



MEGASYNC™

TECHNICAL HANDBOOK

EN

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INTRODUCTION

TO MEGADYNE MEGASYNC™ BELTS

In order to improve and make the designers' job easier, Megadyne has decided to simplify and reorganize most of the rubber endless timing belts in just one calculation handbook.

INTRODUCING THE COMPLETE MEGADYNE MEGASYNC™ FAMILY OF BELTS.

In the following pages you will find all the needed information regarding technical calculation, sizes and data about Megadyne MEGASYNC™ Imperial, STD and HTB, Silver, Gold and Titanium.

Our wide range of products with different power ratings and several structures allows Megadyne to always find the best solution for a very wide spectrum of applications.

Thanks to their features, Megadyne's rubber endless timing belts can be used in a very wide range of applications like power transmission (or conveyor) such as:

- Appliances
- HVAC
- Pellet extruder machines
- Wood cutting machines
- Dobby loom machines
- Food mixers
- Cooling systems
- Radio controlled cars
- Power wheelchair
- Flexible packaging machines
- Carton industry
- Marble industry
- Heavy industry, in general.

NEW MEGADYNE MEGASYNC™ LABELS



PERFORMANCE COMPARISON



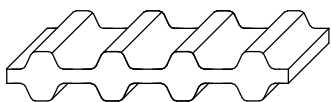


INTRODUCTION

STANDARD RANGE



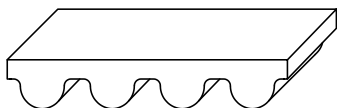
MXL • XL • L • H • XH • XXH



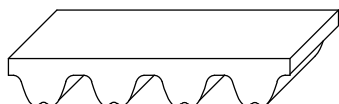
XL DD • L DD • H DD



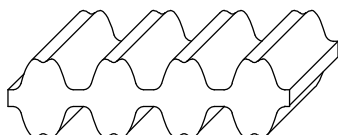
STD 8M



HTB 3M • HTB 5M • HTB 8M • HTB 14M

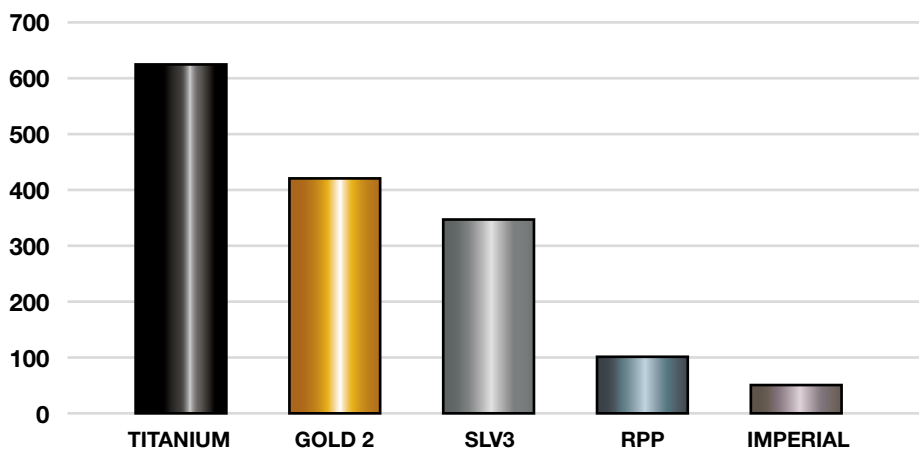


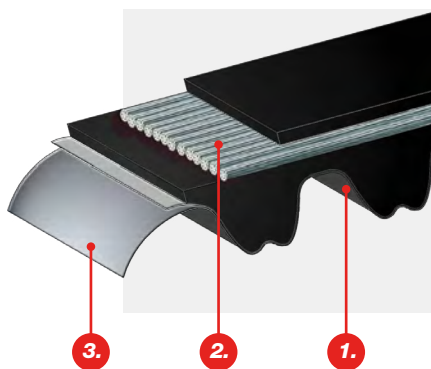
RPP3 • RPP5 • RPP8 • RPP14 • SLV3 5M • SLV3 8M
SLV3 14M • GLD2 5M • GLD2 8M • GLD2 14M • TTM8 • TTM14



RPP5 DD • RPP8 DD • RPP14 DD
(SLV3 8M DD • SLV3 14M DD • GLD2 8M DD • GLD2 14M DD on demand)

PERFORMANCE COMPARISON INDEX





CLASSIFICATIONS

CLASSIFICATIONS

MEGASYNC™ is the new family name for our rubber synchronous belt products.

With the right selection of belt, Megadyne synchronous belts can replace gears, chain and other styles of belt delivering high performance, lubrication-free operating, quiet and long-lasting drive performance.

These belts allow:

- synchronous transmission
- high and constant angular speeds
- high efficiency
- resistance to peak loads
- low-noise transmission
- no lubrication
- low maintenance
- linear speed up to 30 m/s

1. The **body** is made of high-quality rubber compound having:

- high-fatigue resistance
- high resistance to heat and environmental agents
- good resistance to mineral oils
- long-lasting wear and abrasion resistance

Hardness changes according to the kind of belt:

- 74 ShA for MEGASYNC™ Imperial (and Imperial DD), RPP (and RPP DD), STD, HTB
- 90 ShA for MEGASYNC™ Silver3 and Gold2
- 92 ShA for MEGASYNC™ Titanium

MEGASYNC™ Silver3 and Gold2 belts have higher quality and special compound to achieve higher performances.

MEGASYNC™ Titanium is made of HNBR compound which increases the teeth rigidity, shear resistance and decreases the flex fatigue effect.

2. **Tensile member** is made of high modulus cords, S and Z twisted, which grant:

- high breaking strength
- very good resistance to stresses
- no elongation over time
- very good adhesion with the belt body compound

MEGASYNC™ Imperial, RPP, STD, HTB, and Silver3 have fiberglass cord.

MEGASYNC™ Gold2 belts have special high power K-glass cords.

Titanium tensile member is made with carbon cord technology.

3. Nylon fabric on the **teeth** is treated to improve lubrication during operation; this allows:

- extreme abrasion resistance
- low-friction coefficient
- high transmission efficiency
- long belt and pulley operational lifetime



CLASSIFICATIONS

COATING

Megadyne MEGASYNC™ can be manufactured with special coating on the back side. Please check with our Application Department for more details.

BELT SPECIFICATION

BELT PITCH:

the distance P in millimeters between two adjacent tooth Centres as measured along the pitch line of the belt.

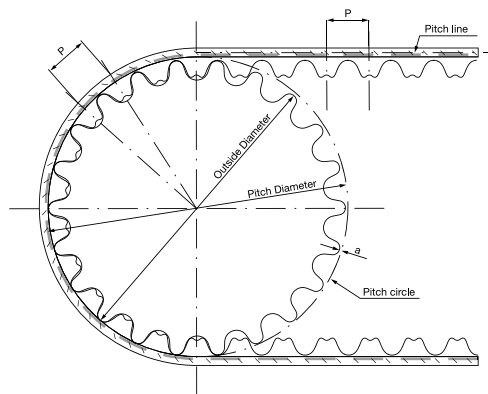
BELT PITCH LENGTH:

the total length (circumference) of the belt in millimeters as measured along the pitch line (the theoretical pitch line lies within the tensile member).

The pitch length is a value used to identify the length of a synchronous belt.

BELT WIDTH:

the width of the belt measured in millimeters.



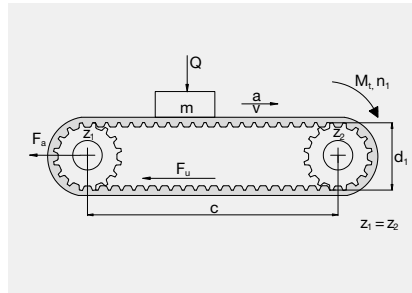
The belt is consequently identified and coded as follow:

1400	TTM	14M	55	
				the belt width in millimeters
				the belt pitch in millimeters
				the belt family type and construction
				the belt pitch length in millimeters

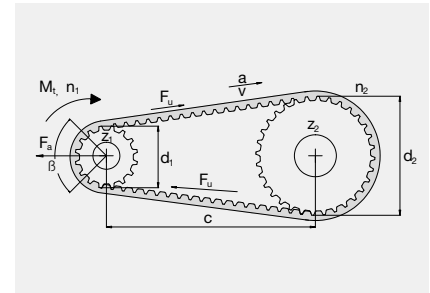
TECHNICAL CALCULATION

DRIVE CALCULATION PROCEDURE

CONVEYOR BELTS



POWER TRANSMISSION



SYMBOL	UNIT	DEFINITION
b	mm	belt width
L	mm	belt length
L_c	mm	actual selected length
c	mm	centre distance
c_i	teeth	centre distance measured in teeth
d₁	mm	diameter of DriveR pulley
d₂	mm	diameter of DriveN pulley
d_s	mm	diameter of Smaller pulley
d_l	mm	diameter of Larger pulley
z₁	teeth	teeth of DriveR pulley
z₂	teeth	teeth of DriveN pulley
z_s	teeth	teeth of Smaller pulley
z_l	teeth	teeth of Larger pulley
z_b	teeth	number of belt teeth
z_m	teeth	number of teeth in mesh
n₁	rpm	revolution/min [RPM] of the DriveR pulley
n₂	rpm	revolution/min [RPM] of the DriveN pulley
n_s	rpm	revolution/min [RPM] of the Smaller pulley
n_l	rpm	revolution/min [RPM] of the Larger pulley
m	kg	total conveyed mass
a	m/s ²	acceleration
v	m/s	belt linear speed
g	m/s ²	gravity (9,81)
F_s	/	service factor
μ	/	coefficient of friction between belt and guide
T_s	N	pretension
i	/	speed ratio
m_l	kg/m	belt mass per unit length
f	mm	deflection distance
fr	Hz	belt natural frequency measured with instrument
P	kW	motor power
P_a	kW	absorbed power
P_b	kW	basic belt performance
P_{ba}	kW	actual power rating
P_c	kW	design power
MTL	N	max traction load
BS	N	breaking strength
F_u	N	peripheral force
F_{pspec}	N/cm	transmittable force per tooth per unit
Q	N	force exerted by mass (m)
M_t	Nm	drive torque
F_a	N	static axial tension



TECHNICAL CALCULATION

STEP 1 - CALCULATION OF TRANSMITTED POWER

From Table 2 on page 7 select the appropriate service factor F_s according to:

- the type of the driven machine
- the engine class, depending on the ratio between the peak load over the rated load
- the service conditions (duty cycle category)

If you are designing a drive with a speed up ratio ($i = n_1 / n_2 < 1$) you need to consider the correction factor C_m as reported in the following Table 1:

TABLE 1 - C_m FACTOR	
SPEED RATIO ($i = N1 / N2$)	C_m
$\geq 0,8$	0
$0,79 \div 0,58$	+0,1
$0,57 \div 0,40$	+0,2
$0,39 \div 0,28$	+0,3
$\leq 0,28$	+0,4

The corrected service factor C_c will be:

$$C_c = F_s + C_m \quad [1]$$

The design power P_c is obtained by multiplying the input power with the corrected service factor:

$$P_c = P \cdot C_c \quad [2]$$



TECHNICAL CALCULATION

TABLE 2 - SERVICE FACTOR F_s

DRIVER MACHINE		
CLASS A	CLASS B	CLASS C
Overload peak up to 149% of the rated load	Overload peak from 150% up to 249% of the rated load	Overload peak from 250% up to 400% of the rated load
- AC Motor: asynchronous Star-Delta starting - DC Motor: shunt wound - Internal combustion engines: 8 cyl. and up	- AC Motor: asynchronous direct switch starting - Synchronous: normal torque - DC Motor: compound wound - Internal combustion engines: 6 cyl.	- AC Motor: single phase; all asynchronous: double cage motors - Synchronous: high torque - DC Motor: series wound - Internal combustion engines: 4 cyl. - Hydraulic motors, line shafts

NOTE: these service factors are adequate for most belt drive applications. Service factors can be substituted only where the input data and the working conditions are exactly known. In this case service factors may be adjusted based upon an understanding of the severity of actual drive operating conditions.

TECHNICAL CALCULATION

	DUTY CYCLE CATEGORY								
	INTER-MITTENT SERVICE	NORMAL SERVICE	CONTINUOUS SERVICE	INTER-MITTENT SERVICE	NORMAL SERVICE	CONTINUOUS SERVICE	INTER-MITTENT SERVICE	NORMAL SERVICE	CONTINUOUS SERVICE
DRIVEN MACHINE	< 8 HOURS DAILY	8 TO 16 HOURS DAILY	> 16 HOURS DAILY	< 8 HOURS DAILY	8 TO 16 HOURS DAILY	> 16 HOURS DAILY	< 8 HOURS DAILY	8 TO 16 HOURS DAILY	> 16 HOURS DAILY
Category 1: LOW UNIFORM LOAD/TORQUE Office equipment. Measuring equipment. Instrumentation. Display equipment. Laundry machinery (general). Line shaft. Agitators and mixers for liquids. Bakery machines. Conveyors: belt, light package, oven belt (ore, coal, sand).	1,3	1,4	1,5	1,5	1,6	1,7	1,7	1,8	1,9
Category 2: MEDIUM UNIFORM LOAD/TORQUE Light woodworking equipment: lathes, band saws. Agitators, mixers for semi-liquid. Screens: drum, conical. Machine tools: lathes, drill presses, screw machines.	1,4	1,5	1,6	1,6	1,7	1,8	1,8	1,9	2,0

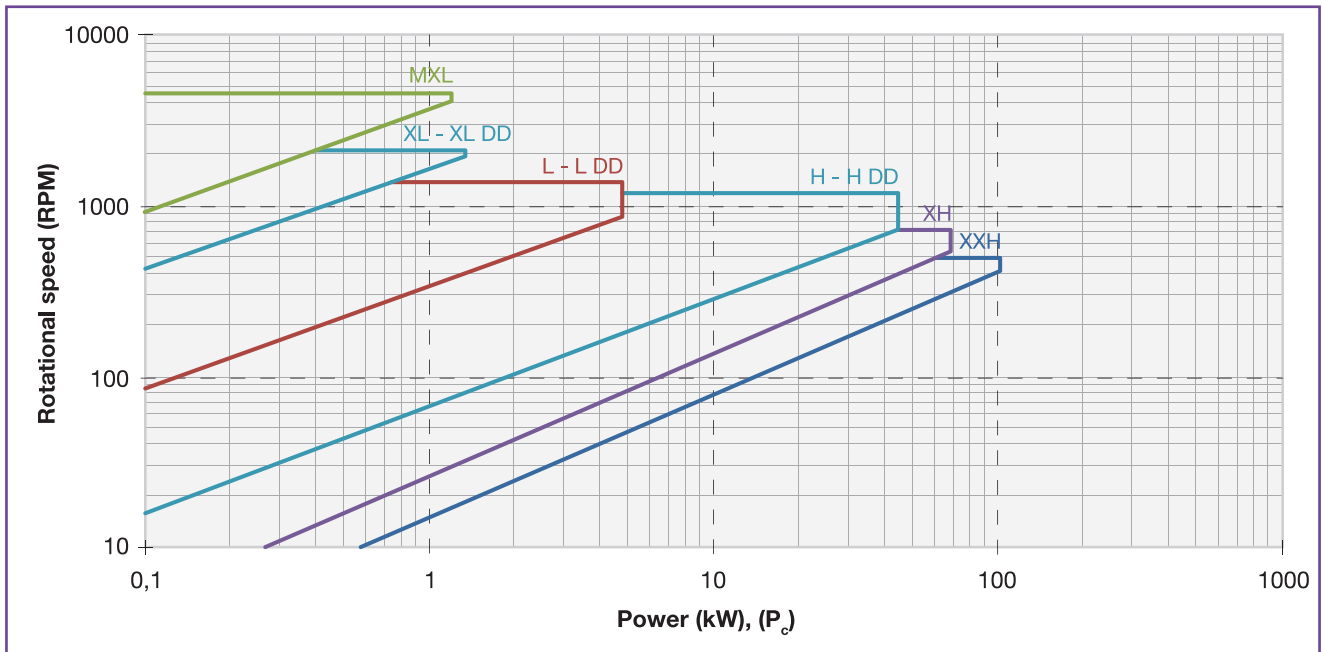
	DUTY CYCLE CATEGORY								
	INTER-MITTENT SERVICE	NORMAL SERVICE	CONTINUOUS SERVICE	INTER-MITTENT SERVICE	NORMAL SERVICE	CONTINUOUS SERVICE	INTER-MITTENT SERVICE	NORMAL SERVICE	CONTINUOUS SERVICE
DRIVEN MACHINE	< 8 HOURS DAILY	8 TO 16 HOURS DAILY	> 16 HOURS DAILY	< 8 HOURS DAILY	8 TO 16 HOURS DAILY	> 16 HOURS DAILY	< 8 HOURS DAILY	8 TO 16 HOURS DAILY	> 16 HOURS DAILY
Category 3: NOT UNIFORM LOAD/TORQUE Textile machinery: spinning frames, twistors warpers, warping machines. Heavy woodworking equipment: jointer, circular saws, planes. Laundry machinery: extractors, washers. Machinery for rubber processing. Machine tools: grinders, milling machines, shapers. Conveyors: apron, bucket, elevators, screw. Centrifugal compressors: hoist, elevators, generators and exciters. Printing machinery. Fans, blowers: centrifugal, induced, draft exhausters, propeller, mine fans.	1,5	1,6	1,7	1,7	1,8	1,9	1,9	2,0	2,1
Category 4: SHOCK LOAD/TORQUE Textile machinery: dobbies, looms. Hammer mills. Paper machinery. Positive fan blowers. Reciprocating compressors. Machinery for pottery and earthenware. Centrifuges.	1,7	1,8	1,9	1,9	2,0	2,1	2,1	2,2	2,3
Category 5: HIGH UNIFORM LOAD/TORQUE Crushers: roll, ball, jaw. Mills: ball, rod, pebble, etc. Reciprocating pumps. Saw mill equipment.	1,9	2,0	2,1	2,1	2,2	2,3	2,3	2,4	2,5
With reverse bending (eg. external idler)	+0,1								

NOTE: these service factors are adequate for most belt drive applications. Service factors can be substituted only where the input data and the working conditions are exactly known. In this case service factors may be adjusted based upon an understanding of the severity of actual drive operating conditions.

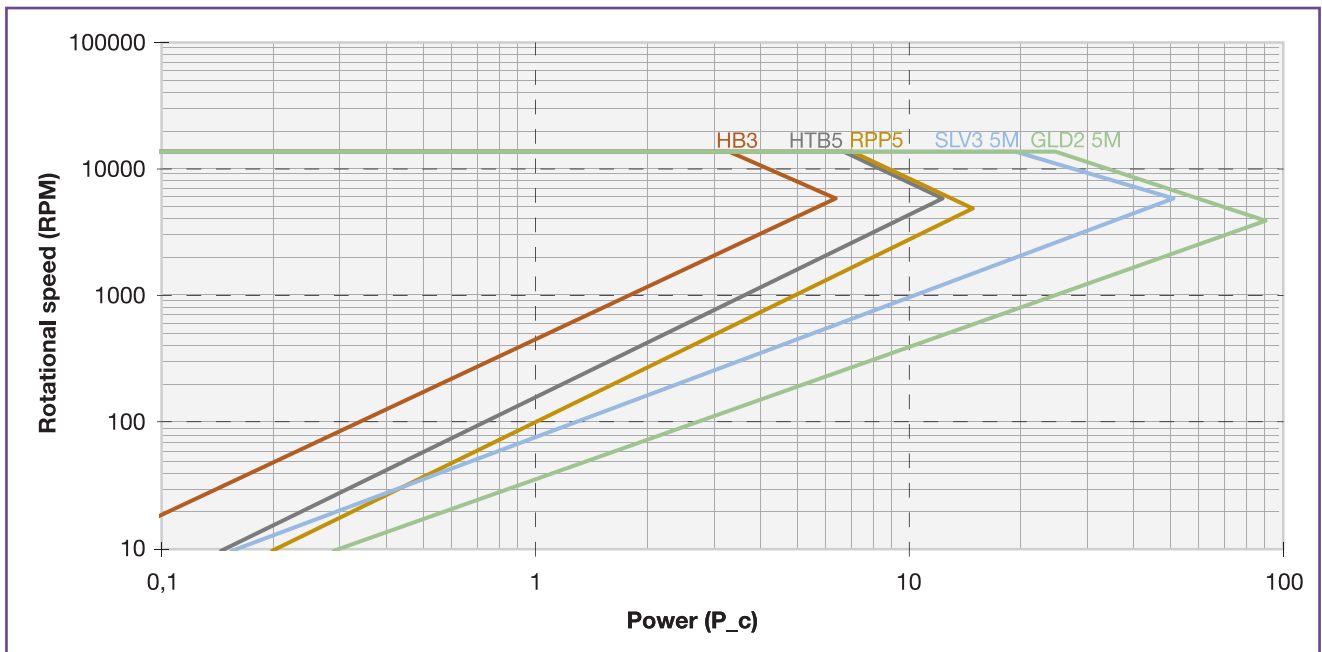
TECHNICAL CALCULATION

STEP 2 - BELT PITCH SELECTION

MEGADYNE AND MEGASYNC DD

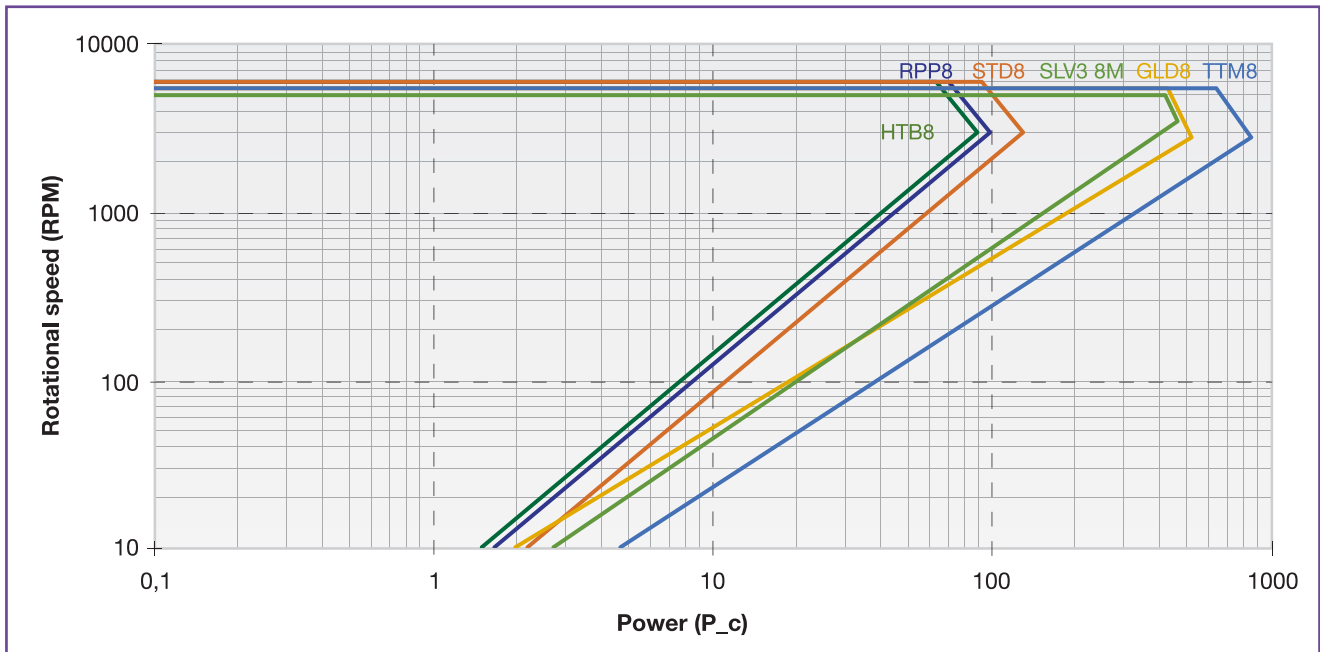


HB3, HTB5, RPP5, SLV3 5M, GLD2 5M

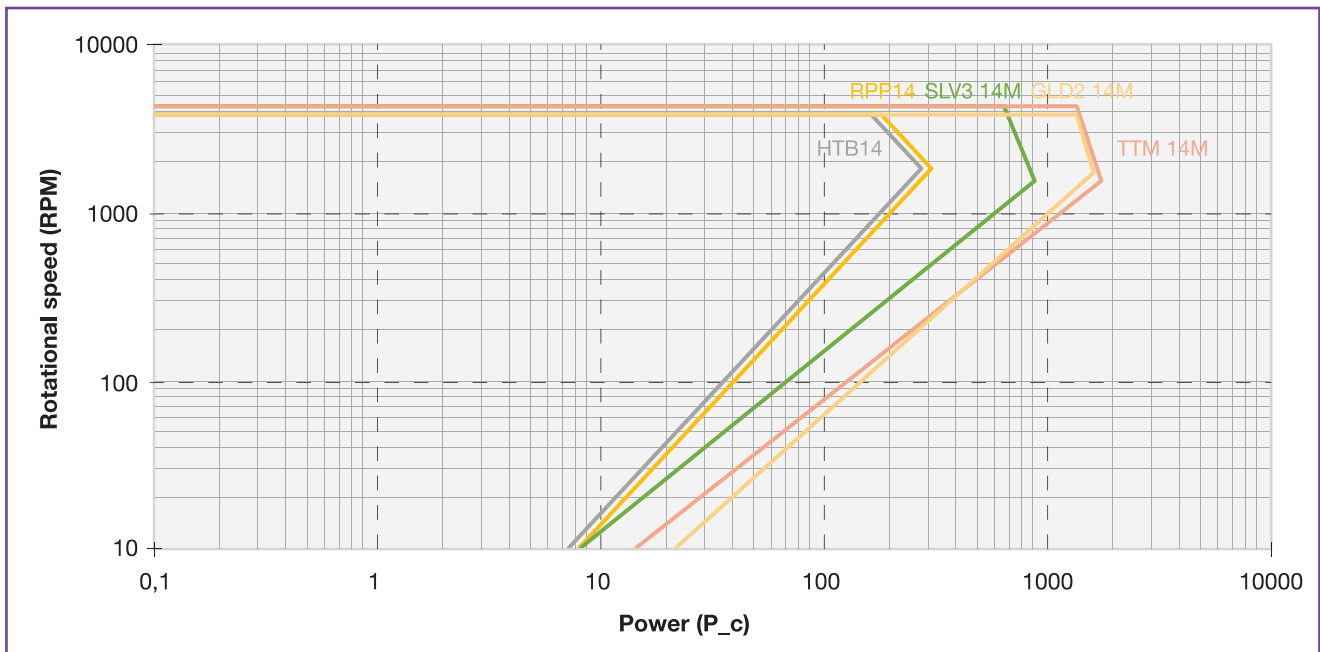


TECHNICAL CALCULATION

HTB8, RPP8, STD8, SLV3 8M, GLD8, TTM8



HTB14, RPP14, SLV3 14M, GLD2 14M, TTM 14M





TECHNICAL CALCULATION

STEP 3 - SELECTION OF BELT, PULLEYS AND CENTER DISTANCE

CHOICE OF BELT TYPE AND PITCH

Several options are available, with improved belt's power rating from MEGASYNC™ RPP by getting up to MEGASYNC™ Silver3, Gold2 and eventually Titanium, as shown in the graphs in the previous pages.

The graph has:

- design power P_c along the X-axis
- speed of the fastest shaft along the Y-axis.

With these input data you will locate an intersection point. The area surrounding this point indicates the pitch you should use for your design. As shown, the most powerful belt is the MEGASYNC™ Titanium.

If you wish, you can compare and design different options, both in terms of power rating and pitch. Then you might select the drive best matching your size requirements or the most economical one.

CHOICE OF PULLEY, BELT AND CENTER DISTANCE

According to your space and speed ratio requirements, you might select the pulleys among those you can find in our Metal Drive Components catalogue. To help you on the choice of the pulleys, you can use the below chart indicating a selection of possible pulleys that give you the needed speed ratio.

TABLE 3 - SPEED RATIO TABLES

SPEED RATIO (APPROXIMATE VALUES) Z_2/Z_1	Z_2/Z_1					
1,06	38/36	36/34	34/32			
1,13	90/80	72/64	36/32	34/30		
1,17	56/48	34/29	28/24			
1,25	90/72	80/64	40/32	30/24		
1,33	64/48	48/36	40/30	32/24		
1,50	72/48	48/32	36/24			
1,75	112/64	56/32				
2,00	144/72	112/56	80/40	72/36	64/32	56/28
2,25	144/64	90/40	72/32			
2,33	112/48	80/34				
2,50	90/36	80/32				
2,67	192/72	80/30	64/24			
3,00	192/64	144/48	90/30	72/24		
3,27	144/44	72/22				
4,00	192/48	144/36	112/28			
4,36	192/44					
4,80	192/40	144/30				
5,33	192/36					
6,00	192/32	144/24				
7,38	192/26					
8,00	192/24					
8,73	192/22					



TECHNICAL CALCULATION

Please mind that the bigger the pulley is, the more power will be transmitted by the belt, and the less width the belt shall have; on the other side, a big pulley requires more space and will be heavier. Please mind that each pitch has its own minimum dimension; this value is given by the smallest available pulley in the corresponding Basic Performance table.

Speed ratio = (1 refers to driver pulley; 2 refers to driven pulley)

$$i = \frac{n_1}{n_2} = \frac{Z_2}{Z_1} \quad [3]$$

Refer to the Center distance selection table to determine which pulley combinations give the desired speed ratio. The most suitable pulley combination can then be selected eliminating any pulley combination for which the required Center distance cannot be obtained with the nearest standard belt size.

If you know exactly the drive Center distance and the driver and driven diameters, you can calculate the belt pitch length with the following formula:

$$L = 2 \cdot c \cdot \cos\alpha + \frac{\pi \cdot (d_L + d_s)}{2} + \frac{\pi \cdot \alpha \cdot (d_L + d_s)}{180} \quad [4]$$

Where:

- L = pitch belt length [mm]
- c = centre distance [mm]
- d_L = large pulley pitch diameter [mm]
- d_s = small pulley pitch diameter [mm]
- $\alpha = \arcsin\left(\frac{d_L - d_s}{2 \cdot c}\right)$ [°]

Check that the ratio of the belt teeth number and the pulleys teeth is not an integer number. If this happens modify the drive data where possible (center distance, ratio, pulley diameter) otherwise the belt life could be reduced.

Then select the final pulley combination according to the priorities required from the drive, in terms of flexibility, driven speed, center distance, drive cost, etc.



TECHNICAL CALCULATION

Once you find the needed belt length, both for speed ratio equal to one or not, you will proceed checking on our available belt lengths on belt data pages; you can choose both the closest longer or the closest shorter available belt. With the actual belt length value L_c you selected and the chosen pulleys you can find the new Center distance c_c as per shown below:

If speed ratio is equal to one, the new center distance will be

$$c_c = \frac{L_c - (\pi \times d_1)}{2} \quad [5]$$

If speed ratio is not equal to one, you can use the following formula

$$c_c = \frac{1}{4} \left\{ L_c - \frac{p}{2} (z_1 + z_2) + \sqrt{\left[L_c - \frac{p}{2} (z_1 + z_2) \right]^2 - 2 \left[\frac{p}{\pi} (z_2 - z_1) \right]^2} \right\}$$

or you can use the center distance table from page 30.

In this table, you have:

- $z_B - z_1$ along the columns
- $z_2 - z_1$ along the rows

At the intersection of the given column and row you will find a number that is the center distance in teeth number c_t ; so, multiplying this number by the pitch p you will get the actual center distance:

$$c_c = p \cdot c_t \quad [7]$$

If one or both of the input values you have are out of the table's range, you should divide both values by two. Then, the calculated center distance will be half of the real one, it means you need to multiply by two the found number to get the correct value of c_c .

We warmly suggest to check that the ratios between the belt's teeth number and the pulleys' teeth numbers are not integers. If this happens, it is necessary to modify the drive wherever possible (centre distance, ratio, pulleys diameter) otherwise belt life could be reduced.



TECHNICAL CALCULATION

STEP 4 - DETERMINATION OF THE ACTUAL POWER RATING P_{ba}

The actual power rating P_{ba} comes from the following formula:

$$P_{ba} = P_b \cdot C_d \cdot K_l \quad [8]$$

where:

- P_b is the belt's basic performance; each belt type and each pitch has its own basic performance table; you can find it in belt data pages. It depends on driver pulley's number of teeth and on driver pulley speed.
- C_d is the teeth in mesh correction factor. Because the power ratings in this catalogue are based on a minimum of six teeth in mesh between the belt and the pulley, you have to consider this factor whenever you have less than six teeth in mesh. To determine the number of teeth in mesh on the smallest pulley you can use the following formula:

$$z_m = \left\{ 0,5 - \left[\frac{4 p}{79 c} \cdot (z_1 - z_s) \right] \right\} \cdot z_s \quad [9]$$

where z_1 is the number of teeth on the biggest pulley and z_s is the number of teeth on the smallest pulley.

Always round z_m down to the nearest whole number. Based on this value, you will select the teeth in mesh correction factor C_d as per the following Table 4:

TABLE 4 - C_d FACTOR	
NUMBER OF TEETH IN MESH Z_m	C_d
6 or more	1,00
5	0,80
4	0,60
3	0,40
2	0,20

K_l is the belt length correction factor. Because the power ratings in this catalogue are based on specific belt lengths, you have to consider this factor and choose K_l from the below Table 5. For belts with imperial pitch, please use K_l equal to 1.

TECHNICAL CALCULATION

TABLE 5 - K_i FACTOR

RPP3		RPP5 • RPP5 DD • SLV3 5M • GLD2 5M		RPP8 • RPP8 DD		RPP14 • RPP14 DD		SLV3 8M • GLD2 8M		SLV3 14M • GLD2 14M	
BELT LENGTH (mm)	K _i	BELT LENGTH (mm)	K _i	BELT LENGTH (mm)	K _i	BELT LENGTH (mm)	K _i	BELT LENGTH (mm)	K _i	BELT LENGTH (mm)	K _i
< 190	0,80	< 440	0,80	< 600	0,80	< 1190	0,80	< 359	0,65	<1189	0,70
191 - 260	0,90	441 - 560	0,90	601 - 880	0,90	1191 - 1610	0,90	360-479	0,70	1190-1399	0,80
261 - 400	1,00	561 - 800	1,00	881 - 1280	1,00	1611 - 1890	0,95	480-599	0,75	1400-1609	0,85
401 - 600	1,10	801 - 1100	1,10	1281 - 1760	1,10	1891 - 2450	1,00	600-719	0,80	1610-1889	0,90
> 600	1,20	> 1100	1,20	> 1760	1,20	2451 - 3150	1,05	720-879	0,90	1890-2239	0,95
						> 3150	1,10	880-1039	0,95	2240-2589	1,00
								1040-1351	1,00	2590-2799	1,05
								1352-1599	1,10	2800-3359	1,10
								1600-1759	1,15	3360-3849	1,15
								1760-2199	1,20	3850-4325	1,20
								2200-2399	1,25	4326-4577	1,25
								2400-2799	1,30	4578-4955	1,30
								2800-3279	1,35	>4955	1,35
								3280-4399	1,40		
								>4399	1,50		

TABLE 5 - K_i FACTOR

TTM8		TTM8		TTM14		TTM14	
BELT LENGTH (mm)	K _i	BELT LENGTH (mm)	K _i	BELT LENGTH (mm)	K _i	BELT LENGTH (mm)	K _i
248	0,54	1200	1,03	994	0,69	2800	1,07
288	0,57	1224	1,05	1092	0,72	3136	1,11
352	0,62	1280	1,09	1120	0,73		
416	0,67	1440	1,13	1190	0,75	3304	1,13
456	0,69	1600	1,16	1260	0,77	3360	1,14
480	0,71	1760	1,17	1288	0,78	3500	1,16
544	0,74	1792	1,19	1400	0,80	3850	1,19
560	0,75	1800	1,22	1568	0,84	3920	1,20
600	0,77	2000	1,25	1610	0,85	4326	1,24
608	0,78	2200	1,26	1750	0,89	4410	1,25
640	0,79	2240	1,29	1890	0,92	4956	1,40
720	0,83	2400	1,31	1960	0,93		
800	0,87	2520	1,33	2100	0,96		
840	0,89	2600	1,36	2240	0,99		
880	0,90	2800	1,37	2310	1,00		
896	0,91	2840	1,40	2380	1,01		
960	0,94	3048	1,42	2450	1,02		
1000	0,95	3200	1,43	2520	1,03		
1040	0,97	3280	1,48	2660	1,05		
1080	0,99	3600	1,50				
1120	1,00	4000	1,51				
1160	1,02	4400	1,54				



TECHNICAL CALCULATION

STEP 5 - DETERMINATION OF BELT WIDTH

To find out the belt width we will find the width coefficient C_w first:

$$C_w = \frac{P_c}{P_{ba}} \quad [10]$$

Then, you can get the appropriate belt width b from the following tables. It is recommended to select the next higher standard width on the below tables. In this way you will get the needed belt width.

TABLE 6 - BELT WIDTH FACTOR $C_{w, LISTED}$			
BELT WIDTH MEGASYNC™ IMPERIAL AND MEGASYNC™ IMPERIAL DD			$C_{w, LISTED}$
CODE	mm	inch	
012	3,00	1/8	0,09
019	4,80	3/16	0,14
025	6,40	1/4	0,18
031	7,90	5/16	0,23
037	9,50	3/8	0,30
044	11,10	7/16	0,37
050	12,70	1/2	0,45
062	15,90	5/8	0,60
075	19,10	3/4	0,72
088	22,20	7/8	0,80
100	25,40	1	1,02
125	31,80	1 1/4	1,31
150	38,10	1 1/2	1,58
175	44,50	1 3/4	1,87
200	50,80	2	2,17
250	63,50	2 1/2	2,77
300	76,20	3	3,41
350	88,90	3 1/2	4,16
400	101,60	4	4,84
500	127,00	5	6,25
600	152,40	6	7,68
700	177,80	7	9,16
800	203,20	8	10,67
900	228,60	9	12,19
1000	254,0	10	13,77



TECHNICAL CALCULATION

TABLE 6 - BELT WIDTH FACTOR $C_{W, LISTED}$

$C_{W, LISTED}$				
BELT WIDTH (mm)	RPP3	RPP5 RPP5 DD	RPP8 RPP8 DD	RPP14 RPP14 DD
5	0,76			
6	1,00	0,53		
9	1,71	1,00	0,37	
15	3,14	1,93	0,71	
20	4,33	2,71	1,00	
25	5,52	3,48	1,29	0,56
30		4,26	1,58	0,71
40			2,16	1,00
50			2,74	1,29
55			3,03	1,44
75			4,19	2,03
85			4,77	2,32
100				2,76
115				3,21
170				4,82

TABLE 6 - BELT WIDTH FACTOR $C_{W, LISTED}$

$C_{W, LISTED}$					
BELT WIDTH (mm)	SLV3 5M GLD2 5M	SLV3 8M GLD2 8M	TTM8	SLV3 14M GLD2 14M	TTM14
6	0,67				
9	1,00				
10	1,11	0,42			
12			0,56		
15	1,67	0,71	0,72		0,31
20	2,22	1,00	1,00	0,33	0,44
25	2,78	1,28	1,28	0,50	0,58
30	3,33	1,57	1,56	0,66	0,72
40		2,15	2,11	1,00	1,00
50		2,73	2,67	1,33	1,28
55		3,01	2,94	1,50	1,42
75		4,17	4,06	2,16	1,97
85		4,75	4,61	2,50	2,25
100			5,44	3,00	2,68
115			6,28	3,5	3,08
125			6,83		3,36
170				5,33	

Once the belt width is defined, it is possible to calculate the drive safety factor σ , the ratio between the actual belt power rating and the design power:

$$\sigma = \frac{\text{Actual Belt Power Rating}}{\text{Design Power}} = \frac{P_{ba} \cdot C_{w, listed}}{P_c} \quad [11]$$

This value will be higher than one if you choose the next higher standard width; it gives an indication of the maximum extra load that the belt can tolerate.

TECHNICAL CALCULATION

STEP 6 - PRE-TENSIONING

Pre-tensioning is needed to have a well-running belt. If pre-tension T_s is too low, tooth jump can occur under the most severe load conditions; if it is too high it will increase the noise levels, reduce the belt life and may damage bearings, pulleys and other transmission parts.

The right pretension is obtained by the following formula:

$$T_s = \frac{500 \cdot P \cdot K_m}{v} + (m_l \cdot v_2) \quad [12]$$

where:

- T_s is the needed pretension on the belt's axes.
- K_m is the factor of motor class that considers the influence of motor peak torque; see the value in the below table:

TABLE 7 - K_m FACTOR		
CLASS A	CLASS B	CLASS C
1,35	1,50	1,75

- v is the belt linear speed you can calculate with the following formula:

$$v \text{ (m/s)} = \frac{d_l \cdot n_l}{19100} \quad [13]$$

where diameter d_l is in mm and rotational speed n_l is in rpm.

- m_l is the mass per length unit; it changes according to the belt type and pitch. See the following table 8.

For unusual, shock or pulsating loads we suggest to consult our Application Department for guidance. Axial load on bearings F_a will be equal to $2T_s$ when speed ratio is equal to one. Otherwise, F_a will be

$$F_a = 2 \cdot T_s \cdot \sin \frac{\beta}{2} \quad [14]$$

where β is the angle of wrap as per Image 1 page 19.

In layouts with two pulleys, you can calculate β with the following formula:

$$\alpha = \arcsin \left(\frac{d_2 - d_1}{2c_c} \right) \quad [15 a]$$

$$\beta = 180^\circ - 2 \cdot \arcsin \left(\frac{d_2 - d_1}{2c_c} \right) \quad [15 b]$$



TECHNICAL CALCULATION

TABLE 8 - BELT MASS PER UNIT LENGTH (kg/m)

BELT WIDTH		MXL	XL	L	H
(inches)	(mm)				
012	3,05	0.004			
019	4,83	0.007			
025	6,35	0.009	0.014		
031	7,90		0.017		
037	9,40		0.020		
050	12,70			0,041	
075	19,05			0,062	0,081
100	25,40			0,083	0,108
150	38,10				0,163
200	50,80				0,217
300	76,20				0,325
400	101,60				
500	127,00				

TABLE 8 - BELT MASS PER UNIT LENGTH (kg/m)

BELT WIDTH		XH	XXH	XL DD	L DD	H DD
(inches)	(mm)					
012	3,05					
019	4,83					
025	6,35			0,016		
031	7,90			0,019		
037	9,40			0,023		
050	12,70				0,047	
075	19,05				0,070	0,091
100	25,40				0,093	0,122
150	38,10					0,183
200	50,80	0,636	0,752			0,244
300	76,20	0,954	1,128			0,366
400	101,60	1,272	1,504			
500	127,00		1,880			



TECHNICAL CALCULATION

TABLE 8 - BELT MASS PER UNIT LENGTH (kg/m)

BELT WIDTH (mm)	RPP3	RPP5	SLV3 5M GLD2 5M	RPP8	SLV3 8M	GLD2 8M	TTM8
6	0,016						
9	0,025	0,039	0,036				
12							0,054
15	0,041	0,065	0,060				0,067
20				0,114	0,113	0,110	0,090
25		0,108	0,100				0,112
30				0,171	0,169	0,165	0,135
40							0,180
50				0,284	0,282	0,275	0,225
55							0,247
75							0,337
85				0,484	0,480	0,467	0,381
100							0,449
115							0,517
125							0,561
170							

TABLE 8 - BELT MASS PER UNIT LENGTH (kg/m)

BELT WIDTH (mm)	RPP14	SLV3 14M	GLD2 14M	TTM14	RPP5 DD	RPP8 DD	RPP14 DD
6							
9					0,043		
12							
15				0,108	0,072		
20				0,144		0,138	
25				0,181	0,120		
30				0,217		0,207	
40	0,463	0,400	0,404	0,289			0,492
50				0,361		0,345	
55	0,637	0,550	0,556	0,397			0,676
75				0,542			
85	0,984	0,850	0,858	0,614		0,586	1,045
100				0,722			
115	1,332	1,150	1,161	0,831			1,414
125				0,903			
170	1,969	1,700	1,717				2,091



TECHNICAL CALCULATION

STEP 7 - STATIC TENSION CHECK

There are two methods to measure the correct static tension:

1. The deflection method, based on measuring the force needed to deflect one span of the belt by a given amount (see below image).

The length of the free span t of belt where we will apply this force can be calculated as per below:

$$t = \sqrt{c^2 - \left(\frac{d_2 - d_1}{2} \right)^2} \quad [16]$$

The force F to apply to deflect the belt F has to be:

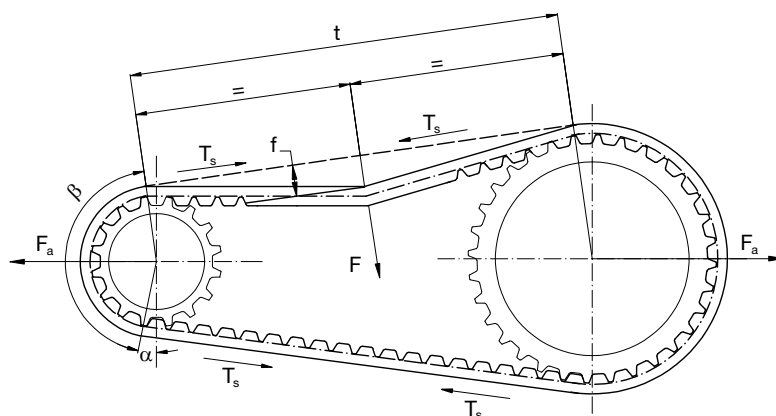
$$F_{\min} = \frac{T_s}{16} \quad [17]$$

$$F_{\max} = \frac{1,5 \cdot T_s}{16} \quad [18]$$

The deflection distance f will be

$$f = \frac{t}{64} \quad [19]$$

IMAGE 1





TECHNICAL CALCULATION

With the belt installed on the drive and tensioned to remove all the slacks in the system (snug fit), you can begin the tensioning procedure. Put a force F on the Center of the free span t and deflect the belt up to a deflection f as per above calculation. Be sure that both pulleys are free to rotate. For belts wider than 50 mm, put a rigid thing, like a key stock, as wide as the belt (across it), and apply the force through the rigid item to prevent the belt distortion and to get a good result.

Once you get the right deflection f , measure the deflection force F and compare it with the formula (a) page 19:

- If the value is inside the range, pretension is right;
- If the value is higher than the maximum, the belt is too tight, the belt should be slightly slackened;
- If the value is lower than the minimum, the belt tension is low and needs to be tightened.

If the value is out of range, please repeat this procedure until it is inside the range.

- 2.** The vibration method is based on the use of a belt frequency meter. This device consists of a small sensing head which is held across the belt to be measured. The belt is then tapped to induce the belt to vibrate at its natural frequency. The vibration is detected and displayed on the measuring unit. The relation between belt static tension T and the frequency of vibration f may be calculated using the following formula:

$$f = \frac{1}{2t} \cdot \sqrt{\frac{T_s}{m_l}} \quad [20] \quad \text{or} \quad T_s = 4 \cdot m_l \cdot t^2 \cdot f_r^2 \quad [21]$$

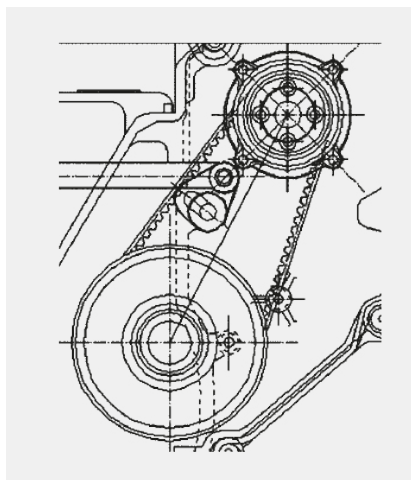
Where:

T_s	= static tension	[N]
m_l	= belt mass length per unit	[kg/m]
f_r	= frequency vibration	[Hz]
t	= free span length	[m]



CALCULATION EXAMPLE

CALCULATION EXAMPLE



Motor Power	P = 30 kW
DriveR rpm	n1 = 2000 rpm
Class motor	Class C
Application	Textile machine
Absorbed power	Unknown (assume 5 kW)
DriveN rpm	n2 = 1000 rpm
Type of driveN machine	Not uniform torque (Category 3)
Working hours	8 - 16 hours/day
Approximate Centre distance	630 - 640 mm
Maximum pulley diameter	200 mm

STEP 1 - CALCULATION OF TRANSMITTED POWER		
	DATA	RESULT
Service Factor F_s from Table 2	Category 3 driveN machine Motor class C 8 - 16 working hours	$F_s = 2,00$
Speed up Factor C_m from Table 1	$i = \frac{n_{driveR}}{n_{driveN}} = \frac{n_1}{n_2} = \frac{2000}{1000} = 2$	$C_m = 0,00$
Corrected service factor $C_c = F_s + C_m$ [1]	F_s C_m	$C_c = 2,00 + 0 = 2,00$
Design power $P_c = P \cdot C_c$ [2]	P from basic design data C_c	$P_c = 30 \cdot 2,00 = 60 \text{ kW}$

STEP 2 - BELT PITCH SELECTION		
	DATA	RESULT
Belt pitch Pitch of the belt from page 10	P_c from step 1 rpm faster shaft from basic design data	Belt type TTM 8M Belt pitch = 8 mm



CALCULATION EXAMPLE

STEP 3 - SELECTION OF BELT, PULLEYS AND CENTRE DISTANCE		
	DATA	RESULT
Speed Ratio $i = \frac{n_1}{n_2} = \frac{Z_2}{Z_1} \quad [3]$	From basic design data	$i = \frac{2000}{1000} = 2$
Belt, pulleys and Centre distance $Z_1, Z_2, d_1, d_2, c, L, Z_b$ from table 3 and centre distance from table pages 30-49	Centre distance from basic design data i	Option 1 $Z_1 = 28$ teeth $d_1 = 71,30$ mm $Z_2 = 56$ teeth $d_2 = 142,60$ mm Pitch length 1600 mm $Z_b = 200$ teeth Centre distance $78,875 \cdot p = 631$ mm Option 2 $Z_1 = 40$ teeth $d_1 = 101,86$ mm $Z_2 = 80$ teeth $d_2 = 203,72$ mm Pitch length 1760 mm $Z_b = 220$ teeth Centre distance $78,746 \cdot p = 637,968$ mm
Check belt/pulleys teeth ratio is not an integer $\frac{Z_b}{Z_s} \quad \frac{Z_b}{Z_L}$	Z_s, Z_L, Z_b	Option 1 $\frac{Z_b}{Z_s} = \frac{200}{28} = 7,14 \quad \frac{Z_b}{Z_L} = \frac{200}{56} = 3,57$ Option 2 $\frac{Z_b}{Z_s} = \frac{220}{40} = 5,5 \quad \frac{Z_b}{Z_L} = \frac{220}{80} = 2,75$
Check options that match the requirements in terms of dimensional parameters	Maximum pulley diameter from basic design data	Option 1 according with the dimensional requirements (max pulley diameter = 200 mm)



CALCULATION EXAMPLE

STEP 4 - DETERMINATION OF THE ACTUAL POWER RATING P_{ba}

	DATA	RESULT
Teeth in mesh factor C_d from table 4	$z_m = \left\{ 0,5 - \left[\frac{4 \cdot p}{79c} \cdot (z_1 - z_2) \right] \right\} \cdot z_s \quad [9]$ p from step 2 Z_1, Z_2, c from step 3 $z_m = \left\{ 0,5 - \left[\frac{4 \cdot 8}{79 \cdot 631} \cdot (56 - 28) \right] \right\} \cdot 28 = 13,5$	$C_d = 1,00$
Belt length factor K_1 from Table 5	L from step 3	$K_1 = 1,16$
Basic performance P_b from basic performance table on belt characteristics pages	p from step 2 Z_s from step 3 rpm faster shaft from basic design data	$P_b = 23,73 \text{ kW}$
Actual power rating $P_{ba} = P_b \cdot C_d \cdot K_1 \quad [8]$	C_d from step 4 K_1 from step 4 P_b from step 4	$P_{ba} = 23,73 \cdot 1 \cdot 1,16 = 27,53 \text{ kW}$

STEP 5 - DETERMINATION OF BELT WIDTH

	DATA	RESULT
Belt width factor $C_w = \frac{P_c}{P_{ba}} \quad [10]$	P_c from step 1 P_{ba} from step 4	$C_w = \frac{60}{27,53} = 2,17$
Belt width Belt width from table 8	C_w from step 5	b = 45 mm
Drive service factor $\sigma = \frac{P_{ba} \cdot C_{w,listed}}{P_c} \quad [11]$	P_{ba} from step 4 P_c from step 1 $C_{w,listed}$ from table 8	$\sigma = \frac{27,53 \cdot 2,17}{60} = 0,99$



CALCULATION EXAMPLE

STEP 6 - PRE-TENSIONING

	DATA	RESULT
Classic of motor factor K_m from table 7	Class of motor from basic design data	$K_m = 1,75$
Belt linear speed $v = \frac{d_2 \cdot n_2}{19100}$ [13]	rpm from slower shaft from basic design data d_2 from step 3	$v = \frac{142,60 \cdot 1000}{19100} = 7,47 \text{ m/s}$
Belt mass per length m from table 8	b from step 5 p from step 2	$m_l = 0,202 \text{ kg/m}$
Static tension $T_s = \frac{500 \cdot P \cdot K_m}{v} + (m_l \cdot v^2)$ [12]	P from basic design data K_m from step 6 v from step 6 m from step 6	$T_s = \frac{500 \cdot 30 \cdot 1,75}{7,47} + (0,202 \cdot 7,47^2)$ $= 3225 \text{ N}$

STEP 7 - STATIC TENSION CHECK

	DATA	RESULT
Free span length $t = \sqrt{c^2 - \left(\frac{d_2 - d_1}{2}\right)^2}$ [16]	c, d_s, d_L from step 3	$t = \sqrt{631^2 - \left(\frac{140,60 - 71,30}{2}\right)^2}$ $= 629,90 \text{ mm}$
Deflection forces $F_{\min} = \frac{T_s}{16}$ [17] $F_{\max} = \frac{1,5 \cdot T_s}{16}$ [18]	T_s from step 6	$F_{\min} = \frac{3225}{16} = 220 \text{ N}$ $F_{\max} = \frac{1,5 \cdot 3225}{16} = 330 \text{ N}$
Deflection forces $f = \frac{t}{64}$	t from step 7	$f = \frac{629,9}{64} = 9,84 \text{ mm}$
Deflection forces $f = \frac{1}{2t} \cdot \sqrt{\frac{T_s}{m_l}}$	T_s from step 6 m from step 6 t from step 7	$f = \frac{1}{2 \cdot 0,6299} \cdot \sqrt{\frac{3225}{0,202}} = 100 \text{ Hz}$

FORCES

ON SHAFT AND BEARINGS

The dynamic axial load is obtained by a vector addition between the tension in the tight span T_1 and the one in the slack span T_2 as shown in the below image 2. To calculate the dynamic axial load $F_{a, dyn}$ you can use the following formula:

$$F_{a, dyn} = \sqrt{T_1^2 + T_2^2 - 2 T_1 T_2 \cos \beta} = \sqrt{\frac{T_e^2}{2} + 2 \times T_s^2 - 2 \cos \beta \left(T_s^2 - \frac{T_e^2}{4} \right)} \quad [22]$$

where:

- $T_e = \frac{1000 \cdot P}{v}$ with P the engine power in kW and v the belt speed in m/s;
- T_s is the belt's pretension as previously calculated (page 18);
- β is the wrap angle as previously calculated (page 18).

Knowing the load on the axis, it is now possible to calculate the load on the bearings according to the following formulas:

If you have a system like image 3, where pulley is set outside the bearing's support:

$$F_1 = \frac{L_1 - L_2}{L_2} \cdot F_{a, dyn} \quad [23] \quad F_2 = \frac{L_1}{L_2} \cdot F_{a, dyn} \quad [24]$$

If you have a system like image 4, where the pulley is between the two bearings:

$$F_1 = \frac{L_2 - L_1}{L_2} \cdot F_{a, dyn} \quad [25] \quad F_2 = \frac{L_1}{L_2} \cdot F_{a, dyn} \quad [26]$$

where:

- F_1 and F_2 are the loads in N on the two bearings;
- L_1 is the distance between the pulley and the bearing;
- L_2 is the distance between the two bearings;

IMAGE 2

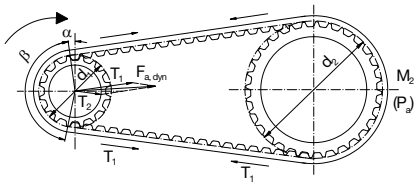


IMAGE 3

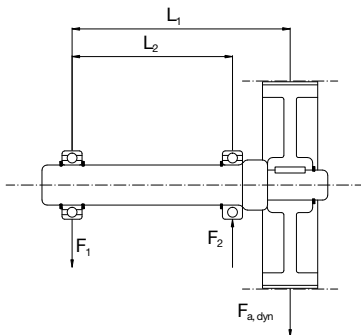
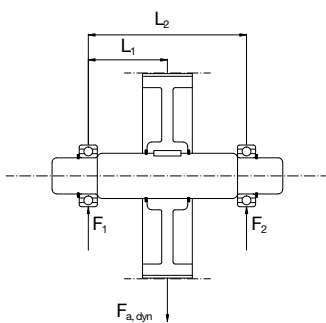


IMAGE 4



SYMBOL	UNIT	DEFINITION	
α	°	Free span lenght angle	15a
β	°	Wrap angle on small pulley	15b
d_1	mm	Driver pulley pitch diameter	
d_2	mm	Driven pulley pitch diameter	
$F_{a, dyn}$	N	Dynamic axial load	
F_1	N	Load on bearing 1	
F_2	N	Load on bearing 2	
L_1	mm	Distance between bearing and pulley	
L_2	mm	Distance between the bearings	
M_1	Nm	Motor torque	
M_2	Nm	Absorbed torque	
P	kW	Motor power	
P_a	kW	Absorberd power	
T_1	N	Tight span tension	
T_2	N	Slack span tension	



CAUSES OF BELT FAILURE

To ensure that the performance and durability of a toothed belt drive will fully meet the requirements of particular application, firstly it is necessary to accurately select the drive and then to make sure the drive is correctly installed. If this procedure is not followed, the drive life and efficiency may be considerably reduced. The most frequent problems encountered, together with their probable causes, are listed in the table below. We hope that this will serve as a useful quick-reference guide, but if the drive problems persist or they are not identified in the following list please consult Megadyne's Application Department.

PROBLEMS	CAUSES	CORRECTIVE ACTION
Abnormal wear of the belt		
1. On side of tooth	- Belt excessively taut - Excessive overloading - Incorrect contour or diameter of pulley	- Reduce center distance - Use a wider belt - Replace pulley after checking contour or diameter
2. On the bottom of the tooth	Excessive installation tension	Reduce center distance
3. At the tooth root	Incorrect diameter of pulley	Replace pulley after checking diameter
4. On the side of the belt	- Incorrect contour or diameter of pulley - Misalignment or wrong setting of pulley - Oscillation of axes and/or of bearing - Flanges bent	- Replace pulley after checking diameter - Replace pulley after checking diameter - Correct the positioning of the pulley and reinforce the bearing - Straighten flanges
Failure through traction or laceration of teeth	- Diameter of small pulley, i.e. below the minimum - Excessive moisture	- Increase the diameter of the pulley or use belt and pulleys of smaller pitch - Eliminate the moisture
Laceration of the belt	- Number of teeth in mesh less than six - Excessive load	- Increase the number of teeth in mesh or use belts and pulley of smaller pitch - Use a wider belt
Rupture of tensile member	- Excessive load - Diameter of pulley below minimum	- Use a wider belt - Increase the diameter of the pulleys
Breaks or cracks in the top surface of the belt	Exposure to excessive low temperatures (below -25°C)	Eliminate the low temperature
Softening of the surface of the belt	Exposure to excessive temperatures (over +85°C) or operation with excessive amount of oil present	Eliminate the high temperature or reduce the amount of oil present
Apparent elongation of the belt	Reduction of center distance due to bearings not being firmly fixed	Restore the initial center distance and strengthen the bearings
Belt overriding the flanges	- Faulty installation of the flanges - Misalignment of pulley	- Reinstall the flanges properly - Align pulley
Excessive wear of pulley teeth	- Excessive overloading - Belt excessively taut - Pulley material insufficiently hard	- Use a wider belt - Reduce the center distance - Harden the pulley surface
Drive excessively noisy	- Pulley out of line - Excessive installation tension - Excessive load - Diameter of pulley below minimum	- Align pulley - Reduce the center distance - Harden the pulley surface - Increase the diameter of the pulleys



CENTER DISTANCE

TABLE IN TEETH

$Z_B - Z_1$																
$Z_2 - Z_1$		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	1	3,247	3,747	4,248	4,747	5,248	5,748	6,248	6,749	7,249	7,749	8,249	8,749	9,249	9,749	10,249
	2		3,486	3,988	4,489	4,990	5,491	5,992	6,493	6,993	7,494	7,994	8,495	8,995	9,495	9,995
	3			3,720	4,223	4,726	5,229	5,731	6,232	6,734	7,235	7,736	8,237	8,737	9,238	9,739
	4				3,949	4,455	4,960	5,463	5,966	6,469	6,971	7,473	7,975	8,477	8,978	9,479
	5					4,174	4,682	5,189	5,694	6,199	6,703	7,206	7,709	8,212	8,714	9,216
	6						4,396	4,907	5,416	5,923	6,429	6,934	7,439	7,943	8,446	8,949
	7							4,615	5,128	5,610	6,149	6,657	7,164	7,669	8,174	8,679
	8							4,311	4,831	5,348	5,861	6,372	6,882	7,391	7,898	8,404
	9								4,521	5,045	5,565	6,080	6,594	7,106	7,615	8,124
	10									4,730	5,257	5,779	6,298	6,814	7,327	7,838
	11										4,936	5,467	5,993	6,514	7,031	7,546
	12											5,141	5,676	6,204	6,728	7,247
	13												5,345	5,883	6,414	6,940
	14													5,547	6,088	6,622
	15														5,747	6,292
	16															5,946

Z _B - Z ₁																
	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
1	10,749	11,249	11,749	12,249	12,749	13,250	13,750	14,250	14,750	15,250	15,750	16,250	16,750	17,250	17,750	
2	10,496	10,996	11,496	11,996	12,496	12,997	13,497	13,997	14,497	14,997	15,497	15,997	16,497	16,997	17,498	
3	10,239	10,740	11,240	11,741	12,241	12,742	13,242	13,742	14,242	14,743	15,243	15,743	16,243	16,744	17,244	
4	9,980	10,481	10,982	11,483	11,984	12,484	12,985	13,485	13,986	14,486	14,987	15,487	15,988	16,488	16,989	
5	9,718	10,219	10,721	11,222	11,723	12,225	12,726	13,227	13,727	14,228	14,729	15,230	15,730	16,231	16,731	
6	9,452	9,955	10,457	10,959	11,461	11,962	12,464	12,965	13,467	13,968	14,469	14,970	15,471	15,972	16,473	
7	9,183	9,689	10,190	10,692	11,195	11,697	12,200	12,702	13,203	13,705	14,207	14,708	15,210	15,711	16,212	
8	8,909	9,414	9,919	10,423	10,926	11,429	11,932	12,435	12,938	13,440	13,942	14,444	14,946	15,448	15,950	
9	8,631	9,138	9,644	10,149	10,654	11,158	11,662	12,166	12,669	13,173	13,675	14,178	14,681	15,183	15,685	
10	8,348	8,857	9,365	9,872	10,378	10,884	11,389	11,894	12,398	12,902	13,406	13,909	14,413	14,916	15,418	
11	8,060	8,571	9,081	9,590	10,098	10,606	11,112	11,618	12,124	12,629	13,134	13,638	14,142	14,646	15,149	
12	7,764	8,279	8,792	9,304	9,814	10,323	10,832	11,339	11,846	12,353	12,858	13,364	13,869	14,373	14,878	
13	7,462	7,981	8,497	9,012	9,525	10,036	10,547	11,056	11,565	12,073	12,580	13,087	13,593	14,098	14,604	
14	7,150	7,675	8,196	8,714	9,230	9,745	10,258	10,769	11,280	11,789	12,298	12,806	13,314	13,820	14,327	
15	6,829	7,360	7,886	8,409	8,929	9,447	9,963	10,477	10,990	11,502	12,012	12,522	13,031	13,539	14,047	
16	6,495	7,034	7,568	8,097	8,622	9,144	9,663	10,180	10,696	11,210	11,723	12,234	12,745	13,225	13,764	
17	6,145	6,696	7,239	7,775	8,306	8,833	9,356	9,878	10,396	10,913	11,429	11,943	12,455	12,967	13,478	
18		6,342	6,896	7,442	7,981	8,514	9,043	9,568	10,091	10,611	11,130	11,646	12,161	12,675	13,188	
19			6,537	7,095	7,644	8,185	8,720	9,251	9,779	10,303	10,825	11,345	11,863	12,379	12,894	
20				6,732	7,294	7,845	8,388	8,926	9,459	9,988	10,515	11,038	11,559	12,079	12,596	
21				6,348	6,927	7,491	8,045	8,591	9,131	9,666	10,198	10,725	11,250	11,773	12,293	
22					6,538	7,120	7,688	8,245	8,793	9,335	9,873	10,406	10,935	11,461	11,985	
23						6,727	7,313	7,884	8,443	8,994	9,539	10,078	10,613	11,144	11,672	
24							6,915	7,505	8,079	8,641	9,195	9,742	10,282	10,819	11,352	
25								7,103	7,697	8,273	8,839	9,395	9,943	10,486	11,024	
26									7,291	7,887	8,468	9,035	9,593	10,144	10,689	
27										7,477	8,078	8,661	9,231	9,791	10,344	
28											7,664	8,267	8,853	9,426	9,989	
29												7,850	8,456	9,045	9,620	
30													8,035	8,645	9,236	
31														8,219	8,833	
32															8,404	



CENTER DISTANCE

TABLE IN TEETH

Z _B - Z ₁																
	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	
Z ₂ - Z ₁	1	18,250	18,750	19,250	19,750	20,250	20,750	21,250	21,750	22,250	22,750	23,250	23,750	24,250	24,750	25,250
	2	17,998	18,498	18,998	19,498	19,998	20,498	20,998	21,498	21,998	22,498	22,998	23,498	23,998	24,498	24,998
	3	17,744	18,244	18,744	19,245	19,745	20,245	20,745	21,245	21,745	22,245	22,745	23,246	23,746	24,246	24,746
	4	17,489	17,989	18,489	18,990	19,490	19,990	20,491	20,991	21,491	21,991	22,491	22,992	23,492	23,992	24,492
	5	17,232	17,733	18,233	18,734	19,234	19,734	20,235	20,735	21,236	21,736	22,236	22,737	23,237	23,737	24,237
	6	16,974	17,474	17,975	18,476	18,976	19,477	19,978	20,478	20,979	21,479	21,980	22,480	22,981	23,481	23,981
	7	16,713	17,214	17,715	18,216	18,717	19,218	19,719	20,220	20,721	21,221	21,722	22,223	22,723	23,224	23,724
	8	16,451	16,953	17,454	17,955	18,457	18,958	19,459	19,960	20,461	20,962	21,463	21,964	22,464	22,965	23,466
	9	16,187	16,689	17,191	17,692	18,194	18,696	19,197	19,698	20,200	20,701	21,202	21,703	22,204	22,705	23,206
	10	15,921	16,423	16,926	17,428	17,930	18,432	18,934	19,435	19,937	20,438	20,940	21,441	21,943	22,444	22,945
	11	15,652	16,156	16,658	17,161	17,664	18,166	18,668	19,170	19,673	20,174	20,676	21,178	21,680	22,181	22,683
	12	15,382	15,886	16,389	16,892	17,396	17,898	18,401	18,904	19,406	19,909	20,411	20,913	21,415	21,917	22,419
	13	15,109	15,613	16,117	16,622	17,125	17,629	18,132	18,635	19,139	19,641	20,144	20,647	21,149	21,652	22,154
	14	14,833	15,338	15,844	16,348	16,853	17,357	17,861	18,365	18,869	19,372	19,875	20,379	20,881	21,384	21,887
	15	14,554	15,061	15,567	16,073	16,578	17,083	17,588	18,093	18,597	19,101	19,605	20,109	20,612	21,115	21,618
	16	14,273	14,781	15,288	15,795	16,301	16,807	17,313	17,818	18,323	18,828	19,333	19,837	20,341	20,845	21,348
	17	13,988	14,497	15,006	15,514	16,021	16,529	17,035	17,541	18,047	18,553	19,058	19,563	20,068	20,572	21,077
	18	13,700	14,211	14,721	15,230	15,739	16,247	16,755	17,262	17,769	18,275	18,782	19,287	19,793	20,298	20,803
	19	13,408	13,921	14,433	14,943	15,454	15,963	16,472	16,980	17,488	17,996	18,503	19,009	19,516	20,022	20,527
	20	13,112	13,627	14,141	14,653	15,165	15,676	16,186	16,696	17,205	17,714	18,222	18,729	19,236	19,743	20,250
	21	12,812	13,329	13,845	14,360	14,873	15,386	15,898	16,409	16,919	17,429	17,938	18,447	18,955	19,463	19,970
	22	12,507	13,027	13,545	14,062	14,578	15,092	15,606	16,119	16,630	17,142	17,652	18,162	18,671	19,180	19,688
	23	12,197	12,720	13,241	13,761	14,279	14,795	15,311	15,825	16,339	16,851	17,363	17,874	18,385	18,895	19,404
	24	11,881	12,408	12,932	13,455	13,975	14,494	15,012	15,528	16,044	16,558	17,071	17,584	18,096	18,607	19,118
	25	11,559	12,090	12,618	13,143	13,667	14,189	14,709	15,228	15,745	16,261	16,776	17,291	17,804	18,317	18,828
	26	11,229	11,765	12,297	12,827	13,354	13,879	14,402	14,923	15,443	15,961	16,478	16,994	17,509	18,023	18,537
	27	10,891	11,433	11,971	12,505	13,036	13,564	14,090	14,614	15,136	15,657	16,176	16,694	17,211	17,727	18,242
	28	10,544	11,093	11,636	12,175	12,711	13,243	13,773	14,300	14,826	15,349	15,871	16,391	16,910	17,428	17,944
	29	10,186	10,743	11,293	11,839	12,380	12,917	13,451	13,981	14,510	15,036	15,561	16,084	16,605	17,125	17,643
	30	9,814	10,382	10,941	11,494	12,041	12,583	13,122	13,657	14,189	14,719	15,247	15,772	16,296	16,818	17,339
	31	9,427	10,008	10,577	11,139	11,693	12,242	12,766	13,326	13,863	14,396	14,927	15,456	15,983	16,507	17,031
	32	9,020	9,617	10,200	10,772	11,336	11,892	12,443	12,989	13,530	14,068	14,603	15,135	15,665	16,193	16,719
	33	8,587	9,207	9,807	10,392	10,966	11,532	12,090	12,642	13,190	13,733	14,273	14,809	15,342	15,873	16,402
	34		8,770	9,393	9,996	10,584	11,160	11,728	12,288	12,842	13,392	13,936	14,477	15,014	15,549	16,081
	35			8,953	9,579	10,185	10,775	11,354	11,923	12,485	13,042	13,592	14,138	14,680	15,219	15,755
	36				9,136	9,765	10,373	10,966	11,547	12,118	12,683	13,240	13,792	14,340	14,883	15,423
	37					9,318	9,950	10,561	11,156	11,739	12,313	12,879	13,438	13,992	14,541	15,086
	38						9,500	10,135	10,749	11,346	11,932	12,508	13,075	13,636	14,191	14,741
	39							9,682	10,320	10,936	11,536	12,124	12,701	13,270	13,833	14,390
	40								9,863	10,504	11,123	11,725	12,315	12,894	13,465	14,030
	41									10,044	10,688	11,310	11,914	12,506	13,087	13,660
	42										10,225	10,872	11,496	12,102	12,696	13,279
	43											10,406	11,055	11,681	12,290	12,886
	44												10,586	11,238	11,867	12,478
	45													10,765	11,420	12,052
	46														10,945	11,603
	47															11,124
	48															



CENTER DISTANCE

TABLE IN TEETH

		$Z_B - Z_1$														
$Z_2 - Z_1$		67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
	61	14,976	15,623	16,253	16,870	17,477	18,074	18,663	19,245	19,821	20,392	20,959	21,521	22,079	22,634	23,187
	62	14,486	15,156	15,805	16,438	17,057	17,664	18,263	18,854	19,437	20,015	20,587	21,154	21,717	22,277	22,833
	63	13,964	14,665	15,337	15,988	16,622	17,243	17,852	18,452	19,044	19,629	20,208	20,781	21,349	21,914	22,474
	64	13,396	14,140	14,843	15,517	16,170	16,806	17,428	18,040	18,641	19,234	19,820	20,400	20,975	21,544	22,110
	65		13,569	14,315	15,021	15,698	16,352	16,990	17,614	18,227	18,830	19,424	20,011	20,593	21,168	21,739
	66			13,742	14,491	15,199	15,878	16,534	17,174	17,800	18,414	19,018	19,614	20,202	20,785	21,361
	67				13,915	14,667	15,377	16,058	16,717	17,358	17,985	18,600	19,206	19,803	20,393	20,977
	68					14,088	14,842	15,554	16,238	16,898	17,541	18,170	18,787	19,394	19,992	20,583
	69						14,260	15,017	15,732	16,417	17,080	17,724	18,355	18,973	19,581	20,181
	70							14,433	15,193	15,910	16,597	17,261	17,907	18,539	19,159	19,769
	71								14,606	15,368	16,087	16,776	17,442	18,090	18,723	19,345
	72									14,778	15,542	16,264	16,955	17,623	18,272	18,907
	73										14,950	15,717	16,441	17,134	17,803	18,455
	74											15,123	15,892	16,617	17,312	17,984
	75												15,294	16,066	16,794	17,490
	76													15,466	16,240	16,970
	77														15,638	16,414
	78															15,809
	79															

		$Z_B - Z_1$														
$Z_2 - Z_1$		82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
	61	23,736	24,282	24,827	25,369	25,909	26,448	26,984	27,519	28,053	28,585	29,116	29,646	30,175	30,702	31,229
	62	23,386	23,936	24,484	25,029	25,572	26,113	26,652	27,189	27,725	28,259	28,792	29,324	29,854	30,384	30,912
	63	23,031	23,585	24,136	24,685	25,231	25,774	26,316	26,856	27,394	27,931	28,466	28,999	29,531	30,062	30,592
	64	22,671	23,229	23,784	24,336	24,885	25,432	25,977	26,519	27,060	27,598	28,136	28,671	29,205	29,738	30,270
	65	22,305	22,868	23,427	23,982	24,535	25,085	25,633	26,178	26,722	27,263	27,803	28,340	28,877	29,412	29,945
	66	21,933	22,501	23,064	23,624	24,181	24,734	25,285	25,834	26,380	26,924	27,466	28,006	28,545	29,082	29,617
	67	21,554	22,127	22,696	23,260	23,821	24,379	24,933	25,485	26,034	26,581	27,126	27,669	28,210	28,749	29,287
	68	21,168	21,747	22,321	22,891	23,456	24,018	24,577	25,132	25,685	26,235	26,782	27,328	27,872	28,413	28,953
	69	20,774	21,360	21,940	22,515	23,085	23,652	24,215	24,774	25,330	25,884	26,435	26,983	27,530	28,074	28,616
	70	20,370	20,964	21,551	22,132	22,708	23,280	23,847	24,411	24,971	25,528	26,083	26,634	27,184	27,731	28,276
	71	19,956	20,558	21,153	21,742	22,324	22,901	23,474	24,042	24,607	25,168	25,726	26,281	26,834	27,384	27,932
	72	19,530	20,143	20,747	21,343	21,932	22,516	23,094	23,668	24,237	24,803	25,365	25,924	26,480	27,033	27,584
	73	19,091	19,716	20,330	20,935	21,532	22,123	22,708	23,287	23,862	24,432	24,998	25,561	26,121	26,678	27,232
	74	18,637	19,275	19,901	20,516	21,123	21,721	22,313	22,899	23,479	24,055	24,626	25,194	25,758	26,318	26,876
	75	18,164	18,818	19,458	20,085	20,702	21,310	21,910	22,503	23,090	23,672	24,248	24,821	25,389	25,954	26,515
	76	17,669	18,344	19,000	19,642	20,270	20,888	21,498	22,099	22,693	23,281	23,863	24,441	25,014	25,584	26,149
	77	17,146	17,847	18,524	19,182	19,825	20,455	21,075	21,685	22,287	22,883	23,472	24,055	24,634	25,208	25,778
	78	16,588	17,323	18,025	18,704	19,363	20,008	20,640	21,261	21,872	22,476	23,072	23,662	24,247	24,827	25,402
	79	15,981	16,762	17,499	18,203	18,884	19,545	20,191	20,824	21,446	22,059	22,664	23,261	23,852	24,438	25,019
	80		16,152	16,936	17,675	18,381	19,063	19,727	20,374	21,008	21,632	22,246	22,852	23,450	24,043	24,629
	81			16,324	17,110	17,850	18,559	19,243	19,908	20,556	21,192	21,817	22,432	23,039	23,639	24,232
	82				16,495	17,283	18,026	18,737	19,422	20,088	20,739	21,376	22,002	22,618	23,227	23,828
	83					16,666	17,457	18,202	18,914	19,601	20,269	20,921	21,559	22,187	22,805	23,414
	84						16,837	17,631	18,378	19,091	19,780	20,450	21,103	21,743	22,372	22,991
	85							17,009	17,804	18,553	19,269	19,959	20,630	21,285	21,926	22,556
	86								17,180	17,977	18,728	19,446	20,138	20,810	21,467	22,109
	87									17,351	18,150	18,903	19,623	20,317	20,991	21,648
	88										17,522	18,323	19,078	19,799	20,495	21,171
	89											17,692	18,496	19,253	19,976	20,673
	90												17,862	18,669	19,427	20,152
	91													18,033	18,841	19,602
	92														18,203	19,014
	93															18,374



CENTER DISTANCE

TABLE IN TEETH

$Z_B - Z_1$											
	101	102	103	104	105	106	107	108	109	110	111
61	33,848	34,370	34,891	35,411	35,931	36,450	36,968	37,486	38,003	38,520	39,037
62	33,538	34,061	34,583	35,104	35,625	36,145	36,664	37,183	37,702	38,219	38,737
63	33,226	33,750	34,273	34,796	35,317	35,838	36,359	36,879	37,398	37,917	38,435
64	32,911	33,437	33,961	34,485	35,008	35,530	36,052	36,573	37,093	37,613	38,132
65	32,595	33,121	33,647	34,172	34,696	35,220	35,743	36,265	36,786	37,307	37,827
66	32,276	32,804	33,331	33,858	34,383	34,908	35,432	35,955	36,477	36,999	37,520
67	31,954	32,484	33,013	33,541	34,068	34,594	35,119	35,643	36,167	36,690	37,212
68	31,630	32,162	32,692	33,221	33,750	34,277	34,804	35,329	35,854	36,378	36,902
69	31,304	31,837	32,369	32,900	33,430	33,959	34,487	35,014	35,540	36,065	36,590
70	30,974	31,510	32,043	32,576	33,108	33,638	34,167	34,696	35,223	35,750	36,276
71	30,642	31,179	31,715	32,250	32,783	33,315	33,846	34,376	34,905	35,433	35,960
72	30,307	30,846	31,384	31,921	32,456	32,989	33,522	34,054	34,584	35,113	35,642
73	29,969	30,510	31,050	31,589	32,126	32,661	33,196	33,729	34,261	34,792	35,322
74	29,627	30,171	30,713	31,254	31,793	32,331	32,867	33,402	33,935	34,468	34,999
75	29,282	29,829	30,373	30,916	31,457	31,997	32,535	33,072	33,607	34,142	34,675
76	28,933	29,482	30,030	30,575	31,119	31,660	32,201	32,739	33,277	33,813	34,348
77	28,580	29,133	29,683	30,231	30,777	31,321	31,863	32,404	32,944	33,482	34,018
78	28,223	28,779	29,332	29,883	30,431	30,978	31,523	32,066	32,607	33,147	33,686
79	27,862	28,421	28,977	29,531	30,082	30,632	31,179	31,725	32,268	32,810	33,351
80	27,496	28,059	28,618	29,175	29,730	30,282	30,832	31,380	31,926	32,471	33,013
81	27,125	27,692	28,255	28,815	29,373	29,982	30,481	31,032	31,581	32,127	32,672
82	26,748	27,319	27,887	28,451	29,012	29,571	30,127	30,680	31,232	31,781	32,329
83	26,366	26,942	27,514	28,082	28,647	29,209	29,768	30,325	30,879	31,431	31,981
84	25,977	26,558	27,135	27,708	28,277	28,843	29,405	29,965	30,523	31,078	31,631
85	25,582	26,169	26,750	27,328	27,901	28,471	29,038	29,602	30,162	30,721	31,276
86	25,179	25,772	26,360	26,942	27,521	28,095	28,666	29,233	29,798	30,359	30,918
87	24,768	25,368	25,962	26,550	27,134	27,713	28,289	28,860	29,428	29,994	30,556
88	24,348	24,956	25,557	26,151	26,741	27,325	27,906	28,482	29,054	29,623	30,189
89	23,918	24,534	25,143	25,745	26,341	26,931	27,517	28,098	28,675	29,248	29,818
90	23,476	24,103	24,721	25,330	25,933	26,530	27,121	27,708	28,290	28,868	29,442
91	23,022	23,660	24,288	24,906	25,517	26,121	26,719	27,321	27,899	28,482	29,060
92	22,554	23,205	23,844	24,472	25,092	25,704	26,309	26,908	27,501	28,090	28,673
93	22,068	22,735	23,387	24,027	24,657	25,278	25,891	26,497	27,097	27,691	28,280
94	21,563	22,248	22,916	23,569	24,210	24,841	25,463	26,078	26,685	27,285	27,881
95	21,034	21,741	22,427	23,096	23,751	24,393	25,026	25,649	26,264	26,872	27,474
96	20,474	21,210	21,919	22,606	23,277	23,933	24,576	25,210	25,834	26,450	27,059
97	19,876	20,649	21,386	22,096	22,785	23,457	24,114	24,759	25,394	26,019	26,636
98	19,225	20,049	20,823	21,561	22,273	22,964	23,637	24,296	24,942	25,577	26,204
99		19,395	20,221	20,997	21,737	22,45	23,142	23,817	24,477	25,124	25,761
100			19,565	20,393	21,17	21,913	22,628	23,321	23,997	24,658	25,307
101				19,735	20,564	21,344	22,088	22,805	23,499	24,177	24,839
102					19,904	20,736	21,518	22,263	22,981	23,678	24,356
103						20,074	20,908	21,691	22,438	23,158	23,855
104							20,243	21,079	21,864	22,613	23,334
105								20,413	21,251	22,038	22,788
106									20,582	21,422	22,211
107										20,752	21,594
108											20,921
109											
110											
111											
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MEGADYNE MEGASYNC™

IMPERIAL
IMPERIAL DD

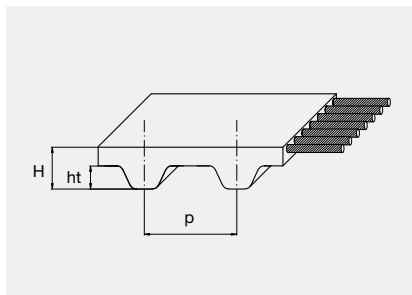


MEGADYNE MEGASYNC™

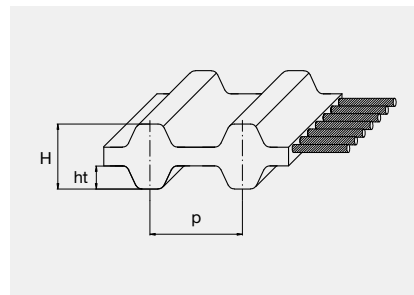
IMPERIAL AND IMPERIAL DD

Megadyne MEGASYNC™ Imperial and Imperial DD belts are a class of belt very widely used in several kinds of applications. These belts are made with polychloroprene compound. Special compounds with different features are available on request. Here are some belt's characteristics.

IMPERIAL



IMPERIAL DD



PITCH		MXL	XL	L	H	XH	XXH	XLDD	LDD	HDD
Pitch length (mm)	p	2,032	5,080	9,525	12,700	22,225	31,750	5,080	9,525	12,700
Teeth height (mm)	ht	0,51	1,27	1,91	2,29	6,35	9,53	1,27	1,91	2,29
Belt height (mm)	H	1,14	2,40	3,60	4,40	11,40	15,30	3,05	4,60	5,90

RESISTANCE TO: STD BELT RESISTANCE

Water	Medium
Acids / Alkalis	None
Solvents	None
Mineral oils	Low
Oils	Low
Greases	Medium
Fuels	None
Environmental agents	Medium

OTHER FEATURES

	Min: -25 °C
Temperature range	Max: 80 °C
	Max peak: 100 °C
Hardness	74 +/- 4 ShA



MEGADYNE MEGASYNC™

IMPERIAL AND IMPERIAL DD

STANDARD TOLERANCES

WIDTH TOLERANCES						
BELT WIDTH (inches)		BELT WIDTH (mm)		TOLERANCE ON BELT WIDTH		
				BELT LENGTH (inches)		
MORE THAN	UP TO	MORE THAN	UP TO	UP TO 33"	MORE THAN 33" UP TO 66"	MORE THAN 66"
-	044	-	11,10	+0,4 / -0,8	+0,4 / -0,8	-
044	150	11,10	38,10	±0,8	+0,8 / -1,2	+0,8 / -1,2
150	200	38,10	50,80	+0,8 / -1,2	±1,2	+1,2 / -1,6
200	300	50,80	76,20	+1,2 / -1,6	±1,6	+1,6 / -2,0
300	400	76,20	101,60	-	+1,3 / -1,5	+1,3 / -1,5
400	500	101,60	127,00	-	+1,3 / -1,5	+1,3 / -1,5

LENGTH TOLERANCES					
BELT LENGTH (mm)		TOLERANCE (mm)	BELT LENGTH (mm)		TOLERANCE (mm)
MORE THAN	UP TO		MORE THAN	UP TO	
-	254	±0,40	2.286	2.540	±1,00
254	381	±0,45	2.540	2.794	±1,05
381	508	±0,50	2.794	3.048	±1,10
508	762	±0,60	3.048	3.302	±1,15
762	991	±0,65	3.302	3.556	±1,20
991	1.220	±0,75	3.556	3.810	±1,25
1.220	1.524	±0,80	3.810	4.064	±1,30
1.524	1.778	±0,85	4.064	4.318	±1,35
1.778	2.032	±0,90	4.318	4.572	±1,40
2.032	2.286	±0,95	-	-	-

THICKNESS TOLERANCES				
PITCH	NOMINAL BELT THICKNESS (mm)	TOLERANCE DEGREE (mm)		
		STANDARD BELT	GRADE 2	GRADE 1
MXL	1,14	±0,25	±0,15	±0,15
XL	2,40	±0,25	±0,15	±0,15
L	3,60	±0,25	±0,25	±0,15
H	4,40	±0,60	±0,25	±0,15
XH	11,40	±0,60	±0,25	-
XXH	15,30	±0,60	±0,25	-

For specific application, where you might require different tolerances, please contact our Application Department.

STANDARD WIDTHS														
PITCH	BELT WIDTHS													
	(inch)	012	019	025	031	037	050	075	100	150	200	300	400	500
	(mm)	3,05	4,83	6,35	7,87	9,40	12,70	19,05	25,40	38,10	50,80	76,20	101,60	127,00
MXL		•	•	•										
XL - XL DD				•	•	•								
L - L DD							•	•	•					
H - H DD								•	•	•	•	•		
XH											•	•	•	
XXH											•	•	•	•

MEGASYNC™



MEGADYNE MEGASYNC™

MXL

BASIC PERFORMANCE Pb IN W FOR MEGASYNC MXL - 25 mm WIDE (W / 25 mm)

D (mm)	6,47	7,11	7,76	9,06	9,70	10,35	11,64	12,94	13,58	14,23	15,52	18,11	19,40	20,70
Z	10	11	12	14	15	16	18	20	21	22	24	28	30	32
RPM														
100	3	3	3	4	4	4	5	6	6	6	7	8	8	9
200	6	6	7	8	8	9	10	11	12	12	13	15	17	18
300	8	9	10	12	12	13	15	17	17	18	20	23	25	26
400	11	12	13	15	17	18	20	22	23	24	26	31	33	35
500	14	15	17	19	21	22	25	28	29	30	33	39	41	44
600	17	18	20	23	25	26	30	33	35	36	40	46	50	53
725	20	22	24	28	30	32	36	40	42	44	48	56	60	64
800	22	24	26	31	33	35	40	44	46	48	53	62	66	71
900	25	27	30	35	37	40	45	50	52	55	60	69	74	79
950	26	29	31	37	39	42	47	52	55	58	63	73	79	84
1000	28	30	33	39	41	44	50	55	58	61	66	77	83	88
1100	30	33	36	42	45	48	55	61	64	67	73	85	91	97
1200	33	36	40	46	50	53	60	66	69	73	79	93	99	106
1300	36	39	43	50	54	57	64	72	75	79	86	100	107	115
1400	39	42	46	54	58	62	69	77	81	85	93	108	116	123
1425	39	43	47	55	59	63	71	79	82	86	94	110	118	126
1500	41	45	50	58	62	66	74	83	87	91	99	116	124	132
1600	44	48	53	62	66	71	79	88	93	97	106	123	132	141
1700	47	52	56	66	70	75	84	94	98	103	112	131	140	150
1800	50	55	60	69	74	79	89	99	104	109	119	139	149	158
1900	52	58	63	73	79	84	94	105	110	115	126	146	157	167
2000	55	61	66	77	83	88	99	110	116	121	132	154	165	176
2200	61	67	73	85	91	97	109	121	127	133	145	169	182	194
2400	66	73	79	93	99	106	119	132	139	145	158	185	198	211
2600	72	79	86	100	107	115	129	143	150	157	172	200	214	229
2800	77	85	93	108	116	123	139	154	162	169	185	215	231	246
2850	79	86	94	110	118	126	141	157	165	172	188	219	235	250
3000	83	91	99	116	124	132	149	165	173	182	198	231	247	263
3200	88	97	106	123	132	141	158	176	185	194	211	246	263	281
3400	94	103	112	131	140	150	168	187	196	206	224	261	280	298
3600	99	109	119	139	149	158	178	198	208	218	237	276	296	315
3800	105	115	126	146	157	167	188	209	219	230	250	292	312	333
4000	110	121	132	154	165	176	198	220	231	242	263	307	328	350
4200	116	127	139	162	173	185	208	231	242	254	276	322	345	367
4400	121	133	145	169	182	194	218	242	254	266	289	337	361	384
4600	127	139	152	177	190	202	227	253	265	278	302	352	377	402
4800	132	145	158	185	198	211	237	263	276	289	315	367	393	419
5000	138	151	165	192	206	220	247	274	288	301	328	382	409	436
5200	143	157	172	200	214	229	257	285	299	313	341	397	425	453
5400	149	163	178	208	223	237	267	296	311	325	354	412	441	470
5600	154	169	185	215	231	246	276	307	322	337	367	427	457	486
5800	160	175	191	223	239	255	286	318	333	349	380	442	473	503
6000	165	182	198	231	247	263	296	328	345	361	393	457	488	520
6500	179	197	214	250	267	285	320	355	373	390	425	494	528	562
7000	192	212	231	269	288	307	345	382	401	420	457	530	567	603
7500	206	227	247	288	308	328	369	409	429	449	488	567	605	643
8000	220	242	263	307	328	350	393	436	457	478	520	603	643	684
8500	233	257	280	326	349	372	417	462	485	507	551	638	681	724
9000	247	272	296	345	369	393	441	488	512	536	582	674	719	763
9500	261	286	312	363	389	414	465	515	539	564	613	709	755	801
10000	274	301	328	382	409	436	488	541	567	592	643	743	792	839
10500	288	316	345	401	429	457	512	567	594	621	674	777	828	877
11000	301	331	361	420	449	478	536	592	621	649	704	811	863	914
11500	315	346	377	438	469	499	559	618	647	676	733	844	898	950
12000	328	361	393	457	488	520	582	643	674	704	763	877	932	985
12500	342	376	409	475	508	541	605	669	700	731	792	909	965	1020
13000	355	390	425	494	528	562	628	694	726	758	821	941	998	1053
13500	369	405	441	512	547	582	651	719	752	785	849	972	1030	1086
14000	382	420	457	530	567	603	674	743	777	811	877	1002	1062	1118
14500	396	434	473	549	586	623	696	768	803	837	905	1032	1092	1150
15000	409	449	488	567	605	643	719	792	828	863	932	1062	1122	1180
16000	436	478	520	603	643	684	763	839	877	914	985	1118	1180	1238
17000	462	507	551	638	681	724	806	886	925	963	1037	1172	1234	1291
18000	488	536	582	674	719	763	849	932	972	1011	1086	1223	1285	1340
19000	515	564	613	709	755	801	891	976	1017	1058	1134	1272	1331	1385
20000	541	592	643	743	792	839	932	1020	1062	1102	1180	1316	1374	1425

MEGASYNC™



MEGADYNE MEGASYNC™

XL - XL DD

BASIC PERFORMANCE Pb IN kW FOR MEGASYNC XL AND XL DD - 25 mm WIDE (kW / 25 mm)

D (mm)	16,17	17,79	19,40	22,64	24,26	25,87	29,11	32,34	33,96	35,57	38,81	45,28	48,51	51,74
Z	10	11	12	14	15	16	18	20	21	22	24	28	30	32
RPM														
100	0,02	0,02	0,02	0,02	0,02	0,02	0,03	0,03	0,03	0,03	0,04	0,04	0,05	0,05
200	0,03	0,03	0,04	0,04	0,05	0,05	0,05	0,06	0,06	0,07	0,07	0,09	0,09	0,10
300	0,05	0,05	0,05	0,06	0,07	0,07	0,08	0,09	0,10	0,10	0,11	0,13	0,14	0,15
400	0,06	0,07	0,07	0,09	0,09	0,10	0,11	0,12	0,13	0,13	0,15	0,17	0,18	0,19
500	0,08	0,08	0,09	0,11	0,11	0,12	0,14	0,15	0,16	0,17	0,18	0,21	0,23	0,24
600	0,09	0,10	0,11	0,13	0,14	0,15	0,16	0,18	0,19	0,20	0,22	0,26	0,27	0,29
725	0,11	0,12	0,13	0,15	0,17	0,18	0,20	0,22	0,23	0,24	0,26	0,31	0,33	0,35
800	0,12	0,13	0,15	0,17	0,18	0,19	0,22	0,24	0,26	0,27	0,29	0,34	0,36	0,39
900	0,14	0,15	0,16	0,19	0,21	0,22	0,25	0,27	0,29	0,30	0,33	0,38	0,41	0,44
950	0,14	0,16	0,17	0,20	0,22	0,23	0,26	0,29	0,30	0,32	0,35	0,40	0,43	0,46
1000	0,15	0,17	0,18	0,21	0,23	0,24	0,27	0,30	0,32	0,33	0,36	0,43	0,46	0,49
1100	0,17	0,18	0,20	0,23	0,25	0,27	0,30	0,33	0,35	0,37	0,40	0,47	0,50	0,53
1200	0,18	0,20	0,22	0,26	0,27	0,29	0,33	0,36	0,38	0,40	0,44	0,51	0,55	0,58
1300	0,20	0,22	0,24	0,28	0,30	0,32	0,36	0,39	0,41	0,43	0,47	0,55	0,59	0,63
1400	0,21	0,23	0,26	0,30	0,32	0,34	0,38	0,43	0,45	0,47	0,51	0,59	0,64	0,68
1425	0,22	0,24	0,26	0,30	0,32	0,35	0,39	0,43	0,45	0,48	0,52	0,60	0,65	0,69
1500	0,23	0,25	0,27	0,32	0,34	0,36	0,41	0,46	0,48	0,50	0,55	0,64	0,68	0,73
1600	0,24	0,27	0,29	0,34	0,36	0,39	0,44	0,49	0,51	0,53	0,58	0,68	0,73	0,77
1700	0,26	0,28	0,31	0,36	0,39	0,41	0,46	0,52	0,54	0,57	0,62	0,72	0,77	0,82
1800	0,27	0,30	0,33	0,38	0,41	0,44	0,49	0,55	0,57	0,60	0,65	0,76	0,82	0,87
1900	0,29	0,32	0,35	0,40	0,43	0,46	0,52	0,58	0,60	0,63	0,69	0,80	0,86	0,92
2000	0,30	0,33	0,36	0,43	0,46	0,49	0,55	0,61	0,64	0,67	0,73	0,84	0,90	0,96
2200	0,33	0,37	0,40	0,47	0,50	0,53	0,60	0,67	0,70	0,73	0,80	0,93	0,99	1,06
2400	0,36	0,40	0,44	0,51	0,55	0,58	0,65	0,73	0,76	0,80	0,87	1,01	1,08	1,15
2600	0,39	0,43	0,47	0,55	0,59	0,63	0,71	0,79	0,82	0,86	0,94	1,09	1,17	1,24
2800	0,43	0,47	0,51	0,59	0,64	0,68	0,76	0,84	0,89	0,93	1,01	1,17	1,25	1,33
2850	0,43	0,48	0,52	0,60	0,65	0,69	0,78	0,86	0,90	0,94	1,03	1,19	1,28	1,36
3000	0,46	0,50	0,55	0,64	0,68	0,73	0,82	0,90	0,95	0,99	1,08	1,25	1,34	1,42
3200	0,49	0,53	0,58	0,68	0,73	0,77	0,87	0,96	1,01	1,06	1,15	1,33	1,42	1,51
3400	0,52	0,57	0,62	0,72	0,77	0,82	0,92	1,02	1,07	1,12	1,22	1,41	1,51	1,60
3600	0,55	0,60	0,65	0,76	0,82	0,87	0,97	1,08	1,13	1,18	1,29	1,49	1,59	1,69
3800	0,58	0,63	0,69	0,80	0,86	0,92	1,03	1,14	1,19	1,25	1,36	1,57	1,67	1,78
4000	0,61	0,67	0,73	0,84	0,90	0,96	1,08	1,20	1,25	1,31	1,42	1,65	1,76	1,86
4200	0,64	0,70	0,76	0,89	0,95	1,01	1,13	1,25	1,31	1,37	1,49	1,72	1,84	1,95
4400	0,67	0,73	0,80	0,93	0,99	1,06	1,18	1,31	1,37	1,44	1,56	1,80	1,91	2,03
4600	0,70	0,76	0,83	0,97	1,04	1,10	1,24	1,37	1,43	1,50	1,63	1,87	1,99	2,11
4800	0,73	0,80	0,87	1,01	1,08	1,15	1,29	1,42	1,49	1,56	1,69	1,95	2,07	2,19
5000	0,76	0,83	0,90	1,05	1,12	1,20	1,34	1,48	1,55	1,62	1,76	2,02	2,15	2,27
5200	0,79	0,86	0,94	1,09	1,17	1,24	1,39	1,54	1,61	1,68	1,82	2,09	2,22	2,34
5400	0,82	0,90	0,97	1,13	1,21	1,29	1,44	1,59	1,67	1,74	1,88	2,16	2,29	2,42
5600					1,25	1,33	1,49	1,65	1,72	1,80	1,95	2,23	2,36	2,49
5800					1,30	1,38	1,54	1,70	1,78	1,86	2,01	2,30	2,43	2,56
6000					1,34	1,42	1,59	1,76	1,84	1,91	2,07	2,36	2,50	2,63
6500					1,45	1,54	1,72	1,89	1,97	2,06	2,22	2,52	2,67	2,80
7000					1,55	1,65	1,84	2,02	2,11	2,19	2,36	2,68	2,82	2,95
7500							1,95	2,15	2,24	2,33	2,50	2,82	2,96	3,09
8000							2,07	2,27	2,36	2,46	2,63	2,95	3,09	3,21
8500							2,18	2,39	2,48	2,58	2,76	3,07	3,21	3,32
9000							2,29	2,50	2,60	2,70	2,88	3,18	3,31	3,41
9500							2,40	2,61	2,71	2,81	2,99	3,28	3,40	3,48
10000							2,50	2,72	2,82	2,91	3,09	3,37	3,47	3,54
10500							2,60	2,82	2,92	3,01	3,18	3,44	3,52	3,57
11000							2,70	2,91	3,01	3,11	3,27	3,50	3,56	3,58
11500							2,79	3,01	3,10	3,19	3,35	3,54	3,58	3,57
12000							2,88	3,09	3,18	3,27	3,41	3,57	3,58	3,54
12500							2,96	3,17	3,26	3,34	3,47	3,58	3,56	3,49
13000							3,04	3,24	3,33	3,40	3,51	3,58	3,52	3,41
13500							3,11	3,31	3,39	3,45	3,55	3,56	3,46	3,30
14000							3,18	3,37	3,44	3,50	3,57	3,52	3,38	3,16
14500							3,25	3,42	3,49	3,54	3,58	3,46	3,28	3,00
15000							3,31	3,47	3,52	3,56	3,58	3,38	3,15	2,81

Under these conditions life's reduction is expected.

Under these conditions linear speed exceeds 30 m/s, we suggest to use special pulleys.

Both of the above conditions exist.



MEGADYNE MEGASYNC™

L - L DD

BASIC PERFORMANCE Pb IN kW FOR MEGASYNC L AND L DD - 25 mm WIDE (kW / 25 mm)

D (mm)	30,32	36,38	42,45	48,51	54,57	60,64	66,70	72,77	78,83	84,89	90,96	97,02	109,15	121,28	145,53
Z	10	12	14	16	18	20	22	24	26	28	30	32	36	40	48
RPM															
100	0,04	0,05	0,05	0,06	0,07	0,08	0,08	0,09	0,10	0,11	0,11	0,12	0,14	0,15	0,18
200	0,08	0,09	0,11	0,12	0,14	0,15	0,17	0,18	0,20	0,21	0,23	0,24	0,28	0,31	0,37
300	0,11	0,14	0,16	0,18	0,21	0,23	0,25	0,28	0,30	0,32	0,34	0,37	0,41	0,46	0,55
400	0,15	0,18	0,21	0,24	0,28	0,31	0,34	0,37	0,40	0,43	0,46	0,49	0,55	0,61	0,73
500	0,19	0,23	0,27	0,31	0,34	0,38	0,42	0,46	0,50	0,53	0,57	0,61	0,69	0,76	0,91
600	0,23	0,28	0,32	0,37	0,41	0,46	0,50	0,55	0,60	0,64	0,69	0,73	0,82	0,91	1,09
700	0,27	0,32	0,37	0,43	0,48	0,53	0,59	0,64	0,69	0,75	0,80	0,85	0,96	1,06	1,27
725	0,28	0,33	0,39	0,44	0,50	0,55	0,61	0,66	0,72	0,77	0,83	0,88	0,99	1,10	1,32
800	0,31	0,37	0,43	0,49	0,55	0,61	0,67	0,73	0,79	0,85	0,91	0,97	1,09	1,21	1,45
900	0,34	0,41	0,48	0,55	0,62	0,69	0,76	0,82	0,89	0,96	1,03	1,09	1,23	1,36	1,62
950	0,36	0,44	0,51	0,58	0,65	0,72	0,80	0,87	0,94	1,01	1,08	1,15	1,29	1,43	1,71
1000	0,38	0,46	0,53	0,61	0,69	0,76	0,84	0,91	0,99	1,06	1,14	1,21	1,36	1,51	1,80
1100	0,42	0,50	0,59	0,67	0,76	0,84	0,92	1,00	1,09	1,17	1,25	1,33	1,49	1,65	1,97
1200	0,46	0,55	0,64	0,73	0,82	0,91	1,00	1,09	1,18	1,27	1,36	1,45	1,62	1,80	2,13
1300	0,50	0,60	0,69	0,79	0,89	0,99	1,09	1,18	1,28	1,38	1,47	1,57	1,75	1,94	2,30
1400	0,53	0,64	0,75	0,85	0,96	1,06	1,17	1,27	1,38	1,48	1,58	1,68	1,88	2,08	2,46
1425	0,54	0,65	0,76	0,87	0,98	1,08	1,19	1,29	1,40	1,50	1,61	1,71	1,91	2,11	2,50
1500	0,57	0,69	0,80	0,91	1,03	1,14	1,25	1,36	1,47	1,58	1,69	1,80	2,01	2,22	2,62
1600	0,61	0,73	0,85	0,97	1,09	1,21	1,33	1,45	1,57	1,68	1,80	1,91	2,13	2,35	2,77
1700	0,65	0,78	0,91	1,03	1,16	1,29	1,41	1,54	1,66	1,78	1,90	2,02	2,26	2,48	2,92
1800	0,69	0,82	0,96	1,09	1,23	1,36	1,49	1,62	1,75	1,88	2,01	2,13	2,38	2,62	3,06
1900	0,72	0,87	1,01	1,15	1,29	1,43	1,57	1,71	1,85	1,98	2,11	2,24	2,50	2,74	3,21
2000	0,76	0,91	1,06	1,21	1,36	1,51	1,65	1,80	1,94	2,08	2,22	2,35	2,62	2,87	3,34
2200	0,84	1,00	1,17	1,33	1,49	1,65	1,81	1,97	2,12	2,27	2,42	2,56	2,84	3,11	3,60
2400	0,91	1,09	1,27	1,45	1,62	1,80	1,97	2,13	2,30	2,46	2,62	2,77	3,06	3,34	3,83
2600	0,99	1,18	1,38	1,57	1,75	1,94	2,12	2,30	2,47	2,64	2,81	2,97	3,27	3,56	4,04
2800	1,06	1,27	1,48	1,68	1,88	2,08	2,27	2,46	2,64	2,82	2,99	3,16	3,47	3,76	4,23
2850	1,08	1,29	1,50	1,71	1,91	2,11	2,31	2,50	2,68	2,86	3,04	3,21	3,52	3,81	4,27
3000	1,14	1,36	1,58	1,80	2,01	2,22	2,42	2,62	2,81	2,99	3,17	3,34	3,66	3,94	4,39
3200	1,21	1,45	1,68	1,91	2,13	2,35	2,56	2,77	2,97	3,16	3,34	3,52	3,83	4,11	4,51
3400	1,29	1,54	1,78	2,02	2,26	2,48	2,71	2,92	3,12	3,32	3,50	3,68	3,99	4,26	4,61
3600	1,36	1,62	1,88	2,13	2,38	2,62	2,84	3,06	3,27	3,47	3,66	3,83	4,14	4,39	4,67
3800	1,43	1,71	1,98	2,24	2,50	2,74	2,98	3,21	3,42	3,62	3,81	3,98	4,27	4,50	4,70
4000	1,51	1,80	2,08	2,35	2,62	2,87	3,11	3,34	3,56	3,76	3,94	4,11	4,39	4,58	4,68
4200	1,58	1,88	2,17	2,46	2,73	2,99	3,24	3,47	3,69	3,89	4,07	4,23	4,49	4,64	4,63
4400	1,65	1,97	2,27	2,56	2,84	3,11	3,36	3,60	3,81	4,01	4,19	4,34	4,57	4,68	4,53
4600	1,72	2,05	2,36	2,67	2,96	3,23	3,48	3,72	3,93	4,13	4,29	4,43	4,63	4,70	4,40
4800	1,80	2,13	2,46	2,77	3,06	3,34	3,60	3,83	4,04	4,23	4,39	4,51	4,67	4,68	4,21
5000	1,87	2,22	2,55	2,87	3,17	3,45	3,71	3,94	4,15	4,33	4,47	4,58	4,69	4,64	3,98
5200	1,94	2,30	2,64	2,97	3,27	3,56	3,81	4,04	4,24	4,41	4,54	4,63	4,69	4,57	3,69
5400	2,01	2,38	2,73	3,06	3,37	3,66	3,92	4,14	4,33	4,49	4,60	4,67	4,67	4,47	3,36
5600	2,08	2,46	2,82	3,16	3,47	3,76	4,01	4,23	4,41	4,55	4,64	4,69	4,63	4,34	2,97
5800	2,15	2,54	2,91	3,25	3,57	3,85	4,10	4,31	4,48	4,60	4,68	4,70	4,56	4,18	2,53
6000	2,20	2,62	2,99	3,34	3,66	3,94	4,19	4,39	4,54	4,64	4,69	4,68	4,47	3,98	2,02
6200	2,28	2,69	3,08	3,43	3,75	4,03	4,27	4,45	4,59	4,67	4,70	4,65	4,35	3,75	
6400	2,35	2,77	3,16	3,52	3,83	4,11	4,34	4,51	4,63	4,69	4,68	4,60	4,21	3,48	
6600	2,42	2,84	3,24	3,60	3,92	4,19	4,40	4,57	4,66	4,70	4,65	4,53	4,04	3,17	
6800	2,48	2,92	3,32	3,68	3,99	4,26	4,46	4,61	4,69	4,69	4,61	4,45	3,84	2,83	
7000	2,55	2,99	3,40	3,76	4,07	4,33	4,52	4,64	4,70	4,67	4,55	4,34	3,62	2,45	

Under these conditions life's reduction is expected.

Under these conditions linear speed exceeds 30 m/s, we suggest to use special pulleys.

MEGASYNC™



MEGADYNE MEGASYNC™

H - H DD

BASIC PERFORMANCE P _b IN kW FOR MEGASYNC H AND H DD - 25 mm WIDE (kW / 25 mm)													
D (mm)	56,60	64,68	72,77	80,85	88,94	97,02	105,11	113,19	121,28	129,36	145,53	161,70	194,04
Z	14	16	18	20	22	24	26	28	30	32	36	40	48
RPM													
100	0,18	0,21	0,23	0,26	0,29	0,31	0,34	0,36	0,39	0,42	0,47	0,52	0,62
200	0,36	0,42	0,47	0,52	0,57	0,62	0,68	0,73	0,78	0,83	0,93	1,04	1,25
400	0,73	0,83	0,93	1,04	1,14	1,25	1,35	1,45	1,56	1,66	1,87	2,07	2,49
500	0,91	1,04	1,17	1,30	1,43	1,56	1,69	1,82	1,94	2,07	2,33	2,59	3,10
600	1,09	1,25	1,40	1,56	1,71	1,87	2,02	2,18	2,33	2,49	2,79	3,10	3,71
700	1,27	1,45	1,63	1,82	2,00	2,18	2,36	2,54	2,72	2,90	3,25	3,61	4,32
725	1,32	1,51	1,69	1,88	2,07	2,25	2,44	2,63	2,81	3,00	3,37	3,74	4,47
800	1,45	1,66	1,87	2,07	2,28	2,49	2,69	2,90	3,10	3,31	3,71	4,12	4,92
900	1,63	1,87	2,10	2,33	2,56	2,79	3,02	3,25	3,48	3,71	4,17	4,62	5,51
950	1,72	1,97	2,22	2,46	2,70	2,95	3,19	3,43	3,67	3,91	4,39	4,87	5,81
1000	1,82	2,07	2,33	2,59	2,84	3,10	3,36	3,61	3,86	4,12	4,62	5,12	6,10
1100	2,00	2,28	2,56	2,84	3,13	3,41	3,69	3,97	4,24	4,52	5,07	5,61	6,68
1200	2,18	2,49	2,79	3,10	3,41	3,71	4,02	4,32	4,62	4,92	5,51	6,10	7,25
1300	2,36	2,69	3,02	3,36	3,69	4,03	4,34	4,67	4,99	5,31	5,95	6,58	7,80
1400		2,90	3,25	3,61	3,97	4,32	4,67	5,02	5,36	5,71	6,39	7,06	8,35
1425		2,95	3,31	3,67	4,03	4,39	4,75	5,10	5,46	5,81	6,50	7,17	8,49
1500		3,10	3,48	3,86	4,24	4,62	4,99	5,36	5,73	6,10	6,82	7,53	8,89
1600		3,31	3,71	4,12	4,52	4,92	5,31	5,71	6,10	6,48	7,25	7,99	9,41
1700		3,51	3,94	4,37	4,79	5,22	5,63	6,05	6,46	6,87	7,67	8,44	9,92
1800		3,71	4,17	4,62	5,07	5,51	5,95	6,39	6,82	7,25	8,08	8,89	10,42
1900		3,91	4,39	4,87	5,34	5,81	6,27	6,72	7,17	7,62	8,49	9,33	10,90
2000		4,12	4,62	5,12	5,61	6,10	6,58	7,06	7,53	7,99	8,89	9,76	11,37
2200		4,52	5,07	5,61	6,15	6,68	7,20	7,71	8,22	8,71	9,67	10,58	12,25
2400		4,92	5,51	6,10	6,68	7,25	7,80	8,35	8,89	9,41	10,42	11,17	13,06
2600			5,95	6,58	7,20	7,80	8,40	8,98	9,54	10,09	11,14	12,11	13,79
2800			6,39	7,06	7,71	8,35	8,98	9,59	10,17	10,74	11,82	12,80	14,44
2850			6,50	7,17	7,84	8,49	9,12	9,73	10,33	10,90	11,98	12,96	14,58
3000			6,82	7,53	8,22	8,89	9,54	10,17	10,78	11,37	12,46	13,44	14,99
3200			7,25	7,99	8,71	9,41	10,09	10,74	11,37	11,97	13,06	14,02	15,44
3400				8,44	9,20	9,92	10,62	11,29	11,93	12,53	13,62	14,54	15,79
3600				8,89	9,67	10,42	11,14	11,82	12,46	13,06	14,13	14,99	16,02
3800				9,33	10,13	10,90	11,63	12,32	12,96	13,56	14,58	15,37	16,14
4000				9,76	10,58	11,37	12,11	12,80	13,44	14,02	14,99	15,68	16,13
4200				10,17	11,02	11,82	12,56	13,25	13,88	14,44	15,34	15,92	15,98
4400				10,58	11,45	12,25	13,00	13,68	14,82	14,82	15,63	16,07	15,70
4600				10,98	11,86	12,67	13,41	14,07	14,65	15,15	15,86	16,14	15,28
4800				11,37	12,25	13,06	13,79	14,44	14,99	15,44	16,02	16,13	14,70
5000				11,75	12,63	13,44	14,15	14,77	15,28	15,68	16,12	16,02	13,96
5200				12,11	13,00	13,79	14,49	15,07	15,54	15,88	16,15	15,81	13,05
5400				12,46	13,15	14,13	14,79	15,34	15,75	16,02	16,10	15,51	11,98
5600				12,80	13,64	14,44	15,07	15,57	15,92	16,11	16,48	15,10	10,73
5800				13,13	13,99	14,72	15,32	15,76	16,04	16,15	16,79	14,58	9,29
6000				13,44	14,28	14,99	15,54	15,92	16,12	16,13	15,51	13,96	7,66

Under these conditions life's reduction is expected.

Under these conditions linear speed exceeds 30 m/s, we suggest to use special pulleys.



MEGADYNE MEGASYNC™

XH

BASIC PERFORMANCE Pb IN kW FOR MEGASYNC XH - 25 mm WIDE (kW / 25 mm)

D (mm)	127,34	141,49	155,64	169,79	183,94	198,08	212,23	226,38	240,53	254,68	282,98
Z	18	20	22	24	26	28	30	32	34	36	40
RPM											
100	0,56	0,62	0,68	0,74	0,81	0,87	0,93	0,99	1,05	1,12	1,24
200	1,12	1,24	1,36	1,49	1,61	1,73	1,86	1,98	2,10	2,23	2,47
300	1,67	1,86	2,04	2,23	2,41	2,60	2,78	2,96	3,15	3,33	3,70
400	2,23	2,47	2,72	2,96	3,21	3,45	3,70	3,94	4,18	4,42	4,90
500	2,78	3,09	3,39	3,70	4,00	4,30	4,60	4,90	5,20	5,49	6,08
600	3,33	3,70	4,06	4,42	4,78	5,14	5,49	5,84	6,20	6,54	7,23
700	3,88	4,30	4,72	5,14	5,55	5,96	6,37	6,77	7,17	7,57	8,34
725	4,01	4,45	4,88	5,31	5,74	6,17	6,59	7,00	7,41	7,82	8,61
800	4,42	4,90	5,37	5,84	6,31	6,77	7,23	7,68	8,12	8,56	9,41
900	4,96	5,49	6,02	6,54	7,06	7,57	8,07	8,56	9,04	9,52	10,44
950	5,23	5,79	6,34	6,89	7,43	7,96	8,48	8,99	9,49	9,98	10,93
1000	5,49	6,08	6,66	7,23	7,79	8,34	8,88	9,41	9,93	10,44	11,41
1100	6,02	6,66	7,28	7,90	8,51	9,10	9,67	10,24	10,78	11,31	12,32
1200	6,54	7,23	7,90	8,56	9,20	9,83	10,44	11,03	11,59	12,14	13,16
1300	7,06	7,79	8,51	9,20	9,88	10,54	11,17	11,78	12,36	12,92	13,93
1400		8,34	9,10	9,83	10,54	11,22	11,87	12,49	13,08	13,63	14,63
1425		8,48	9,24	9,98	10,70	11,38	12,04	12,66	13,25	13,80	14,79
1500		8,88	9,67	10,44	11,17	11,87	12,53	13,16	13,75	14,29	15,24
1600		9,41	10,24	11,03	11,78	12,49	13,16	13,78	14,36	14,88	15,76
1700		9,93	10,78	11,59	12,36	13,08	13,75	14,36	14,91	15,40	16,18
1800			11,31	12,14	12,92	13,63	14,29	14,88	15,40	15,85	16,50
1900			11,82	12,66	13,44	14,15	14,79	15,35	15,83	16,22	16,72
2000			12,32	13,16	13,93	14,63	15,24	15,76	16,18	16,36	16,82
2100			12,79	13,63	14,39	15,06	15,64	16,10	16,46	16,50	16,80
2200			13,24	14,08	14,82	15,46	15,98	16,39	16,66	16,70	16,65
2300			13,67	14,49	15,21	15,80	16,27	16,60	16,79	16,81	16,37
2400			14,08	14,88	15,56	16,10	16,50	16,75	16,82	16,82	15,96
2500			14,46	15,24	15,87	16,35	16,67	16,82	16,77	16,72	15,40
2600			14,82	15,56	16,14	16,55	16,78	16,81	16,63	16,53	16,69
2700			15,15	15,85	16,37	16,70	16,82	16,72	16,39	15,80	13,82
2800				16,10	16,55	16,79	16,80	16,56	16,05	15,27	12,79
2850				16,22	16,63	16,81	16,76	16,44	15,84	14,95	12,22
2900				16,32	16,69	16,82	16,70	16,30	15,61	14,61	11,60
3000				16,50	16,78	16,80	16,53	15,96	15,06	13,82	10,23
3200				16,75	16,81	16,56	15,96	14,99	13,63	11,85	
3400				16,82	16,63	16,05	15,06	13,63	11,72		
3600				16,72	16,22	15,27	13,82	11,85			
3800				16,44	15,58	14,19	12,22				
4000				15,96	14,69	12,79	10,23				
4200				15,27	13,53	11,07					
4400				14,36	12,10						
4500				13,82	11,27						

Under these conditions life's reduction is expected.

Under these conditions linear speed exceeds 30 m/s, we suggest to use special pulleys.

Both of the above conditions exist.

MEGASYNC™



MEGADYNE MEGASYNC™

XXH

BASIC PERFORMANCE Pb IN kW FOR MEGASYNC XXH - 25 mm WIDE (kW / 25 mm)

D (mm)	181,91	202,13	222,34	242,55	262,76	303,19	343,62	404,25
Z	18	20	22	24	26	30	34	40
RPM								
100	0,98	1,09	1,19	1,30	1,41	1,63	1,84	2,17
200	1,95	2,17	2,38	2,60	2,81	3,24	3,67	4,31
300	2,92	3,24	3,57	3,89	4,21	4,84	5,47	6,41
400	3,89	4,31	4,74	5,16	5,58	6,41	7,24	8,45
500	4,84	5,37	5,89	6,41	6,93	7,94	8,94	10,39
600	5,79	6,41	7,03	7,64	8,25	9,43	10,58	12,22
700	6,72	7,44	8,15	8,84	9,53	10,86	12,13	13,91
725	6,95	7,69	8,42	9,14	9,84	11,20	12,50	14,31
800	7,64	8,45	9,23	10,01	10,76	12,22	13,58	15,45
900	8,54	9,43	10,29	11,13	11,95	13,50	14,93	16,80
950	8,99	9,91	10,81	11,68	12,52	14,11	15,55	17,40
1000	9,43	10,39	11,32	12,22	13,08	14,70	16,15	17,95
1100	10,29	11,32	12,30	13,25	14,15	15,80	17,23	18,88
1200	11,13	12,22	13,25	14,23	15,15	16,80	18,16	19,56
1300	11,95	13,08	14,15	15,15	16,08	17,69	18,92	19,97
1400		13,91	15,00	16,01	16,93	18,45	19,50	20,08
1425		14,11	15,21	16,22	17,12	18,62	19,92	20,06
1500		14,70	15,80	16,80	17,69	19,07	19,89	19,88
1600		15,45	16,55	17,52	18,35	19,56	20,07	19,34
1700		16,15	17,23	18,16	18,92	19,89	20,03	18,44
1800		16,80	17,85	18,71	19,38	20,06	19,75	17,15
1900		17,40	18,40	19,18	19,73	20,06	19,23	15,46
2000		17,45	18,88	19,56	19,97	19,88	18,44	13,34
2100		18,45	19,29	19,84	20,08	19,51	17,37	10,77
2200		18,88	19,61	20,01	20,05	18,93	16,01	
2300		19,25	19,86	20,08	19,90	18,15	14,35	
2400		19,56	20,01	20,04	19,60	17,15	12,37	
2500		19,80	20,08	19,88	19,15	15,92	10,05	
2600		19,97	20,05	19,60	18,54	14,46		
2700		20,06	19,93	19,19	17,78	12,74		
2800		20,08	19,71	18,65	16,85	10,77		
2850		20,06	19,55	18,33	16,32			
2900		20,02	19,37	17,97	15,74			
3000		19,88	18,93	17,15	14,56			
3100		19,65	18,38	16,19	12,99			
3200		19,34	17,71	15,07	11,32			
3300		18,89	16,93	13,80				
3400		18,44	16,01	12,37				
3500		17,84	14,97	10,77				

□ Under these conditions life's reduction is expected.

□ Under these conditions linear speed exceeds 30 m/s, we suggest to use special pulleys.

■ Both of the above conditions exist.

MEGASYNC™



MEGADYNE MEGASYNC™

STD & HTB



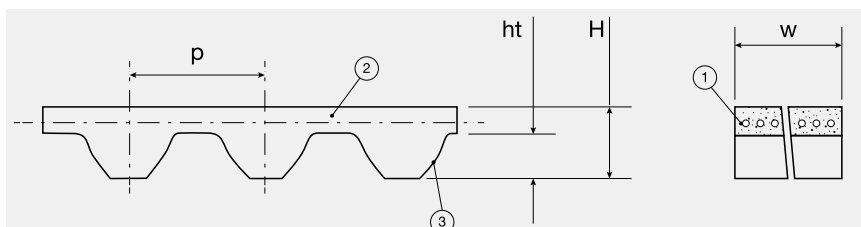
MEGADYNE MEGASYNC™

STD AND HTB

Megadyne MEGASYNC™ STD and HTB belts are a class of belt very widely used in several kinds of applications. These belts are made with polychloroprene compound. Special compounds with different features are available on request.

Here are some belt's characteristics.

STD



PITCH		STD 8M
Pitch length (mm)	p	8,00
Teeth height (mm)	ht	3,05
Belt height (mm)	H	5,30

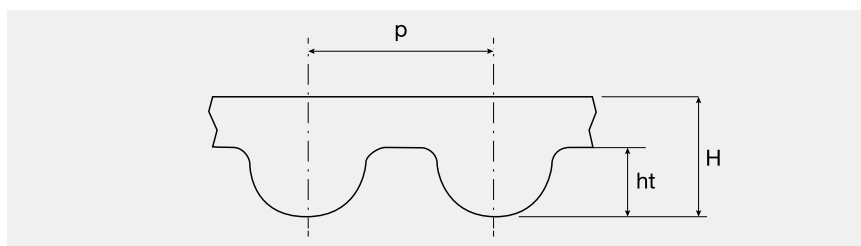
RESISTANCE TO: STD BELT RESISTANCE

Water	Medium
Acids / Alkalis	None
Solvents	None
Mineral oils	Low
Oils	Low
Greases	Medium
Fuels	None
Environmental agents	Medium

OTHER FEATURES

Temperature range	Min: -25 °C
	Max: 80 °C
	Max peak: 100 °C
Hardness	74 +/-4 ShA

HTB



PITCH		3M	5M	8M	14M
Pitch length (mm)	p	3,00	5,00	8,00	14,00
Teeth height (mm)	ht	1,21	2,08	3,38	6,02
Belt height (mm)	H	2,40	3,80	6,00	10,00

RESISTANCE TO: STD BELT RESISTANCE

Water	Medium
Acids / Alkalis	None
Solvents	None
Mineral oils	Low
Oils	Low
Greases	Medium
Fuels	None
Environmental agents	Medium

OTHER FEATURES

Temperature range	Min: -25 °C
	Max: 80 °C
	Max peak: 100 °C
Hardness	74 +/-4 ShA

MEGASYNC™

STD AND HTB - RANGE

STD 8		HTB 3M		HTB 5M		HTB 8M		HTB 14M	
CODE	PITCH LENGTH (mm)	CODE	PITCH LENGTH (mm)	CODE	PITCH LENGTH (mm)	CODE	PITCH LENGTH (mm)	CODE	PITCH LENGTH (mm)
656 STD8	656	171 HTB 3M	171	215 HTB 5M	215	288 HTB 8M	288	966 HTB 14M	966
800 STD8	800	174 HTB 3M	174	240 HTB 5M	240	480 HTB 8M	480	1064 HTB 14M	1064
720 STD8	720	177 HTB 3M	177	270 HTB 5M	270	536 HTB 8M	536	1190 HTB 14M	1190
760 STD8	760	216 HTB 3M	216	320 HTB 5M	320	560 HTB 8M	560	1344 HTB 14M	1344
840 STD8	840	225 HTB 3M	225	340 HTB 5M	340	600 HTB 8M	600	1400 HTB 14M	1400
848 STD8	848	246 HTB 3M	246	350 HTB 5M	350	616 HTB 8M	616	1456 HTB 14M	1456
880 STD8	880	255 HTB 3M	255	355 HTB 5M	355	632 HTB 8M	632	1512 HTB 14M	1512
896 STD8	896	264 HTB 3M	264	375 HTB 5M	375	640 HTB 8M	640	1540 HTB 14M	1540
920 STD8	920	276 HTB 3M	276	385 HTB 5M	385	656 HTB 8M	656	1610 HTB 14M	1610
936 STD8	936	285 HTB 3M	285	400 HTB 5M	400	720 HTB 8M	720	1764 HTB 14M	1764
960 STD8	960	300 HTB 3M	300	420 HTB 5M	420	760 HTB 8M	760	1778 HTB 14M	1778
976STD8	976	306 HTB 3M	306	450 HTB 5M	450	800 HTB 8M	800	1890 HTB 14M	1890
1000 STD8	1000	312 HTB 3M	312	475 HTB 5M	475	840 HTB 8M	840	2100 HTB 14M	2100
1040 STD8	1040	318 HTB 3M	318	500 HTB 5M	500	856 HTB 8M	856	2310 HTB 14M	2310
1056 STD8	1056	336 HTB 3M	336	520 HTB 5M	520	880 HTB 8M	880	2450 HTB 14M	2450
1064 STD8	1064	375 HTB 3M	375	525 HTB 5M	525	912 HTB 8M	912	2590 HTB 14M	2590
1080 STD8	1080	420 HTB 3M	420	535 HTB 5M	535	920 HTB 8M	920	2800 HTB 14M	2800
1096 STD8	1096	447 HTB 3M	447	540 HTB 5M	540	960 HTB 8M	960	3150 HTB 14M	3150
1104 STD8	1104	483 HTB 3M	483	550 HTB 5M	550	1000 HTB 8M	1000	3360 HTB 14M	3360
1120 STD8	1120	501 HTB 3M	501	560 HTB 5M	560	1040 HTB 8M	1040	3500 HTB 14M	3500
1152 STD8	1152	537 HTB 3M	537	575 HTB 5M	575	1080 HTB 8M	1080	3850 HTB 14M	3850
1160 STD8	1160	558 HTB 3M	558	615 HTB 5M	615	1120 HTB 8M	1120	4326 HTB 14M	4326
1168 STD8	1168	564 HTB 3M	564	630 HTB 5M	630	1152 HTB 8M	1152	4578 HTB 14M	4578
1184 STD8	1184	585 HTB 3M	585	635 HTB 5M	635	1200 HTB 8M	1200		
1200 STD8	1200	633 HTB 3M	633	645 HTB 5M	645	1224 HTB 8M	1224		
1216 STD8	1216	1002 HTB 3M	1002	655 HTB 5M	655	1256 HTB 8M	1256		
1224 STD8	1224			670 HTB 5M	670	1280 HTB 8M	1280		
1248 STD8	1248			710 HTB 5M	710	1304 HTB 8M	1304		
1256 STD8	1256			740 HTB 5M	740	1360 HTB 8M	1360		
1280 STD8	1280			750 HTB 5M	750	1400 HTB 8M	1400		
1304 STD8	1304			770 HTB 5M	770	1440 HTB 8M	1440		
1320 STD8	1320			800 HTB 5M	800	1552 HTB 8M	1552		
1328 STD8	1328			825 HTB 5M	825	1600 HTB 8M	1600		
1344 STD8	1344			835 HTB 5M	835	1760 HTB 8M	1760		
1352 STD8	1352			850 HTB 5M	850	1800 HTB 8M	1800		
1360 STD8	1360			890 HTB 5M	890	2000 HTB 8M	2000		
1384 STD8	1384			900 HTB 5M	900	2032 HTB 8M	2032		
1400 STD8	1400			925 HTB 5M	925	2104 HTB 8M	2104		
1408 STD8	1408			950 HTB 5M	950	2240 HTB 8M	2240		
1424 STD8	1424			965 HTB 5M	965	2400 HTB 8M	2400		
1440 STD8	1440			980 HTB 5M	980	2600 HTB 8M	2600		
1552 STD8	1552			1000 HTB 5M	1000	2800 HTB 8M	2800		
1728 STD8	1728			1050 HTB 5M	1050	4400 HTB 8M	4400		
1800 STD8	1800			1145 HTB 5M	1145				
1912 STD8	1912			1160 HTB 5M	1160				
2304 STD8	2304			1225 HTB 5M	1225				
2000 STD8	2000			1250 HTB 5M	1250				
				1270 HTB 5M	1270				
				1350 HTB 5M	1350				
				1400 HTB 5M	1400				
				1420 HTB 5M	1420				
				1500 HTB 5M	1500				
				1595 HTB 5M	1595				
				2000 HTB 5M	2000				
				2100 HTB 5M	2100				



MEGADYNE MEGASYNC™

RPP & RPP DD



MEGADYNE MEGASYNC™

RPP AND RPP DD

Megadyne MEGASYNC™ RPP and RPP DD belts are a high-power and high-precision class of belt. Compared to MEGASYNC™ Imperial, they can transmit more power in the same width or can allow a reduction of width to transmit the same power. This kind of belt uses a parabolic profile with the purpose to transmit more power and reduce the kind of accidents as tooth jump and to reduce noise.

The parabolic profile has a progressive pressure angle since the tooth root up to the top. This allows to have a taller tooth with the same pitch length. These two features lead to the following advantages:

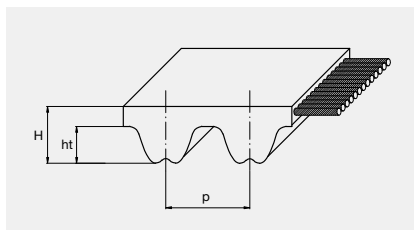
- Reduction interference between the pulley and the belt and its related wearing coming from the torque peaks;
- Less noise;
- More resistance to tooth jump and to tooth shear;
- Higher transmittable torques;
- Less pre-tension.

Looking at the tooth design, it has a groove on the top. This allows a local deformation leading to the following advantages:

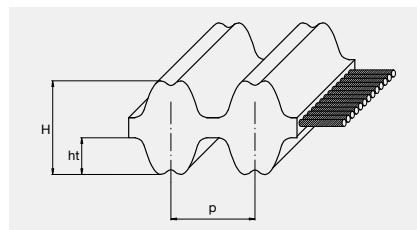
- A smoother engagement;
- A better meshing of the tooth in the pulley groove;
- A more uniform sharing of engaging teeth's stress;
- Less noise because of the smoother engagement;
- Less wearing because of the less slippage during engagement.

RPP profile have been designed even to be interchangeable with existing deep groove profiles and run on pulleys according to ISO 13050.

RPP



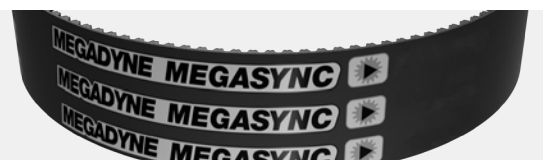
RPP DD



PITCH		RPP3	RPP5	RPP8	RPP14	RPP5 DD	RPP8 DD	RPP14 DD
Pitch length (mm)	p	3,00	5,00	8,00	14,00	5,00	8,00	14,00
Teeth height (mm)	ht	1,15	2,00	3,20	6,00	2,00	3,20	5,70
Belt height (mm)	H	2,40	3,80	5,40	9,70	5,20	7,80	14,00

RESISTANCE TO:	STD BELT RESISTANCE
Water	Medium
Acids / Alkalis	None
Solvents	None
Mineral oils	Low
Oils	Low
Greases	Medium
Fuels	None
Environmental agents	Medium

OTHER FEATURES
Temperature range
Min: -25 °C
Max: 80 °C
Max peak: 100 °C
Hardness
74 +/-4 ShA



MEGADYNE MEGASYNC™

RPP AND RPP DD

STANDARD TOLERANCES

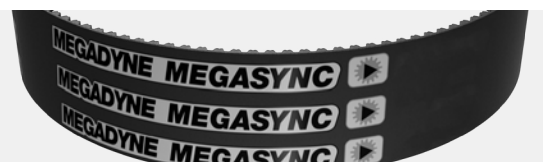
WIDTH TOLERANCES				
BELT WIDTH (mm)		TOLERANCE ON BELT WIDTH		
		BELT LENGTH (mm)		
MORE THAN	UP TO	UP TO 838	MORE THAN 838 UP TO 1676	MORE THAN 1676
-	11,10	+0,5 / -0,8	+0,5 / 0,8	-
11,10	38,10	±0,8	+0,8 / -1,3	+0,8 / -1,3
38,10	50,80	+0,8 / -1,3	±1,3	+1,3 / -1,5
50,80	76,20	+1,3 / -1,5	±1,5	+1,5 / -2,0
76,20	170,00	+1,3 / -1,5	+1,3 / -2,0	±2,0

LENGTH TOLERANCES				
BELT LENGTH [mm]		TOLERANCE (mm)	CENTER DISTANCE TOLERANCE (mm)	
MORE THAN	UP TO			
254	381	±0,45		±0,225
381	508	±0,50		±0,250
508	762	±0,60		±0,300
762	991	±0,65		±0,325
991	1,220	±0,75		±0,375
1,220	1,524	±0,80		±0,400
1,524	1,778	±0,85		±0,425
1,778	2,032	±0,90		±0,450
2,032	2,286	±0,95		±0,475
over 2,286		$\pm \left[0,95 + \left(\frac{L - 2286}{254} \cdot 0,03 \right) \right]$		$\pm \left[0,475 + \left(\frac{L - 2286}{254} \cdot 0,015 \right) \right]$

THICKNESS TOLERANCES				
PITCH	NOMINAL BELT THICKNESS (mm)	TOLERANCE DEGREE (mm)		
		STANDARD BELT	GRADE 2	GRADE 1
RPP3	2,40	±0,60	±0,25	±0,15
RPP5	3,80	±0,60	±0,25	±0,15
RPP8	5,40	±0,60	±0,25	±0,15
RPP14	9,70	±0,60	±0,25	±0,15

For specific application, where you might require different tolerances, please contact our Application Department.

STANDARD WIDTHS												
PITCH	BELT WIDTHS (mm)											
	6	9	15	20	25	30	40	50	55	85	115	170
RPP3	•	•	•									
RPP5 / RPP5 DD		•	•		•							
RPP8 / RPP8 DD				•		•		•		•		
RPP14 / RPP14 DD							•		•	•	•	•

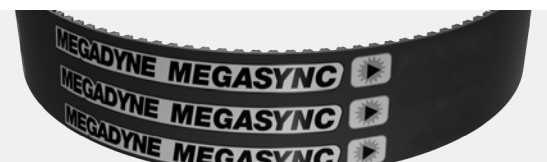


MEGADYNE MEGASYNC™

RPP3

BASIC PERFORMANCE Pb IN W FOR MEGASYNC RPP3 - 6 mm WIDE (W / 6 mm)

D (mm)	9,55	11,46	13,37	15,28	17,19	19,10	22,92	26,74	30,56	38,2	45,84	53,48	61,12	68,75	76,39
Z	10	12	14	16	18	20	24	28	32	40	48	56	64	72	80
RPM															
10	1	1	1	1	2	2	2	3	3	4	5	6	8	9	10
20	1	2	2	2	3	3	4	5	6	7	9	11	13	15	17
30	2	2	3	3	4	4	5	6	7	10	12	15	17	20	22
50	3	3	4	5	5	6	8	9	11	14	18	21	25	29	33
70	3	4	5	6	7	8	10	12	14	18	23	28	32	37	42
100	5	6	7	8	9	10	13	16	18	24	30	36	42	49	55
200	8	10	11	13	16	18	22	26	31	40	50	61	71	82	93
300	10	13	16	18	21	24	30	36	42	55	68	82	96	111	126
400	13	16	19	23	26	30	37	44	62	80	100	120	141	163	185
500	15	19	23	27	31	35	44	52	71	92	115	138	162	187	212
600	17	22	26	31	35	40	50	60	79	103	129	155	182	209	237
700	20	24	29	34	40	45	56	67	87	114	142	171	201	231	262
800	22	27	32	38	44	50	62	75	96	125	155	187	219	253	286
900	24	29	35	42	48	54	68	81	103	135	168	202	237	273	310
1000	26	32	38	45	52	59	73	88	111	145	181	217	255	293	332
1100	28	34	41	48	56	63	79	95	119	155	193	232	272	313	355
1200	29	37	44	52	59	67	84	101	126	164	204	246	288	332	376
1300	31	39	47	55	63	72	89	107	133	174	216	260	305	351	397
1400	33	41	49	58	67	76	94	113	140	183	227	273	321	369	418
1500	35	43	52	61	70	80	99	119	147	192	239	287	336	387	438
1600	36	45	55	64	74	84	104	125	154	201	250	300	352	404	458
1700	38	47	57	67	77	88	109	131	160	209	260	313	367	422	477
1800	40	50	60	70	81	91	114	137	167	218	271	326	381	438	496
1900	41	52	62	73	84	95	118	142	174	227	281	338	396	455	515
2000	43	54	64	76	87	99	123	148	199	259	322	386	452	519	586
2400	49	61	74	87	100	113	141	169	223	290	360	431	504	578	652
2800	55	69	83	97	112	127	158	190	246	320	396	474	553	633	713
3200	61	76	92	108	124	140	174	210	268	348	430	514	599	684	768
3600	67	83	100	117	135	153	190	229	289	375	463	552	642	731	819
4000	72	90	108	127	146	166	206	247	338	438	538	637	735	830	922
5000	85	106	128	150	172	195	242	290	384	493	602	707	808	903	989
6000	98	122	146	171	197	223	275	329	425	542	655	762	859	945	1017
7000	110	136	163	191	220	248	307	366	462	584	697	799	886	954	999
8000	121	150	180	210	241	273	336	399	522	644	745	818	858	858	813
10000	142	176	211	246	281	316	387	456	564	670	736	752	706	588	
12000	162	200	239	277	316	354	429	499	585	685	664	586			
14000	180	222	264	305	346	386	461	528							

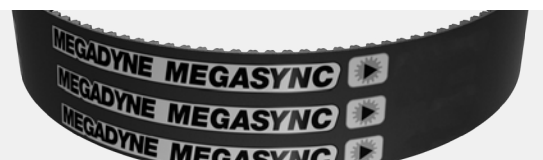


MEGADYNE MEGASYNC™

RPP5 - RPP5 DD

BASIC PERFORMANCE Pb IN W FOR MEGASYNC RPP5 AND RPP5 DD - 9 mm WIDE (W / 9 mm)

D (mm)	22,28	25,46	28,65	31,83	38,20	44,56	50,93	63,66	76,39	89,13	101,86	114,59	127,32	114,59	127,32
Z	14	16	18	20	24	28	32	36	40	44	48	56	64	72	80
RPM															
10	5	6	7	7	9	11	13	15	17	19	21	26	30	35	39
20	8	10	11	13	16	19	22	25	29	32	36	43	51	58	66
30	11	13	15	17	21	25	30	34	39	44	49	59	69	79	90
50	16	19	22	25	31	37	44	51	57	64	71	86	101	116	132
70	21	25	28	32	40	48	56	65	74	83	92	110	130	149	169
100	27	32	37	42	52	63	74	85	96	108	120	144	169	195	221
200	46	54	62	71	88	106	124	143	162	182	202	243	285	328	372
300	62	73	84	96	119	143	168	194	220	246	273	329	386	445	504
400	77	91	105	119	148	178	209	240	273	306	339	408	479	551	626
500	91	107	124	140	175	210	247	284	322	361	401	482	566	652	739
600	105	123	142	161	200	241	283	325	369	414	459	553	648	747	847
700	118	138	159	181	225	270	317	365	414	465	516	620	727	837	950
800	130	153	176	200	248	299	351	404	458	513	570	685	803	925	1048
900	142	167	192	218	271	326	383	441	500	560	622	748	877	1009	1143
1000	154	180	208	236	293	353	414	477	541	606	673	808	948	1090	1235
1100	165	194	223	253	315	379	445	519	581	651	722	867	1017	1169	1324
1200	176	207	238	270	336	404	474	546	619	694	770	925	1084	1246	1410
1300	187	220	253	287	357	429	504	580	657	736	817	981	1149	1320	1494
1400	198	232	267	303	377	454	532	612	694	778	862	1035	1212	1392	1575
1500	208	244	281	319	397	477	560	644	713	818	907	1089	1274	1463	1654
1600	219	256	295	335	417	501	587	676	776	858	951	1141	1335	1531	1731
1700	229	268	309	351	436	524	614	707	801	897	994	1192	1393	1598	1805
1800	239	280	322	366	455	547	641	737	835	935	1036	1241	1451	1663	1877
1900	249	292	336	381	473	569	667	767	869	972	1077	1290	1507	1726	1947
2000	258	303	349	396	492	591	692	896	902	1009	1117	1338	1562	1787	2014
2400	296	347	399	453	563	675	791	909	1028	1149	1271	1518	1767	2015	2263
2800	332	389	448	507	630	755	884	1014	1146	1279	1413	1682	1950	2215	2476
3200	366	429	494	559	694	831	971	1113	1256	1400	1543	1830	2112	2387	2652
3600	399	468	538	609	755	903	1054	1206	1359	1511	1663	1962	2252	2528	2789
4000	432	505	581	657	813	972	1132	1293	1453	1613	1770	2077	2368	2638	2883
5000	508	594	681	769	948	1128	1307	1484	1657	1825	1886	2286	2547	2759	
6000	578	675	773	871	1068	1262	1452	1635	1809	1971	2120	2372	2548		
7000	644	749	856	962	1171	1374	1566	1744	1905	2046	2164	2318	2347		
8000	704	818	931	1043	1259	1462	1646	1806	1939	2040	2105	2108	1914		
10000	811	935	1056	1171	1382	1559	1693	1776	1800	1756	1637				
12000	899	1026	1144	1252	1427	1538	1570	1507							
14000	966	1087	1193	1280	1386	1382	1248								



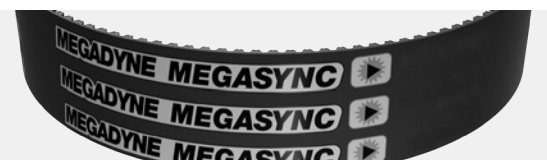
MEGADYNE MEGASYNC™

RPP8 - RPP8 DD

BASIC PERFORMANCE Pb IN kW FOR MEGASYNC RPP8 AND RPP8 DD - 20 mm WIDE (kW / 20 mm)

D (mm)	56,02	61,12	66,21	71,30	76,39	81,49	86,58	91,67	96,77	101,86	112,05	122,23	142,60	162,97	183,35	203,72
Z	22	24	26	28	30	32	34	36	38	40	44	48	56	64	72	80
RPM																
10	0,06	0,07	0,08	0,08	0,09	0,10	0,11	0,11	0,12	0,13	0,14	0,16	0,19	0,22	0,26	0,29
20	0,11	0,12	0,13	0,14	0,15	0,16	0,18	0,19	0,20	0,22	0,24	0,27	0,32	0,38	0,44	0,49
30	0,14	0,16	0,17	0,19	0,21	0,22	0,24	0,26	0,27	0,29	0,33	0,36	0,44	0,51	0,59	0,67
50	0,21	0,23	0,26	0,28	0,30	0,33	0,35	0,38	0,40	0,43	0,48	0,53	0,64	0,75	0,87	0,98
70	0,27	0,30	0,33	0,36	0,39	0,42	0,45	0,49	0,52	0,55	0,62	0,69	0,82	0,97	1,12	1,27
100	0,35	0,39	0,43	0,47	0,51	0,55	0,59	0,63	0,68	0,72	0,81	0,90	1,08	1,27	1,46	1,65
200	0,59	0,66	0,72	0,79	0,86	0,93	1,00	1,07	1,14	1,21	1,36	1,51	1,81	2,13	2,45	2,78
300	0,80	0,89	0,98	1,07	1,16	1,26	1,35	1,45	1,54	1,64	1,84	2,04	2,46	2,88	3,32	3,77
400	0,99	1,10	1,21	1,33	1,44	1,56	1,67	1,79	1,91	2,03	2,28	2,53	3,05	3,57	4,12	4,67
500	1,17	1,30	1,43	1,57	1,70	1,84	1,98	2,12	2,26	2,40	2,70	2,99	3,60	4,22	4,86	5,51
600	1,35	1,49	1,64	1,80	1,95	2,11	2,27	2,43	2,59	2,76	3,09	3,43	4,12	4,83	5,56	6,31
700	1,51	1,68	1,85	2,02	2,19	2,37	2,55	2,73	2,91	3,09	3,47	3,84	4,62	5,42	6,24	7,07
800	1,67	1,85	2,04	2,23	2,42	2,62	2,81	3,01	3,21	3,42	3,83	4,25	5,10	5,98	6,88	7,79
900	1,82	2,02	2,23	2,43	2,64	2,86	3,07	3,29	3,51	3,77	4,18	4,63	5,57	6,52	7,50	8,49
1000	1,97	2,19	2,41	2,63	2,86	3,09	3,32	3,55	3,79	4,03	4,52	5,01	6,01	7,04	8,09	9,16
1100	2,12	2,35	2,59	2,83	3,07	3,31	3,56	3,81	4,07	4,32	4,84	5,37	6,45	7,55	8,67	9,80
1200	2,26	2,51	2,76	3,01	3,27	3,54	3,80	4,07	4,34	4,61	5,16	5,72	6,87	8,03	9,22	10,42
1300	2,40	2,66	2,93	3,20	3,47	3,75	4,03	4,31	4,60	4,89	5,47	6,07	7,27	8,51	9,75	11,02
1400	2,53	2,81	3,09	3,38	3,67	3,96	4,26	4,56	4,86	5,16	5,78	6,40	7,67	8,96	10,27	11,59
1500	2,67	2,96	3,26	3,56	3,86	4,17	4,48	4,79	5,11	5,43	6,07	6,73	8,05	9,40	10,76	12,13
1600	2,80	3,10	3,41	3,73	4,05	4,37	4,69	5,02	5,35	5,69	6,36	7,04	8,43	9,83	11,24	12,66
1700	2,93	3,25	3,57	3,90	4,23	4,57	4,91	5,25	5,59	5,94	6,64	7,35	8,79	10,24	11,50	13,16
1800	3,05	3,39	3,72	4,07	4,41	4,76	5,11	5,47	5,83	6,19	6,92	7,65	9,14	10,64	11,70	13,60
1900	3,18	3,52	3,87	4,23	4,59	4,95	5,32	5,69	6,06	6,43	7,19	7,95	9,48	11,02	12,56	14,09
2000	3,30	3,66	4,02	4,39	4,76	5,14	5,52	5,90	6,28	6,67	7,45	8,23	9,81	11,39	12,97	15,52
2200	3,54	3,92	4,32	4,70	5,10	5,50	5,90	6,31	6,72	7,13	7,95	8,78	10,44	12,09	13,72	15,31
2400	3,77	4,18	4,59	5,00	5,42	5,85	6,27	6,70	7,13	7,56	8,43	9,30	11,03	12,73	14,39	16,00
2600	3,99	4,42	4,86	5,30	5,74	6,18	6,63	7,08	7,53	7,98	8,88	9,78	11,57	13,31	14,99	16,59
2800	4,21	4,66	5,12	5,58	6,04	6,51	6,97	7,44	7,91	8,38	9,31	10,24	12,07	13,83	15,50	17,06
3000	4,42	4,90	5,37	5,85	6,33	6,82	7,30	7,79	8,27	8,76	9,72	10,67	12,52	14,29	15,93	17,43
3500	4,93	5,45	5,97	6,49	7,02	7,54	8,06	8,58	9,10	9,61	10,62	11,60	13,46	15,14		
4000					7,64	8,19	8,73	9,28	9,81	10,33	11,35	12,32	14,08			
4500						8,75	9,31	9,86	10,40	10,92	11,91	12,82				
5000							9,80	10,34	10,86	11,35	12,27	13,08				
5500									11,18	11,63	12,44					
6000									11,36	11,75	12,38					

MEGASYNC™

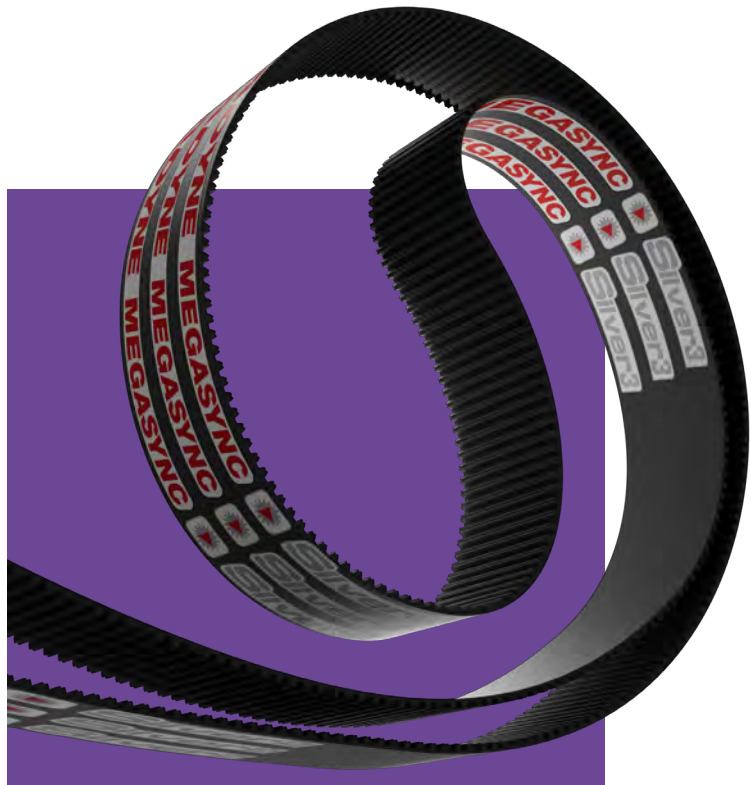


MEGADYNE MEGASYNC™

RPP14 - RPP14 DD

BASIC PERFORMANCE Pb IN kW FOR MEGASYNC RPP14 AND RPP14 DD - 40 mm WIDE (kW / 40 mm)

D (mm)	124,78	129,23	133,69	142,6	151,51	160,43	169,34	178,25	196,08	213,9	231,73	249,55	267,38	285,21	303,03	320,86	356,51
Z	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
RPM																	
10	0,43	0,45	0,47	0,51	0,54	0,58	0,62	0,66	0,74	0,82	0,91	0,99	1,08	1,16	1,25	1,34	1,52
20	0,73	0,76	0,79	0,85	0,92	0,98	1,05	1,11	1,25	1,38	1,52	1,67	1,81	1,96	2,10	2,25	2,56
30	0,98	1,03	1,07	1,15	1,24	1,33	1,42	1,51	1,69	1,88	2,07	2,26	2,45	2,65	2,85	3,05	3,46
50	1,44	1,50	1,57	1,69	1,82	1,95	2,08	2,21	2,48	2,75	3,03	3,31	3,60	3,89	4,18	4,48	5,08
70	1,86	1,94	2,02	2,18	2,34	2,51	2,68	2,85	3,19	3,54	3,90	4,26	4,63	5,00	5,38	5,76	6,54
100	2,42	2,53	2,63	2,85	3,06	3,28	3,50	3,72	4,17	4,63	5,10	5,57	6,05	6,54	7,03	7,53	8,54
200	4,08	4,25	4,43	4,79	5,15	5,51	5,88	6,25	7,01	7,78	8,57	9,36	10,17	10,99	11,81	12,65	14,35
300	5,52	5,76	6,00	6,48	6,97	7,47	7,97	8,47	9,50	10,54	11,60	12,67	13,76	14,87	15,98	17,11	19,41
400	6,85	7,14	7,44	8,04	8,64	9,26	9,87	10,50	11,77	13,06	14,37	15,69	17,04	18,40	19,78	21,17	23,99
500	8,09	8,44	8,79	9,49	10,21	10,93	11,66	12,39	13,89	15,40	16,94	18,50	20,08	21,68	23,30	24,92	28,22
600	9,27	9,67	10,07	10,87	11,69	12,51	13,34	14,19	15,89	17,62	19,37	21,15	22,94	24,75	26,58	28,42	32,15
700	10,39	10,84	11,28	12,19	13,10	14,02	14,95	15,89	17,79	19,71	21,67	23,64	25,63	27,64	29,66	31,70	35,80
800	11,47	11,96	12,45	13,45	14,45	15,46	16,48	17,51	19,60	21,71	23,84	26,00	28,17	30,36	32,55	34,76	39,19
900	12,51	13,04	13,58	14,66	15,75	16,85	17,95	19,07	21,33	23,61	25,91	28,23	30,57	32,91	35,26	37,62	42,32
1000	13,51	14,06	14,66	15,82	16,99	18,18	19,37	20,56	22,98	25,42	27,88	30,35	32,82	35,31	37,79	40,27	45,20
1100	14,48	15,10	15,71	16,95	18,20	19,45	20,72	21,99	24,56	27,14	29,74	32,34	34,95	37,55	40,14	42,72	47,81
1200	15,42	16,07	16,72	18,03	19,36	20,69	22,02	23,37	26,07	28,78	31,50	34,22	36,93	39,63	42,30	44,96	50,16
1300	16,33	17,02	17,70	19,08	20,47	21,87	23,28	24,68	27,51	30,34	33,17	35,98	38,78	41,55	44,29	46,98	52,23
1400	17,21	17,93	18,65	20,10	21,55	23,01	24,48	25,94	28,88	31,81	34,73	37,63	40,49	43,31	46,08	48,79	54,01
1500	18,07	18,82	19,57	21,08	22,59	24,11	25,63	27,16	30,18	33,20	36,20	39,15	42,05	44,90	47,67	50,37	55,48
1600	18,90	19,68	20,46	22,02	23,59	25,16	26,73	28,30	31,42	34,51	37,56	40,55	43,47	46,31	49,06	51,71	56,65
1700	19,70	20,50	21,31	22,93	24,55	26,17	27,78	29,39	32,58	35,73	38,81	41,82	44,73	47,55	50,24	52,81	57,49
1800	20,48	21,31	22,14	23,81	25,47	27,13	28,78	30,42	33,67	36,86	39,96	42,96	45,84	48,60	51,21	53,65	58,00
1900	21,23	22,08	22,94	24,65	26,35	28,05	29,73	31,40	34,69	37,90	40,99	43,96	46,79	49,46	51,94	54,23	58,15
2000	21,95	22,83	23,71	25,45	27,19	28,92	30,63	32,32	35,64	38,84	41,92	44,83	47,57	50,12	52,45		
2500	25,19	26,15	27,09	28,96	30,79	32,58	34,32	36,00	39,19	42,11	44,70	46,94					
3000			29,69	31,54	33,31	34,98	36,56	38,03									
3500			31,43	33,10	34,63	35,99	37,19	38,19									
4000				33,55	34,63												



MEGADYNE MEGASYNC™

SILVER3



MEGADYNE MEGASYNC™

SILVER3

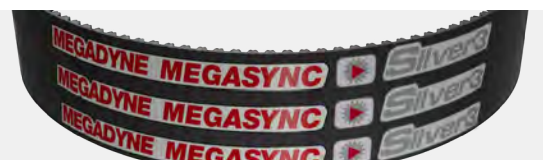
Megadyne MEGASYNC™ Silver3 belts have been developed to give a more powerful alternative to MEGASYNC™ RPP belts. Competing against high-performance transmission systems, using chains and gears, that always have disadvantages in terms of weight, noise, lubrication and maintenance costs.

Due to the greater power they can transmit, MEGASYNC™ Silver3 can be used to improve and easily upgrade existing drives working with MEGASYNC™. Interchangeability is the key factor to flexible approach when upgrading with MEGASYNC™ Silver, ensuring that the other key equipments component are able to handle the increased transmitted power.

The third generation of RPC Silver is made with materials of the highest quality and strength. Employing innovative manufacturing processes and techniques, the homogeneous construction of all components and a higher cohesive bond imparts superior torque capacity, thus positioning Silver3 at a high-performance level.

Silver3 offers a wealth of improved properties and is distinguished above all by the increased power capacity. Thanks to the use of “state-of-the-art” materials, Silver3 is particularly recommended for efficient and compact drives which experience high starting torques and allow the design more flexibility due to the following advantages:

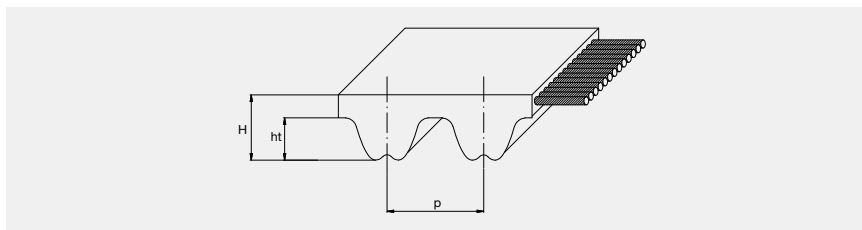
- 1.** Increase of power load capacity by up to +20%, compared to the previous Silver2; consequently more compact and lightweight drives are possible under the same power rating
- 2.** Break the equation “More Performance”=“More Cost”, as Silver3 retains the same selling price of the previous Silver2 generation, while offering a consistent improvement in performance
- 3.** Allows the existing RPP and Silver2 systems to be upgraded without the necessity to replace the pulleys; thus extending the service life of existing drives at zero-cost. Silver3 belts are available in 5M, 8M and 14M pitches, with the same range of lengths of the previous Silver generation. Each type is available both in sleeves and single belts, maintaining the same basic dimensions and widths.
- 4.** MEGASYNC™ Silver3 belts have RPC profile, designed to be interchangeable with existing deep groove profiles and run on pulleys according to ISO 13050.
- 5.** MEGASYNC™ Silver3 5M, 8M and 14M belts are antistatic according to ISO 9563.



MEGADYNE MEGASYNC™

SILVER3

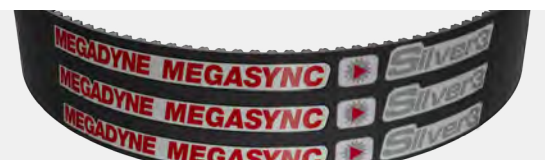
SILVER3



PITCH		SILVER3 5M	SILVER3 8M	SILVER3 14M
Pitch length (mm)	p	5,00	8,00	14,00
Teeth height (mm)	ht	2,00	3,20	6,00
Belt height (mm)	H	3,80	5,40	9,70

RESISTANCE TO: STD BELT RESISTANCE	
Water	Medium
Acids / Alkalis	None
Solvents	None
Mineral oils	Low
Oils	Low
Greases	Medium
Fuels	None
Environmental agents	Medium

OTHER FEATURES	
Temperature range	Min: -25 °C
	Max: 80 °C
	Max peak: 100 °C
Hardness	90 +/-4 ShA
Antistatic (for 8M and 14M)	According to ISO 9563



MEGADYNE MEGASYNC™

SILVER3

STANDARD TOLERANCES

WIDTH TOLERANCES				
BELT WIDTH (mm)		TOLERANCE ON BELT WIDTH		
		BELT LENGTH (mm)		
MORE THAN	UP TO	UP TO 838	MORE THAN 838 UP TO 1676	MORE THAN 1676
-	11,10	+0,5 / -0,8	+0,5 / 0,8	-
11,10	38,10	±0,8	+0,8 / -1,3	+0,8 / -1,3
38,10	50,80	+0,8 / -1,3	±1,3	+1,3 / -1,5
50,80	76,20	+1,3 / -1,5	±1,5	+1,5 / -2,0
76,20	170,00	+1,3 / -1,5	+1,3 / -2,0	±2,0

LENGTH TOLERANCES			
BELT LENGTH (mm)		TOLERANCE (mm)	CENTER DISTANCE TOLERANCE (mm)
MORE THAN	UP TO		
254	381	±0,45	±0,225
381	508	±0,50	±0,250
508	762	±0,60	±0,300
762	991	±0,65	±0,325
991	1,220	±0,75	±0,375
1,220	1,524	±0,80	±0,400
1,524	1,778	±0,85	±0,425
1,778	2,032	±0,90	±0,450
2,032	2,286	±0,95	±0,475
over 2,286		$\pm \left[0,95 + \left(\frac{L - 2286}{254} \cdot 0,03 \right) \right]$	$\pm \left[0,475 + \left(\frac{L - 2286}{254} \cdot 0,015 \right) \right]$

THICKNESS TOLERANCES				
PITCH	NOMINAL BELT THICKNESS (mm)	TOLERANCE DEGREE (mm)		
		STANDARD BELT	GRADE 2	GRADE 1
SLV3 5M	3,80	±0,60	±0,25	±0,15
SLV3 8M	5,40	±0,60	±0,25	±0,15
SLV3 14M	9,70	±0,60	±0,25	±0,15

For specific application, where you might require different tolerances, please contact our Application Department.

STANDARD WIDTHS											
PITCH	BELT WIDTHS (mm)										
	9	15	20	25	30	40	50	55	85	115	170
SLV3 5M	•	•		•							
SLV3 8M			•		•		•		•		
SLV3 14M						•		•	•	•	•

SILVER3 - RANGE

SILVER3 5M	
CODE	PITCH LENGTH (mm)
180 SLV3 5M	180
225 SLV3 5M	225
235 SLV3 5M	235
245 SLV3 5M	245
255 SLV3 5M	255
265 SLV3 5M	265
270 SLV3 5M	270
280 SLV3 5M	280
285 SLV3 5M	285
295 SLV3 5M	295
300 SLV3 5M	300
305 SLV3 5M	305
325 SLV3 5M	325
330 SLV3 5M	330
345 SLV3 5M	345
350 SLV3 5M	350
375 SLV3 5M	375
400 SLV3 5M	400
420 SLV3 5M	420
425 SLV3 5M	425
450 SLV3 5M	450
455 SLV3 5M	455
460 SLV3 5M	460
465 SLV3 5M	465
475 SLV3 5M	475
500 SLV3 5M	500
525 SLV3 5M	525
535 SLV3 5M	535
565 SLV3 5M	565
575 SLV3 5M	575
580 SLV3 5M	580
600 SLV3 5M	600
610 SLV3 5M	610
615 SLV3 5M	615
635 SLV3 5M	635
640 SLV3 5M	640
650 SLV3 5M	650
670 SLV3 5M	670
675 SLV3 5M	675
700 SLV3 5M	700
705 SLV3 5M	705
710 SLV3 5M	710
725 SLV3 5M	725
740 SLV3 5M	740
750 SLV3 5M	750
755 SLV3 5M	755
800 SLV3 5M	800
835 SLV3 5M	835
850 SLV3 5M	850
890 SLV3 5M	890
900 SLV3 5M	900
935 SLV3 5M	935
940 SLV3 5M	940
950 SLV3 5M	950
980 SLV3 5M	980
1000 SLV3 5M	1000
1025 SLV3 5M	1025
1050 SLV3 5M	1050
1100 SLV3 5M	1100
1125 SLV3 5M	1125
1135 SLV3 5M	1135
1195 SLV3 5M	1195

SILVER3 5M	
CODE	PITCH LENGTH (mm)
1200 SLV3 5M	1200
1240 SLV3 5M	1240
1270 SLV3 5M	1270
1420 SLV3 5M	1420
1500 SLV3 5M	1500
1595 SLV3 5M	1595
1605 SLV3 5M	1605
1690 SLV3 5M	1690
1790 SLV3 5M	1790
1800 SLV3 5M	1800
1870 SLV3 5M	1870
1895 SLV3 5M	1895
1945 SLV3 5M	1945
2000 SLV3 5M	2000
2250 SLV3 5M	2250
2350 SLV3 5M	2350
2525 SLV3 5M	2525

SILVER3 8M	
CODE	PITCH LENGTH (mm)
248 SLV3 8M	248
288 SLV3 8M	288
320 SLV3 8M	320
352 SLV3 8M	352
360 SLV3 8M	360
376 SLV3 8M	376
384 SLV3 8M	384
408 SLV3 8M	408
416 SLV3 8M	416
424 SLV3 8M	424
456 SLV3 8M	456
480 SLV3 8M	480
536 SLV3 8M	536
544 SLV3 8M	544
560 SLV3 8M	560
600 SLV3 8M	600
608 SLV3 8M	608
632 SLV3 8M	632
640 SLV3 8M	640
680 SLV3 8M	680
720 SLV3 8M	720
760 SLV3 8M	760
800 SLV3 8M	800
840 SLV3 8M	840
880 SLV3 8M	880
896 SLV3 8M	896
920 SLV3 8M	920
960 SLV3 8M	960
976 SLV3 8M	976
1000 SLV3 8M	1000
1040 SLV3 8M	1040
1064 SLV3 8M	1064
1080 SLV3 8M	1080
1120 SLV3 8M	1120
1160 SLV3 8M	1160
1200 SLV3 8M	1200
1224 SLV3 8M	1224
1280 SLV3 8M	1280
1352 SLV3 8M	1352

SILVER3 8M	
CODE	PITCH LENGTH (mm)
1424 SLV3 8M	1424
1440 SLV3 8M	1440
1464 SLV3 8M	1464
1512 SLV3 8M	1512
1584 SLV3 8M	1584
1600 SLV3 8M	1600
1680 SLV3 8M	1680
1760 SLV3 8M	1760
1800 SLV3 8M	1800
1904 SLV3 8M	1904
2000 SLV3 8M	2000
2200 SLV3 8M	2200
2240 SLV3 8M	2240
2272 SLV3 8M	2272
2400 SLV3 8M	2400
2520 SLV3 8M	2520
2600 SLV3 8M	2600
2800 SLV3 8M	2800
2840 SLV3 8M	2840
3048 SLV3 8M	3048
3200 SLV3 8M	3200
3280 SLV3 8M	3280
3600 SLV3 8M	3600
4000 SLV3 8M	4000
4400 SLV3 8M	4400

SILVER3 14M	
CODE	PITCH LENGTH (mm)
966 SLV3 14M	966
994 SLV3 14M	994
1092 SLV3 14M	1092
1106 SLV3 14M	1106
1120 SLV3 14M	1120
1190 SLV3 14M	1190
1260 SLV3 14M	1260
1288 SLV3 14M	1288
1344 SLV3 14M	1344
1400 SLV3 14M	1400
1442 SLV3 14M	1442
1512 SLV3 14M	1512
1568 SLV3 14M	1568
1610 SLV3 14M	1610
1750 SLV3 14M	1750
1764 SLV3 14M	1764
1778 SLV3 14M	1778
1848 SLV3 14M	1848
1890 SLV3 14M	1890
1904 SLV3 14M	1904
1960 SLV3 14M	1960
2100 SLV3 14M	2100
2240 SLV3 14M	2240
2310 SLV3 14M	2310
2380 SLV3 14M	2380
2450 SLV3 14M	2450
2520 SLV3 14M	2520
2590 SLV3 14M	2590
2660 SLV3 14M	2660
2800 SLV3 14M	2800
2968 SLV3 14M	2968

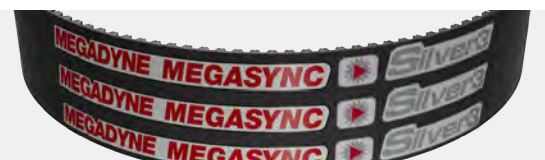
SILVER3 14M	
CODE	PITCH LENGTH (mm)
3136 SLV3 14M	3136
3150 SLV3 14M	3150
3304 SLV3 14M	3304
3360 SLV3 14M	3360
3500 SLV3 14M	3500
3850 SLV3 14M	3850
3920 SLV3 14M	3920
4326 SLV3 14M	4326
4410 SLV3 14M	4410
4578 SLV3 14M	4578
4956 SLV3 14M	4956

SILVER3 8DD*	
CODE	PITCH LENGTH (mm)
600 SLV3-8DD	600
608 SLV3-8DD	608
632 SLV3-8DD	632
640 SLV3-8DD	640
680 SLV3-8DD	680
720 SLV3-8DD	720
760 SLV3-8DD	760
800 SLV3-8DD	800
840 SLV3-8DD	840
880 SLV3-8DD	880
896 SLV3-8DD	896
920 SLV3-8DD	920
960 SLV3-8DD	960
1000 SLV3-8DD	1000
1040 SLV3-8DD	1040
1080 SLV3-8DD	1080
1120 SLV3-8DD	1120
1200 SLV3-8DD	1200
1224 SLV3-8DD	1224
1280 SLV3-8DD	1280
1352 SLV3-8DD	1352
1424 SLV3-8DD	1424
1440 SLV3-8DD	1440
1464 SLV3-8DD	1464
1600 SLV3-8DD	1600
1680 SLV3-8DD	1680
1760 SLV3-8DD	1760
1792 SLV3-8DD	1792
1800 SLV3-8DD	1800
1904 SLV3-8DD	1904
2000 SLV3-8DD	2000
2200 SLV3-8DD	2200
2240 SLV3-8DD	2240
2272 SLV3-8DD	2272
2400 SLV3-8DD	2400
2520 SLV3-8DD	2520
2600 SLV3-8DD	2600
2800 SLV3-8DD	2800
2840 SLV3-8DD	2840
3048 SLV3-8DD	3048
3200 SLV3-8DD	3200
3280 SLV3-8DD	3280
3600 SLV3-8DD	3600
4000 SLV3-8DD	4000
4400 SLV3-8DD	4400

SILVER3 14DD*	
CODE	PITCH LENGTH (mm)
966 SLV3-14DD	966
994 SLV3-14DD	994
1092 SLV3-14DD	1092
1106 SLV3-14DD	1106
1120 SLV3-14DD	1120
1190 SLV3-14DD	1190
1260 SLV3-14DD	1260
1288 SLV3-14DD	1288
1344 SLV3-14DD	1344
1400 SLV3-14DD	1400
1442 SLV3-14DD	1442
1568 SLV3-14DD	1568
1610 SLV3-14DD	1610
1750 SLV3-14DD	1750
1764 SLV3-14DD	1764
1778 SLV3-14DD	1778
1848 SLV3-14DD	1848
1890 SLV3-14DD	1890
1904 SLV3-14DD	1904
1960 SLV3-14DD	1960
2100 SLV3-14DD	2100
2240 SLV3-14DD	2240
2310 SLV3-14DD	2310
2380 SLV3-14DD	2380
2450 SLV3-14DD	2450
2520 SLV3-14DD	2520
2590 SLV3-14DD	2590
2660 SLV3-14DD	2660
2800 SLV3-14DD	2800
2968 SLV3-14DD	2968
3136 SLV3-14DD	3136
3150 SLV3-14DD	3150
3304 SLV3-14DD	3304
3360 SLV3-14DD	3360
3500 SLV3-14DD	3500
3850 SLV3-14DD	3850
3920 SLV3-14DD	3920
4326 SLV3-14DD	4326
4410 SLV3-14DD	4410
4578 SLV3-14DD	4578
4956 SLV3-14DD	4956

(*) ON DEMAND

TIMING BELTS



MEGADYNE MEGASYNC™

SILVER3 5M

BASIC PERFORMANCE Pb IN W FOR SILVER3 5M - 9 mm WIDE (W / 9 mm)

D (mm)	28,65	31,83	35,01	38,20	41,38	44,56	50,93	57,3	63,66	70,03	76,39	89,13	101,86	114,59	127,32
Z	18	20	22	24	26	28	32	36	40	44	48	56	64	72	80
RPM															
10	7	8	10	12	13	14	16	18	20	21	23	27	31	35	39
20	12	15	18	21	24	27	31	35	39	43	47	55	62	70	78
30	17	21	25	29	34	39	47	53	59	64	70	82	94	105	117
50	26	32	39	46	53	61	78	88	98	107	117	136	156	175	195
70	35	43	51	61	71	81	105	123	136	150	164	191	218	246	273
100	48	58	70	82	96	110	142	175	195	214	234	273	312	351	390
200	86	105	126	149	173	200	257	300	333	367	400	467	533	600	667
300	122	149	179	211	245	282	363	450	500	550	600	700	800	900	1.000
400	156	191	229	269	314	361	465	581	667	733	800	933	1.066	1.200	1.333
500	189	231	277	326	380	437	562	703	833	916	1.000	1.166	1.333	1.499	1.665
600	221	270	323	381	444	510	657	822	1.000	1.100	1.200	1.399	1.599	1.798	1.998
700	252	308	369	435	506	582	750	937	1.144	1.283	1.399	1.632	1.865	2.097	2.330
800	283	345	413	487	567	653	840	1.051	1.283	1.466	1.599	1.865	2.131	2.396	2.661
900	312	381	457	539	627	722	929	1.162	1.418	1.649	1.798	2.097	2.396	2.694	2.992
1000	342	417	500	590	686	790	1.017	1.271	1.552	1.832	1.998	2.330	2.661	2.992	3.323
1100	371	453	542	640	744	857	1.103	1.379	1.683	2.014	2.197	2.562	2.926	3.290	3.653
1200	399	488	584	689	802	923	1.188	1.485	1.813	2.171	2.396	2.794	3.191	3.587	3.982
1300	428	522	626	738	858	988	1.272	1.590	1.941	2.325	2.595	3.025	3.455	3.883	4.310
1400	456	556	666	786	914	1.052	1.355	1.693	2.067	2.476	2.794	3.257	3.719	4.179	4.638
1500	483	590	707	833	970	1.116	1.437	1.796	2.192	2.626	2.992	3.488	3.982	4.474	4.964
1600	511	623	747	881	1.025	1.179	1.518	1.897	2.316	2.774	3.191	3.719	4.245	4.769	5.290
1700	538	657	786	927	1.079	1.241	1.598	1.998	2.438	2.920	3.389	3.949	4.507	5.062	5.615
1800	565	689	826	973	1.133	1.303	1.678	2.097	2.560	3.065	3.587	4.179	4.769	5.355	5.939
1900	591	722	865	1.019	1.186	1.365	1.757	2.195	2.680	3.209	3.783	4.409	5.030	5.647	6.261
2000	618	754	903	1.065	1.239	1.425	1.835	2.293	2.799	3.351	3.950	4.638	5.290	5.939	6.582
2400	705	861	1.031	1.216	1.414	1.627	2.094	2.616	3.192	3.822	4.504	5.550	6.325	7.094	7.854
2800	822	1.003	1.202	1.416	1.648	1.895	2.439	3.047	3.717	4.449	5.241	6.454	7.348	8.232	9.102
3000	872	1.064	1.274	1.501	1.747	2.009	2.585	3.228	3.938	4.712	5.551	6.903	7.854	8.793	9.716
3200	905	1.104	1.322	1.558	1.813	2.085	2.682	3.349	4.084	4.887	5.756	7.348	8.357	9.348	10.322
3600	1.017	1.241	1.485	1.750	2.036	2.341	3.011	3.758	4.582	5.481	6.454	8.232	9.348	10.442	11.509
4000	1.111	1.356	1.623	1.912	2.223	2.556	3.286	4.100	4.997	5.975	7.033	9.102	10.322	11.509	12.659
4500	1.227	1.496	1.790	2.109	2.451	2.817	3.620	4.515	5.500	6.572	7.731	10.171	11.509	12.801	
5000	1.339	1.633	1.953	2.300	2.673	3.072	3.945	4.916	5.985	7.147	8.403	11.183	12.659		
6000	1.557	1.897	2.267	2.668	3.099	3.558	4.563	5.679	6.902	8.231	9.661	12.816			
7000	1.764	2.148	2.566	3.017	3.500	4.016	5.141	6.386	7.747	9.221	10.802				
8000	1.962	2.387	2.848	3.345	3.878	4.444	5.676	7.036	8.517	10.113					
10000	2.329	2.826	3.364	3.940	4.555	5.206	6.613								
12000	2.655	3.211	3.808	4.446	5.121	5.832									
14000	2.937	3.536	4.176	4.853											

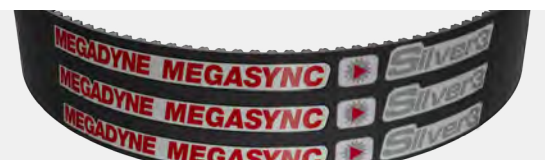


MEGADYNE MEGASYNC™

SILVER3 8M

BASIC PERFORMANCE IN kW FOR SILVER3 8M - 20 mm WIDE (kW / 20 mm)

D (mm)	56,02	61,12	66,21	71,30	76,39	81,49	86,58	91,67	96,77	101,86	112,05	122,23	142,60	162,97	183,35	203,72
Z	22	24	26	28	30	32	34	36	38	40	44	48	56	64	72	80
RPM																
10	0,07	0,08	0,09	0,09	0,10	0,11	0,11	0,12	0,13	0,13	0,15	0,16	0,19	0,21	0,24	0,27
20	0,15	0,16	0,17	0,19	0,20	0,21	0,23	0,24	0,25	0,27	0,29	0,32	0,37	0,43	0,48	0,53
30	0,22	0,24	0,26	0,28	0,30	0,32	0,34	0,36	0,38	0,40	0,44	0,48	0,56	0,64	0,72	0,80
50	0,35	0,39	0,43	0,47	0,50	0,53	0,57	0,60	0,63	0,67	0,73	0,80	0,93	1,07	1,20	1,33
70	0,47	0,53	0,60	0,65	0,70	0,75	0,79	0,84	0,89	0,93	1,03	1,12	1,31	1,49	1,68	1,87
100	0,66	0,74	0,83	0,92	1,00	1,07	1,13	1,20	1,27	1,33	1,47	1,60	1,87	2,13	2,40	2,67
200	1,25	1,41	1,58	1,75	1,92	2,11	2,27	2,40	2,53	2,67	2,93	3,20	3,73	4,27	4,80	5,33
300	1,81	2,05	2,29	2,54	2,80	3,07	3,34	3,60	3,80	4,00	4,40	4,80	5,60	6,40	7,20	8,00
400	2,37	2,67	2,99	3,32	3,65	4,00	4,35	4,72	5,07	5,33	5,87	6,40	7,46	8,53	9,59	10,66
500	2,91	3,29	3,68	4,08	4,49	4,92	5,35	5,80	6,25	6,66	7,33	8,00	9,33	10,66	11,99	13,32
600	3,44	3,89	4,35	4,83	5,32	5,82	6,33	6,86	7,40	7,95	8,80	9,59	11,19	12,79	14,38	15,97
700	3,97	4,49	5,02	5,57	6,13	6,71	7,30	7,91	8,53	9,17	10,26	11,19	13,05	14,91	16,77	18,63
800	4,49	5,08	5,68	6,30	6,94	7,59	8,26	8,95	9,66	10,37	11,72	12,79	14,91	17,04	19,16	21,27
900	5,01	5,66	6,33	7,02	7,73	8,46	9,21	9,98	10,76	11,57	13,19	14,38	16,77	19,16	21,54	23,91
1000	5,52	6,24	6,98	7,74	8,52	9,33	10,15	11,00	11,86	12,75	14,56	15,97	18,63	21,27	23,91	26,55
1100	6,03	6,81	7,62	8,45	9,31	10,19	11,09	12,01	12,95	13,92	15,90	17,57	20,48	23,38	26,28	29,17
1200	6,54	7,38	8,26	9,16	10,09	11,04	12,02	13,01	14,04	15,08	17,23	19,16	22,33	25,49	28,65	31,79
1300	7,04	7,95	8,89	9,86	10,86	11,88	12,94	14,01	15,11	16,23	18,54	20,74	24,18	27,60	31,01	34,40
1400	7,54	8,51	9,52	10,56	11,63	12,72	13,85	15,00	16,18	17,38	19,85	22,33	26,02	29,70	33,36	37,00
1460	7,83	8,85	9,90	10,98	12,09	13,23	14,40	15,59	16,81	18,06	20,63	23,28	27,12	30,95	34,77	38,56
1500	8,03	9,07	10,14	11,25	12,39	13,56	14,76	15,98	17,24	18,52	21,15	23,88	27,86	31,79	35,70	39,59
1600	8,52	9,63	10,77	11,94	13,15	14,39	15,66	16,96	18,29	19,65	22,44	25,34	29,70	33,88	38,04	42,17
1700	9,01	10,18	11,39	12,63	13,90	15,22	16,56	17,93	19,34	20,77	23,72	26,78	31,53	35,96	40,37	44,74
1800	9,50	10,73	12,00	13,31	14,66	16,04	17,45	18,90	20,38	21,89	25,00	28,22	33,36	38,04	42,69	47,30
1900	9,99	11,28	12,61	13,99	15,40	16,85	18,34	19,86	21,42	23,00	26,27	29,65	35,18	40,11	45,00	49,84
2000	10,47	11,82	13,22	14,66	16,15	17,67	19,22	20,82	22,45	24,11	27,53	31,07	37,00	42,17	47,30	52,37
2800	14,27	16,11	18,01	19,96	21,97	24,03	26,14	28,30	30,50	32,75	37,36	42,12	51,36	58,38	65,27	72,02
2920	14,83	16,74	18,71	20,74	22,83	24,97	27,16	29,40	31,68	34,01	38,79	43,74	53,48	60,76	67,89	
3000	15,02	16,96	18,96	21,01	23,12	25,29	27,51	29,77	32,09	34,44	39,28	44,28	54,70	62,34	69,63	
3500	17,50	19,75	22,07	24,46	26,91	29,42	31,99	34,61	37,29	40,01	45,60	51,37	63,35	72,02		
4000	19,76	22,29	24,90	27,59	30,35	33,17	36,05	38,99	41,99	45,04	51,29	57,72	71,04			
4500	21,99	24,79	27,69	30,66	33,71	36,83	40,02	43,26	46,57	49,93	56,80	63,85				
5000	24,17	27,25	30,42	33,68	37,01	40,41	43,89	47,42	51,02	54,67	62,12					
5500	26,33	29,67	33,10	36,63	40,23	43,91	47,66	51,47	55,34	59,26						



MEGADYNE MEGASYNC™

SILVER3 14M

BASIC PERFORMANCE IN kW FOR SILVER3 14M - 40 mm WIDE (kW / 40 mm)																	
D (mm)	124,78	129,23	133,69	142,60	151,52	160,43	169,34	178,25	196,08	213,90	231,73	249,55	267,38	285,21	303,03	320,86	356,51
Z	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
RPM																	
10	0,44	0,46	0,48	0,51	0,54	0,57	0,60	0,63	0,70	0,76	0,83	0,89	0,95	1,02	1,08	1,14	1,27
20	0,89	0,92	0,95	1,02	1,08	1,14	1,21	1,27	1,40	1,52	1,65	1,78	1,90	2,03	2,16	2,28	2,54
30	1,33	1,38	1,43	1,52	1,62	1,71	1,81	1,90	2,09	2,28	2,48	2,67	2,86	3,05	3,24	3,43	3,81
50	2,13	2,23	2,32	2,51	2,70	2,86	3,01	3,17	3,49	3,81	4,13	4,44	4,76	5,08	5,39	5,71	6,35
70	2,88	3,00	3,13	3,38	3,63	3,89	4,15	4,42	4,89	5,33	5,78	6,22	6,66	7,11	7,55	8,00	8,88
100	3,95	4,12	4,29	4,64	4,99	5,35	5,70	6,07	6,80	7,55	8,25	8,88	9,52	10,15	10,79	11,42	12,69
200	7,32	7,64	7,95	8,59	9,24	9,90	10,56	11,23	12,59	13,98	15,38	16,82	18,27	19,74	21,22	22,73	25,37
300	10,50	10,95	11,40	12,32	13,25	14,19	15,14	16,10	18,05	20,03	22,05	24,10	26,18	28,28	30,41	32,57	36,95
400	13,55	14,14	14,72	15,91	17,11	18,32	19,55	20,78	23,30	25,86	28,46	31,10	33,78	36,49	39,24	42,01	47,65
500	16,52	17,23	17,95	19,39	20,85	22,33	23,82	25,33	28,40	31,51	34,68	37,89	41,15	44,45	47,78	51,16	58,00
600	19,42	20,26	21,10	22,79	24,51	26,24	28,00	29,77	33,37	37,02	40,74	44,51	48,33	52,19	56,10	60,05	68,06
720	22,83	23,81	24,80	26,79	28,80	30,84	32,90	34,98	39,19	43,48	47,84	52,25	56,72	61,24	65,81	70,43	79,78
800	25,06	26,14	27,22	29,40	31,61	33,85	36,10	38,38	43,01	47,70	52,47	57,30	62,20	67,14	72,14	77,18	87,39
900	27,81	29,01	30,20	32,63	35,07	37,55	40,05	42,58	47,69	52,89	58,17	63,51	68,91	74,37	79,88	85,44	96,68
1000	30,53	31,83	33,15	35,80	38,49	41,20	43,94	46,70	52,31	57,99	63,76	69,60	75,50	81,45	87,46	93,51	105,74
1100	33,20	34,62	36,05	38,93	41,85	44,79	47,77	50,77	56,84	63,01	69,25	75,57	81,95	88,38	94,87	101,40	114,56
1200	35,85	37,38	38,92	42,02	45,16	48,34	51,54	54,77	61,31	67,94	74,65	81,43	88,27	95,17	102,11	109,09	123,14
1300	38,46	40,10	41,75	45,08	48,44	51,83	55,26	58,72	65,71	72,79	79,95	87,18	94,47	101,80	109,18	116,59	131,47
1400	41,04	42,79	44,54	48,09	51,67	55,29	58,93	62,61	70,04	77,56	85,15	92,82	100,53	108,29	116,08	123,90	139,56
1460	42,57	44,39	46,21	49,88	53,59	57,33	61,11	64,91	72,60	80,38	88,23	96,15	104,11	112,11	120,14	128,18	144,29
1600	46,12	48,07	50,04	54,01	58,01	62,05	66,12	70,22	78,50	86,86	95,28	103,76	112,28	120,81	129,36	137,91	154,95
1700	48,62	50,68	52,75	56,92	61,13	65,37	69,65	73,95	82,63	91,39	100,20	109,06	117,95	126,84	135,73	144,60	
1800	51,09	53,25	55,42	59,79	64,20	68,65	73,12	77,62	86,70	95,84	105,03	114,25	123,49	132,71	141,92	151,09	
1900	53,53	55,79	58,06	62,63	67,24	71,88	76,55	81,24	90,70	100,21	109,76	119,32	128,88	138,42	147,91		
2000	55,95	58,31	60,68	65,44	70,24	75,07	79,93	84,81	94,63	104,50	114,39	124,27	134,14	143,96			
2400	65,39	68,11	70,84	76,34	81,86	87,40	92,96	98,53	109,67	120,80	131,86						
2800	74,42	77,48	80,55	86,70	92,86	99,02	105,18	111,33	123,56								
2920	77,05	80,20	83,36	89,70	96,03	102,37	108,69	114,99	127,49								
3000	78,78	82,00	85,22	91,67	98,12	104,56	110,98	117,37	130,05								
3500	89,24	92,80	96,36	103,47	110,53	117,54											
4000	99,01	102,86	106,70	114,31													
4500	108,06	112,13															



MEGADYNE MEGASYNC™

GOLD2



Gold2 belts have RPC profile, designed even to be interchangeable with existing deep toothed profile, which include HTB, RPP profiles and run on pulleys according to ISO 13050. MEGASYNC™ Gold2 belts are antistatic according to ISO 9563.

MEGADYNE MEGASYNC™

GOLD2

Megadyne MEGASYNC™ Gold2 belts have been developed to give a more powerful alternative to RPP and Silver3 belts to compete against high-performance transmission systems using chains and gears, that always have a disadvantage in terms of weight, noise, lubrication and maintenance costs.

MEGASYNC™ Gold3 can be used to improve and easily upgrade already existing drives working with both MEGASYNC™ RPP and MEGASYNC™ Silver. Also, we always suggest to check that every other transmission component can withstand the increased transmitted power, especially if you are going to replace a MEGASYNC™ RPP, because of the wide power upgrade.

The design of Gold2 timing belts offer:

- Increased performance compared to MEGASYNC™ RPP and to MEGASYNC™ Silver3
- The possibility to keep using the same RPP pulleys.

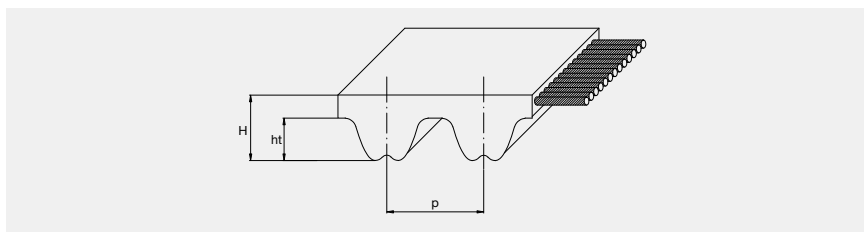
MEGASYNC™ Gold2 14M belts have two nylon plies on the teeth to:

- Improve belt resistance to wearing
- Reduce friction and noise levels.

Because of these features, replacing an MEGASYNC™ RPP or Silver3 with an MEGASYNC™ Gold2 can:

- Reduce belt width thanks to the higher power rate; this allows also to reduce the required pulley width. They both lead to a significant transmission weight reduction
- Reduce the pulley diameters thanks to the higher power rate; this leads to a lower belt linear speed and to the consequent noise reduction.

GOLD2



PITCH		GOLD2 5M	GOLD2 8M	GOLD2 14M
Pitch length (mm)	p	5,00	8,00	14,00
Teeth height (mm)	ht	2,00	3,20	6,00
Belt height (mm)	H	3,80	5,40	9,70

RESISTANCE TO: STD BELT RESISTANCE

Water	Medium
Acids / Alkalis	None
Solvents	None
Mineral oils	Low
Oils	Low
Greases	Medium
Fuels	None
Environmental agents	Medium

OTHER FEATURES

Temperature range	Min: -25 °C
	Max: 80 °C
	Max peak: 100 °C
Hardness	90 +/-4 ShA
Antistatic	According to ISO 9563



MEGADYNE MEGASYNC™

GOLD2

STANDARD TOLERANCES

WIDTH TOLERANCES				
BELT WIDTH (mm)		TOLERANCE ON BELT WIDTH		
		BELT LENGTH (mm)		
MORE THAN	UP TO	UP TO 838	MORE THAN 838 UP TO 1676	MORE THAN 1676
-	11,10	+0,5 / -0,8	+0,5 / 0,8	-
11,10	38,10	±0,8	+0,8 / -1,3	+0,8 / -1,3
38,10	50,80	+0,8 / -1,3	±1,3	+1,3 / -1,5
50,80	76,20	+1,3 / -1,5	±1,5	+1,5 / -2,0
76,20	170,00	+1,3 / -1,5	+1,3 / -2,0	±2,0

LENGTH TOLERANCES			
BELT LENGTH (mm)		TOLERANCE (mm)	CENTER DISTANCE TOLERANCE (mm)
MORE THAN	UP TO		
254	381	±0,45	±0,225
381	508	±0,50	±0,250
508	762	±0,60	±0,300
762	991	±0,65	±0,325
991	1,220	±0,75	±0,375
1,220	1,524	±0,80	±0,400
1,524	1,778	±0,85	±0,425
1,778	2,032	±0,90	±0,450
2,032	2,286	±0,95	±0,475
over 2,286		$\pm \left[0,95 + \left(\frac{L - 2286}{254} \cdot 0,03 \right) \right]$	$\pm \left[0,475 + \left(\frac{L - 2286}{254} \cdot 0,015 \right) \right]$

THICKNESS TOLERANCES				
PITCH	NOMINAL BELT THICKNESS (mm)	TOLERANCE DEGREE (mm)		
		STANDARD BELT	GRADE 2	GRADE 1
GLD2 5M	3,80	±0,60	±0,25	±0,15
GLD2 8M	5,40	±0,60	±0,25	±0,15
GLD2 14M	9,70	±0,60	±0,25	±0,15

For specific application, where you might require different tolerances, please contact our Application Department.

STANDARD WIDTHS											
PITCH	BELT WIDTHS (mm)										
	9	15	20	25	30	40	50	55	85	115	170
GLD2 5M	•	•		•							
GLD2 8M			•		•		•		•		
GLD2 14M						•		•	•	•	•



MEGADYNE MEGASYNC™

GOLD2 RANGE

GOLD2 5M	
CODE	PITCH LENGTH (mm)
180 GLD2 5M	180
225 GLD2 5M	225
235 GLD2 5M	235
245 GLD2 5M	245
255 GLD2 5M	255
265 GLD2 5M	265
270 GLD2 5M	270
280 GLD2 5M	280
285 GLD2 5M	285
295 GLD2 5M	295
300 GLD2 5M	300
305 GLD2 5M	305
325 GLD2 5M	325
330 GLD2 5M	330
345 GLD2 5M	345
350 GLD2 5M	350
375 GLD2 5M	375
400 GLD2 5M	400
420 GLD2 5M	420
425 GLD2 5M	425
450 GLD2 5M	450
455 GLD2 5M	455
460 GLD2 5M	460
465 GLD2 5M	465
475 GLD2 5M	475
500 GLD2 5M	500
525 GLD2 5M	525
535 GLD2 5M	535
565 GLD2 5M	565
575 GLD2 5M	575
580 GLD2 5M	580
600 GLD2 5M	600
610 GLD2 5M	610
615 GLD2 5M	615
635 GLD2 5M	635
640 GLD2 5M	640
650 GLD2 5M	650
670 GLD2 5M	670
675 GLD2 5M	675
700 GLD2 5M	700
705 GLD2 5M	705
710 GLD2 5M	710
725 GLD2 5M	725
740 GLD2 5M	740
750 GLD2 5M	750
755 GLD2 5M	755
800 GLD2 5M	800
835 GLD2 5M	835
850 GLD2 5M	850
890 GLD2 5M	890
900 GLD2 5M	900
935 GLD2 5M	935
940 GLD2 5M	940
950 GLD2 5M	950
980 GLD2 5M	980
1000 GLD2 5M	1000
1025 GLD2 5M	1025
1050 GLD2 5M	1050
1100 GLD2 5M	1100
1125 GLD2 5M	1125
1135 GLD2 5M	1135
1195 GLD2 5M	1195

GOLD2 5M	
CODE	PITCH LENGTH (mm)
1200 GLD2 5M	1200
1240 GLD2 5M	1240
1270 GLD2 5M	1270
1420 GLD2 5M	1420
1500 GLD2 5M	1500
1595 GLD2 5M	1595
1605 GLD2 5M	1605
1690 GLD2 5M	1690
1790 GLD2 5M	1790
1800 GLD2 5M	1800
1870 GLD2 5M	1870
1895 GLD2 5M	1895
1945 GLD2 5M	1945
2000 GLD2 5M	2000
2250 GLD2 5M	2250
2350 GLD2 5M	2350
2525 GLD2 5M	2525

GOLD2 8M	
CODE	PITCH LENGTH (mm)
248 GLD2 8M	248
288 GLD2 8M	288
320 GLD2 8M	320
352 GLD2 8M	352
360 GLD2 8M	360
376 GLD2 8M	376
384 GLD2 8M	384
408 GLD2 8M	408
416 GLD2 8M	416
424 GLD2 8M	424
456 GLD2 8M	456
480 GLD2 8M	480
536 GLD2 8M	536
544 GLD2 8M	544
560 GLD2 8M	560
600 GLD2 8M	600
608 GLD2 8M	608
632 GLD2 8M	632
640 GLD2 8M	640
680 GLD2 8M	680
720 GLD2 8M	720
760 GLD2 8M	760
800 GLD2 8M	800
840 GLD2 8M	840
880 GLD2 8M	880
896 GLD2 8M	896
920 GLD2 8M	920
960 GLD2 8M	960
976 GLD2 8M	976
1000 GLD2 8M	1000
1040 GLD2 8M	1040
1064 GLD2 8M	1064
1080 GLD2 8M	1080
1120 GLD2 8M	1120
1160 GLD2 8M	1160
1200 GLD2 8M	1200
1224 GLD2 8M	1224
1280 GLD2 8M	1280
1352 GLD2 8M	1352

GOLD2 8M	
CODE	PITCH LENGTH (mm)
1424 GLD2 8M	1424
1440 GLD2 8M	1440
1464 GLD2 8M	1464
1512 GLD2 8M	1512
1584 GLD2 8M	1584
1600 GLD2 8M	1600
1680 GLD2 8M	1680
1760 GLD2 8M	1760
1800 GLD2 8M	1800
1904 GLD2 8M	1904
2000 GLD2 8M	2000
2200 GLD2 8M	2200
2240 GLD2 8M	2240
2272 GLD2 8M	2272
2400 GLD2 8M	2400
2520 GLD2 8M	2520
2600 GLD2 8M	2600
2800 GLD2 8M	2800
2840 GLD2 8M	2840
3048 GLD2 8M	3048
3200 GLD2 8M	3200
3280 GLD2 8M	3280
3600 GLD2 8M	3600
4000 GLD2 8M	4000
4400 GLD2 8M	4400

GOLD2 14M	
CODE	PITCH LENGTH (mm)
966 GLD2 14M	966
994 GLD2 14M	994
1092 GLD2 14M	1092
1106 GLD2 14M	1106
1120 GLD2 14M	1120
1190 GLD2 14M	1190
1260 GLD2 14M	1260
1288 GLD2 14M	1288
1344 GLD2 14M	1344
1400 GLD2 14M	1400
1442 GLD2 14M	1442
1512 GLD2 14M	1512
1568 GLD2 14M	1568
1610 GLD2 14M	1610
1750 GLD2 14M	1750
1764 GLD2 14M	1764
1778 GLD2 14M	1778
1848 GLD2 14M	1848
1890 GLD2 14M	1890
1904 GLD2 14M	1904
1960 GLD2 14M	1960
2100 GLD2 14M	2100
2240 GLD2 14M	2240
2310 GLD2 14M	2310
2380 GLD2 14M	2380
2450 GLD2 14M	2450
2520 GLD2 14M	2520
2590 GLD2 14M	2590
2660 GLD2 14M	2660
2800 GLD2 14M	2800
2968 GLD2 14M	2968

GOLD2 14M	
CODE	PITCH LENGTH (mm)
3136 GLD2 14M	3136
3150 GLD2 14M	3150
3304 GLD2 14M	3304
3360 GLD2 14M	3360
3500 GLD2 14M	3500
3850 GLD2 14M	3850
3920 GLD2 14M	3920
4326 GLD2 14M	4326
4410 GLD2 14M	4410
4578 GLD2 14M	4578
4956 GLD2 14M	4956

GOLD2 8DD*	
CODE	PITCH LENGTH (mm)
600 GLD2-8DD	600
608 GLD2-8DD	608
632 GLD2-8DD	632
640 GLD2-8DD	640
680 GLD2-8DD	680
720 GLD2-8DD	720
760 GLD2-8DD	760
800 GLD2-8DD	800
840 GLD2-8DD	840
880 GLD2-8DD	880
896 GLD2-8DD	896
920 GLD2-8DD	920
960 GLD2-8DD	960
1000 GLD2-8DD	1000
1040 GLD2-8DD	1040
1080 GLD2-8DD	1080
1120 GLD2-8DD	1120
1200 GLD2-8DD	1200
1224 GLD2-8DD	1224
1280 GLD2-8DD	1280
1352 GLD2-8DD	1352
1424 GLD2-8DD	1424
1440 GLD2-8DD	1440
1464 GLD2-8DD	1464
1600 GLD2-8DD	1600
1680 GLD2-8DD	1680
1760 GLD2-8DD	1760
1792 GLD2-8DD	1792
1800 GLD2-8DD	1800
1904 GLD2-8DD	1904
2000 GLD2-8DD	2000
2200 GLD2-8DD	2200
2240 GLD2-8DD	2240
2272 GLD2-8DD	2272
2400 GLD2-8DD	2400
2520 GLD2-8DD	2520
2600 GLD2-8DD	2600
2800 GLD2-8DD	2800
2840 GLD2-8DD	2840
3048 GLD2-8DD	3048
3200 GLD2-8DD	3200
3280 GLD2-8DD	3280
3600 GLD2-8DD	3600
4000 GLD2-8DD	4000
4400 GLD2-8DD	4400

GOLD2 14DD*	
CODE	PITCH LENGTH (mm)
966 GLD2-14DD	966
994 GLD2-14DD	994
1092 GLD2-14DD	1092
1106 GLD2-14DD	1106
1120 GLD2-14DD	1120
1190 GLD2-14DD	1190
1260 GLD2-14DD	1260
1288 GLD2-14DD	1288
1344 GLD2-14DD	1344
1400 GLD2-14DD	1400
1442 GLD2-14DD	1442
1568 GLD2-14DD	1568
1610 GLD2-14DD	1610
1750 GLD2-14DD	1750
1764 GLD2-14DD	1764
1778 GLD2-14DD	1778
1848 GLD2-14DD	1848
1890 GLD2-14DD	1890
1904 GLD2-14DD	1904
1960 GLD2-14DD	1960
2100 GLD2-14DD	2100
2240 GLD2-14DD	2240
2310 GLD2-14DD	2310
2380 GLD2-14DD	2380
2450 GLD2-14DD	2450
2520 GLD2-14DD	2520
2590 GLD2-14DD	2590
2660 GLD2-14DD	2660
2800 GLD2-14DD	2800
2968 GLD2-14DD	2968
3136 GLD2-14DD	3136
3150 GLD2-14DD	3150
3304 GLD2-14DD	3304
3360 GLD2-14DD	3360
3500 GLD2-14DD	3500
3850 GLD2-14DD	3850
3920 GLD2-14DD	3920
4326 GLD2-14DD	4326
4410 GLD2-14DD	4410
4578 GLD2-14DD	4578
4956 GLD2-14DD	4956

(*) ON DEMAND



MEGADYNE MEGASYNC™

GOLD2 5M

BASIC PERFORMANCE IN W FOR GOLD2 5M - 9 mm WIDE (W / 9 mm)															
D (mm)	28,65	31,83	35,01	38,2	41,38	44,56	50,93	57,3	63,66	70,03	76,39	89,13	101,86	114,59	127,32
Z	18	20	22	24	26	28	32	36	40	44	48	56	64	72	80
RPM															
10	8	10	12	14	16	19	24	30	37	40	44	51	59	66	73
20	15	18	22	26	30	34	44	55	67	81	88	103	117	132	147
30	21	26	31	36	42	48	62	78	95	114	132	154	176	198	220
50	32	40	47	56	65	75	97	121	147	177	208	257	293	330	367
70	43	53	63	75	87	100	129	161	197	235	278	359	411	462	513
100	59	72	86	101	118	136	175	218	267	319	377	505	587	660	733
200	106	130	155	183	213	245	316	395	482	578	681	913	1.067	1.200	1.333
300	150	183	220	259	302	347	447	559	682	817	964	1.291	1.600	1.800	2.000
400	192	235	281	331	386	444	572	715	872	1.045	1.232	1.650	2.126	2.400	2.666
500	233	284	340	401	467	537	692	865	1.056	1.265	1.491	1.997	2.572	2.999	3.332
600	272	332	397	469	545	628	808	1.010	1.234	1.478	1.743	2.334	3.006	3.598	3.998
700	310	378	453	535	622	716	922	1.153	1.407	1.686	1.988	2.662	3.429	4.198	4.663
800	347	424	508	599	697	803	1.034	1.292	1.577	1.890	2.228	2.984	3.843	4.796	5.328
900	384	469	562	663	771	888	1.143	1.429	1.744	2.090	2.464	3.300	4.249	5.311	5.993
1000	420	513	615	725	844	971	1.251	1.563	1.909	2.286	2.696	3.610	4.649	5.810	6.657
1100	456	557	667	787	915	1.053	1.357	1.696	2.070	2.480	2.924	3.916	5.042	6.302	7.321
1200	491	600	719	847	986	1.135	1.461	1.827	2.230	2.671	3.150	4.217	5.430	6.787	7.983
1300	526	642	769	907	1.056	1.215	1.565	1.956	2.387	2.860	3.372	4.515	5.813	7.265	8.646
1400	560	684	820	967	1.125	1.294	1.667	2.083	2.543	3.046	3.592	4.809	6.191	7.737	9.307
1500	594	726	869	1.025	1.193	1.373	1.768	2.209	2.697	3.230	3.809	5.099	6.565	8.204	9.968
1600	628	767	919	1.083	1.260	1.450	1.868	2.334	2.849	3.413	4.024	5.387	6.935	8.666	10.577
1700	661	808	967	1.141	1.327	1.527	1.967	2.458	3.000	3.593	4.237	5.671	7.301	9.123	11.134
1800	695	848	1.016	1.198	1.394	1.603	2.065	2.580	3.150	3.772	4.447	5.953	7.664	9.575	11.685
1900	727	888	1.064	1.254	1.459	1.679	2.162	2.702	3.298	3.950	4.656	6.233	8.022	10.023	12.230
2000	760	928	1.111	1.310	1.524	1.754	2.258	2.822	3.445	4.125	4.863	6.509	8.378	10.466	12.771
2400	868	1.059	1.269	1.496	1.741	2.003	2.578	3.221	3.931	4.707	5.548	7.424	9.552	11.929	14.550
2800	1.012	1.235	1.479	1.744	2.029	2.334	3.004	3.753	4.579	5.482	6.461	8.642	11.115	13.876	16.919
3000	1.073	1.310	1.568	1.849	2.151	2.474	3.184	3.978	4.853	5.810	6.846	9.154	11.772	14.693	17.911
3200	1.114	1.360	1.628	1.919	2.233	2.568	3.305	4.128	5.036	6.028	7.102	9.494	12.206	15.230	18.561
3600	1.252	1.528	1.830	2.157	2.509	2.885	3.712	4.636	5.654	6.765	7.969	10.649	13.684	17.065	20.787
4000	1.369	1.670	2.000	2.357	2.741	3.152	4.054	5.061	6.171	7.382	8.694	11.610	14.910	18.583	22.622
4500	1.512	1.844	2.207	2.601	3.025	3.478	4.471	5.580	6.800	8.132	9.572	12.773	16.389	20.409	
5000	1.651	2.014	2.411	2.840	3.301	3.795	4.877	6.083	7.411	8.858	10.422	13.893	17.809		
6000	1.922	2.344	2.803	3.301	3.835	4.406	5.657	7.048	8.577	10.240	12.035	16.006			
7000	2.183	2.659	3.179	3.740	4.343	4.987	6.394	7.956	9.669	11.528	13.530				
8000	2.433	2.962	3.538	4.160	4.827	5.538	7.089	8.807	10.685	12.718					
10000	2.902	3.527	4.205	4.935	5.715	6.545	8.345								
12000	3.330	4.038	4.802	5.622	6.495	7.418									
14000	3.715	4.490	5.324	6.213											



MEGADYNE MEGASYNC™

GOLD2 8M

BASIC PERFORMANCE IN kW FOR GOLD2 8M - 20 mm WIDE (kW / 20 mm)

D (mm)	56,02	61,12	66,21	71,30	76,39	81,49	86,58	91,67	96,77	101,86	112,05	122,23	142,60	162,97	183,35	203,72
Z	22	24	26	28	30	32	34	36	38	40	44	48	56	64	72	80
RPM																
10	0,10	0,11	0,12	0,13	0,14	0,15	0,16	0,17	0,18	0,19	0,21	0,22	0,26	0,30	0,34	0,37
20	0,20	0,22	0,24	0,26	0,28	0,30	0,32	0,34	0,35	0,37	0,41	0,45	0,52	0,60	0,67	0,75
30	0,28	0,31	0,34	0,37	0,40	0,43	0,46	0,49	0,52	0,55	0,62	0,67	0,78	0,90	1,01	1,12
50	0,45	0,49	0,54	0,59	0,63	0,68	0,73	0,78	0,83	0,88	0,98	1,08	1,28	1,49	1,68	1,87
70	0,60	0,67	0,73	0,79	0,86	0,92	0,99	1,05	1,12	1,18	1,32	1,45	1,73	2,01	2,29	2,58
100	0,83	0,92	1,00	1,09	1,18	1,27	1,36	1,45	1,54	1,63	1,82	2,00	2,38	2,77	3,16	3,56
200	1,55	1,71	1,87	2,03	2,20	2,36	2,53	2,70	2,86	3,03	3,38	3,72	4,43	5,15	5,88	6,62
300	2,23	2,46	2,69	2,92	3,16	3,39	3,63	3,88	4,12	4,36	4,86	5,36	6,37	7,40	8,45	9,51
400	2,88	3,18	3,48	3,78	4,08	4,39	4,70	5,01	5,33	5,65	6,28	6,93	8,24	9,58	10,93	12,31
500	3,52	3,88	4,25	4,62	4,99	5,36	5,74	6,12	6,51	6,89	7,67	8,46	10,06	11,69	13,35	15,03
600	4,14	4,57	5,00	5,44	5,87	6,32	6,76	7,21	7,66	8,12	9,03	9,96	11,85	13,77	15,71	17,68
700	4,76	5,25	5,74	6,24	6,74	7,25	7,76	8,28	8,80	9,32	10,37	11,44	13,60	15,80	18,03	20,29
800	5,36	5,91	6,47	7,03	7,60	8,17	8,75	9,33	9,91	10,50	11,69	12,89	15,32	17,80	20,31	22,86
900	5,96	6,57	7,19	7,81	8,44	9,08	9,72	10,36	11,01	11,67	12,98	14,32	17,02	19,77	22,56	25,38
1000	6,55	7,22	7,90	8,59	9,28	9,98	10,68	11,39	12,10	12,82	14,27	15,73	18,70	21,71	24,77	27,87
1100	7,13	7,86	8,60	9,35	10,10	10,86	11,63	12,40	13,18	13,96	15,53	17,13	20,35	23,64	26,96	30,33
1200	7,71	8,50	9,30	10,11	10,92	11,74	12,57	13,40	14,24	15,08	16,79	18,51	21,99	25,53	29,12	32,75
1300	8,28	9,13	9,99	10,86	11,73	12,61	13,50	14,40	15,30	16,20	18,03	19,87	23,61	27,41	31,26	35,15
1400	8,85	9,76	10,67	11,60	12,53	13,48	14,42	15,38	16,34	17,31	19,26	21,23	25,22	29,27	33,37	37,51
1500	9,41	10,38	11,35	12,34	13,33	14,33	15,34	16,36	17,38	18,40	20,48	22,57	26,81	31,11	35,46	39,85
1600	9,97	10,99	12,03	13,07	14,12	15,18	16,25	17,32	18,40	19,49	21,69	23,90	28,38	32,93	37,52	42,16
1700	10,53	11,61	12,70	13,80	14,91	16,02	17,15	18,28	19,42	20,57	22,88	25,22	29,94	34,73	39,57	44,44
1800	11,08	12,21	13,36	14,52	15,69	16,86	18,05	19,24	20,44	21,64	24,07	26,53	31,49	36,52	41,59	46,70
1900	11,62	12,82	14,02	15,23	16,46	17,69	18,93	20,18	21,44	22,71	25,25	27,82	33,02	38,28	43,59	48,93
2000	12,17	13,42	14,68	15,95	17,23	18,52	19,82	21,13	22,44	23,76	26,43	29,11	34,54	40,03	45,57	51,13
2500	14,85	16,37	17,90	19,45	21,00	22,57	24,15	25,74	27,33	28,93	32,16	35,41	41,95	48,54	55,15	61,75
3000	17,46	19,24	21,04	22,85	24,68	26,51	28,36	30,21	32,07	33,94	37,70	41,47	49,04	56,63	64,19	
3500	20,02	22,06	24,11	26,18	28,26	30,35	32,45	34,56	36,67	38,79	43,04	47,30	55,82	64,29		
4000	22,52	24,81	27,11	29,43	31,75	34,09	36,43	38,78	41,13	43,49	48,20	52,91	62,28			
4500	24,98	27,51	30,05	32,60	35,16	37,73	40,30	42,88	45,46	48,03	53,17	58,29				
5000	27,39	30,15	32,92	35,70	38,49	41,28	44,07	46,85	49,64	52,42	57,95					



MEGADYNE MEGASYNC™

GOLD2 14M

BASIC PERFORMANCE IN kW FOR GOLD2 14M - 40 mm WIDE (kW / 40 mm)																	
D (mm)	124,78	129,23	133,69	142,60	151,52	160,43	169,34	178,25	196,08	213,90	231,73	249,55	267,38	285,21	303,03	320,86	356,51
Z	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
RPM																	
10	0,75	0,78	0,81	0,86	0,91	0,97	1,02	1,07	1,18	1,29	1,40	1,50	1,61	1,72	1,82	1,93	2,15
20	1,50	1,56	1,61	1,72	1,82	1,93	2,04	2,15	2,36	2,58	2,79	3,01	3,22	3,43	3,65	3,86	4,29
30	2,25	2,33	2,42	2,58	2,74	2,90	3,06	3,22	3,54	3,86	4,19	4,51	4,83	5,15	5,47	5,80	6,44
50	3,65	3,80	3,95	4,24	4,54	4,83	5,10	5,37	5,90	6,44	6,98	7,51	8,05	8,59	9,12	9,66	10,73
70	4,95	5,15	5,35	5,75	6,16	6,57	6,98	7,40	8,23	9,02	9,77	10,52	11,27	12,02	12,77	13,52	15,03
100	6,84	7,11	7,39	7,95	8,51	9,07	9,64	10,21	11,37	12,54	13,72	14,91	16,10	17,17	18,25	19,32	21,46
200	12,80	13,32	13,84	14,88	15,93	16,99	18,05	19,12	21,29	23,48	25,69	27,92	30,17	32,44	34,73	37,04	41,69
300	18,48	19,22	19,97	21,47	22,99	24,51	26,05	27,60	30,72	33,88	37,07	40,29	43,53	46,81	50,11	53,43	60,14
400	23,97	24,93	25,90	27,85	29,82	31,80	33,79	35,80	39,84	43,94	48,07	52,24	56,45	60,70	64,97	69,27	77,97
500	29,33	30,51	31,69	34,08	36,48	38,90	41,34	43,79	48,74	53,75	58,80	63,90	69,04	74,23	79,45	84,70	95,31
600	34,58	35,98	37,37	40,18	43,02	45,87	48,74	51,63	57,46	63,35	69,31	75,31	81,36	87,46	93,60	99,79	112,26
700	39,75	41,35	42,96	46,19	49,44	52,72	56,01	59,33	66,03	72,79	79,62	86,51	93,46	100,45	107,49	114,57	128,85
800	44,85	46,65	48,46	52,10	55,77	59,46	63,18	66,92	74,46	82,08	89,78	97,53	105,34	113,21	121,13	129,09	145,13
900	49,88	51,88	53,89	57,94	62,01	66,12	70,25	74,40	82,78	91,24	99,78	108,38	117,04	125,76	134,53	143,35	161,10
1000	54,85	57,05	59,26	63,71	68,19	72,69	77,23	81,79	90,99	100,27	109,64	119,07	128,57	138,12	147,73	157,37	176,78
1100	59,77	62,16	64,57	69,41	74,29	79,19	84,13	89,09	99,10	109,19	119,37	129,62	139,93	150,29	160,71	171,16	192,17
1200	64,64	67,23	69,83	75,06	80,32	85,62	90,95	96,31	107,11	118,00	128,97	140,02	151,12	162,28	173,48	184,72	207,28
1300	69,46	72,24	75,03	80,65	86,30	91,99	97,71	103,46	115,03	126,70	138,46	150,28	162,16	174,09	186,05	198,05	222,10
1400	74,24	77,21	80,19	86,19	92,22	98,29	104,39	110,52	122,87	135,30	147,82	160,40	173,04	185,72	198,42	211,15	236,64
1500	78,98	82,14	85,31	91,68	98,09	104,53	111,01	117,52	130,62	143,81	157,07	170,39	183,76	197,17	210,59	224,02	250,88
1600	83,68	87,02	90,38	97,12	103,90	110,71	117,56	124,44	138,28	152,21	166,20	180,25	194,33	208,44	222,55	236,66	264,82
1700	88,35	91,87	95,41	102,51	109,66	116,84	124,05	131,30	145,86	160,51	175,22	189,97	204,75	219,53	234,31	249,07	
1800	92,97	96,68	100,39	107,86	115,37	122,91	130,48	138,09	153,37	168,72	184,12	199,56	215,00	230,44	245,86		
1900	97,57	101,45	105,34	113,17	121,03	128,93	136,85	144,81	160,79	176,83	192,91	209,01	225,10	241,17			
2000	102,12	106,18	110,25	118,43	126,64	134,89	143,16	151,46	168,13	184,84	201,58	218,32	235,03	251,70			
2500	124,42	129,33	134,25	144,10	153,99	163,90	173,82	183,75	203,60	223,42							
3000	145,93	151,63	157,33	168,74	180,16	191,57	202,97	214,34									
3500	166,66	173,08	179,50	192,33	205,12	217,86											
4000	186,58	193,67	200,74	214,82													
4500	205,68																





MEGADYNE MEGASYNC™

TITANIUM



MEGADYNE MEGASYNC™

TITANIUM

Megadyne proudly introduces the new Titanium timing belt drive, the latest development in high-performance systems, which significantly improves the “specific power” capacity and offers new application opportunities against alternative systems like gears and chains that always have a disadvantage in terms of weight, noise, lubrication and maintenance costs.

Our latest solution is heavily inspired by our experience with RPC Platinum line, well-known and consolidated in the marketplace. We improved upon its acclaimed characteristics, being guided by two basic principles:

- Develop a new belt/system always in rubber to minimise the noise level of the new drives;
- Retain the parabolic design of the teeth profile to guarantee an easy upgrade of the existing drives. This ensures the concept of interchangeability, which has become our market approach philosophy in the past few years.

At Megadyne, every belt component contributes to the improvements in the mechanical resistance, minimising the risk of belt break or failure and improving a bigger “specific power” capacity. This means higher basic design performance. The tensile cords of the belt have a significant role as they improve the power performance, and support tension loads always bigger. Today high-performance timing belts are built with tensile cords made by steel, fiberglass or aramid.

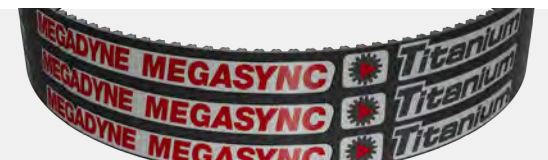
Fiberglass is known to have a very good strength resistance and dimensional stability, which has become a necessity in timing belts. However, this strength is limited, compared to fibres like carbon.

The new Titanium is a rubber-based timing belt, designed to build on the performance of the Platinum belts thanks to the introduction of carbon cord and a special and low friction fabric for teeth. Moreover, Titanium belts are antistatic, in compliance with ISO 9563 standard.

FEATURES

Thanks to the innovative new materials, Titanium is a reliable, lower-maintenance and economical alternative to drive systems with chains and gears; it is particularly recommended for efficient, compact drives with high or pulse torque loads, offering:

- Increased basic power capacity by up to 30% compared to the previous Platinum pitch 8M and 20% pitch 14M;
- Full functional interchange with most common existing deep pulley tooth profile systems, including HTD, RPP and PCGT profiles
- Allows existing drives to be upgraded without the necessity to replace the pulleys, just the belt itself
- Reduction of noise compared to the previous Platinum belts
- Low noise characteristics compared to drive systems using polyurethane, steel etc. due to the rubber matrix and teeth with the parabolic profile shape, recognised as the quietest system on the market
- Antistatic qualities in accordance with ISO 9563 standard
- A wide, continuous range of possible operating temperatures like no other system, which makes Titanium the only solution for extreme working conditions.



MEGADYNE MEGASYNC™

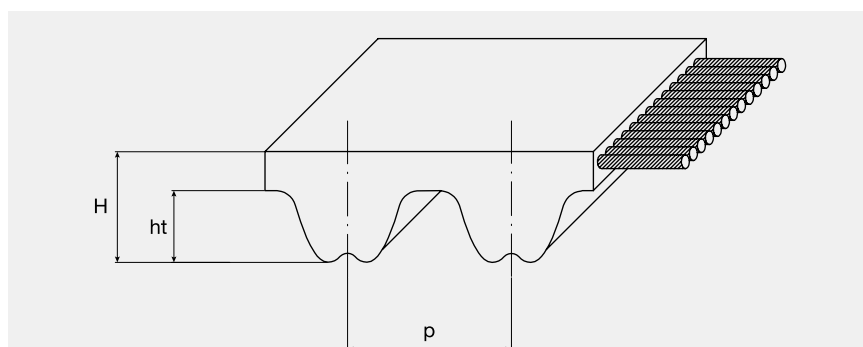
TITANIUM

TOOTH PROFILE AND DIMENSIONS

The new Titanium belts adopt the innovative RPC parabolic profile, an evolution of the well-know RPP profile, which retains the basic principle, enlarging meanwhile the interchange possibility with all those pulleys having a deep groove profile of latest generation. RPC maintain the basic parabolic design of teeth profile to guarantee an easy upgrade of the existing RPP drives to get a full drive interchange, thus the RPC based Titanium system will continue to work perfectly on the current RPP and HTD pulleys.

The Titanium nominal belt tooth shape and reference are shown in figure 2, while the dimension data are listed below in Table Dimensions for each available pitch.

TITANIUM



BELT TYPE	PITCH	β	S	H_s	H_T	R_R	A
8M	8 mm	32°	5,40	5,40	3,46	0,85	0,80
14M	14 mm	32°	9,50	9,70	6,10	1,50	1,40

RESISTANCE TO:

Water	Excellent
Acids / Alkalis	Limited
Solvents	Limited
Mineral oils	Very good
Oils	Very good
Greases	Very good
Fuels	Very good
Environmental agents	Excellent

OTHER FEATURES

Temperature range	Min: -40 °C
	Max: +120 °C
	Max peak: +140 °C
Hardness	92
Antistatic	Yes



MEGADYNE MEGASYNC™

TITANIUM

STANDARD TOLERANCES

WIDTH TOLERANCES				
BELT WIDTH (mm)		TOLERANCE ON BELT WIDTH		
		BELT LENGTH (mm)		
MORE THAN	UP TO	UP TO 838	MORE THAN 838 UP TO 1676	MORE THAN 1676
-	11,10	+0,5 / -0,8	+0,5 / 0,8	-
11,10	38,10	±0,8	+0,8 / -1,3	+0,8 / -1,3
38,10	50,80	+0,8 / -1,3	±1,3	+1,3 / -1,5
50,80	76,20	+1,3 / -1,5	±1,5	+1,5 / -2,0
76,20	170,00	+1,3 / -1,5	+1,3 / -2,0	±2,0

LENGTH TOLERANCES				
BELT LENGTH (mm)		TOLERANCE (mm)	CENTER DISTANCE TOLERANCE (mm)	
MORE THAN	UP TO			
254	381	±0,45		±0,225
381	508	±0,50		±0,250
508	762	±0,60		±0,300
762	991	±0,65		±0,325
991	1,220	±0,75		±0,375
1,220	1,524	±0,80		±0,400
1,524	1,778	±0,85		±0,425
1,778	2,032	±0,90		±0,450
2,032	2,286	±0,95		±0,475
over 2,286		$\pm \left[0,95 + \left(\frac{L - 2286}{254} \cdot 0,03 \right) \right]$		$\pm \left[0,475 + \left(\frac{L - 2286}{254} \cdot 0,015 \right) \right]$

THICKNESS TOLERANCES				
PITCH	NOMINAL BELT THICKNESS (mm)	TOLERANCE DEGREE (mm)		
		STANDARD BELT	GRADE 2	GRADE 1
TTM8	5,40	±0,60	±0,25	±0,15
TTM14	9,70	±0,60	±0,25	±0,15

For specific application, where you might require different tolerances, please contact our Application Department.

STANDARD WIDTHS												
PITCH	BELT WIDTHS (mm)											
	6	9	15	20	25	30	40	50	55	85	115	170
TTM8				•		•		•		•		
TTM14							•		•	•	•	•

TITANIUM - RANGE

TITANIUM 8M		
CODE	PITCH LENGTH (mm)	N° OF TEETH
248 TTM8	248	31
288 TTM8	288	36
352 TTM8	352	44
416 TTM8	416	52
456 TTM8	456	57
480 TTM8	480	60
544 TTM8	544	68
560 TTM8	560	70
600 TTM8	600	75
608 TTM8	608	76
640 TTM8	640	80
720 TTM8	720	90
800 TTM8	800	100
840 TTM8	840	105
880 TTM8	880	110
896 TTM8	896	112
920 TTM8	920	115
960 TTM8	960	120
976 TTM8	976	122
1000 TTM8	1000	125
1040 TTM8	1040	130
1080 TTM8	1080	135
1064 TTM8	1064	133
1120 TTM8	1120	140
1160 TTM8	1160	145
1200 TTM8	1200	150
1224 TTM8	1224	153
1280 TTM8	1280	160
1440 TTM8	1440	180
1464 TTM8	1464	183
1512 TTM8	1512	189
1584 TTM8	1584	198
1600 TTM8	1600	200
1760 TTM8	1760	220
1792 TTM8	1792	224
1800 TTM8	1800	225
2000 TTM8	2000	250
2200 TTM8	2200	275
2240 TTM8	2240	280
2400 TTM8	2400	300
2520 TTM8	2520	315
2600 TTM8	2600	325
2800 TTM8	2800	350
2840 TTM8	2840	280
3048 TTM8	3048	381
3200 TTM8	3200	400
3280 TTM8	3280	410
3600 TTM8	3600	450
4000 TTM8	4000	500
4400 TTM8	4400	550

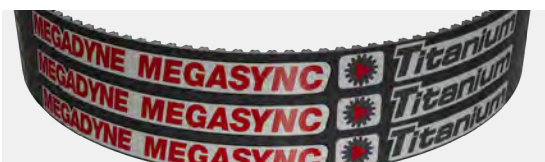
TITANIUM 14M		
CODE	PITCH LENGTH (mm)	N° OF TEETH
994 TTM14	994	71
1092 TTM14	1092	78
1120 TTM14	1120	80
1190 TTM14	1190	85
1260 TTM14	1260	90
1288 TTM14	1288	92
1400 TTM14	1400	100
1512 TTM14	1512	108
1568 TTM14	1568	112
1610 TTM14	1610	115
1750 TTM14	1750	125
1778 TTM14	1778	127
1890 TTM14	1890	135
1960 TTM14	1960	140
2100 TTM14	2100	150
2240 TTM14	2240	160
2310 TTM14	2310	165
2380 TTM14	2380	170
2450 TTM14	2450	175
2520 TTM14	2520	180
2590 TTM14	2590	185
2660 TTM14	2660	190
2800 TTM14	2800	200
3136 TTM14	3136	224
3150 TTM14	3150	225
3304 TTM14	3304	236
3360 TTM14	3360	240
3500 TTM14	3500	250
3850 TTM14	3850	275
3920 TTM14	3920	280
4326 TTM14	4326	309
4410 TTM14	4410	315
4956 TTM14	4956	354



MEGADYNE MEGASYNC™

TITANIUM 8M

BASIC PERFORMANCE Pb IN kW FOR TITANIUM 8M - 20 mm WIDE (kW / 20 mm)																	
D (mm)	56,02	63,66	71,30	76,39	81,49	86,58	91,67	96,77	101,86	114,59	122,23	127,32	142,60	152,79	162,97	190,99	203,72
RPM/Z	22	25	28	30	32	34	36	38	40	45	48	50	56	60	64	75	80
RPM																	
10	0,15	0,17	0,20	0,22	0,24	0,26	0,28	0,30	0,32	0,37	0,40	0,41	0,46	0,50	0,53	0,62	0,66
20	0,28	0,33	0,38	0,41	0,45	0,48	0,52	0,56	0,60	0,69	0,75	0,79	0,92	0,99	1,06	1,24	1,32
40	0,52	0,61	0,70	0,77	0,83	0,90	0,97	1,04	1,11	1,29	1,40	1,48	1,71	1,87	2,03	2,48	2,65
60	0,74	0,88	1,01	1,11	1,20	1,30	1,40	1,50	1,60	1,86	2,02	2,13	2,47	2,70	2,93	3,59	3,90
100	1,18	1,39	1,60	1,75	1,90	2,06	2,21	2,37	2,54	2,95	3,20	3,38	3,91	4,27	4,64	5,69	6,18
200	2,19	2,59	2,99	3,27	3,55	3,84	4,13	4,43	4,73	5,50	5,98	6,30	7,29	7,97	8,65	10,61	11,53
300	3,16	3,72	4,31	4,71	5,12	5,53	5,95	6,38	6,81	7,93	8,61	9,08	10,50	11,47	12,46	15,28	16,60
400	4,09	4,83	5,58	6,10	6,63	7,16	7,71	8,26	8,83	10,27	11,16	11,76	13,60	14,86	16,15	19,80	21,51
500	5,01	5,90	6,82	7,46	8,10	8,76	9,42	10,10	10,79	12,55	13,64	14,37	16,62	18,17	19,73	24,19	26,28
600	5,90	6,95	8,04	8,78	9,55	10,32	11,10	11,90	12,71	14,79	16,07	16,93	19,59	21,40	23,25	28,50	30,96
700	6,78	7,98	9,24	10,09	10,97	11,85	12,76	13,67	14,60	16,99	18,46	19,45	22,50	24,58	26,70	32,74	35,56
730	7,04	8,29	9,59	10,48	11,39	12,31	13,25	14,20	15,17	17,64	19,17	20,20	23,36	25,53	27,73	33,99	36,93
800	7,64	9,00	10,41	11,38	12,36	13,37	14,38	15,42	16,47	19,16	20,81	21,93	25,37	27,72	30,11	36,91	40,09
900	8,49	10,01	11,58	12,65	13,75	14,86	15,99	17,14	18,31	21,30	23,14	24,38	28,20	30,81	33,47	41,02	44,56
1000	9,34	11,00	12,73	13,91	15,11	16,33	17,58	18,84	20,13	23,41	25,43	26,80	30,99	33,86	36,78	45,08	48,97
1200	11,00	12,97	15,00	16,39	17,80	19,24	20,71	22,20	23,71	27,57	29,95	31,56	36,50	39,88	43,31	53,07	57,64
1400	12,64	14,89	17,23	18,82	20,45	22,10	23,78	25,49	27,22	31,66	34,39	36,24	41,90	45,78	49,71	60,90	66,13
1460	13,12	15,46	17,89	19,54	21,23	22,95	24,69	26,47	28,27	32,88	35,71	37,63	43,51	47,52	51,61	63,22	68,65
1600	14,25	16,79	19,42	21,22	23,05	24,91	26,81	28,74	30,69	35,69	38,76	40,84	47,22	51,57	56,01	68,58	74,47
1800	15,84	18,66	21,59	23,58	25,62	27,69	29,79	31,93	34,10	39,65	43,07	45,37	52,45	57,28	62,20	76,14	82,66
2000	17,41	20,52	23,73	25,92	28,16	30,43	32,74	35,09	37,47	43,56	47,31	49,84	57,61	62,91	68,30	83,57	90,70
2400	20,51	24,16	27,94	30,51	33,15	35,82	38,53	41,30	44,09	51,25	55,64	58,62	67,71	73,92	80,23	98,08	106,40
2800	23,54	27,73	32,06	35,02	38,04	41,10	44,21	47,37	50,57	58,76	63,78	67,18	77,56	84,64	91,83	112,13	121,57
2880	24,15	28,44	32,88	35,91	39,00	42,14	45,33	48,57	51,85	60,24	65,39	68,86	79,50	86,75	94,11	114,88	
3200	26,53	31,25	36,12	39,45	42,84	46,28	49,77	53,33	56,92	66,10	71,74	75,54	87,17	95,08	103,11		
3500	28,75	33,85	39,12	42,72	46,39	50,11	53,88	57,72	61,60	71,51	77,59	81,69	94,21	102,73	111,36		
4000	32,38	38,12	44,04	48,08	52,20	56,37	60,61	64,91	69,25	80,34	87,13	91,70	105,66				
4500	35,96	42,32	48,87	53,34	57,90	62,51	67,19	71,93	76,73	88,94	96,40						
5000	39,48	46,44	53,62	58,51	63,48	68,52	73,62	78,80	84,02								
5500	42,94	50,50	58,28	63,57	68,96	74,40	79,92	85,50	91,13								



MEGADYNE MEGASYNC™

TITANIUM 14M

BASIC PERFORMANCE P _b IN kW FOR TITANIUM 14M - 40 mm WIDE (kW / 40 mm)																
D (mm)	124,78	133,69	142,60	151,52	160,43	169,34	178,25	196,08	213,90	222,82	249,55	267,38	285,21	320,86	334,23	356,51
RPM/Z	28	30	32	34	36	38	40	44	48	50	56	60	64	72	75	80
RPM																
10	1,55	1,68	1,81	1,94	2,07	2,20	2,33	2,57	2,80	2,92	3,27	3,50	3,73	4,20	4,38	4,67
20	2,77	3,00	3,23	3,46	3,69	3,92	4,16	4,63	5,11	5,35	6,09	6,59	7,09	8,10	8,48	9,13
40	4,95	5,35	5,76	6,17	6,58	7,00	7,41	8,26	9,12	9,55	10,86	11,75	12,64	14,45	15,13	16,28
80	8,82	9,54	10,27	11,00	11,74	12,48	13,23	14,74	16,27	17,04	19,38	20,96	22,55	25,77	26,99	29,05
100	10,63	11,50	12,37	13,25	14,14	15,03	15,93	17,76	19,60	20,53	23,35	25,25	27,17	31,05	32,52	34,99
200	18,96	20,51	22,06	23,64	25,22	26,82	28,42	31,67	34,96	36,62	41,64	45,03	48,45	55,38	58,00	62,41
300	26,60	28,77	30,95	33,16	35,38	37,62	39,87	44,43	49,03	51,36	58,40	63,16	67,96	77,67	81,35	87,52
400	33,82	36,57	39,35	42,16	44,98	47,82	50,69	56,48	62,33	65,29	74,24	80,28	86,37	98,70	103,38	111,22
500	40,74	44,06	47,41	50,78	54,18	57,61	61,06	68,03	75,08	78,63	89,41	96,67	104,00	118,84	124,46	133,88
600	47,44	51,30	55,19	59,12	63,08	67,06	71,08	79,18	87,39	91,52	104,05	112,50	121,02	138,26	144,79	155,74
700	53,94	58,33	62,76	67,22	71,72	76,25	80,81	90,02	99,34	104,04	118,27	127,86	137,53	157,09	164,49	176,90
730	55,86	60,41	64,99	69,61	74,27	78,96	83,68	93,22	102,87	107,73	122,46	132,39	142,40	162,64	170,29	183,13
800	60,29	65,19	70,14	75,13	80,15	85,21	90,31	100,59	111,00	116,24	132,12	142,82	153,60	175,40	183,65	197,47
900	66,51	71,91	77,37	82,86	88,40	93,98	99,59	110,93	122,38	128,16	145,64	157,42	169,28	193,25	202,32	217,50
1000	72,60	78,50	84,45	90,45	96,49	102,57	108,69	121,05	133,54	139,83	158,87	171,69	184,61	210,68	220,53	237,03
1200	84,48	91,34	98,25	105,22	112,24	119,30	126,40	140,74	155,21	162,51	184,55	199,38	214,30	244,37	255,72	274,70
1400	96,01	103,79	111,64	119,53	127,49	135,49	143,54	159,77	176,15	184,39	209,28	226,00	242,81	276,63	289,36	310,63
1460	99,41	107,46	115,58	123,75	131,98	140,26	148,58	165,36	182,29	190,81	216,53	233,80	251,15	286,04	299,16	321,08
1600	107,24	115,91	124,65	133,45	142,31	151,22	160,17	178,22	196,41	205,56	233,15	251,66	270,23	307,52	321,53	344,89
1800	118,19	127,73	137,34	147,01	156,74	166,52	176,35	196,13	216,05	226,06	256,20	276,38	296,60	337,08	352,25	
2000	128,89	139,28	149,73	160,24	170,81	181,43	192,09	213,54	235,10	245,92	278,47	300,20	321,94			
2400	149,64	161,63	173,68	185,79	197,94	210,14	222,38	246,91	271,51	283,81	320,67					
2800	169,58	183,07	196,61	210,20	223,82	237,46	251,12	278,43	305,69	319,28						
2880	173,48	187,25	201,08	214,95	228,85	242,76	256,69	284,51	312,26							
3200	188,76	203,66	218,58	233,53	248,49	263,43	278,36	308,10								
3500	202,68	218,56	234,45	250,33	266,20	282,02	297,80									
4000	224,99	242,37	259,72	277,00	294,20											

SPECIAL EXECUTION

FEASIBILITY

Megadyne can make special execution on customer's request to improve belt properties and to be suitable to a special applications.

On customer's request and with minimum quantity Megadyne can produce MEGASYNC™ Imperial, MEGASYNC™ RPP, MEGASYNC™ Silver3 8M and Gold2 8M with a double nylon fabric on the tooth surface to improve torque carrying capacity. MEGASYNC™ Silver3 8M and Gold2 14M already have two nylon fabric plies.

The advantages of this solution are:

- Exceptional resistance to abrasion
- Low coefficient of friction
- Increased drive efficiency
- Increased belt and pulley life.

This solution will increase the belt performances by 10%.

ANTISTATIC

On customer's request and with minimum quantity, Megadyne can produce MEGASYNC™ L, H, RPP5 and RPP8 in antistatic version according to ISO 9563.

For very severe applications, Megadyne can also produce super-conductive belts overcoming ISO 9563 parameters.

HIGHER/LOWER TEMPERATURE

On customer's request and with minimum quantity, Megadyne can produce special belts to work up to 130°C or -40°C. Please check with our Application Department for advice or for even more severe requirement.

SPECIAL COMPOUNDS

On customer's request and with minimum quantity, Megadyne can also manufacture belts to stand specific chemicals or environments such as acids, oils, solvents, etc. Please check with our Application Department for guidance.

LOW NOISE

On customer's request and with minimum quantity Megadyne can produce soft compounded belts (60 ±3 ShA) to reduce noise level. In this case, belt's performance will decrease by a 10% compared to an MEGASYNC™ Imperial or an MEGASYNC™ RPP.

SPECIAL BRANDING

On customer's request and with minimum quantity, Megadyne can brand the belts with special labels.

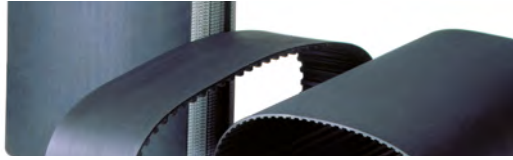
SPECIAL PACKAGING

On customer's request and with minimum quantity, Megadyne can package the belts following special customer's indications.

PAINTING

For painting applications (as automotive painting shop) Megadyne suggests using Megapaint belts. They are available in RPP8, Silver3 8M, Gold2 8M, Titanium 8M pitches. For further information, please check with Megapaint brochure or contact Megadyne's Application Department.





USEFUL FORMULAS

AND CONVERSION TABLE

SPEED		
$V = \frac{d_1 \cdot n_1}{19100}$	$n_1 = \frac{V \cdot 19100}{d_1}$	$d_1 = \frac{V \cdot 19100}{n_1}$
$P = \frac{F_u \cdot d_1 \cdot n_1}{19,1 \cdot 10^6}$	$P = \frac{M_t \cdot n_1}{9550}$	$P = \frac{F_u \cdot V}{1000}$

V: peripheral speed [m/s] | **n1:** rotation speed [RPM] | **d1:** pulley diameter [mm]

P: power [kW] | **Fu:** peripheral force [N] | **Mt:** drive torque [Nm]

n1: rotation speed [RPM] | **d1:** pulley diameter [mm]

FORCES AND TORQUE		
$F_u = \frac{19,1 \cdot 10^6 \cdot P}{d_1 \cdot n_1}$	$F_u = \frac{2000 \cdot M}{d_1}$	$F_u = \frac{P \cdot 10^3}{V}$
$M_t = \frac{P \cdot 9550}{n_1}$	$M_t = \frac{F_u \cdot d_1}{2000}$	$M_t = \frac{P \cdot d_1}{2 \cdot V}$

Fu: peripheral force [N] | **Mt:** drive torque [Nm] | **P:** power [kW]

n1: rotation speed [RPM] | **d1:** pulley diameter [mm] | **V:** peripheral speed [m/s]

TO CONVERT FROM	TO	MULTIPLY BY
CV	HP	0,9863201
CV	kcal/h	63,24151
CV	W	735,4988
CV	kW	0,7354988
CV	kgf ⇔ m/s	75
CV	lbf ⇔ ft/s	542,476
HP	CV	1,01387
HP	kcal/h	641,1865
HP	W	745,6999
HP	kW	0,7456999
HP	kgf ⇔ m/s	76,04022
HP	lbf ⇔ ft/s	550
in	m	0,0254
in	cm	2,54
in	mm	25,4
in	ft	0,083
in ²	m ²	0,00064516
in ²	cm ²	6,4516
in ²	mm ²	645,16
in ²	ft ²	0,006944444
in ³	m ³	1,63871·10 ⁻⁶
in ³	cm ³	16,38706
in ³	mm ³	16387,06
in ³	ft ³	0,000578704

TO CONVERT FROM	TO	MULTIPLY BY
J	CV ⇔ h	3,77673·10 ⁻⁷
J	HP ⇔ h	3,72506·10 ⁻⁷
J	kWh	2,77778·10 ⁻⁷
kg	lb	2,204623
kgf	N	9,80665
kgf	lbf	2,204623
kgf ⇔ m/s	CV	0,013333333
kgf ⇔ m/s	W	9,80665
kgf ⇔ m/s	kW	0,00980665
kW	CV	1,359622
kW	kcal/h	859,8452
kW	W	1000
kW	kgf ⇔ m/s	101,9716
kW	lbf ⇔ ft/s	737,5621
lb	kg	0,4535924
lb	kgf	0,4535924
lb	N	4,448222
N	kgf	0,1019716
N	lbf	0,2248089
W	CV	0,001359622
W	HP	0,001341022
W	kcal/h	0,8598452
W	kW	0,001
W	kgf ⇔ m/s	0,1019716
W	lbf ⇔ ft/s	0,7375621



DATA SHEET

CUSTOMER DATA

Company Name _____ Date _____

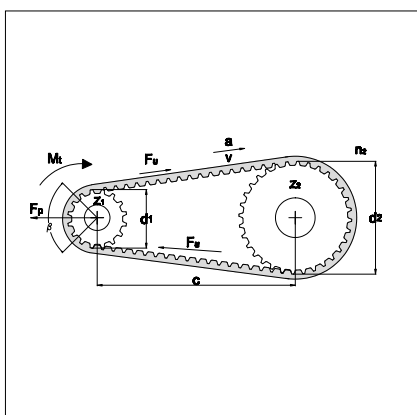
Address _____ Zip Code _____

City _____ State _____ Country _____

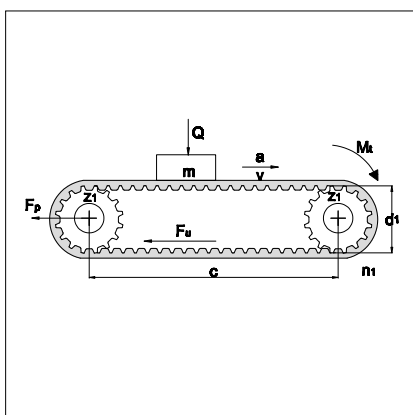
Customer Name/Surname _____

Office _____ Tel. _____ e-mail _____

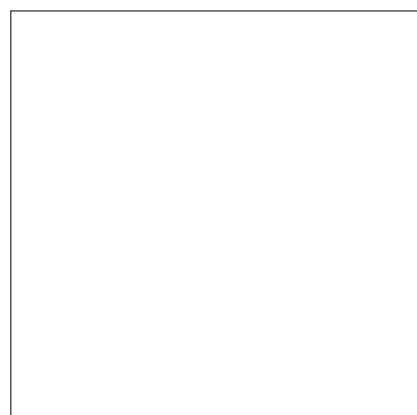
DRIVE INFORMATION TRANSMISSION LAYOUT



☐ Power transmission



☐ Conveyor



☐ Other (If layout is different please sketch it above)

DRIVE INFORMATION (FOR POWER TRANSMISSION)

☐ AC ☐ DC ☐ Soft Start ☐ Inverter

Power _____ Speed _____

Torque _____ Acceleration _____

Working time ☐ < 8h ☐ From 8h up to 16h ☐ 24h

Driver pulley's diameter _____ Driven pulley's diameter _____

Center distance _____ Minimum safety factor needed _____

Are there any size limitation? ☐ Yes ☐ No

(if yes, please indicate *Max diameter*, *Max width* and *Max center distance*):

Max diameter _____ Max width _____ Max center distance _____

Linear speed _____ Acceleration _____ Mass _____



DATA SHEET

DRIVE INFORMATION (FOR CONVEYOR)

Driver pulley's diameter _____ Driven pulley's diameter _____

Center distance _____ Minimum safety factor needed _____

Are there any size limitation? ☐ Yes ☐ No

(if yes, please indicate *Max diameter*, *Max width* and *Max center distance*):

Max diameter _____ Max width _____ Max center distance _____

Linear speed _____ Acceleration _____ Mass _____

Is there any sliding surface? ☐ Yes ☐ No (if yes please indicate friction coefficient): _____

Is there any cover on the back? ☐ Yes ☐ No (if yes please indicate the type) _____

Are cleats required? ☐ Yes ☐ No (if yes please indicate cleats code, otherwise attach drawings) _____

Working time ☐ < 8h ☐ From 8h up to 16h ☐ 24h

WORK'S ENVIRONMENT INFORMATION (FOR ALL LAYOUT TRANSMISSION SYSTEM)

Work Temperature (please indicate constant temperature and in case peaks) _____

Humidity ☐ Standard ☐ No standard ☐ Other _____

Chemical agents: (oils, grass, aggressive compounds) ☐ Yes ☐ No

In case please indicate type and percentage _____

NOTES

NOTES

The data and information contained in the present catalogue are updated to the date of the catalogue's printing. Ammega Italia S.p.A. reserves the right to modify the specifications, performances and other information relating to the belts described in the present catalogue, at any time at its own discretion, without any prior notice.

For updating refer to our website www.megadynegroup.com.

Technical specifications, performances and other information provided in the present catalogue are indicative and do not bound Ammega Italia S.p.A. unless such specifications, performances or other information are expressly agreed in the agreement with the customer.

We also recommend to read carefully the following documents on our web site www.megadynegroup.com:

- Ammega Italia S.p.A. General Conditions of Sale (comprising the warranty)
- Theoretical Belt Life.
- Drive Components: Storage, Installation, Maintenance and Troubleshooting Handbook
- Belts standard use condition and temperature.

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Discover Your Local Contacts

The local partner of choice
for sustainable power transmission belting solutions
around the globe.

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Italy



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contact

megadynegroup.com/en/contact-us

