengths, with the reinforcement in a parallel configuration. Standard roll lengths are 50 or 100 metres. Other lengths available on request.

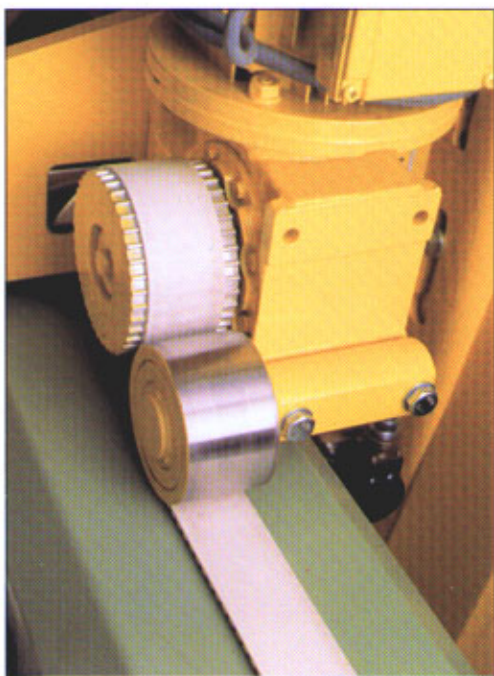
**MEGALINEAR** belts as an open length are normally used in linear motion drives.

#### **ENDLESS JOINTED belts**

By jointing using the thermoplastic properties of the open length belt, endless belts can be produced to any length by welding. The finished joint is resistant to fatigue from flexing and tension, due to the unique symmetrical Vee shaped pattern of the joint.

Endless jointed belts are suitable for conveying applications, particularly when indexing and/or positive drive is required. Supplementary application of flights, profiles and coatings is possible, to suit specific applications.

**MEGALINEAR** is also available with alternative reinforcement cords such as, Kevlar (K), High Flex (HF), High Performance (HP) and High Performance Flex (HPF).



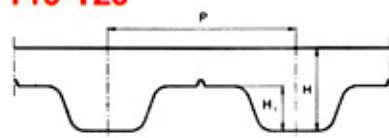
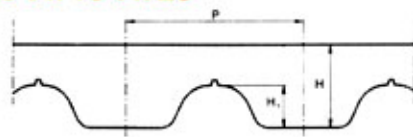
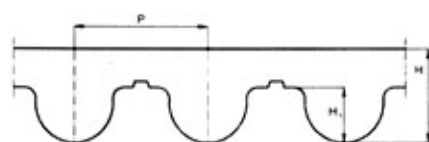
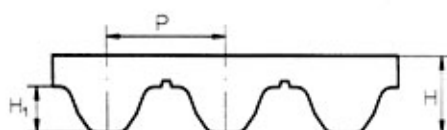
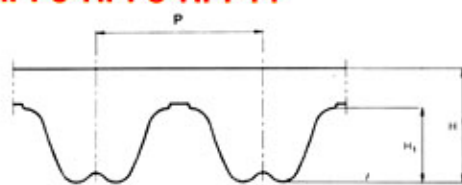
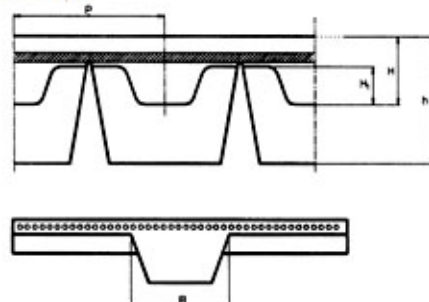
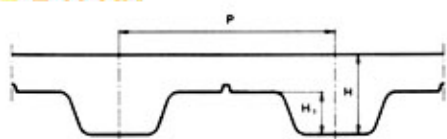


# MEGALINEAR

PU open length timing belts





**T5-T10-T20****AT5-AT10-AT20****MTD5M-MTD8M-MTD14M****STD 8M****RPP5-RPP8-RPP14****P1-P2****TG5-TG10-TG20-ATG10-ATG20-HG K13****XL-L-H-XH****T 5**

standard width (mm)

6  
10  
16  
25  
32  
50  
75  
100

P 5

H 2,2

H1 1,2

**T 10**

standard width (mm)

12  
16  
25  
32  
50  
75  
100  
150  
200\*

P 10

H 4,5

H1 2,5

**T 20**

standard width (mm)

25  
32  
50  
75  
100  
150

P 20

H 8,0

H1 5,0

**AT 5**

standard width (mm)

6  
10  
16  
25  
32  
50  
75

P 5

H 2,7

H1 1,2

**AT 10**

standard width (mm)

16  
25  
32  
50  
75  
100  
150

P 10

H 4,5

H1 2,5

**AT 20**

standard width (mm)

25  
32  
50  
75  
100  
150  
200

P 20

H 8,0

H1 5,0

**MTD5M**

standard width (mm)

10  
15  
25  
50

P 5

H 3,6

H1 2,1

**MTD8M**

standard width (mm)

10  
15  
20  
30  
50  
85  
100

P 8

H 5,6

H1 3,4

**MTD14M**

standard width (mm)

25  
40  
55  
85  
100  
115

P 14

H 10,0

H1 6,1

**RPP5**

standard width (mm)

10  
15  
25  
30  
50

P 5

H 3,8

H1 2,0

**RPP8**

standard width (mm)

10  
15  
20  
30  
50  
85  
100

P 8

H 5,4

H1 3,2

**RPP14**

standard width (mm)

40  
55  
85  
115

P 14

H 10,0

H1 6,0

**P1**

standard width (mm)

10  
20

H 1,0

**P2**

standard width (mm)

25  
50  
75  
100

H 2,0

\* Only with kevlar cords and 50% cords less



TG 5	TG10 K6
standard width (mm)	standard width (mm)
25 32 50	50
P 5	P 10
H 2,2	H 4,5
H <sub>i</sub> 1,2	H <sub>i</sub> 2,5
B 6	B 6
h 4	h 4

TG10 K13	TG20
standard width (mm)	standard width (mm)
32 50 75 100	50 75 100
P 10	P 2,0
H 4,5	H 8,0
H <sub>i</sub> 2,5	H <sub>i</sub> 5,0
B 13	B 13
h 6,5	h 6,5

ATG 10
standard width (mm)
32 50 75 100 150
P 10,0
H 4,5
H <sub>i</sub> 2,5
B 13
h 6,5

ATG 20
standard width (mm)
150
P 20
H 8,0
H <sub>i</sub> 5,0
B 13
h 6,5

HG K13
standard width (mm)
38,1 50,8 76,2 101,6
P 12,7
H 4,3
H <sub>i</sub> 2,29
B 13
h 6,5

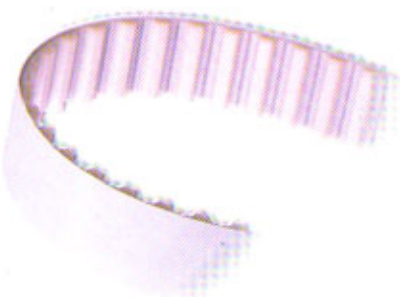
STD 8M
standard width (mm)
10 12 15 20 30 50 85
P 8,0
H 5,1
H <sub>i</sub> 3,05

XL
standard width (inches)
0,25 0,31 0,37 0,50 1,00 1,50 2,00
P 5,08
H 2,30
H <sub>i</sub> 1,27

L
standard width (inches)
0,37 0,50 0,75 1,00 1,50 2,00
P 9,525
H 3,60
H <sub>i</sub> 1,90

H
standard width (inches)
0,50 0,75 1,00 1,50 2,00 3,00 4,00 8,00*
P 12,7
H 4,30
H <sub>i</sub> 2,29

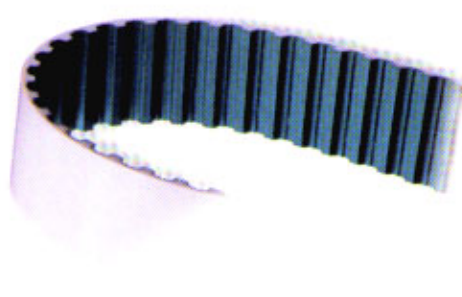
XH
standard width (inches)
1,00 1,50 2,00 3,00 4,00 6,00
P 22,225
H 11,2
H <sub>i</sub> 6,35



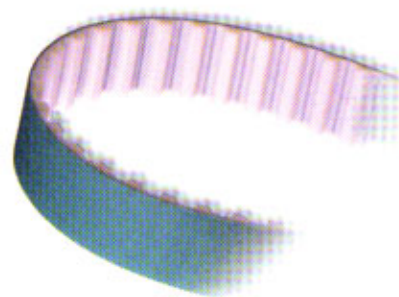
AVAFC - PU 85 Shore A, coating on the back.



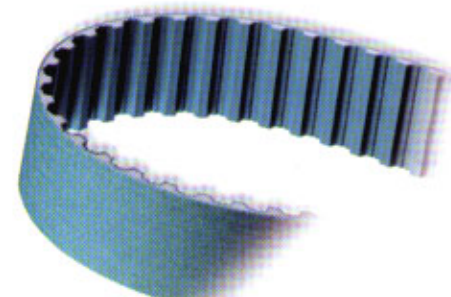
Endless jointed belt



NFT - Nylon fabric on teeth, low friction and noise.



NFB - Nylon fabric on back, low friction for conveying.



NFB and NFT

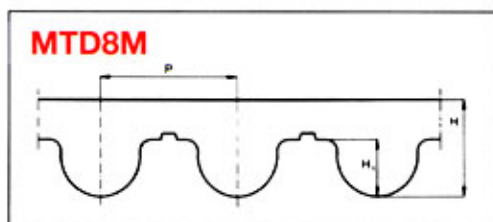
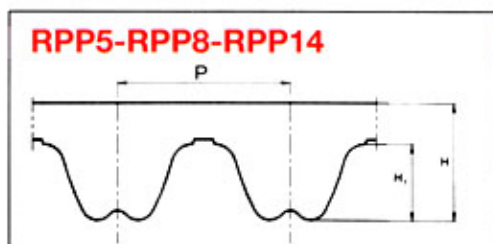
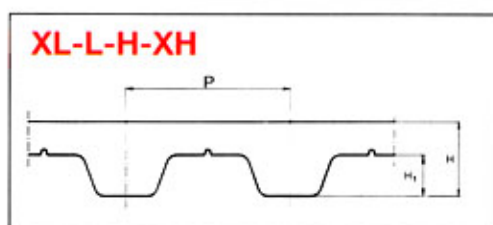
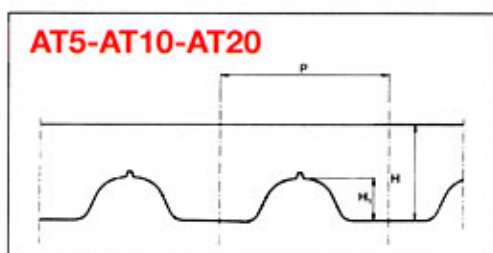
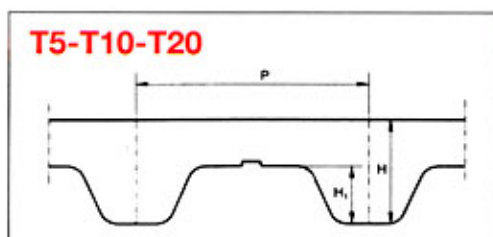




**MEGAFLEX** timing belts are manufactured in thermoplastic polyurethane, with continuous spiral steel cords. Megaflex belts are truly endless, enabling them to deliver exceptional performance. They are especially suited for power transmission, conveying with high loads and high speeds (up to 10,000 Rpm).

**MEGADYNE MEGAFLEX TIMING BELTS ARE AVAILABLE FROM 1.500 UP TO 22.700 mm LENGTH.**

<b>T5</b> standard width (mm)	<b>T10</b> standard width (mm)	<b>T20</b> standard width (mm)	<b>P2</b> standard width (mm)
10	10	10	25
16	16	16	50
25	25	25	75
32	32	32	100
50	50	50	150
75	75	75	
100	100	100	
150	150	150	
P 5	P 10	P 20	P 2,0
H 2,2	H 4,5	H 8,0	
H <sub>1</sub> 1,2	H <sub>1</sub> 2,5	H <sub>1</sub> 5,0	



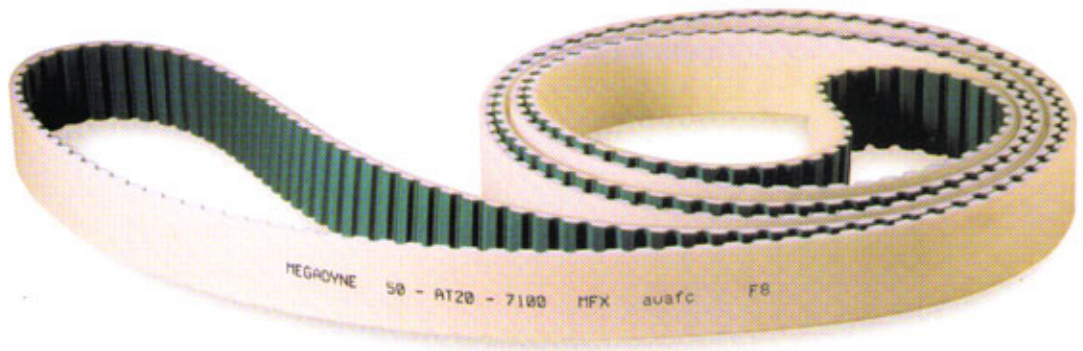
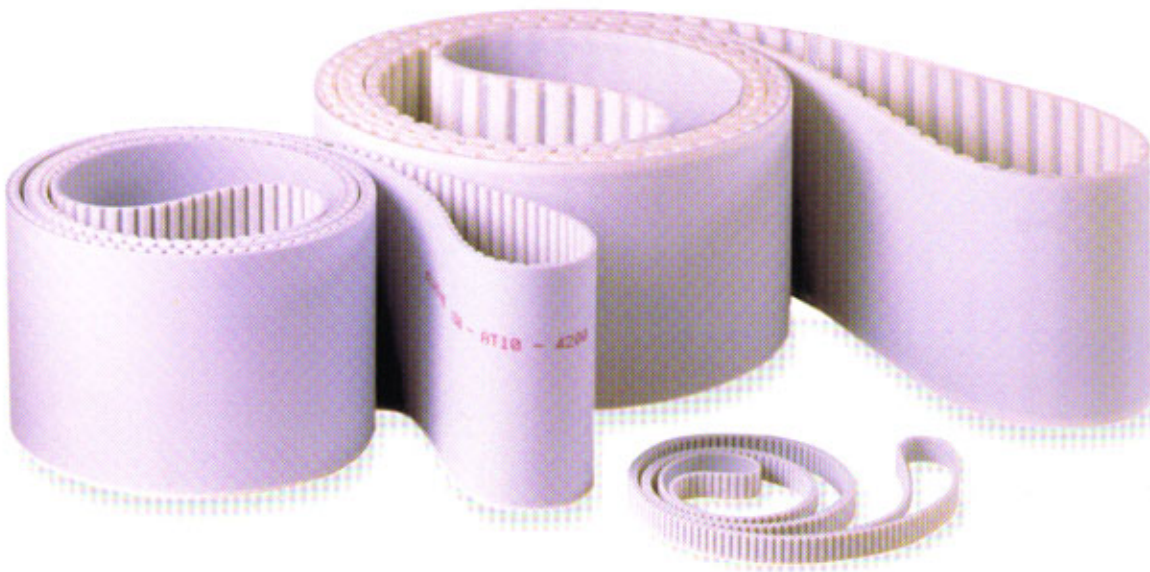
<b>AT5</b> standard width (mm)	<b>AT10</b> standard width (mm)	<b>AT20</b> standard width (mm)	<b>ATG10*</b> standard width (mm)
10	10	10	10
16	16	16	16
25	25	25	25
32	32	32	32
50	50	50	50
75	75	75	75
100	100	100	100
150	150	150	150
P 5	P 10	P 20	P 10
H 2,7	H 4,5	H 8,0	H 4,5
H <sub>1</sub> 1,2	H <sub>1</sub> 2,5	H <sub>1</sub> 5,0	H <sub>1</sub> 2,5

<b>XL</b> standard width (mm)	<b>L</b> standard width (mm)	<b>H</b> standard width (mm)	<b>XH</b> standard width (mm)
19,53	19,53	19,53	19,53
12,7	12,7	12,7	12,7
19,1	19,1	19,1	19,1
25,4	25,4	25,4	25,4
38,1	38,1	38,1	38,1
50,8	50,8	50,8	50,8
76,2	76,2	76,2	76,2
101,6	101,6	101,6	101,6
152,4	152,4	152,4	152,4
P 5,08	P 9,525	P 12,7	P 22,225
H 2,3	H 3,6	H 4,3	H 11,2
H <sub>1</sub> 1,27	H <sub>1</sub> 1,9	H <sub>1</sub> 2,29	H <sub>1</sub> 6,35

<b>RPP5</b> standard width (mm)	<b>RPP8</b> standard width (mm)	<b>RPP14</b> standard width (mm)	<b>MTD8M</b> standard width (mm)
10	10	10	10
15	15	15	16
20	20	20	25
25	25	25	32
50	50	50	50
85	85	85	75
100	100	100	100
150	150	150	150
P 5	P 8	P 14	P 8
H 3,8	H 5,4	H 10,0	H 5,6
H <sub>1</sub> 2,0	H <sub>1</sub> 3,20	H <sub>1</sub> 6,0	H <sub>1</sub> 3,4

\* See ATG10 Megalineer for the guide dimensions





## MEGAFLEX

### Special constructions

- High flex cords
- (NFT) nylon fabric on the teeth  
(Available from 1.900 mm long)
- Custom milling, grinding and drilling to specification,
- Additional continuous coatings on the back of the belt in;
  - PUR 85° ShA
  - Tenax 50° ShA
  - Linatex 40° ShA
  - Yellow PUR 60° ShA
  - Grey PUR 60° ShA
  - Neoprene rubber 70° ShA

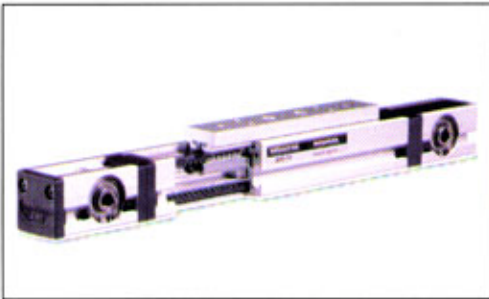
Other hardnesses available on request.



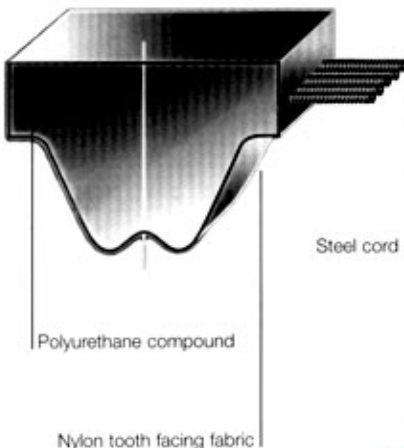




Belt drive for garage door



Linear belt drive unit



The **RPP Green Power** polyurethane timing belt drive system, represents the most modern and efficient power transmission system on the market. The ever increasing demands of power transmission design, requires drives which can transmit high power loads, combined with high synchronous precision, along with compactness and reduced weight.

**RPP polyurethane belt** has been developed from the parabolic profile, patented by Dayco, which offers a host of application advantages.

## THE PROFILE

### - Meshing:

The parabolic profile with nylon facing on the tooth, allows the optimal meshing between belt and pulley. This is achieved without creep even on small pulley diameters, at high dynamic working tensions.

### - Precision:

The unique parabolic design of the profile, makes the RPP system, the most advanced drive system, in terms of minimal interference between belt and pulley during meshing. This gives great advantages in drives where high positional and angular accuracy are required, even under shock and surge loading conditions.

### - Interchangeability

RPP Green Power has the same profile as other RPP belts. This allows RPP Green Power to run on standard RPP pulleys currently using RPP rubber belts. It is also possible to interchange RPP Green Power with other drive systems available in the market.

## CONSTRUCTION

1. The high hardness polyurethane in the body of the belt, gives exceptional teeth wear resistance, even under shock and surge loading conditions.
2. The green nylon fabric on the teeth reduces noise, and gives a reduced coefficient of friction. This offers improved meshing with the pulley as well as an overall cleaner drive system.
3. High strength steel tensioning members, allow a higher breaking load, very low elongation and pre tension.

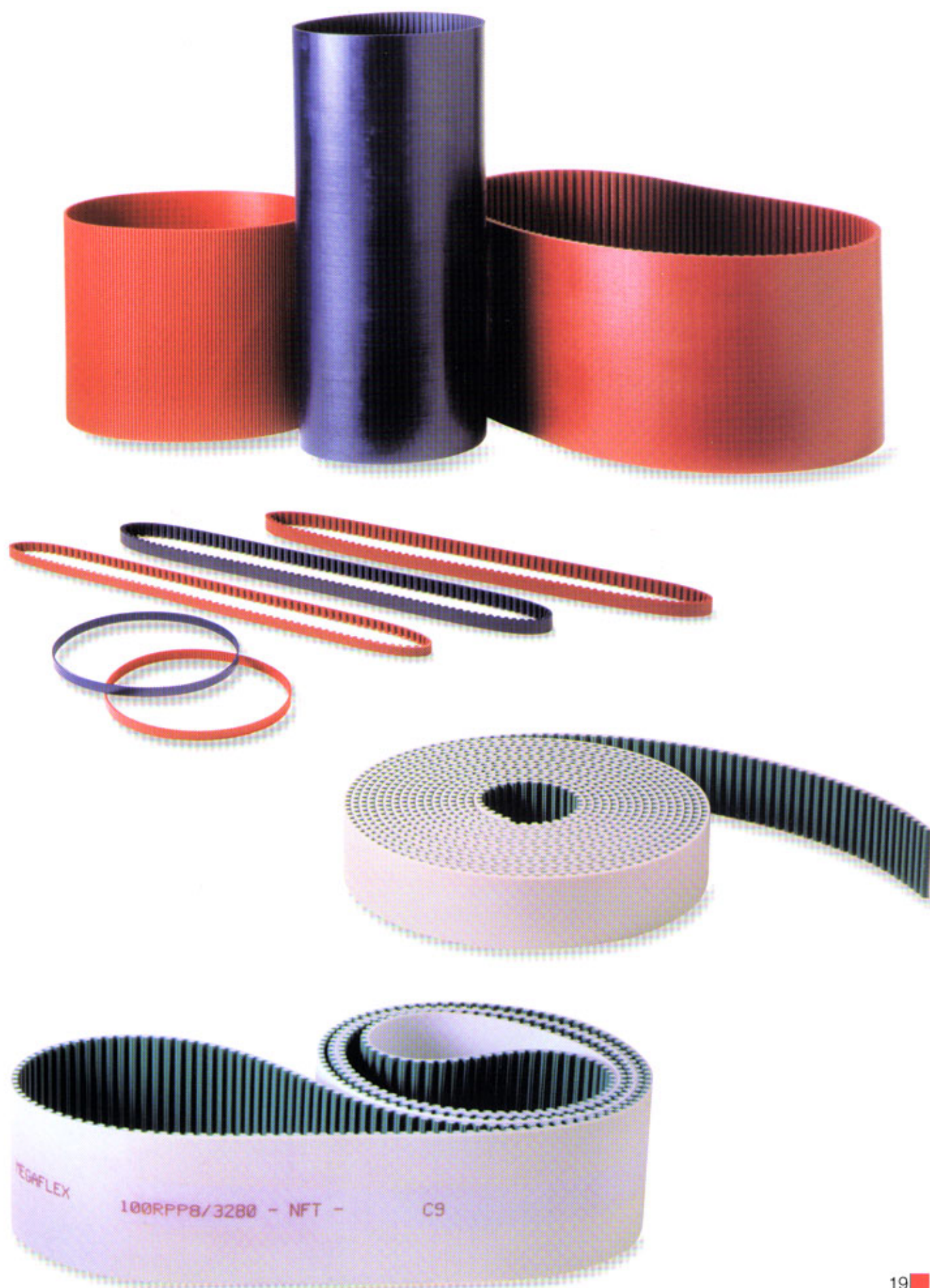
**RPP Green Power** endless timing belts are manufactured by a moulding process, that produces a close tolerance range, which assures constant thickness and length.

**RPP Green Power** are manufactured in **Megalinear** as open length or jointed belts (see page 13), or as **Megaflex** truly endless belts (see page 17). **Megapower RPP** endless belts are also available on request.

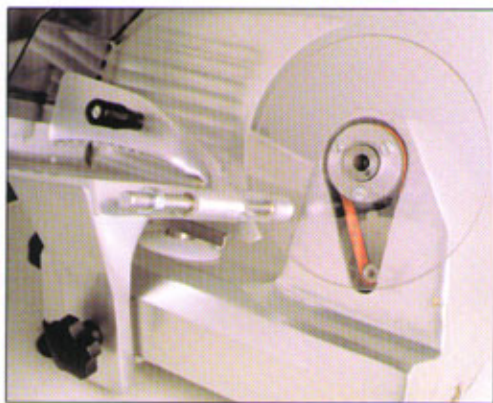


# RPP

Megapower, Megalineer and Megaflex PU belts







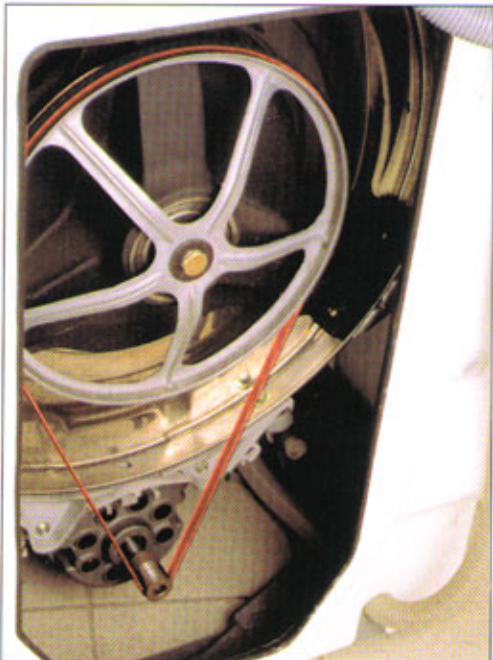
**MEGARIB** belts are manufactured in polyurethane with polyester high tension cords, which combine the high flexibility of flat belts with the power transmission capability of vee belt.

**These belts have the following features;**

- Dimensional stability
- High flexibility
- Small pulley diameters
- High speeds
- Excellent oil, water and ozone resistance

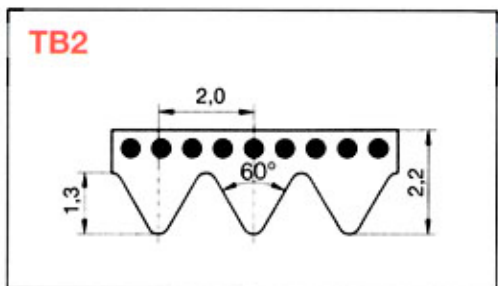
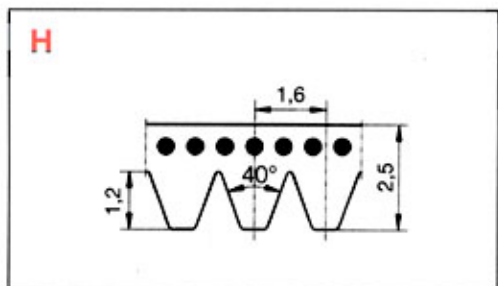
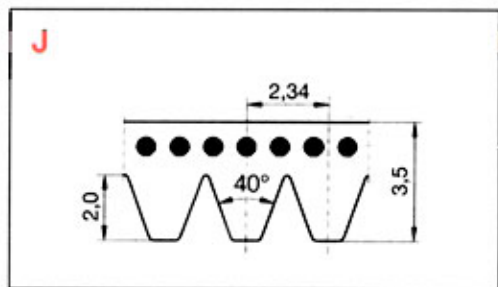
**The main applications are;**

- Food processors
- Grass cutting equipment
- Electrical household appliances
- Washing machines
- Electrical tools
- Woodworking equipment
- Domestic power tools



**MEGARIB SE**

are manufactured in polyurethane with a semi-elastic tension member. They can be fitted on fix centre drives, reducing noise and vibrations. The absence of a tensioning mechanism, offers additional cost savings. These belts are available in a wide variety of rib pitches and length (See below).

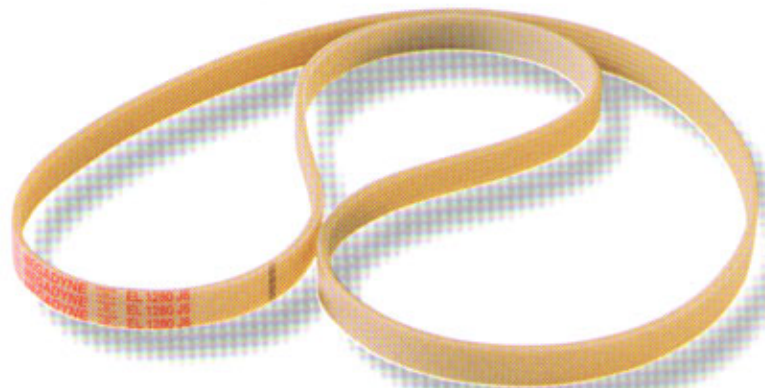
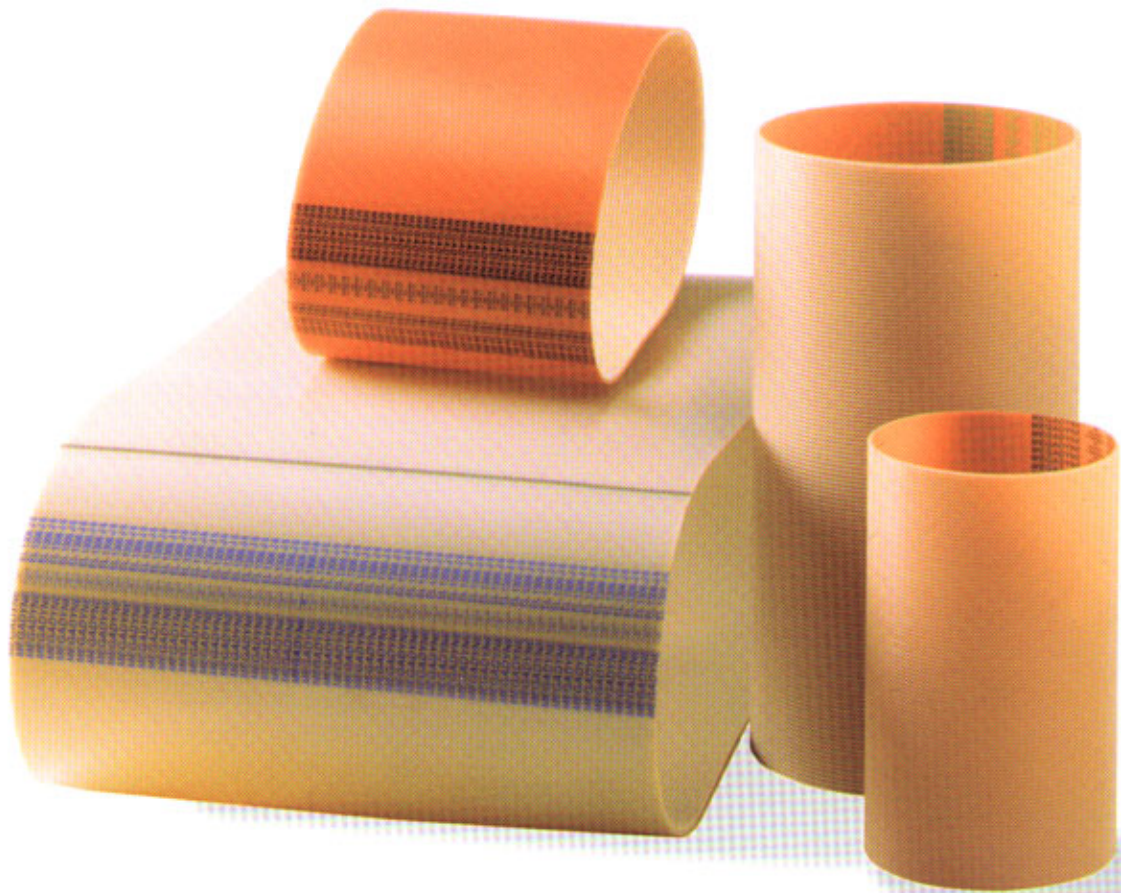


<b>J</b>		<b>H</b>	<b>TB2</b>
standard length		standard length (mm)	standard length (mm)
(mm)	(inches)		
220	87	178	156
271	107	217	170
275	108	223	200
278	110	227	220
283	111	229	231
288	114	295	248
304	120	330	266
330	130	340	295
345	135	375	310
356	140	389	327
360	142	400	330
381	150	485	333
392	154	507	345
406	160	588	360
431	170	602	380
444	175	609	400
457	180	650	430
471	185	768	480
483	190	935	510
508	200	1000	526
558	220	1086	535
610	240	1120	598
660	260	1163	630
681	268	1203	660
711	280	1240	675
762	300	1775	725
864	340	1976	770
914	360		1186
953	376		
1010	398		
1086	428		
1120	440		
1163	458		
1202	474		
1239	488		
1268	500		
1397	590		



# MEGARIB

PU endless multirib belts







**MEGAFLAT** belts are truly endless mandrel moulded, available in both polyurethane or chloroprene rubber, with either polyester, aramide or cotton reinforcements. Standard sleeves are available 330 mm wide.

**These belts have the following features;**

- High flexibility
- Small pulley diameters
- Dimensional accuracy
- High speed
- Energy efficient
- Low noise and vibration
- Low maintenance
- Good chemical and ozone resistance
- High friction surface

**MEGAFLAT** belts are particularly suitable for both power transmission and conveying.

<b>TENSILE REINFORCEMENT</b>
INSTALLATION TENSION x cm WIDTH (N) ENDLESS
MIN. PULLEY DIA. mm
THICKNESS mm
STANDARD LENGHT mm
COATING MATERIAL
ANTISTATIC

<b>V 75</b>
polyester fabric
150
6
0,5
200/3800
NEOPRENE
YES

<b>TW 80/c</b>
polyester fabric
160
10
0,6
200/2000
NEOPRENE COTTON
YES

<b>T 150</b>
polyester fabric
300
15
0,9
200/3800
NEOPRENE
YES

<b>T 200</b>
polyester fabric.
400
18
1,1
200/3800
NEOPRENE
YES

<b>TENSILE REINFORCEMENT</b>
INSTALLATION TENSION x cm WIDTH (N) ENDLESS
MIN. PULLEY DIA. mm
THICKNESS mm
STANDARD LENGHT mm
COATING MATERIAL
ANTISTATIC

<b>PU 85</b>
polyester fabric
80
6
0,8
300/3800
POLYURETHANE
NO

<b>PU 110</b>
polyester fabric
120
12
1
300/3800
POLYURETHANE
NO

<b>PU 120</b>
polyester fabric
300
20
1,3
300/3800
POLYURETHANE
NO

<b>PU/EL</b>
no reinforcement
ELASTIC
12
0,7
150/1500
POLYURETHANE
NO

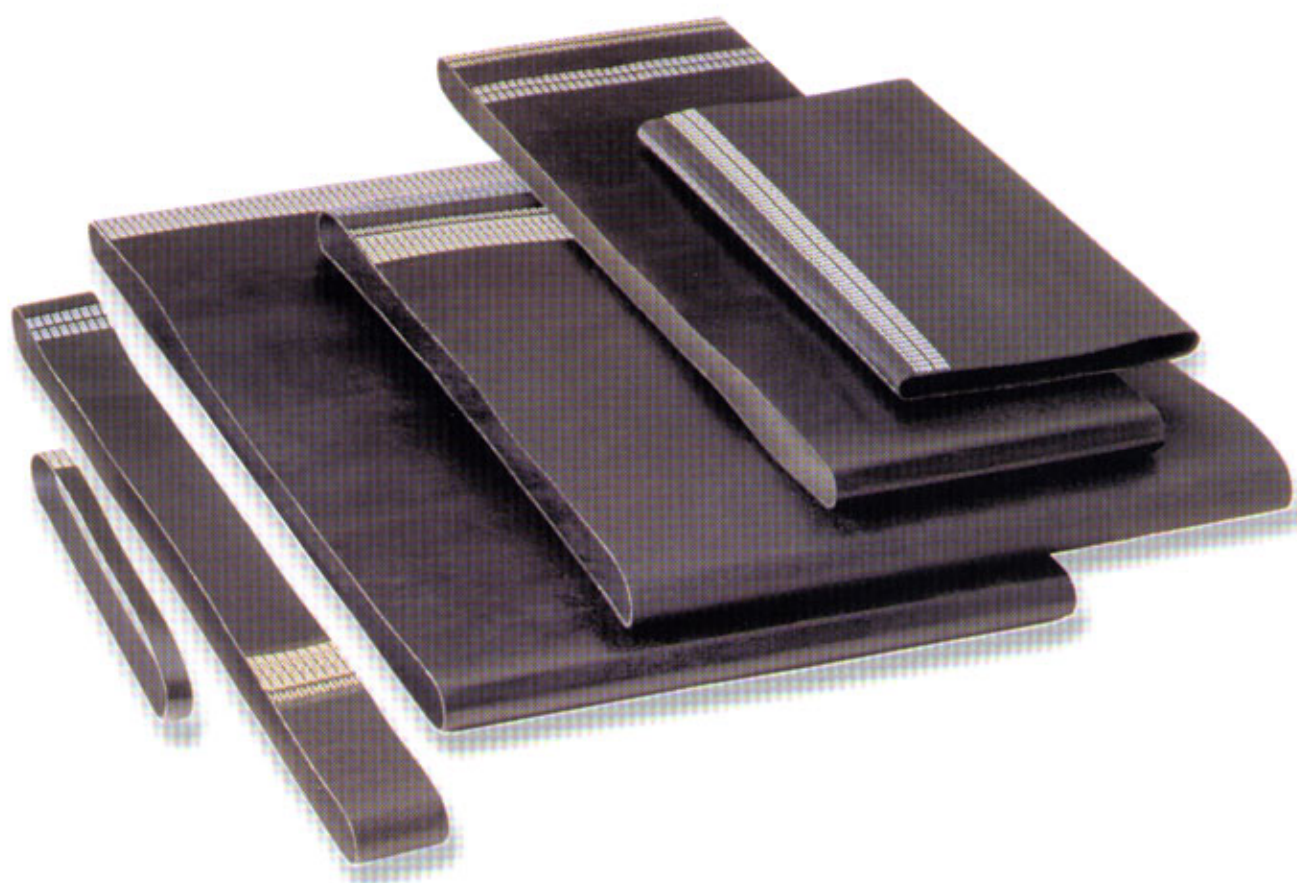
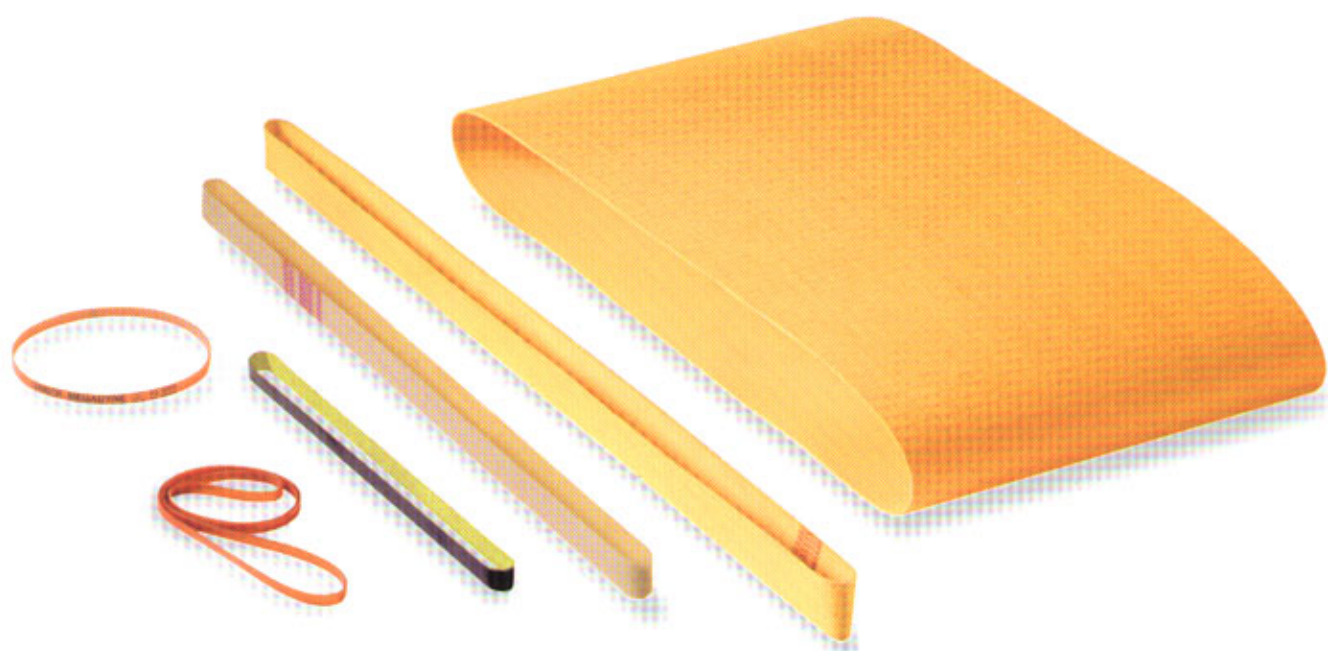
<b>TENSILE REINFORCEMENT</b>
INSTALLATION TENSION x cm WIDTH (N) ENDLESS
MIN. PULLEY DIA. mm
THICKNESS mm
STANDARD LENGHT mm
COATING MATERIAL
ANTISTATIC

<b>SIL10</b>
polyester fabric
90
12
1,0
300/2000
SILICON
NO

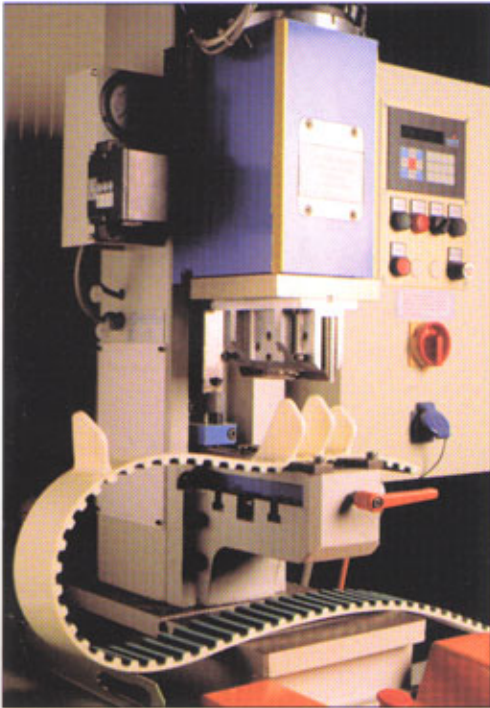


# MEGAFLAT

PU and rubber endless flat belts

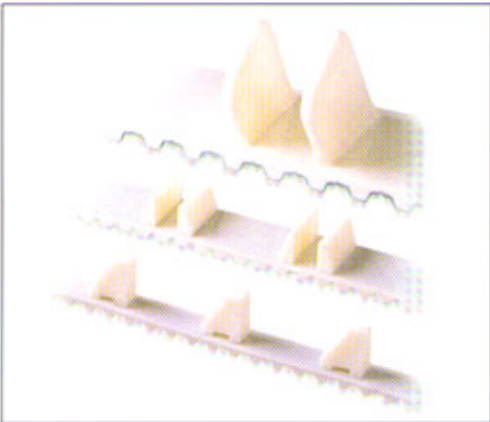
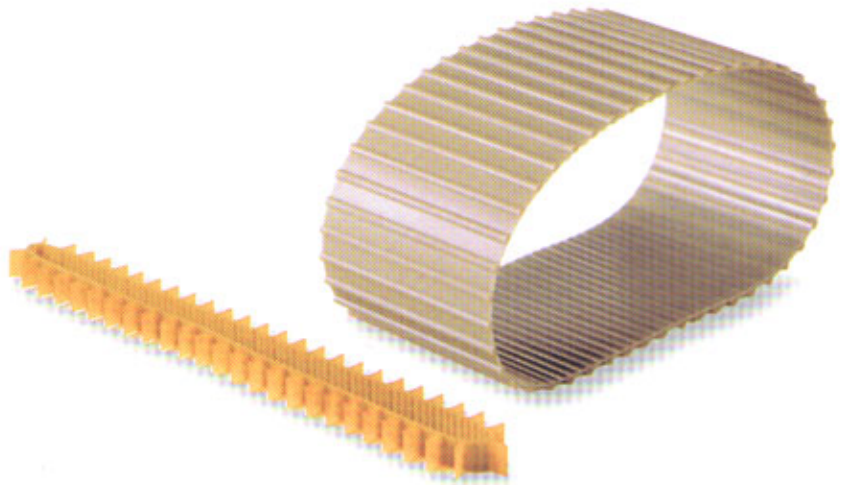




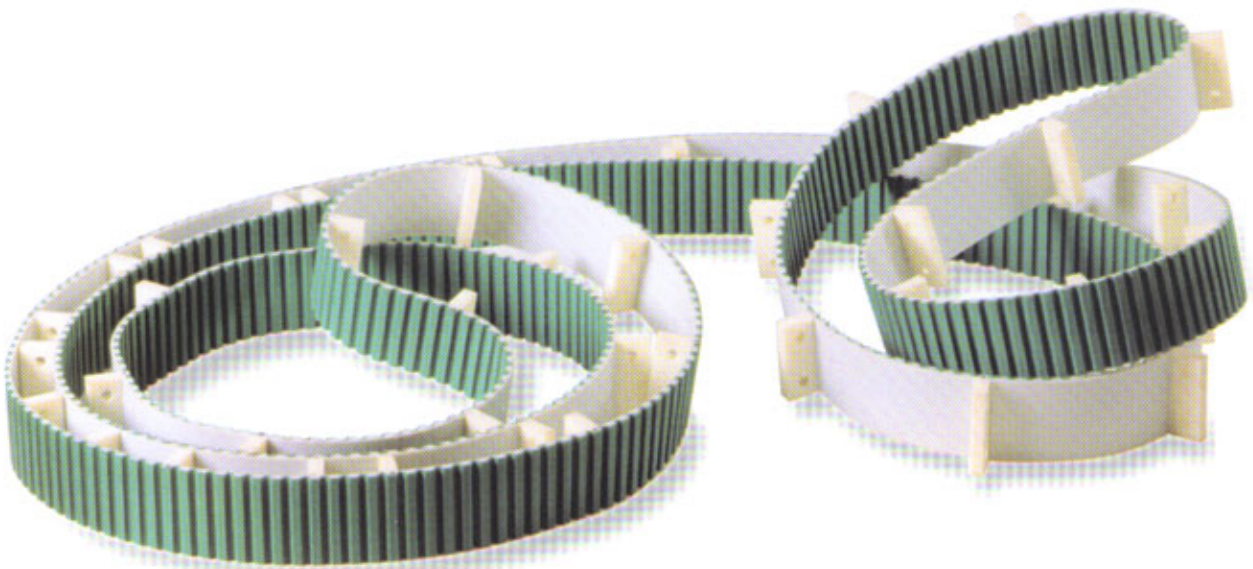


Cleat welding machine

All **SPECIAL belts** can be manufactured in a standard or coated execution, according to customer specific requirements.



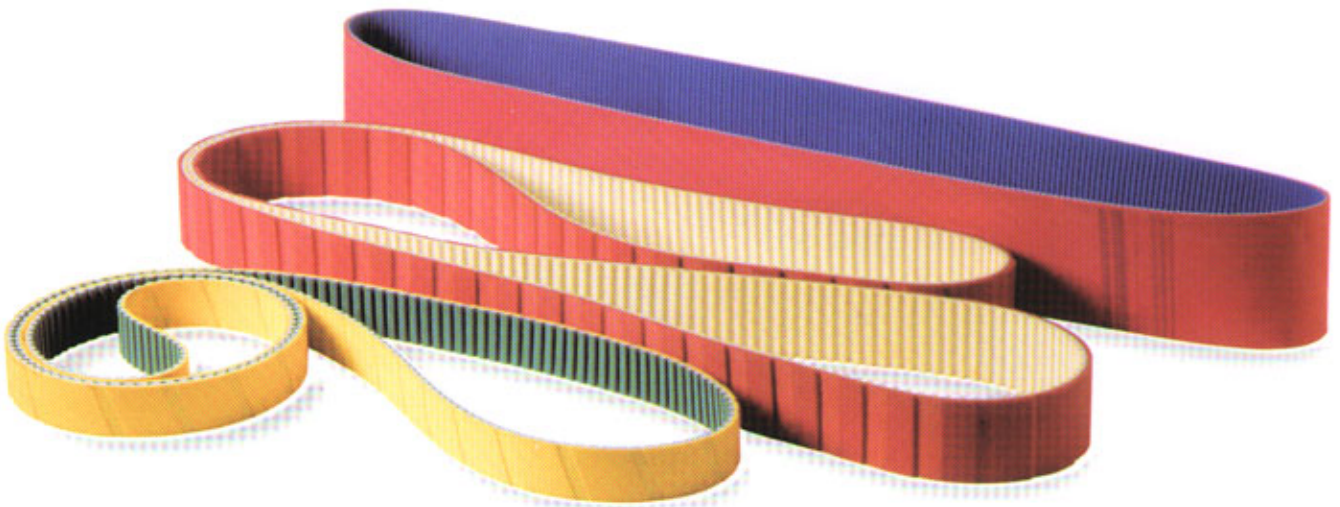
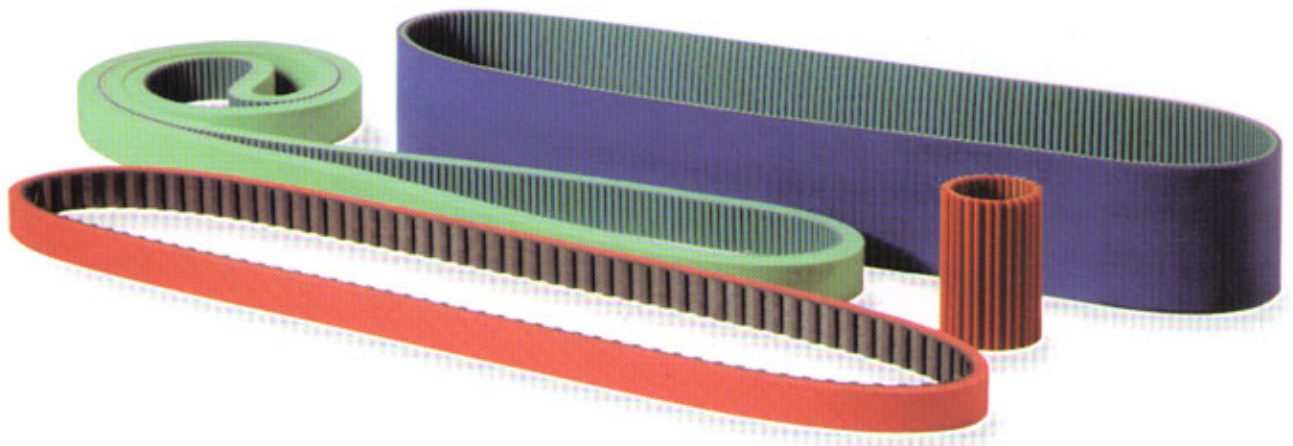
Example of belts with cleats welded on the back. Many different types of cleat are available





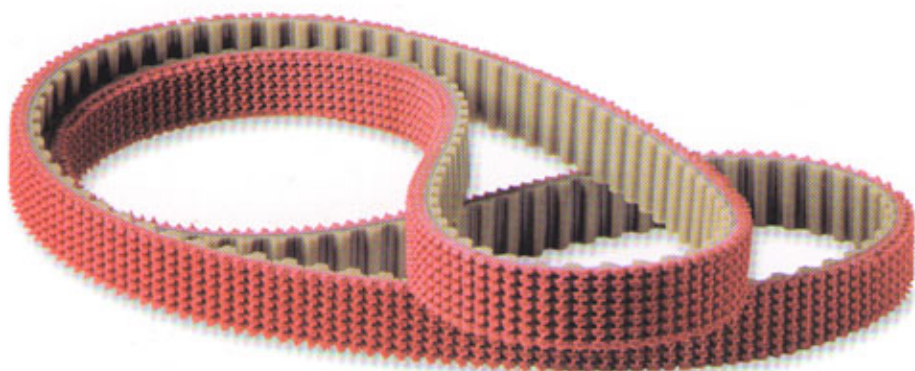
# **SPECIAL**

Any special pitches, custom made coatings and profiles





Megadyne has developed a new endless coating system. This eliminates the rigidity which often occurs in the area of the joint. High adhesion between coating and belt results in extended belt life.



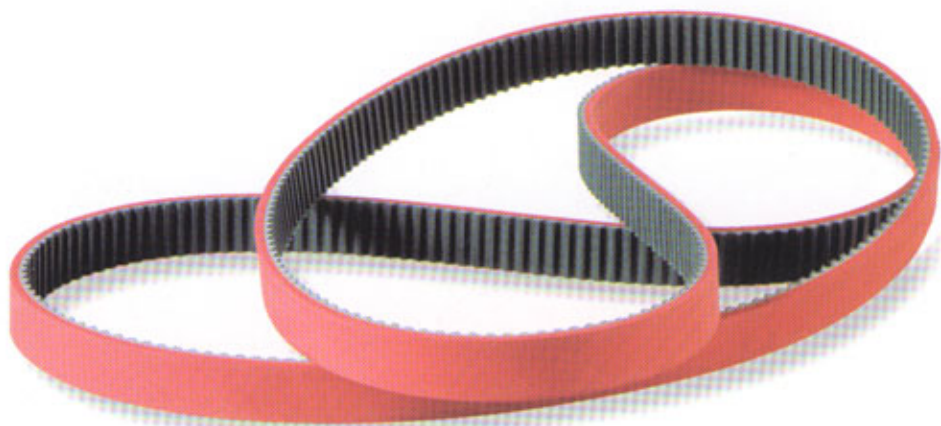
HONEY COMB



SILICON



NEOPRENE RUBBER



TENAX RUBBER

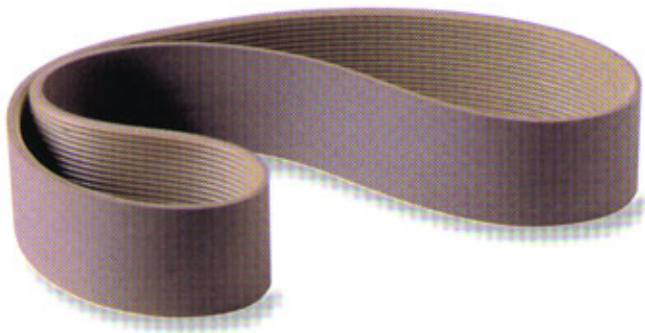


# COATED

Custom made coatings



PU YELLOW



PU GREY



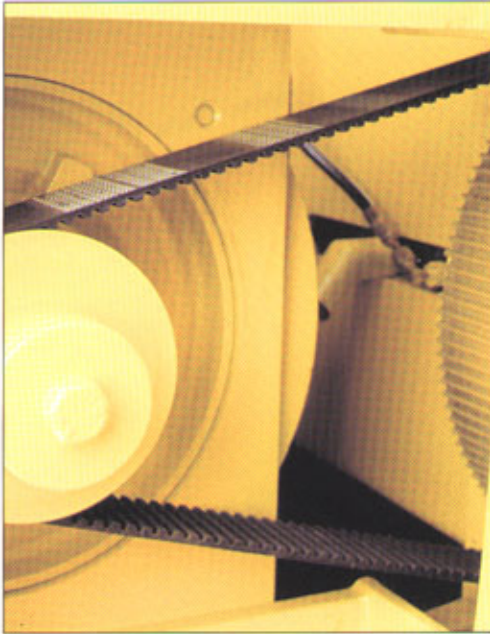
LINATEX RUBBER



POLYURETHANE





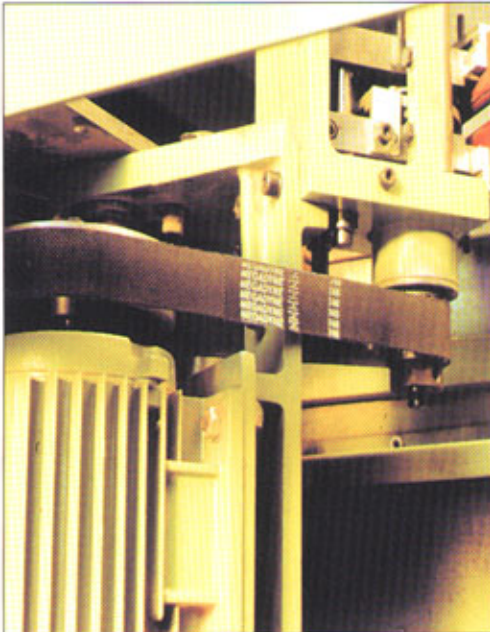


**MEGADYNE RUBBER** timing belts are available with single or double Sided teeth, in classical, HTD and RPP profiles. All three types are manufactured using the most advanced technology available.

#### **CLASSICAL**

##### **XL L H XH XXH**

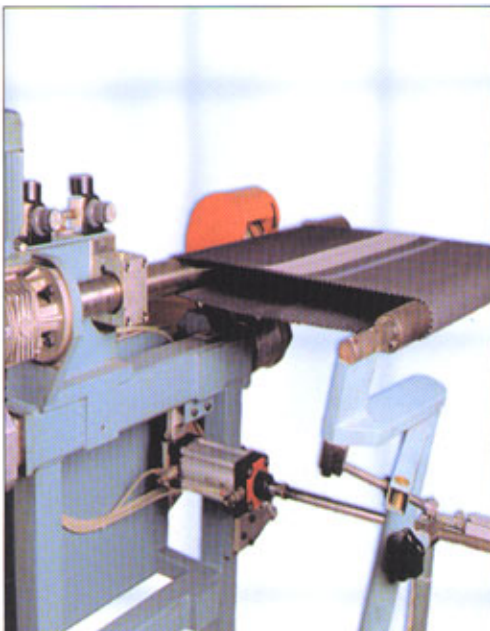
- Trapezoidal tooth profile
- Polychloroprene teeth for accurate meshing
- Fiberglass reinforcement for minimal elongation
- Nylon fabric protecting tooth surface



#### **HTD**

##### **3M 5M 8M 14M**

- Semi circular tooth profile guarantees high power transmission and accurate meshing with pulley
- Fiberglass reinforcement for minimal elongation
- Durable polychloroprene backing protects reinforcement
- Nylon fabric protecting tooth surface



#### **ISORAN RPP by DAYCO**

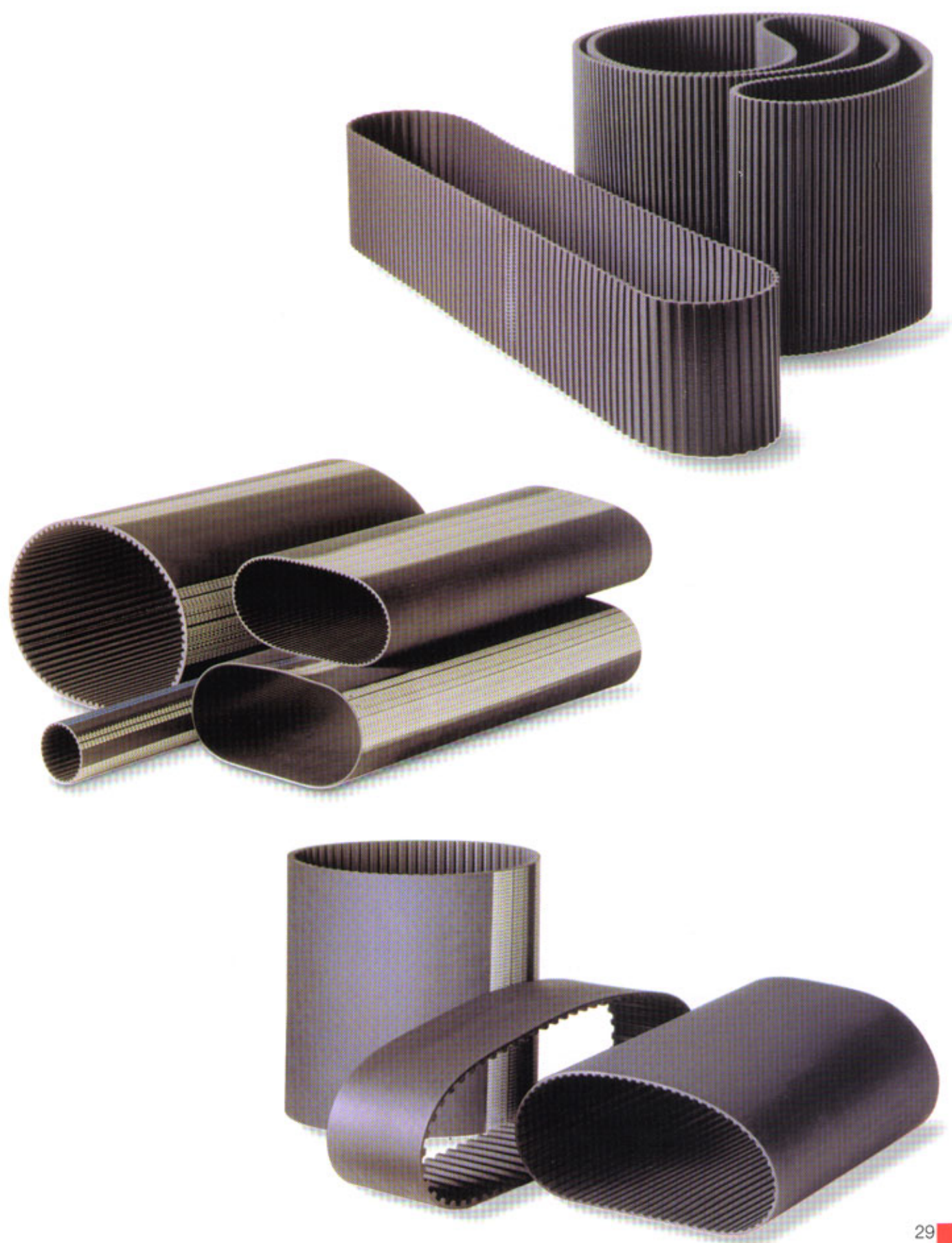
##### **RPP3 RPP5 RPP8 RPP14**

- RPP parabolic tooth profile gives graduated pressure increase over tooth height
- Fiberglass reinforcement for minimal elongation and high flexibility
- Chloroprene rubber for wear resistance and increased service life
- Nylon fabric protecting tooth surface, with Dayco patented self lubrication



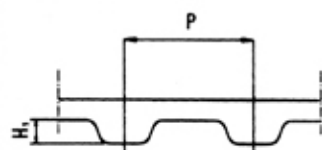
# ***RUBBER***

Classic and Parabolic profiles

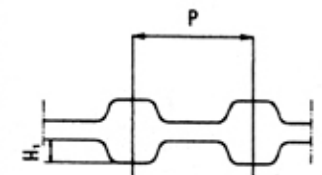




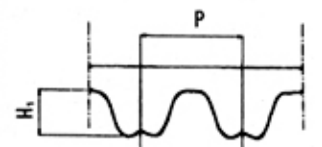
# MXL-XL-L-H-XH



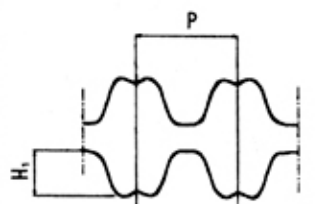
# XLDD-LDD-HDD



# RPP3-RPP5-RPP8-RPP14



# RPP5DD-RPP8DD-RPP14DD



# sleeves width (mm)

MXL	380	470	540
XL	380	470	540
L	380	470	540
H	470	540	
XH	540		
XLDD	152		
LDD	305		
HDD	305		
RPP3	380	470	
RPP5	380	470	540
RPP8	380	470	540
RPP14	470	540	
RPP5DD	150		
RPP8DD	150	250	
RPP14DD	150	250	

# MXL

code	length (mm)
0360 MXL	91,44
0432 MXL	109,73
0440 MXL	111,76
0456 MXL	115,82
0480 MXL	121,92
0488 MXL	123,95
0496 MXL	125,98
0536 MXL	136,14
0544 MXL	138,18
0576 MXL	146,30
0584 MXL	148,34
0608 MXL	154,43
0632 MXL	160,53
0640 MXL	162,56
0656 MXL	166,62
0664 MXL	168,66
0680 MXL	172,72
0704 MXL	178,82
0720 MXL	182,88
0736 MXL	186,94
0760 MXL	193,04
0776 MXL	197,10
0800 MXL	203,20
0808 MXL	205,23
0824 MXL	209,30
0840 MXL	213,36
0880 MXL	223,52
0888 MXL	225,55
0912 MXL	231,65
0920 MXL	233,68
0944 MXL	239,78
0952 MXL	241,81
0960 MXL	243,84
0976 MXL	247,90
0984 MXL	249,94
1000 MXL	254,00
1008 MXL	256,03
1016 MXL	258,06
1040 MXL	264,16
1056 MXL	268,22
1072 MXL	272,29
1120 MXL	284,48
1160 MXL	294,64
1176 MXL	298,70
1184 MXL	300,74
1200 MXL	304,80
1224 MXL	310,90
1280 MXL	325,12
1400 MXL	355,60
1472 MXL	373,89
1496 MXL	379,98
1520 MXL	386,08
1600 MXL	406,40
1680 MXL	426,72
1696 MXL	430,78
1768 MXL	449,07
1800 MXL	457,20
1832 MXL	465,33
1856 MXL	471,42
1888 MXL	479,55
1984 MXL	503,94
1992 MXL	505,97
2048 MXL	520,19
2240 MXL	568,96
2360 MXL	599,44
2384 MXL	605,54
2480 MXL	629,92
2496 MXL	633,98
2520 MXL	640,08
2584 MXL	656,34
2776 MXL	705,10
2864 MXL	727,46
2880 MXL	731,52
2976 MXL	755,90
3064 MXL	778,26
3104 MXL	788,42
3200 MXL	812,80
3296 MXL	837,18
3424 MXL	869,70
3472 MXL	881,89
3480 MXL	883,92
3520 MXL	894,08
3632 MXL	922,53
3704 MXL	940,82
3944 MXL	1001,78
4000 MXL	1016,00
4064 MXL	1032,26
4200 MXL	1066,80
4280 MXL	1087,12
4320 MXL	1097,28
4456 MXL	1131,82
4736 MXL	1202,94
4800 MXL	1219,20
5224 MXL	1326,90

P	2,032
H1	0,51

# XL

code	length (mm)
54 XL	137,16
60 XL	152,40
70 XL	177,80
80 XL	203,20
90 XL	228,60
98 XL	248,92
100 XL	254,00
102 XL	259,08
104 XL	264,16
106 XL	269,24
110 XL	279,40
120 XL	304,80
130 XL	330,20
140 XL	355,60
146 XL	370,84
150 XL	381,00
156 XL	396,24
160 XL	406,40
170 XL	431,80
180 XL	457,20
182 XL	462,28
188 XL	477,52
190 XL	482,60
198 XL	502,92
200 XL	508,00
202 XL	513,08
210 XL	533,40
212 XL	538,48
214 XL	543,56
220 XL	558,80
228 XL	579,12
230 XL	584,20
234 XL	594,36
240 XL	609,60
250 XL	635,00
260 XL	660,40
270 XL	685,80
276 XL	701,04
290 XL	736,60
300 XL	762,00
310 XL	787,40
316 XL	802,64
320 XL	812,80
330 XL	838,20
344 XL	873,76
352 XL	894,08
364 XL	924,56
380 XL	965,20
384 XL	975,36
388 XL	985,52
390 XL	990,60
392 XL	995,68
434 XL	1102,36
460 XL	1168,40
530 XL	1346,20
600 XL	1524,00
710 XL	1803,40

P	5,08
H1	1,27

# L

code	length (mm)
124 L	314,96
135 L	342,90
150 L	381,00
187 L	476,25
202 L	513,80
210 L	533,40
225 L	571,50
240 L	609,60
255 L	647,70
270 L	685,80
285 L	723,90
300 L	762,00
322 L	819,15
334 L	848,36
345 L	876,30
367 L	933,45
390 L	990,60
405 L	1028,70
412 L	1047,75
420 L	1066,80
450 L	1143,00
480 L	1219,20
510 L	1295,40
540 L	1371,60
600 L	1524,00
660 L	1676,40
728 L	1847,85
817 L	2076,45

P	9,525
H1	1,91

# XLDD

code	length (mm)
DD 120 XL	304,80
DD 130 XL	330,20
DD 140 XL	355,60
DD 146 XL	370,84
DD 150 XL	381,00
DD 156 XL	396,24
DD 160 XL	406,40
DD 170 XL	431,80
DD 176 XL	447,04
DD 180 XL	457,20
DD 182 XL	462,28
DD 188 XL	477,52
DD 190 XL	482,60
DD 198 XL	502,92
DD 200 XL	508,00
DD 202 XL	513,08
DD 210 XL	533,40
DD 212 XL	538,48
DD 214 XL	543,56
DD 220 XL	558,80
DD 228 XL	579,12
DD 230 XL	584,20
DD 234 XL	594,36
DD 240 XL	609,60
DD 250 XL	635,00
DD 260 XL	660,40
DD 270 XL	685,80
DD 276 XL	701,04
DD 290 XL	736,60
DD 310 XL	787,40
DD 316 XL	802,64
DD 320 XL	812,80
DD 330 XL	838,20
DD 344 XL	873,76
DD 352 XL	894,08
DD 364 XL	924,56
DD 380 XL	965,20
DD 384 XL	975,36
DD 388 XL	985,52
DD 390 XL	990,60
DD 392 XL	995,68
DD 434 XL	1102,36
DD 460 XL	1168,40
DD 530 XL	1346,20
DD 600 XL	1524,00
DD 710 XL	1803,40

P	5,08
H1	1,27

# H

code	length (mm)
225 H	571,5
240 H	609,6
270 H	685,8
300 H	762,0
320 H	812,8
330 H	838,2
360 H	914,4
390 H	990,6
400 H	1016,0
420 H	1066,8
450 H	1143,0
480 H	1219,2
510 H	1295,4
520 H	1320,8
540 H	1371,6
570 H	1447,8
600 H	1524,0
630 H	1600,2
660 H	1676,4
670 H	1701,8
700 H	1778,0
725 H	1841,5
750 H	1905,0
800 H	2032,0
850 H	2159,0
900 H	2286,0
1000 H	2540,0
1100 H	2794,0
1120 H	2844,8
1140 H	2895,6
1150 H	2921,0
1250 H	3175,0
1400 H	3556,0
1700 H	4318,0

P	12,7
H1	2,29

# LDD

code	length (mm)
DD 124 L	314,96
DD 135 L	342,90
DD 150 L	381,00
DD 173 L	439,42
DD 187 L	474,98
DD 202 L	513,08
DD 210 L	533,40
DD 225 L	571,50
DD 240 L	609,60
DD 255 L	647,70
DD 270 L	685,80
DD 285 L	723,90
DD 300 L	762,00
DD 322 L	817,88
DD 334 L	848,36
DD 345 L	876,30
DD 367 L	932,18
DD 390 L	990,60
DD 405 L	1028,70
DD 412 L	1046,48
DD 420 L	1066,80
DD 450 L	1143,00
DD 480 L	1219,20
DD 510 L	1295,40
DD 540 L	1371,60
DD 600 L	1524,00
DD 728 L	1849,12
DD 817 L	2075,18

P	9,525
H1	1,91

# XH

code	length (mm)
507 XH	1289,00
560 XH	1422,40
630 XH	1600,20
700 XH	1778,00
770 XH	1955,80
840 XH	2133,60
980 XH	2489,20
1120 XH	2844,80
1280 XH	3200,40
1400 XH	3566,00
1540 XH	3911,60
1750 XH	4445,00

P	22,225
H1	6,22

# HDD

code	length (mm)
DD 240 H	609,60
DD 270 H	685,80
DD 300 H	762,00
DD 330 H	838,20
DD 335 H	850,90
DD 360 H	914,40
DD 370 H	939,80
DD 390 H	990,60
DD 420 H	1066,80
DD 450 H	1143,00
DD 480 H	1219,20
DD 510 H	1295,40
DD 540 H	1371,60
DD 570 H	1447,80
DD 600 H	1524,00
DD 630 H	1600,20
DD 660 H	1676,40
DD 670 H	1701,80
DD 700 H	1778,00
DD 725 H	1841,50
DD 750 H	1905,00
DD 800 H	2032,00
DD 850 H	2159,00
DD 900 H	2286,00
DD 1000 H	2540,00
DD 1100 H	2794,00
DD 1120 H	2844,80
DD 1140 H	2895,60
DD 1150 H	2921,00
DD 1250 H	3175,00
DD 1400 H	3556,00
DD 1645 H	4178,30
DD 1700 H	4318,00

P	12,7
H1	2,29



RPP 3	
code	length (mm)
90 RPP3	90
105 RPP3	105
129 RPP3	129
141 RPP3	141
144 RPP3	144
147 RPP3	147
150 RPP3	150
159 RPP3	159
168 RPP3	168
174 RPP3	174
177 RPP3	177
180 RPP3	180
186 RPP3	186
195 RPP3	195
201 RPP3	201
204 RPP3	204
210 RPP3	210
213 RPP3	213
225 RPP3	225
231 RPP3	231
240 RPP3	240
243 RPP3	243
246 RPP3	246
249 RPP3	249
252 RPP3	252
255 RPP3	255
261 RPP3	261
264 RPP3	264
267 RPP3	267
270 RPP3	270
276 RPP3	276
285 RPP3	285
288 RPP3	288
291 RPP3	291
297 RPP3	297
300 RPP3	300
312 RPP3	312
318 RPP3	318
327 RPP3	327
330 RPP3	330
333 RPP3	333
336 RPP3	336
339 RPP3	339
345 RPP3	345
357 RPP3	357
363 RPP3	363
375 RPP3	375
384 RPP3	384
390 RPP3	390
393 RPP3	393
405 RPP3	405
420 RPP3	420
432 RPP3	432
447 RPP3	447
474 RPP3	474
480 RPP3	480
486 RPP3	486
489 RPP3	489
501 RPP3	501
510 RPP3	510
513 RPP3	513
522 RPP3	522
531 RPP3	531
537 RPP3	537
564 RPP3	564
570 RPP3	570
576 RPP3	576
579 RPP3	579
597 RPP3	597
600 RPP3	600
633 RPP3	633
648 RPP3	648

RPP 3	
code	length (mm)
669 RPP3	669
711 RPP3	711
735 RPP3	735
738 RPP3	738
756 RPP3	756
804 RPP3	804
882 RPP3	882
945 RPP3	945
1062 RPP3	1062
1125 RPP3	1125
1245 RPP3	1245
1263 RPP3	1263
1500 RPP3	1500
1530 RPP3	1530
1863 RPP3	1863

P	3
H <sub>1</sub>	1,15

RPP 5	
code	length (mm)
180 RPP5	180
225 RPP5	225
235 RPP5	235
245 RPP5	245
255 RPP5	255
265 RPP5	265
270 RPP5	270
280 RPP5	280
285 RPP5	285
295 RPP5	295
300 RPP5	300
305 RPP5	305
325 RPP5	325
345 RPP5	345
350 RPP5	350
375 RPP5	375
400 RPP5	400
425 RPP5	425
450 RPP5	450
455 RPP5	455
460 RPP5	460
465 RPP5	465
475 RPP5	475
500 RPP5	500
525 RPP5	525
535 RPP5	535
565 RPP5	565
575 RPP5	575
580 RPP5	580
600 RPP5	600
610 RPP5	610
615 RPP5	615
635 RPP5	635
640 RPP5	640
670 RPP5	670
675 RPP5	675
700 RPP5	700
705 RPP5	705
710 RPP5	710
725 RPP5	725
740 RPP5	740
750 RPP5	750
755 RPP5	755
800 RPP5	800
835 RPP5	835
850 RPP5	850
890 RPP5	890
900 RPP5	900
935 RPP5	935
940 RPP5	940

RPP 5	
code	length (mm)
950 RPP5	950
980 RPP5	980
1000 RPP5	1000
1025 RPP5	1025
1050 RPP5	1050
1100 RPP5	1100
1125 RPP5	1125
1135 RPP5	1135
1195 RPP5	1195
1200 RPP5	1200
1240 RPP5	1240
1270 RPP5	1270
1420 RPP5	1420
1595 RPP5	1595
1690 RPP5	1690
1790 RPP5	1790
1800 RPP5	1800
1870 RPP5	1870
1895 RPP5	1895
1945 RPP5	1945
2000 RPP5	2000
2250 RPP5	2250
2525 RPP5	2525

P	5
H <sub>1</sub>	2,00

RPP 8	
code	length (mm)
288 RPP8	288
320 RPP8	320
352 RPP8	352
360 RPP8	360
384 RPP8	384
408 RPP8	408
456 RPP8	456
480 RPP8	480
536 RPP8	536
544 RPP8	544
560 RPP8	560
600 RPP8	600
608 RPP8	608
632 RPP8	632
640 RPP8	640
680 RPP8	680
720 RPP8	720
800 RPP8	800
840 RPP8	840
880 RPP8	880
896 RPP8	896
920 RPP8	920
960 RPP8	960
1000 RPP8	1000
1040 RPP8	1040
1080 RPP8	1080
1120 RPP8	1120
1200 RPP8	1200
1224 RPP8	1224
1280 RPP8	1280
1352 RPP8	1352
1440 RPP8	1440
1464 RPP8	1464
1600 RPP8	1600
1760 RPP8	1760
1800 RPP8	1800
2000 RPP8	2000
2200 RPP8	2200
2400 RPP8	2400

RPP 8	
code	length (mm)
2520 RPP8	2520
2600 RPP8	2600
2800 RPP8	2800
3048 RPP8	3048
3280 RPP8	3280
3600 RPP8	3600
4400 RPP8	4400

P	8
H <sub>1</sub>	3,2

RPP 14	
code	length (mm)
966 RPP14	966
994 RPP14	994
1092 RPP14	1092
1106 RPP14	1106
1190 RPP14	1190
1260 RPP14	1260
1288 RPP14	1288
1334 RPP14	1334
1400 RPP14	1400
1442 RPP14	1442
1568 RPP14	1568
1610 RPP14	1610
1764 RPP14	1764
1778 RPP14	1778
1848 RPP14	1848
1890 RPP14	1890
1904 RPP14	1904
1960 RPP14	1960
2100 RPP14	2100
2240 RPP14	2240
2310 RPP14	2310
2380 RPP14	2380
2450 RPP14	2450
2590 RPP14	2590
2660 RPP14	2660
2800 RPP14	2800
3150 RPP14	3150
3360 RPP14	3360
3500 RPP14	3500
3850 RPP14	3850
3920 RPP14	3920
4326 RPP14	4326
4578 RPP14	4578
4956 RPP14	4956

P	14
H <sub>1</sub>	6,00

RPP 5 DD	
code	length (mm)
600 RPP5 DD	600
610 RPP5 DD	610
615 RPP5 DD	615
635 RPP5 DD	635
640 RPP5 DD	640
670 RPP5 DD	670
675 RPP5 DD	675
700 RPP5 DD	700
705 RPP5 DD	705
710 RPP5 DD	710
725 RPP5 DD	725
740 RPP5 DD	740
750 RPP5 DD	750
755 RPP5 DD	755
800 RPP5 DD	800
835 RPP5 DD	835
850 RPP5 DD	850
890 RPP5 DD	890
900 RPP5 DD	900
935 RPP5 DD	935
940 RPP5 DD	940
950 RPP5 DD	950
980 RPP5 DD	980
1000 RPP5 DD	1000
1025 RPP5 DD	1025
1050 RPP5 DD	1050
1100 RPP5 DD	1100
1125 RPP5 DD	1125
1135 RPP5 DD	1135
1195 RPP5 DD	1195
1200 RPP5 DD	1200
1240 RPP5 DD	1240
1270 RPP5 DD	1270
1420 RPP5 DD	1420
1595 RPP5 DD	1595
1690 RPP5 DD	1690
1790 RPP5 DD	1790
1800 RPP5 DD	1800
1870 RPP5 DD	1870
1895 RPP5 DD	1895
1945 RPP5 DD	1945
2000 RPP5 DD	2000
2250 RPP5 DD	2250
2525 RPP5 DD	2525

P	5
H <sub>1</sub>	2,00

RPP 8 DD	
code	length (mm)
600 RPP8 DD	600
608 RPP8 DD	608
632 RPP8 DD	632
640 RPP8 DD	640
680 RPP8 DD	680
720 RPP8 DD	720
800 RPP8 DD	800
840 RPP8 DD	840
880 RPP8 DD	880
896 RPP8 DD	896
920 RPP8 DD	920
960 RPP8 DD	960
1000 RPP8 DD	1000
1040 RPP8 DD	1040
1080 RPP8 DD	1080
1120 RPP8 DD	1120
1200 RPP8 DD	1200
1224 RPP8 DD	1224
1280 RPP8 DD	1280
1352 RPP8 DD	1352
1440 RPP8 DD	1440
1464 RPP8 DD	1464
1600 RPP8 DD	1600
1760 RPP8 DD	1760

RPP 8 DD	
code	length (mm)
1800 RPP8 DD	1800
2000 RPP8 DD	2000
2200 RPP8 DD	2200
2400 RPP8 DD	2400
2520 RPP8 DD	2520
2600 RPP8 DD	2600
2800 RPP8 DD	2800
3048 RPP8 DD	3048
3280 RPP8 DD	3280
3600 RPP8 DD	3600
4400 RPP8 DD	4400

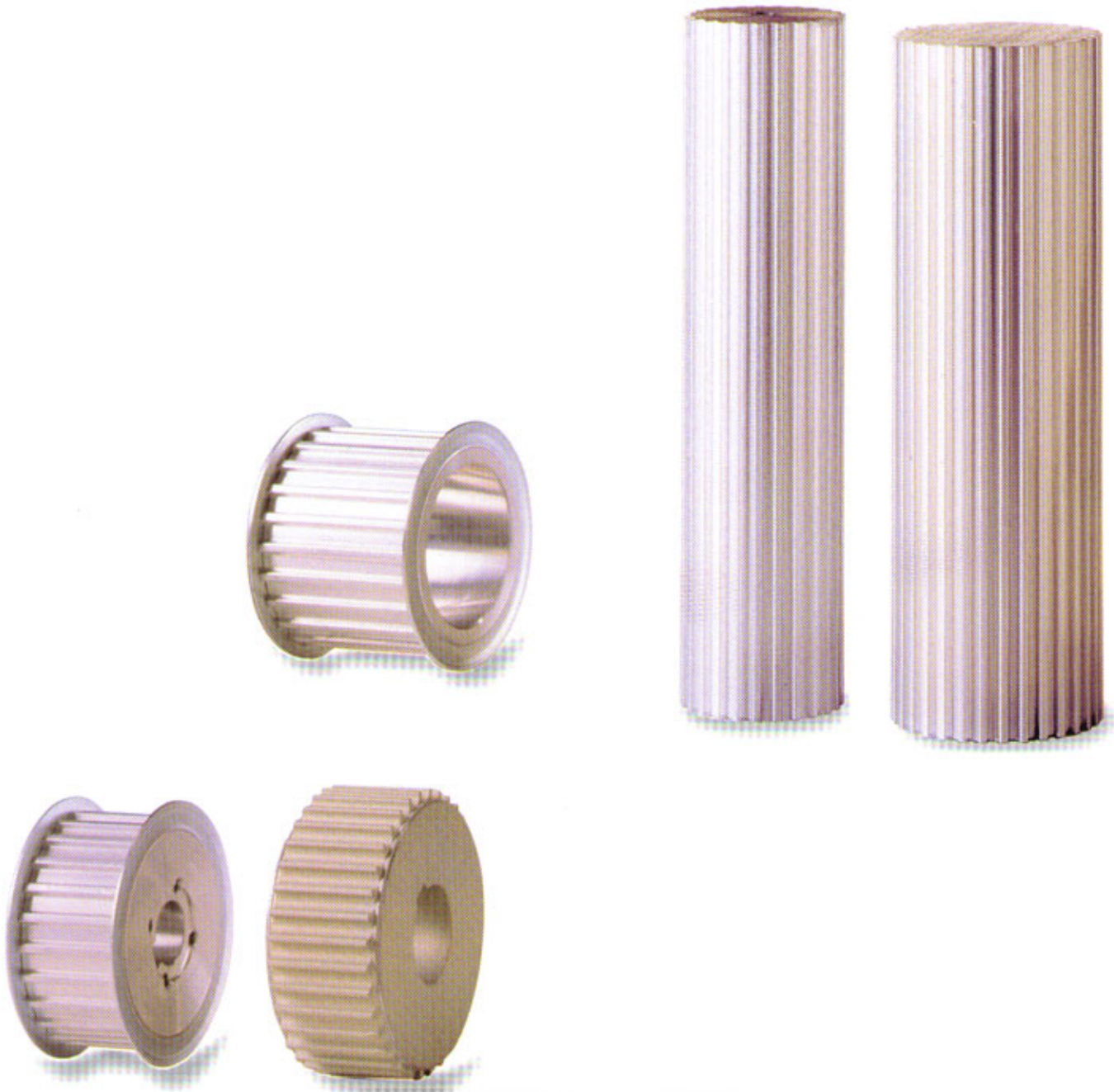
P	8
H <sub>1</sub>	3,2

RPP 14 DD	
code	length (mm)
966 RPP14 DD	966
994 RPP14 DD	994
1092 RPP14 DD	1092
1106 RPP14 DD	1106
1190 RPP14 DD	1190
1260 RPP14 DD	1260
1288 RPP14 DD	1288
1334 RPP14 DD	1334
1400 RPP14 DD	1400
1442 RPP14 DD	1442
1568 RPP14 DD	1568
1610 RPP14 DD	1610
1764 RPP14 DD	1764
1778 RPP14 DD	1778
1848 RPP14 DD	1848
1890 RPP14 DD	1890
1904 RPP14 DD	1904
1960 RPP14 DD	1960
2100 RPP14 DD	2100
2240 RPP14 DD	2240
2310 RPP14 DD	2310
2380 RPP14 DD	2380
2450 RPP14 DD	2450
2590 RPP14 DD	2590
2660 RPP14 DD	2660
2800 RPP14 DD	2800
3150 RPP14 DD	3150
3360 RPP14 DD	3360
3500 RPP14 DD	3500
3850 RPP14 DD	3850
3920 RPP14 DD	3920
4326 RPP14 DD	4326
4578 RPP14 DD	4578
4956 RPP14 DD	4956

P	14
H <sub>1</sub>	6,00



Megadyne can supply complete drives. We can provide, either standard pulleys, made in according to ISO spec or customer specific requirements.

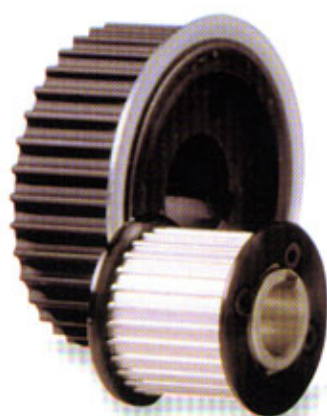
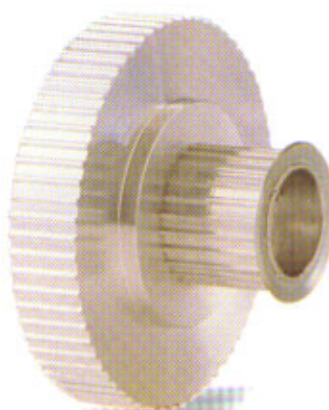
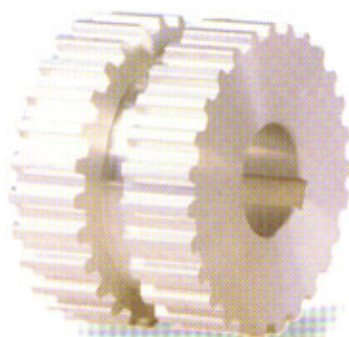
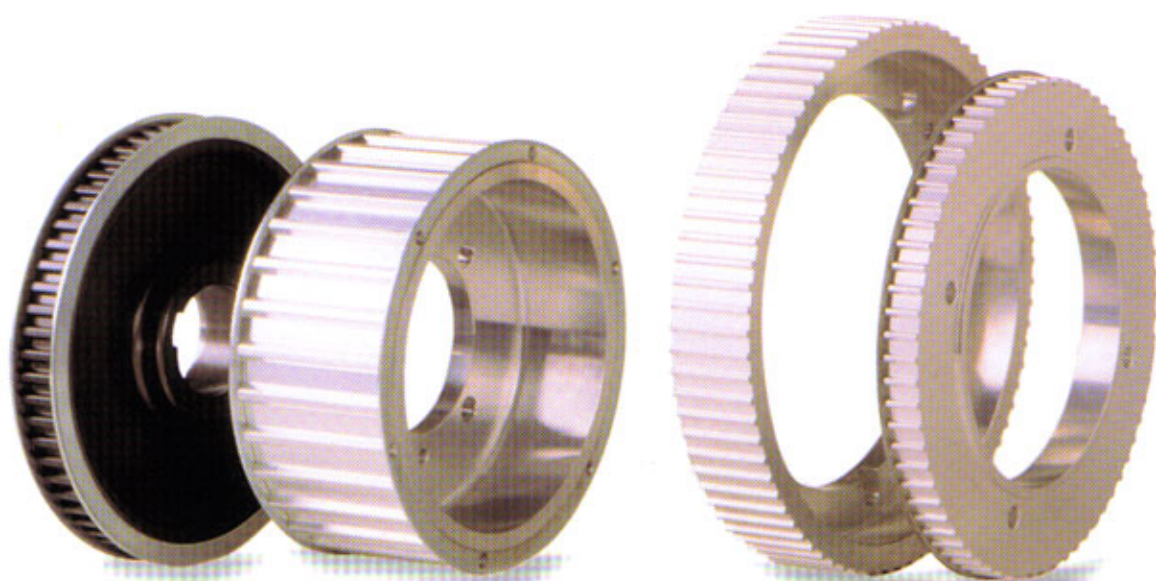


inches pitch	HTD	metric pitch	RPP
TIMING PULLEY	TIMING PULLEY	TIMING PULLEY	TIMING PULLEY
MXL	3 M	T2, 5	RPP5
XL	5 M	T5	RPP8
L	8 M	T10	RPP14
H	14 M	T20	
XH		AT5	
XXH		AT10	
HG		AT20	
		TG5	
		TG10	
		TG20	
		ATG10	



# PULLEYS

Custom made and standard available in any pitch and material





# BELT TENSIONING DEVICE

## RSM2000

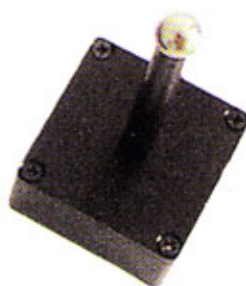


A major difficulty installing transmission belts is to achieve a correct belt tension. Lifetime of support bearings and transmission belts and therefore reliability of the complete system largely depend on an optimally adjusted belt tension. In case of linear actuators, only a correctly adjusted belt tension provides the best possible positional accuracy.

The belt tension measuring device RSM2000 allows to measure the actual belt tension. The RSM2000 is applicable with all industrially used types of transmission belts, such as: flat belts, V belts, toothed belts, poly-V belts etc.

The microcontroller based RSM2000 measures through a highly sensitive sensor vibrations and calculates by numerical filtering the eigenfrequency of tensioned belts. In addition - given the specific mass of a belt and its free vibrating length - the RSM2000 provides directly the corresponding belt tension in Newton.

The RSM2000 comes with several comfort features, such as language switch, user programmable standard values for specific mass and belt length and an in sensor body integrated trigger button. Optionally a RS232 interface for data output of last 50 measurements is available.



### Technical Data:

Housing Material	ABS
Housing Dimensions	157 mm x 85 mm x 30 mm (LxWxH)
Mass	approx. 240 g
Display	LCD, 8 characters, character size 7 mm
Powersupply	9 V battery [recommended capacity 550 mAh]
Measuring Range	free belt length: 1 ... 9999 mm specific mass: 1 ... 999 g/m eigen-frequency: 15 ... 400 Hz belt tension: 1 ... 9999 N
Resolution	0,1 Hz / 1 N
Sensor	applicable with all belt types/belt materials
Sensor Dimensions	32 mm x 32 mm x 16 mm (LxWxH); not including holder bar switch
Measuring Error	$E_f < 3\%$ relative to actual value
Temperature Range-operational	+ 10 ... +50° C
Temperature Range-storage only	-5 ... +70° C
Protection Class	IP54